# **NEW HORIZON** COLLEGE OF ENGINEERING

Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC Accredited by NAAC with 'A' Grade, Accredited by NBA New Horizon Knowledge Park, Ring Road, Bellandur Post, Bengaluru 560 103

INFIT

Department Of Mechanical Engineering SELF ASSESSMENT REPORT (SAR)

Submitted to



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# SELF ASSESSMENT REPORT (SAR)

## **UNDERGRADUATE ENGINEERING PROGRAMS (TIER-I)**

# DEPARTMENT OF MECHANICAL ENGINEERING



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### **PART A: Institutional Information**

#### **1.** Name and Address of the Institution:

New Horizon College of Engineering, Ring Road, Kadubisanahalli, Bellandur Post, Near Marathalli Bangalore 560103

#### 2. Name and Address of the Affiliating University:

Visvesvaraya Technological University

Jnana Sangama, VTU Main Rd,

Machhe, Belgaum, Karnataka 590018

#### **3. Year of establishment of the Institution:** 2001

# 4. Type of the Institution:

Institute of National Importance	
University	
Deemed University	
Autonomous	
Any other (Please specify)	

#### Note:

- 1. In case of Autonomous and Deemed University, mention the year of grant of status by the authority.
- In case of University Constituent Institution, please indicate the academic autonomy status of the Institution as defined in 12<sup>th</sup> Plan guidelines of UGC. Institute should apply for Tier 1 only when fully academically autonomous.

#### **5.** Ownership Status:

Central Government

State Government

	1	

1

Government Aided	
Self - financing	V
Trust	V
Society	
Section 25 Company	
Any Other (Please specify) Provide Details:	

# 6. Other Academic Institutions of the Trust/Society/Company etc., if any:

Name of the Institution(s)	Year of Establishment	Programs of Study	Location	
New Horizon	1982	Pre-primary to	100 Feet Rd, HAL 2nd Stage,	
Public School		Standard 10	Indiranagar, Bengaluru,	
			Karnataka 560008	
New Horizon	1982	1st PU and 2nd PU	3rd A Cross, 2nd A Main Rd,	
Pre-University			East of NGEF Layout,	
			Kasturi Nagar, Bengaluru,	
			Karnataka 560043	
New Horizon	1980	Bachelor of	100 Feet Rd, HAL 2nd Stage,	
College of		Education	Indiranagar, Bengaluru,	
Education			Karnataka 560008	
New Horizon	1998	BBA, BCom, BCA	Ring Rd, near Marathalli,	
College			Kaverappa Layout,	
Marathalli			Kadabeesanahalli, Bengaluru,	
			Karnataka 560103	
New Horizon	1998	BBA, BCom, BCA	3rd A Cross, 2nd A Main Rd,	
College			East of NGEF Layout,	
Kasturinagar			Kasturi Nagar, Bengaluru,	
			Karnataka 560043	

Table A.6

Note: Add rows as needed.

S N o.	Program Name	Prog ra m	Y e a r	Year of AICT E	Initial Intake	Intake Increase	Curren t Intak e	Accreditati on Status*	From	То	Progra m for consid eration
		App lie	0 f	appr oval							
		d	S								
		level	t								
			a								
			r t								
1.	Bachelor	UG	200	2003	60	Yes	180	Granted	2017	2020	Yes
	of		3					accreditation			
	Engineerin							for 3 years			
	g (BE)							for the period			
								(specify			
								period)			
2.	Master of	PG	201	2014	18	No	18	Not eligible	-	-	No
	Technolog		4					for			
	y in							accreditation			
	Machine										
	Design(M.										
	Tech)										

**7.** Details of all the programs being offered by the institution under consideration:

Table A.7

- \* Write applicable one:
- \* Applying first time
- \* Granted provisional accreditation for two/three years for the period(specify period)
- \* Granted accreditation for 5/6 years for the period (specify period)
- \* Not accredited (specify visit dates, year)
- \* Withdrawn (specify visit dates, year)
- \* Not eligible for accreditation
- \* Eligible but not applied **Note:** Add rows as needed.

Sl. No	Level	Discipline	Program
1.	Under Graduate	Engineering &	Civil Engg.
		Technology	
2.	Under Graduate	Engineering &	Computer Science
		Technology	& Engg.
3.	Under Graduate	Engineering &	Electronics &
		Technology	Communication
			Engg.
4.	Under Graduate	Engineering &	Mechanical Engg.
		Technology	

# 8. Programs to be considered for Accreditation vide this application

Table A.8

# **9.** Total number of employees:

### A. Regular Employees (Faculty and Staff):

Items		CA Y		CAYm1		CAYm2	
		Min	Max	Min	Max	Min	Max
	Μ	124	137	127	141	139	154
Faculty in Engineering	F	107	118	104	115	101	112
Faculty in	Μ	31	34	27	30	26	28
Maths, Science &Humanitie s teaching in engineering Programs	F	44	48	42	46	40	44
N	Μ	102	113	99	109	103	114
teaching staff	F	125	138	125	138	123	136

#### Table A.9a

*Note:* All the faculty whether regular or contractual (except Part-Time), will be considered. The contractual faculty (doing away with the terminology of visiting/adjunct faculty, whatsoever) who have taught for 2 consecutive semesters in the corresponding academic year on full time basis shall be considered for the purpose of calculation in the Faculty Student Ratio. However, following will be

ensured in case of contractual faculty:

- 1. Shall have the AICTE prescribed qualifications and experience.
- 2. Shall be appointed on full time basis and worked for consecutive two semesters during the particular academic year under consideration.
- 3. Should have gone through an appropriate process of selection and the records of the same shall be made available to the visiting team during NBA visit

#### **CAY – Current Academic Year**

#### CAYm1- Current Academic Year minus1= Current Assessment Year CAYm2 - Current Academic Year minus2=Current Assessment Year minus 1

Items		CA Y		CA	Ym1	CAYm2	
		Min	Max	Min	Max	Min	Max
	Μ	44	48	33	36	39	43
Engineering	F	8	9	5	5	3	3
Faculty in	Μ	0	0	0	0	0	0
Maths, Science &Humanitie s teaching in engineering Programs	F	0	0	0	0	0	0
	Μ	0	0	0	0	0	0
Non- teaching staff	F	0	0	0	0	0	0

#### **B.** Contractual Staff Employees (Faculty and Staff): (Not covered in Table A):

Table A.9b

### **10.** Total number of Engineering Students:

Engineering and Technology- UG	Shift1 $$	Shift2 √
Engineering and Technology- PG	Shift1 √	Shift2 $$
Engineering and Technology- Polytechnic	Shift1	Shift2
MBA	Shift1 $$	Shift2
MCA	Shift1 $$	Shift2

### **Engineering and Technology- UG Shift-1**

Course Name	2019-20	2018-19	2017-18
Total no. of Boys	740	728	629
Total no. of Girls	224	229	239
Total	964	957	868

Engineering and Technology- UG Shift-2

Course Name	2019-20	2018-19	2017-18
Total no. of Boys	134	227	222
Total no. of Girls	47	50	58
Total	181	277	280

#### **Engineering and Technology- PG Shift-1**

Course Name	2019-20	2018-19	2017-18
Total no. of Boys	7	4	8
Total no. of Girls	3	0	1
Total	10	4	9

#### **Engineering and Technology- PG Shift-2**

Course Name	2019-20	2018-19	2017-18
Total no. of Boys	2	2	2
Total no. of Girls	2	6	10
Total	4	8	12

#### Engineering and Technology- MBA Shift-1

Course Name	2019-20	2018-19	2017-18
Total no. of Boys	108	117	113
Total no. of Girls	72	62	67
Total	180	179	180

**Engineering and Technology- MCA Shift-1** 

Course Name	2019-20	2018-19	2017-18
Total no. of Boys	68	82	96
Total no. of Girls	33	49	36
Total	101	131	132

#### Table A.10

(Instruction: The data may be categorized in tabular form separately for undergraduate, postgraduate engineering, other program, if applicable)

*Note:* In case the institution is running programs other than engineering programs, a separate table giving similar details is to be included.

#### **11**. Vision of the Institution:

To emerge as an institute of eminence in the fields of engineering, technology and management in serving the industry and the nation by empowering students with a high degree of technical, managerial and practical competence.

#### **12**. Mission of the Institution:

- To strengthen the theoretical, practical and ethical dimensions of the learning process by fostering a culture of research and innovation among faculty members and students.
- To encourage long-term interaction between the academia and industry through the involvement of the industry in the design of the curriculum and its hands-on implementation.
- To strengthen and mould students in professional, ethical, social and environmental dimensions by encouraging participation in co-curricular and extracurricular activities.

# **13**. Contact Information of the Head of the Institution and NBA coordinator, if designated:

- Name: Dr. Manjunatha
   Designation: Principal
   Mobile No: 9901916000
   Email id: principal@newhorizonindia.edu
- NBA coordinator, if designated
   Name: Dr M S Ganesha Prasad
   Designation: Dean, Prof & Head
   Mobile No: 9886921136
   Email id: msgprasad@gmail.com
   dean\_mee@newhorizonindia.edu

# PART B: Criteria Summary

# Name of the program : Mechanical Engineering

Criteria No.	Criteria	Total Marks	Institute marks
	Program Level Criteria		
1.	Vision, Mission and Program Educational Objectives	50	50
2.	Program Curriculum and Teaching – Learning Processes	100	100
3.	Course Outcomes and Program Outcomes	175	175
4.	Students' Performance	100	80.22
5.	Faculty Information and Contributions	200	191.38
6.	Facilities and Technical Support	80	80
7.	Continuous Improvement	75	75
	Institute Level Criteria		
8.	First Year Academics	50	45.80
9.	Student Support Systems	50	50
10.	Governance, Institutional Support and Financial Resources	120	120
	Total	1000	967

# DEPARTMENT OF MECHANICAL ENGINEERING

# **CRITERION 1**

# VISION - MISSION & PROGRAM EDUCATIONAL OBJECTIVE



Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC Accredited by NAAC with 'A' Grade, Accredited by NBA

# DEPARTMENT OF MECHANICAL ENGINEERING INTRODUCTION TO INSTITUTE

New Horizon College of Engineering was established in the year 2001 as a self-financing minority institute funded and managed by 'New Horizon Educational Institutions (NHEI)' which has 50 years of footing in the field of quality education. New Horizon Educational Institutions (NHEI) is a group of premier institutions established in the year 1970. NHEI has an impressive history of providing innovative education, with a vision and mission to impart holistic education to all its students. Strategically situated in the prestigious IT capital of India, Bengaluru, NHEI has grown by leaps and bounds over the past few decades.

We, at New Horizon, constantly strive in the pursuit of excellence, imparting the kind of education that would make our country proud. The name 'New Horizon' is synonymous with extraordinary performance, dedicated commitment towards teaching & training, unrelenting honing of skills, nurturing of talent, character building and development of a holistic personality. Under the umbrella of New Horizon Educational institutions, we have nine high performing institutions that take care of the educational needs of students from the pre-primary level to the professional stage.

Every institution at New Horizon follows a key philosophy, encompassing two important things: the 'Mission Possible' theory and the belief that 'Every Problem Has a Solution.' Guided by a noble vision and a clear vision, inspired by NHEI's motto 'In Pursuit of Excellence', and motivated by invaluable core values that ultimately make a complete human being, New Horizon aims at offering everything that students would require to succeed not just in their professional life but in their personal one as well.

New Horizon College of Engineering is an Autonomous college affiliated to Visvesvaraya Technological University (VTU), approved by the All-India Council for Technical Education (AICTE), Government of Karnataka and University Grants Commission (UGC). It is accredited by NAAC with 'A' grade and National Board of Accreditation (NBA). New Horizon College of engineering started with four UG programs with an approved intake of 60 in Electronics and Communication Engineering, Information Science and Computer Science and 40 in Electrical and Electronics Engineering. Over the years the institution has grown leaps and bounds. Within a short span of time the institute acquired UG, PG and Research programs. The college today has 10 programmes at the under graduate level and 05 programmes at the post graduate level.

New Horizon Educational Institutions (NHEI) is a recipient of prestigious "Rajyostava State Award 2012" conferred by the Government of Karnataka for providing excellent service in the field of education. NHCE has been awarded Excellent Engineering Institute in India South.

NHCE has a scenic and serene campus that provides an environment which is conducive for personal and intellectual growth. The infrastructure acts as a facilitator for the effective delivery of the curriculum. NHCE boasts of state-of-the-art facilities for its students. They are given utmost encouragement in their areas of interest by providing hitech facilities backed by faculty support.

# DEPARTMENT OF MECHANICAL ENGINEERING INTRODUCTION TO DEPARTMENT

Mechanical Engineering is perhaps the most diverse and versatile of the engineering disciplines. In addition to physics and mathematics, it encompasses key elements of aerospace, electrical, civil, chemical and even material science and bio-engineering.

Mechanical engineering touches virtually every aspect of modern life, from mobile phones and biomedical devices, to aircrafts and power plants. Not only engineering, mechanical engineers deal with economic issues, from the cost of single component, to the economic impact of a manufacturing plant. Besides this, mechanical engineers can also be found in sales, engineering management, and corporate management. Versality is another unique advantage in a world that is undergoing constant economic, political, industrial and social change. Mechanical engineers are educated and positioned, not only to adopt, but to define and direct change.

The Department of Mechanical Engineering at New Horizon College of Engineering was established in the year 2003-2004 with an intake of 60 students. The department progressed in its intake to 120 students in the year 2012-2013. The department was accredited by NBA in the year 2009 for the period of 03 years. Mechanical department at New Horizon College of Engineering got its research center status in the year 2010-2011. In addition, the post-graduation programmes were started for Master of Technology in Computer Integrated Manufacturing and Aeronautical Engineering with an intake of 18 students in the year of 2012-2013. The post-graduation programme in Machine Design was further added with an intake of 18 students in the year of 2014-2015. The department is equipped with latest equipment and experimental setups in the laboratories to help in teaching learning process. The department also conducts number of workshops to enhance the knowledge and to get awareness among the students with the latest technologies.

# 1-VISION, MISSION AND PROGRAM EDUCATIONAL OBJECTIVES

### **1.1 State the Vision and Mission of the Department and Institute**

### **INSTITUTE VISION AND MISSION**

# VISION

To emerge as an institute of eminence in the fields of engineering, technology and management in serving the industry and the nation by empowering students with a high degree of technical, managerial and practical competence.

# MISSION

- To strengthen the theoretical, practical and ethical dimensions of the learning process by fostering a culture of research and innovation among faculty members and students.
- To encourage long-term interaction between the academia and industry through the involvement of the industry in the design of the curriculum and its handson implementation.
- To strengthen and mould students in professional, ethical, social and environmental dimensions by encouraging participation in co-curricular and extracurricular activities.

# **DEPARTMENT VISION AND MISSION**

### VISION

To create competent mechanical engineers capable of working in diversified disciplines for transformative impact on societal progressive development in the field of mechanical engineering through creative research and lifelong learning.

# MISSION

- To impart excellent education by providing the state of art research facilities in the field of mechanical engineering.
- To develop alliances with industries and other organizations for excellence in the teaching learning process, research and consultancy projects.
- To enhance the knowledge of students in intellectual, entrepreneurial and ethical challenges through active participation by critical thinking.

# <u>Appropriateness/Relevance/Consistency of Vision - Mission of the</u> <u>Department with that of Institute</u>

Vision and Mission statements of the Department of Mechanical Engineering are defined in-line with those of institute as illustrated in the table below:

Components of Vision Statement of NHCE	Components of Vision Statement of Department
<sup>1</sup> To emerge as an institute of eminence in the fields of engineering technology and	<sup>1</sup> To create competent mechanical engineers canable of working in
management in <sup>2</sup> serving the industry and the nation by empowering students with a	diversified disciplines for <sup>2</sup> transformative impact on societal
high degree of technical, managerial and practical competence.	progressive development in the field of mechanical engineering through creative research and lifelong learning.

Components of Mission Statement of NHCE	Components of Mission Statement of Department
• To strengthen the theoretical, practical and ethical dimensions of the learning process by fostering a <sup>1</sup> culture of research and innovation among faculty members and students.	<ul> <li>To impart excellent education by providing the state of art <sup>1</sup>research facilities in the field of mechanical engineering.</li> <li>To develop <sup>2</sup>alliances with</li> </ul>
• To encourage long-term <sup>2</sup> interaction between the academia and industry through the involvement of the industry in the design of the curriculum and its hands-on implementation.	industries and other organizations for excellence in the teaching learning process, research and consultancy projects.

• To <sup>3</sup> strengthen and mould students in professional, ethical, social and environmental dimensions by encouraging participation in co- curricular and extracurricular activities.	• To <sup>3</sup> enhance the knowledge of students in intellectual, entrepreneurial and ethical challenges through active participation by critical thinking
curricular and extracurricular activities.	participation by critical tilliking

### **1.2 State the Program Educational Objectives (PEO'S)**

#### **PROGRAM EDUCATIONAL OBJECTIVES (PEO'S)**

**PEO1:** The graduates will be able to apply the overall knowledge of Mechanical Engineering along with concepts of Mathematics, Science, Communication and Computing skills to understand specific problem areas and finding the optimal solutions for the same.

**PEO2:** The graduates will be able to implement ideas of Mechanical Engineering for the challenging tasks in the interdisciplinary areas like Electrical, Electronics, Computer Science, Civil, Bio-Technology and allied branches.

**PEO3:** The graduates will be widely talented in the fields of manufacturing, service and design industries, which will not only improve their employability but also aid in establishing the above said industries.

**PEO4:** The graduates will develop lifelong learning attitudes, ethics and values that will help their career employability and growth in engineering, academia, defense, state and central government sectors.

# **1.3 Indicate where the Vision, Mission and PEOs are published and disseminated among stakeholders**

The Vision and Mission are published and disseminated at the following places:

- Institute website: http://newhorizonindia.edu/nhengineering/
- Department website: http://newhorizonindia.edu/nhengineering/mechanicalengineering/
- HOD Room
- Laboratories
- Curriculum and Syllabus copies
- Course file
- Department Corridors
- Practical Record Book
- Internal Blue Books (CIE Test Book)
- Staff Rooms
- Department Notice Boards
- Lab Manual

#### The PEOs are published and disseminated at the following places:

- Department website:http://newhorizonindia.edu/nhengineering/mechanicalengineering/
- Curriculum and Syllabus Copies
- Laboratories
- Laboratory Manuals

- Department Corridors
- Lab Records
- Internal Blue Books
- Department Notice Boards

#### Vision and Mission of the Department are disseminated to stakeholders as follows:

- Special sessions are organized before starting of the academic session, where faculty members and Lab staffs are explained the Vision and Mission.
- The Vision and Mission statements are explicitly communicated to the newly enrolled students and the parents during orientation and induction program.
- The Vision and Mission statements are communicated to the Alumni during Alumni interaction.
- The statements are communicated to the industry/employers through presentations during industrial visits, placements and with other industry-institute interactions.

Additionally, dissemination of PEOs to various stakeholders of the program is done at the meetings of faculty members, Board of Studies (BOS), Program Assessment Committee (PAC) and Department Advisory Board (DAB).

# 1.4 State the process for defining the Vision and Mission of the Department and PEO's of the program

The Department's vision and mission are found through a consultative process involving the stakeholders, faculty of the department and the Advisory Board members of the institution.

#### The Process for defining the Vision and Mission of the Department:

- 1. Department vision and mission are derivative components of institute vision and mission.
- 2. The internal and the external stakeholders are involved in framing or reframing

the vision and mission of the department.

- 3. The internal stakeholders are
  - a. Management
  - b. Faculties
  - c. Students
- 4. The external stakeholders are
  - a. Industry/Employer
  - b. Alumni members
  - c. Professional bodies
  - d. Parents
  - e. Eminent Academicians
- 5. Discussions, brainstorming sessions will be made among the members to arrive on vision and mission statements.
- 6. The Program Coordinator will take this forward to the PAC and DAB committee members for the final approval.
- 7. The accepted views are analyzed and reviewed to check the consistency with the vision and mission of the institute.
- 8. The Program Coordinator forwards to the Board of studies (BOS), and the final version is submitted to the Academic Council for approval.
- 9. Program coordinator disseminate the Vision and Mission statements to the department

#### **Program Assessment Committee (PAC) comprises the following members:**

- Head of the Department Chairperson/ Coordinator for PAC
- Professors, Associate Professors & Assistant Professors in the department

associated with the program

#### Departmental Advisory Board (DAB) comprises of the following members:

- Head of the Department Chairperson/ Program coordinator
- External Academicians
- Industry Experts /Employees
- Students
- Alumni

#### Inputs from stakeholders in reframing VISION-MISSION of the department

- Enclosed in page number 68 of PAC meeting
- Enclosed in page number 72 of PAC meeting

#### Finalizing new VISION-MISSION of the department

• Enclosed in page number 30 of DAB meeting



#### **Process for Defining Vision and Mission of the Department:**

# Fig 1.1: Process for defining Vision and Mission of the department

## The process for defining the PEO's:

The Program Educational Objectives (PEO's) were formally established in a process carried out before the launch of the program. PEO's were formulated as a result of a series of meetings, comprising of faculty, Program Assessment Committee (PAC), and Students, Alumni and Industry Experts/ Employees.

PEO's are formulated / reviewed through a consultative process involving the stakeholders including students, alumni, industry experts/employers, faculty and staff members.

#### The PEO's are reviewed through the following process steps:

Step 1: Program Outcomes defined by NBA as well as Vision and Mission of the

Department are taken as the basic guide for consultation with various stakeholders.

Step 2: PAC collects the inputs from all stake holders and prepares draft PEOs, which is

circulated among all stake holders for suggestions.

- Step 3: PAC collects the views and presents the same to the Departmental Advisory Board (DAB).
- **Step 4:** The Dean / HOD presents the PEOs to the Board of Studies (BOS) and submit the final version to the Academic council for approval.

# **Process for Defining PEO's of the Programme:**



Fig 1.2: Illustrates the process for establishing the PEO's

### **1.5 Establish consistency of PEO's with Mission of the Department**

### Mapping of PEO's V/S Mission of Department:

The department made sure that the Program Educational Objectives serve the mission of the department. To ensure that, the mapping between Mission and Program Educational Objectives (PEOs) was developed with justification.

#### PROGRAM EDUCATIONAL OBJECTIVES (PEOS)

**PEO 1:** The graduates will be able to apply the overall knowledge of Mechanical Engineering along with concepts of Mathematics, Science, Communication and Computing skills to understand specific problem areas and finding the optimal solutions for the same.

**PEO 2:** The graduates will be able to implement ideas of Mechanical Engineering for the challenging tasks in the interdisciplinary areas like Electrical, Electronics, Computer Science, Civil, Bio-Technology and allied branches.

**PEO 3:** The graduates will be widely talented in the fields of manufacturing, service and design industries, which will not only improve their employability but also aid in establishing the above said industries.

**PEO 4:** The graduates will develop lifelong learning attitudes, ethics and values that will help their career employability and growth in engineering, academia, defense, state and central government sectors.

#### MISSION STATEMENTS

**M1:** To impart excellent education by providing the state of art research facilities in the field of mechanical engineering.

**M2:** To develop alliances with industries and other organizations for excellence in teaching learning process, research and consultancy projects.

**M3:** To enhance the knowledge of students in intellectual, entrepreneurial and ethical challenges through active participation by critical thinking.

Department of Mechanical Engineering / NHCE

PEO'S	MISSION OF THE DEPARTMENT		
	M1	M2	M3
PEO1	3	2	2
PEO2	3	3	2
PEO3	3	2	2
PEO4	2	2	3

#### Table 1.1: Mapping between Mission and PEO's

Slightly (Low) =1, Moderate (Medium)=2, Substantial (High)=3

#### Consistency/justification of co-relation parameters of the PEO's-Mission matrix:

**PEO1** which is concerned with the <sup>1,2,3</sup> **application of overall knowledge** of mechanical engineering **maps substantially with M1.** The mission statement **M1** focus on <sup>1</sup>providing the students with excellent education with best research facilities. Also, **PEO1 maps moderately with M2** and **M3** as it is concerned with <sup>2,3</sup> industry institute interaction and ability towards critical thinking.

**PEO2** which focuses on <sup>1,2,3</sup>**implementing the ideas of Mechanical Engineering for the challenging task in the interdisciplinary areas** like Electrical, Electronics, Computer Science, Civil, Bio-Technology and allied branches **substantially maps with M1 and M2**. These mission statements are concerned with providing best lab facilities with <sup>1,2</sup>**interdisciplinary departments and industry support**. **PEO2 maps moderately with M3** as the <sup>3</sup>**critical thinking is necessary in interdisciplinary areas**.

**PEO3** which focuses on <sup>1,2,3</sup> utilizing the talent of graduates in the fields of manufacturing, service and design industries, which will not only improve their employability but also aid in establishing the above said industries, substantially maps with M1 as the mission statement focus on <sup>1</sup>best exposure to students through practical experience gained in the laboratories. Also, PEO3 maps moderately with

M2 and M3 as these mission statements concentrates on the <sup>2,3</sup>industry institute interaction along with active participation.

**PEO4** which is concerned with <sup>1,2,3</sup> **development of lifelong learning attitudes, ethics and values among graduates** that will help their career employability and growth in engineering, academia, defense, state and central government sectors **moderately maps with M1 and M2**, as these mission statements focuses on providing the <sup>1,2</sup>best lab facilities with interdisciplinary departments and industry support which is necessary for developing their career towards higher studies or industries. In addition, **PEO4 maps substantially with M3** as the mission statement focuses on <sup>3</sup>active participation.

# DEPARTMENT OF MECHANICAL ENGINEERING

# **CRITERION 2**

# PROGRAM CURRICULUM AND TEACHING LEARNING PROCESSES

# CRITERION 2:PROGRAM CURRICULUM AND TEACHING LEARNING PROCESSES

#### 2.1 Program Curriculum (30)

#### 2.1.1 State the process for designing the program curriculum (10)

**Step-1:** Program Assessment Committee (PAC) prepares draft curriculumcurricular changes based on the following:

- Department Vision and Mission.
- Inputs obtained from stakeholders.
- Benchmarking of curriculum against same/ similar program(s) run by leading educational institutions including IITs, NITs, Best Private and Foreign Universities.
- Guidelines of statutory bodies, such as, AICTE /UGC.
- Departmental Advisory Board
- Program Educational Objectives.
- Conclusions drawn from analysis of attainment of COs, POs, PSOs.

The draft curriculum and syllabus is prepared to include the subjects in basic science, engineering science, humanities and social science, program core subjects, program electives, open electives and projects/internships.

**Step-2:** Conduct Board of Studies (BoS) meeting to finalize the curriculum and syllabus.

- **Step-3**: Incorporate the changes and suggestions discussed in the BoS meeting.
- **Step-4:** Submit the final curriculum for approval to Academic Council.
- Step-5: Incorporate the changes and suggestions discussed in the Academic council meeting.

**Step-6:** Implement the curriculum scheme and syllabus.

The flow chart for the design and or revision of the program curriculum and syllabus is shown in Figure 2.1. Sample of the BoS meeting conducted is shown in Figure 2.2 (a) (b) and (c).







Sl. No	Particulars	Page No
1	Agenda for the meeting	3
2	List of Members	4
3	List of Members Present	5
4	Welcome address by Chairman of BoS and Introduction of members	6
5	Agenda - 1	6
6	Agenda - 2	6
7	Agenda – 3	7
8	Agenda - 4	7
9	Recommendations of the Board	8
10	Vote of thanks by Chairman of BoS	9

BoS meeting page 1

BoS Meeting - Department of Mechanical Eng

BoS meeting page 2

BoS Meeting - Department of Mechanical Engineering

Page 2 of 9

Figure 2.2 (a):Sample BoS meeting set 1

New Horizon College of Engineering

#### AGENDA FOR THE MEETING

- Agenda 1 Approval of scheme and Syllabus for 1st and 2nd Year 2018-2022 batch 175 credits
- \* Agenda 2 Approval of scheme for 3rd and 4th Year 2018-2022 batch
- Agenda 3 Approval of scheme and syllabus for PG of all semesters 88 credits
- Agenda 4 Ratification of scheme for 2nd year of 2017-2021 batch for Mini Project

#### BOARD OF STUDIES -2019 Course: BE Branch: Mech Nomination of the Affiliated To SI Category Name of the person committee Head of the Department Dr. M S Ganesha Prasad Chairperson NHCE, Bangalore Members Dr. Shridhar Kurse NHCE, Bangalore Dr. Gopala Krishnan Dr. P Adhikary NHCE, Bangalore Faculty member a different level ver 5 3 NHCE, Bangalore Dr. Ashok Kumar NHCE, Bangalore Prof. Naresh .K.S. NHCE, Bans 5 alon 6 Prof. Puneeth. H.V NHCE, Bangalore Member Professor NMIT, Bangalor Dr. Kiran Aithal Professor and Domain Head ACRC - PES University, Dr. N Rajesh Mathiyanan 2 VTU Non Member Dr. Shanmukha Nagaraj RVCE, Bangalore Members Mr. Prajwal Sabnis Co-Founder at Orxa Energies 2 Dr. Shiva Prasad Sr. Engineer, HAL, Bangalore ed by Academic Council Members Graduates / Post Graduates merite Mr. Aneesh Senior Design Engineer, L & T. Mahajan Bangalore Design Engineer – Autoliv Bangalore amni nominated by incipal Mr Manjunath B Members Prof. Ronald Asst. Professor, NHCE, Bangalore Placement Co-ordinator, NHCE, Prof. Bopanna Placement Officer, NHCE, Mr. Gabriel Bangalore My

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Minutes

AGENDA - 1

Minutes

Computer Aided Machine Drawing (19MEE331/431)

Material Science and Metallurgy (19MEE361/461)

- Mechanics of Materials (19MEE351/451)

- Fluid Mechanics (19MEE362/462)

Mechanical Measurements and Metrology (19MEE352/452)

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Dean, Professor & HoD-ME

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BoS Meeting - Department of Mechanical Engineering



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SELF ASSESSMENT REPORT 2019-20



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Figure 2.2 (c): Sample BoS meeting set 3
### 2.1.2 Structure of the Curriculum (5)

The credit system followed is shown in the table 2.1. The credit system was reduced to 175 from 200, from the academic year 2018, as per the circular received from AICTE. (VTU). The credit distribution of the institute from 2013 to 2019 is shown in Table 2.1. The detailed curriculum for the batches 2015-2019, 2016-2020, 2017-2021 (200 credit system), 2018-2022, 2019-2023 (175 credit system)are shown in the Tables 2.2 to Table 2.23 (a).

SI No.	Affiliation	Academic year	Total Credits
1.	V.T.U	2013-2017	Marks Based System
2.	V.T.U	2014-2018	Marks Based System
3.	Autonomous under V.T.U	2015-2019	200
4.	Autonomous under V.T.U	2016-2020	200
5.	Autonomous under V.T.U	2017-2021	200
6.	Autonomous under V.T.U	2018-2022	175
7.	Autonomous under V.T.U	2019-2023	175

Table 2.1.	Total	credits fo	r the	academic	vears	from	2013	to	2019
1 abic 2.1.	rotar	cicuits 10	i uic	academic	years	nom	2015	ω	2017

Bachelor of Engineering in Mechanical Engineering Program is spread across eight semesters. The curriculum comprises of Basic Sciences, Engineering Sciences, Humanities and Social Sciences, Program Core, Program Electives, Projects, Internships and Management components. The credits associated with the courses are fixed based on the following norms.

sı	Course			Ci	redit Di	stributi	on	Overall	Contact	Marks			
No	Code	Course	BoS	L	P	т	S	Credits	Weekly- Theory	CIE	SEE	Total	
1	18MAT11	Applied Mathematics-I	BS	2	1	0	0	3	4	50	50	100	
2	18CHE12	Engineering Chemistry	BS	3	0	0	0	3	3	50	50	100	
3	18CSE13	Introduction to Programming with C	CSE	3	0	0	0	3	3	50	50	100	
4	18MEE14	Computer Aided Engineering Drawing	ME	1	0	2	0	3	5	50	50	100	
5	18ECE15	Basic Electronics	ECE	3	0	0	0	3	3	50	50	100	
6	18HSS16	Professional Communicatio n	HSS	2	0	0	0	2	2	25	25	50	
7	18CHL17	Engineering Chemistry Lab	BS	0	0	2	0	2	4	25	25	50	
8	18CSL18	Programming with C Lab	CSE	0	0	2	0	2	4	25	25	50	
9	18HSS172	Constitution of India and Professional Ethics	HSS	Ma	ndato	ry Cou	rse	0	2	25	25	50	
		Т	otal					21	30	350	350	700	

**Table 2.12:1**<sup>st</sup> year (1<sup>st</sup> Sem-Chemistry Cycle) Curriculum 2018 & 2019 batch.

**Table 2.13:** 1<sup>st</sup> year (1<sup>st</sup> Sem-Physics Cycle) Curriculum 2018 & 2019 batch.

	C			C	redit Di	stributi	ion	0	Contact		Marks	
No No	Course	Course	BoS						Weekdy-	CIE	SEE	Total
				L	P	Т	S		Theory			
1	18MAT11	Applied Mathematics -I	BS	2	1	0	0	3	4	50	50	100
2	18PHY12	Engineering Physics	BS	3	0	0	0	3	3	50	50	100
3	18MEE13	Elements of Mechanical Engineering	ME	3	0	0	0	3	3	50	50	100
4	18CIV14	Elements of Civil Engineering	CV	3	0	0	0	3	3	50	50	100
5	18EEL15	Basic Electrical Engineering	EE	3	0	0	0	3	3	50	50	100
6	18PHL16	Engineering Physics Lab	BS	0	0	2	0	2	4	25	25	50
7	18EEL17	Basic Electrical Engineering Lab	EE	0	0	2	0	2	4	25	25	50
8	18HSS171	Essential English	HSS	М	andator	у Сош	se	0	2	25	25	50
		1	otal		19	26	325	325	650			

<b>C1</b>	C	Course		с	redit Di	stributi	ion	0	Contact	Marks			
No No	Course	Course	BoS					Credits	Weekly-	CIE	SEE	Total	
				L	P	Т	S		Theory				
1	18MAT21	Applied Mathematics-II	BS	2	1	0	0	3	4	50	50	100	
2	18CHE22	Engineering Chemistry	BS	3	0	0	0	3	3	50	50	100	
3	18CSE23	Introduction to Programming with C	CSE	3	0	0	0	3	3	50	50	100	
4	18MEE24	Computer Aided Engineering Drawing	ME	1	0	2	0	3	5	50	50	100	
5	18ECE25	Basic Electronics	ECE	3	0	0	0	3	3	50	50	100	
6	18HSS26	Professional Communication	HSS	2	0	0	0	2	2	25	25	50	
7	18CHL27	Engineering Chemistry Lab	BS	0	0	2	0	2	4	25	25	50	
8	18CSL28	Programming with C Lab	CSE	0	0	2	0	2	4	25	25	50	
9	18HSS272	Constitution of India and Professional Ethics	HSS	Mandatory Course				0	2	25	25	50	
		1	[otal					21	30	350	350	700	

**Table 2.15:** 1<sup>st</sup> year (2nd Sem-Physics Cycle) Curriculum 2018 & 2019 batch.

<b>C1</b>	Commo			с	redit Di	stributi	on	0	Contact		Marks	
No No	Course	Course	BoS		rean Di	Sureau	~	Credits	Weekly-	CIE	SEE	Total
				L	P	Т	S		Theory			
1	18MAT21	Applied Mathematics -II	BS	2	1	0	0	3	4	50	50	100
2	18PHY22	Engineering Physics	BS	3	0	0	0	3	3	50	50	100
3	18MEE23	Elements of Mechanical Engineering	ME	ß	0	0	0	3	3	50	50	100
4	18CIV24	Elements of Civil Engineering	cv	3	0	0	0	3	3	50	50	100
5	18EEE25	Basic Electrical Engineering	EE	3	0	0	0	3	3	50	50	100
6	18PHL26	Engineering Physics Lab	BS	0	0	2	0	2	4	25	25	50
7	18EEL27	Basic Electrical Engineering Lab	EE	0	0	2	0	2	4	25	25	50
8	18HSS271	Essential English	HSS	М	andator	ry Cour	se	0	2	25	25	50
		1		19	26	325	325	650				

	Credit				it				Mark	5	
Sl no	Course Code	Course	BOS	Dis	tribu	tion	Overall Credits	Contact Hours	CIE	SEE	Total
				L	Т	Р					
1	19MEE31	Applied Mathematics- 3	BS	2	1	0	3	4	50	50	100
2	19HSS322	Life skills for engineers	HSS	3	0	0	3	3	50	50	100
3	19MEE331	Computer aided machine drawing	MEE	2	0	2	4	6	50	50	100
4	19MEE341	Casting, Forging and Joining Technology	MEE	3	0	0	3	3	50	50	100
5	19MEE351	Mechanics of Materials	MEE	2	1	0	3	4	50	50	100
6	19MEE361	Material Science & Metallurgy	MEE	3	0	0	3	3	50	50	100
7	19MEL341	Casting, Forging and Joining Technology Lab	MEE	0	0	2	2	4	25	25	50
8	19MEL351	Mechanics of Materials Lab	MEE	0	0	1	1	2	25	25	50
9	19MEL361	Material Science & Metallurgy Lab	MEE	0	0	1	1	2	25	25	50
	Total							31	375	375	750

<b>Table 2.16:</b> 2 <sup>nd</sup> year (3 <sup>rd</sup> S	em Cycle A) Curriculum	2018 & 2019 batch.
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	Credit	i.				Mark	5				
Sl no	Course Code	Course	BOS	Dis	tribu	tion	Overal Credit:	Contact Hours	CIE	SEE	Total
				L	T	P					
1	19MEE41	Applied Mathematics-4	BS	2	1	0	3	4	50	50	100
2	19HSS421	Economics for Engineers	HSS	2	0	0	2	2	25	25	50
3	19HSS423	Environmental Science and Awareness	HSS	1	0	0	1	1	25	25	50
4	19MEE432	Basic Thermodynamics	MEE	2	1	0	3	4	50	50	100
5	19MEE442	Machines for Manufacturing Technology	MEE	3	0	0	3	3	50	50	100
6	19MEE452	Mechanical Measurements & Metrology	MEE	3	0	0	3	3	50	50	100
7	19MEE462	Fluid Mechanics	MEE	2	1	0	3	4	50	50	100
8	19MEL442	Machines for Manufacturing Technology Lab	MEE	0	0	1	1	2	25	25	50
9	19MEL452	Mechanical Measurements & Metrology Lab	MEE	0	0	1	1	2	25	25	50
10	19MEL462	Fluid Mechanics Lab	MEE	0	0	1	1	2	25	25	50
11	19MEE47	Mini Project-1	MEE		-		2	-	25	25	50
		Total					23	27	400	400	800

				Credit					Mar	'ks	
Sl no	Course Code	Course	BOS	Dis	tribu	tion	Overall Credits	Contact Hours	CIE	SEE	Total
				L	Т	P					
1	19MEE31	Applied Mathematics-3	BS	2	1	0	3	4	50	50	100
2	19HSS321	Economics for Engineers	HSS	2	0	0	2	2	25	25	50
3	19HSS323	Environmental Science and Awareness	HSS	1	0	0	1	1	25	25	50
4	19MEE332	Basic Thermodynamics	MEE	2	1	0	3	4	50	50	100
5	19MEE342	Machines for Manufacturing Technology	MEE	3	0	0	3	3	50	50	100
6	19MEE352	Mechanical Measurements & Metrology	MEE	3	0	0	3	3	50	50	100
7	19MEE362	Fluid Mechanics	MEE	2	1	0	3	4	50	50	100
8	19MEL342	Machines for Manufacturing Technology Lab	MEE	0	0	1	1	2	25	25	50
9	19MEL352	Mechanical Measurements & Metrology Lab	MEE	0	0	1	1	2	25	25	50
10	19MEL362	Fluid Mechanics Lab	MEE	0	0	1	1	2	25	25	50
Total							21	27	375	375	750

**Table 2.18:** 2<sup>nd</sup> year (3<sup>rd</sup> Sem Cycle B) Curriculum 2018 & 2019 batch.

			Credit			i#			Marks		
Sl no	Course Code	Course	BOS	Dis	tribu	tion	Overall Credits	Contact Hours	CIE	SEE	Total
				L	Т	P					
1	19MEE41	Applied Mathematics-4	BS	2	1	0	3	4	50	50	100
2	19HSS422	Life skills for engineers	HSS	3	0	0	3	3	50	50	100
3	19MEE431	Computer aided machine drawing	MEE	2	0	2	4	6	50	50	100
4	19MEE441	Casting, Forging and Joining Technology	MEE	3	0	0	3	3	50	50	100
5	19MEE451	Mechanics of Materials	MEE	2	1	0	3	4	50	50	100
6	19MEE461	Material Science & Metallurgy	MEE	3	0	0	3	3	50	50	100
7	19MEL441	Casting, Forging and Joining Technology Lab	MEE	0	0	2	2	4	25	25	50
8	19MEL451	Mechanics of Materials Lab	MEE	0	0	1	1	2	25	25	50
9	19MEL461	Material Science & Metallurgy Lab	MEE	0	0	1	1	2	25	25	50
10	19MEE47	Mini Project-1	MEE		-		2	-	25	25	50
Total						25	31	400	400	800	

**Table 2.19:** 2<sup>nd</sup> year (4<sup>th</sup>Sem Cycle B) Curriculum 2018 & 2019 batch.

			Credit						Marks		
Sl no	Course Code	Course	Dis	tribu	tion	Overall Credits	Contact Hours	CIE	SEE	Total	
			L	Т	P						
1	19MEE51	Machine Theory & Mechanism Design	2	1	0	3	4	50	50	100	
2	19MEE52	Heat Power Cycles	2	1	0	3	4	50	50	100	
3	19MEE53	Rotor Dynamics	2	1	0	3	4	50	50	100	
4	19MEE54	Design of Machine Elements-1	3	1	0	4	5	50	50	100	
5	19MEE55	Project Management & entrepreneurship	2	0	0	2	2	25	25	50	
6	19MEE56X	Professional Elective- PE1	3	0	0	3	3	50	50	100	
7	19MEL51	Machine Theory & Mechanism Design Lab	0	0	1	1	2	25	25	50	
8	19MEL52	Heat Power Cycles Lab	0	0	1	1	2	25	25	50	
9	19MEL53	Rotor Dynamics Lab	0	0	1	1	2	25	25	50	
10	19MEE57	Mini Project-2		-		2	3	25	25	50	
		Total				23	31	375	375	750	

**Table 2.20:**3<sup>rd</sup> Year (5<sup>th</sup> Sem) Curriculum 2018 & 2019 batch.

**Table 2.20 (a):** 3<sup>rd</sup> Year (5<sup>th</sup> Sem-Electives) Curriculum 2018 & 2019 batch.

Subject Code	Professional Electives-PE1
19MEE561	Mechatronics and Microprocessors
19MEE562	Composite Materials
19MEE563	Refrigeration and Air conditioning
19MEE564	Smart Materials
19MEE565	Theory of Elasticity
19MEE566	IIOT Embedded systems

			Credit				Marks			
Sl no	Course Code	Course	Dis	Distribution		Overall Credits	Contact Hours	CIE	SEE	Total
			L	Т	Р					
1	19MEE61	Fundamentals of Heat Transfer	2	1	0	3	4	50	50	100
2	19MEE62	Finite Element Methods	2	1	0	3	4	50	50	100
3	19MEE63	Design of Machine Elements-2	3	1	0	4	5	50	50	100
4	19MEE64X	Professional Elective-PE2	3	0	0	3	3	50	50	100
5	19MEE65X	Professional Elective-PE3	3	0	0	3	3	50	50	100
6	NHOPX	Open Elective- OE1	3	0	0	3	3	50	50	100
7	19MEL61	Fundamentals of Heat Transfer Lab	0	0	1	1	2	25	25	50
8	19MEL62	Finite Element Methods Lab	0	0	1	1	2	25	25	50
9	19MEE67	Mini Project-3		-		2	0	25	25	50
		Total				23	22	375	375	750

**Table 2.21:** 3<sup>rd</sup> Year (6<sup>th</sup> Sem) Curriculum 2018 & 2019 batch.

**Table 2.21 (a):** 3<sup>rd</sup> Year (6<sup>th</sup> Sem-Electives) Curriculum 2018 & 2019 batch.

	Professional Elective-2	Professional Elective-3				
Course Code	Course	Course Code	Course			
19MEE641	Fundamentals of Tribology	19MEE651	Nanotechnology			
19MEE642	Computer Graphics	19MEE652	Fracture Mechanics			
19MEE643	Fundamentals of Plastic Mold Design and Die Design	19MEE653	Product Life Cycle Management			
19MEE644	Emerging Automotive Technologies	19MEE654	Supply Chain Management			
19MEE645	Advanced Robotics	19MEE655	Computational Fluid Dynamics			

Subject Code	Open Electives-OE-1
NHOP01	Big Data Analytics using HP Vertica-1
NHOP02	VM Ware Virtualization Essentials-1
NHOP03	Adobe Experience manager 1
NHOP04	Big Data Analytics using HP Vertica-2
NHOP05	VM Ware Virtualization Essentials-2
NHOP06	Adobe Experience manager 2
NHOP07	SAP
NHOP08	Schneider-Industry Automation
NHOP09	Cisco-Routing and Switching-1
NHOP10	Data Analytics
NHOP11	Machine learning
NHOP12	CISCO-Routing and switching - 2
NHOP13	HoT Embedded Systems
NHOP14	Block chain

 Table 2.21 (b): 3<sup>rd</sup> Year (6<sup>th</sup> Sem- Open Electives) Curriculum 2018 & 2019 batch.

			Credit					Marks			
SI	Course	Course	Dis	tribu	tion	Overall Credits	Contact Hours	CIE	CFF	Total	
	coue		L	Т	Р	creates	110413	CIE	JEE	TOTAL	
1	19MEE71	Mechanical Vibrations	2	1	0	3	4	50	50	100	
2	19MEE72	Control Engineering	2	1	0	3	4	50	50	100	
3	19MEE73	Automation Engineering	2	1	0	3	4	50	50	100	
4	19MEE74X	Professional Elective- PE4	3	0	0	3	3	50	50	100	
5	19MEE75X	Professional Elective- PE5	3	0	0	3	3	50	50	100	
6	NHOPX	Open Electiv-OE2	3	0	0	3	3	50	50	100	
7	19MEL71	Mechanical Vibrations Lab	0	0	1	1	2	25	25	50	
8	19MEL72	Control Engineering Lab	0	0	1	1	2	25	25	50	
9	19MEL73	Automation Engineering Lab	0	0	1	1	2	25	25	50	
10	19MEE76	Main Project- Phase-I		-		2	3	25	25	50	
		Total				23	29	400	400	800	

**Table 2.22:** 4<sup>th</sup> Year (7<sup>th</sup> Sem) Curriculum 2018 & 2019 batch.

**Table 2.22(a):** 4<sup>th</sup> Year (7<sup>th</sup> Sem-Elective list) Curriculum 2018 & 2019 batch.

	Professional Elective-4	Professional Elective-5				
Course Code	Course	Course Code	Course			
19MEE741	Operation Research	19MEE741	Design for Manufacturing & Assembly			
19MEE742	Production and Operational Management	19MEE742	Applied Numerical Techniques and Computing			
19MEE743	Research Methodology	19MEE743	Total Quality Management			
19MEE744	Organizational Behaviour & Professional Ethics	19MEE744	Hydraulics and Pneumatics			
19MEE745	Machine Learning & Artificial Intelligence	19MEE745	Rapid Prototyping			

**Table 2.23:** 4<sup>th</sup> Year (8<sup>th</sup> Sem) Curriculum 2018 & 2019 batch.

SI	Course	Course	Credit		Overall	Contact	Marks			
110	Code		Dis	Distribution		Credits	Hours	CIE	SEE	Total
			L	Т	P					
1	19MEE81X	Professional Elective-PE6	3	0	0	3	3	50	50	100
2	19MEE82X	Professional Elective-PE7	3	0	0	3	3	50	50	100
3	19MEE82	Internship		-		4	3	50	50	100
4	19MEE83	Main Project- Phase-II	ł		10	3	200	200	400	
		Total				20	12	350	350	700

**Table 2.23 (a):** 4<sup>th</sup> Year (8<sup>th</sup> Sem-Elective List) Curriculum 2018 & 2019 batch.

	Professional Elective-6	Professional Elective-7				
Course Code	Course	Course Code	Course			
19MEE811	Non-Conventional Manufacturing Technologies	19MEE-821	Surface NDE Methods			
19MEE812	Foundry Technology	19MEE822	CNC machining			
19MEE813	Agile Manufacturing	19MEE823	Industrial Robotics			
19MEE814	Conventional and Non- Conventional Energy Resources	19MEE-824	Optimization techniques			
19MEE815	Sustainable Energy Sources					

2.1.3. State the components of the curriculum (5)

The curriculum offered at the Department of Mechanical Engineering, is set in line with UGC/ AICTE/ VTU guidelines, comprising of the courses from Basic Sciences, Engineering Sciences, Humanities and Social Sciences, Core Mechanical Papers, Electives from various specializations, Projects, Project Based Learning and mandatory internships. Credit Split-up for various components offered for 2015-17 batches is shown in Table 2.24. and the credit split-up for various components offered for 2018-19 batches is shown in Table 2.25.The distribution of the course components for 2015-17 batches are shown in Figure 2.3 and distribution of the course components for 2015-17 batches are shown in Figure 2.4

 Table 2.24: Components of Curriculum (200 credit system)

Sl no.	Course Component	Curriculum Content (% of total number of credits of the program)	Total number of contact hours per week	Total number of Credits
1.	Basic Sciences	15	32	30
2.	Engineering Sciences	13	31	26
3.	Humanities and Social Sciences	05	12	10
4.	Program Core	43	71	86
5.	Program Electives	09	22	18
б.	Open Electives	06	12	12
7.	Project(s)	07	3	14
8.	Internships/Seminars	02	-	4
	Total no. Credits			200



Figure 2.3: Course Components for 2015, 2016 & 2017 batches

Sl no.	Course Component	Curriculum Content (% of total number of credits of the program)	Total number of contact hours per week	Total number of Credits
1.	Basic Sciences	12.57	30	22
2.	Engineering Sciences	12.57	28	22
3.	Humanities and Social Sciences	4.57	12	8
4.	Program Core	42.28	104	74
5.	Program/ Open Electives	15.42	27	27
б.	Project(s)	10.28	9	18
7.	Internships/Seminars	2.28	3	4
8.	Total no. Credits			175

**Table 2.25:** Components of Curriculum (175 credit system)



Figure 2.4: Course Components for 2018 & 2019 batches

2.1.4 State the process used to identify extent of compliance of the curriculum for attaining theProgram Outcomes and Program Specific Outcomes as mentioned in Annexure I(10)

The curriculum for Bachelor of Engineering in Mechanical Engineering maintains a balance among various categories of courses from Science, Mathematics, Engineering, Humanities and Management, Projects, and Internship components. The syllabus for each course has been designed to meet compliance of the curriculum for attaining the POs and PSOs defined for the program.

The Program Specific outcomes (PSOs) of Mechanical Engineering are

**PSO 1:**Specify, fabricate, test and operate various machines along with essential documentations.

**PSO 2:**Analyse, design, develop and implement the concepts of mechanical systems and processes towards product development.

The subjects are chosen based on the comparison with technical and professional bodies such as AICTE and IEI. A sample comparative table of selected subjects is shown in Table 2.26.

SI NO.	NHCE	AICTE	IEI
1.	Applied	Elementary	Engineering
	Mathematics-I	Mathematics for	Mathematics
		Engineers	
2.	Engineering	Chemistry I, II, III	Engineering Physics
	Chemistry		and Chemistry
3.	Introduction to	Computer Programming	
	Programming with C		
4.	Computer Aided	Engineering Graphics	Computer Aided
	Engineering Drawing		Engineering Design;
			Engineering Drawing
			and Graphics

Table 2.26:Sample com	parison of su	bjects with pro	fessional body	subjects
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5.	Basic Electronics	Basic Electronics Engineering	Electrical Science
б.	Essential English	Business Communication and Presentation Skills	
7.	Constitution of India and Professional Ethics	Law for Engineers	
8.	Applied Mathematics -II	Multivariate Analysis, Linear Algebra and Special Functions	Engineering Mathematics
9.	Engineering Physics	Applied Physics I, II, III	Engineering Physics and Chemistry
10.	Elements of Mechanical Engineering	Basic Engineering Mechanics	Mechanical Science
11.	Basic Electrical Engineering	Basic Electrical Engineering	Electrical Science
12.	Professional Communication	Business Communication and Presentation Skills	
13.	Applied Mathematics- 3	Differential Equations	Engineering Mathematics
14.	Life skills for engineers	Business Communication and Presentation Skills	
15.	Environmental Science and Awareness	Environmental Sciences	Society and Environment
16.	Computer aided machine drawing	Advanced Computer Graphics and Solid Modelling	Computer Aided Engineering Design
17.	Casting, Forging and Joining Technology	Primary Manufacturing, Welding Technology	Manufacturing Technology; Manufacturing

			Science
18.	Mechanics of Materials	Solid Mechanics & Fhuid Mechanics, Engineering Mechanics	Mechanics of Solids
19.	Material Science & Metallurgy	Materials Science	Materials science and Engineering
20.	Applied Mathematics- 4	Complex Analysis	Engineering Mathematics
21.	Economics for Engineers	Economics for Engineers	
22.	Basic Thermodynamics	Bassic Thermodynamics	Thermal Science and Engineering
23.	Machines for Manufacturing Technology	Machine Tools & Machining	Manufacturing Technology; Manufacturing Science
24.	Fluid Mechanics	Solid Mechanics & Fluid Mechanics	Mechanics of Fluids
25.	Machine Theory & Mechanism Design	Mechanisms and Machines	Design of mechanical systems; Analysis and synthesis of Mechanisms and Machines.
26.	Heat Power Cycles	Thermodynamics	Thermal Science and Engineering
27.	Rotor Dynamics	Turbo Machinery	Mechanics of Fluids; Turbo machinery.
28.	Design of Machine Elements-1	Design of Machine Elements	Design of Machine Elements
29.	Project Management & entrepreneurship	Project & Production Management	Engineering Management; Production Management

30.	Mechatronics and	Mechatronics	
	Microprocessors		
31.	Composite Materials	Engineering Materials	
32.	Refrigeration and Air	IC Engines &	Refrigeration and Air
	conditioning	Refrigeration	conditioning
33.	Smart Materials	Engineering Materials	
34.	Theory of Elasticity	Applied Elasticity and	
		Plasticity	
35.	Fundamentals of Heat	Heat Transfer	Thermal Science and
	Transfer		Engineering
36.	Finite Element	Finite Element Methods	
	Methods	in Engineering	
37.	Design of Machine	Design of Machine	Design of Machine
	Elements-2	Elements	Elements
38.	Fundamentals of	Tribology	
	Tribology		
39.	Computer Graphics	CAD & Computer	Computer Aided
		Graphics	Manufacturing
40.	Fundamentals of	Graphics	Manufacturing Tool and Die design;
40.	Fundamentals of Plastic Mould Design	Graphics	Manufacturing Tool and Die design; design of Machine
40.	Fundamentals of Plastic Mould Design and Die Design	Graphics	Manufacturing Tool and Die design; design of Machine tools
40.	Fundamentals of Plastic Mould Design and Die Design Emerging Automotive	Graphics Automobile Engineering	Manufacturing Tool and Die design; design of Machine tools Internal Combustion
40. 41.	Fundamentals of Plastic Mould Design and Die Design Emerging Automotive Technologies	Graphics Automobile Engineering	Manufacturing Tool and Die design; design of Machine tools Internal Combustion Engines
40. 41. 42.	Fundamentals of Plastic Mould Design and Die Design Emerging Automotive Technologies Advanced Robotics	Graphics Automobile Engineering Robotics: Mechanics	Manufacturing Tool and Die design; design of Machine tools Internal Combustion Engines Manufacturing
40. 41. 42.	Fundamentals of Plastic Mould Design and Die Design Emerging Automotive Technologies Advanced Robotics	Graphics Automobile Engineering Robotics: Mechanics and Control	Manufacturing Tool and Die design; design of Machine tools Internal Combustion Engines Manufacturing Automations
40. 41. 42. 43.	Fundamentals of Plastic Mould Design and Die Design Emerging Automotive Technologies Advanced Robotics Computational Fluid	Graphics Automobile Engineering Robotics: Mechanics and Control Computational Fluid	Manufacturing Tool and Die design; design of Machine tools Internal Combustion Engines Manufacturing Automations
40. 41. 42. 43.	Fundamentals of Plastic Mould Design and Die Design Emerging Automotive Technologies Advanced Robotics Computational Fluid Dynamics	Graphics Automobile Engineering Robotics: Mechanics and Control Computational Fluid Dynamics	Manufacturing Tool and Die design; design of Machine tools Internal Combustion Engines Manufacturing Automations
40. 41. 42. 43. 44.	Fundamentals of Plastic Mould Design and Die Design Emerging Automotive Technologies Advanced Robotics Computational Fluid Dynamics Mechanical Vibrations	Graphics Automobile Engineering Robotics: Mechanics and Control Computational Fluid Dynamics I	Manufacturing Tool and Die design; design of Machine tools Internal Combustion Engines Manufacturing Automations
40. 41. 42. 43. 44.	Fundamentals of Plastic Mould Design and Die Design Emerging Automotive Technologies Advanced Robotics Computational Fluid Dynamics Mechanical Vibrations	Graphics Automobile Engineering Robotics: Mechanics and Control Fluid Dynamics I fluid Dynamics I fluid Control I fluid	Manufacturing Tool and Die design; design of Machine tools Internal Combustion Engines Manufacturing Automations
40. 41. 42. 43. 44. 45.	Fundamentals of Plastic Mould Design and Die Design Emerging Automotive Technologies Advanced Robotics Computational Fluid Dynamics Mechanical Vibrations	Graphics Automobile Engineering Robotics: Mechanics and Control Computational Fluid Dynamics Fluid Dynamics Vibration and Noise Control	Manufacturing Tool and Die design; design of Machine tools Internal Combustion Engines Manufacturing Automations
40. 41. 42. 43. 44. 45. 46.	Fundamentals of Plastic Mould Design and Die Design Emerging Automotive Technologies Advanced Robotics Computational Fluid Dynamics Mechanical Vibrations Control Engineering Production and	Graphics Automobile Engineering Robotics: Mechanics and Control Computational Fluid Dynamics Vibration and Noise Control Engineering	Manufacturing Tool and Die design; design of Machine tools Internal Combustion Engines Manufacturing Automations
40. 41. 42. 43. 44. 45. 46.	Fundamentals of Plastic Mould Design and Die Design Emerging Automotive Technologies Advanced Robotics Advanced Robotics Computational Fluid Dynamics Mechanical Vibrations Control Engineering Production and Operational	Graphics Automobile Engineering Robotics: Mechanics and Control Computational Fluid Dynamics Vibration and Noise Control Control Engineering	Manufacturing Tool and Die design; design of Machine tools Internal Combustion Engines Manufacturing Automations
40. 41. 42. 43. 44. 45. 46.	Fundamentals of Plastic Mould Design and Die Design Emerging Automotive Technologies Advanced Robotics Advanced Robotics Computational Fluid Dynamics Mechanical Vibrations Control Engineering Production and Operational Management	Graphics Automobile Engineering Robotics: Mechanics and Control Computational Fluid Dynamics Vibration and Noise Control Control Engineering	Manufacturing Tool and Die design; design of Machine tools Internal Combustion Engines Manufacturing Automations

47.	Total Quality	Quality Assurance and	
	Management	Reliability	
48.	Rapid Prototyping		Manufacturing
			Technology
49.	Non-Conventional	Non-Traditional &	
	Manufacturing	Computer Aided	
	Technologies	Manufacturing	
50.	Foundry Technology		Foundry Technology
51.	Agile Manufacturing		Manufacturing
			Science
52.	Conventional and	Power Plant	Power Plant
	Non- Conventional	Engineering	Engineering; Non-
	Energy Resources		Conventional
			Energy Systems
53.	Surface NDE	Non-Destructive	
	Methods	Evaluation & Testing	
54.	Industrial Robotics	Robotics: Mechanics	Manufacturing
		and Control	Automations
55.	Optimization	Design and	Optimization:
	techniques	Optimization	Theory and
			Applications.

### Process used to identify extent of compliance of the curriculum

- Program curriculum and syllabus is approved by Board of Studies and the assessment of the curriculum and syllabus is done by internal and external members.
- All courses of the program are mapped with the POs and PSOs along with their level of correlation: 1 (low), 2 (medium) and 3 (high). (Refer Table 2.24).
- It is ensured that all POs/PSOs are adequately covered by the courses being taught and each course is mapped to highly correlation level with at least one PO. It also ensured that all POs/PSOs have high correlation with adequate number of courses.
- In the final curriculum, each of the POs/PSOs is mapped with the courses with high (3) correlation.
- Feedback from Students, Parents, Employers, Industry, and Alumni are taken for indirect assessment. From the direct and indirect assessment, POs and PSOs are calculated.

The courses that are highly correlated with each of the POs and PSOs are shown in Table 2.26 (a), and the courses of the program mapped with the POs PSOs with the level of correlation are shown in Table 2.27. The courses mentioned in Table 2.26 (a) and Table 2.27 are from the 200 credit system applicable from 2015. The courses mentioned in Table 2.12, in section 2.1.2 are from the 175 credit system applicable from 2018 onwards.

POs/ PSOs	Courses Mapped Significantly
PO1	15ME13/23, 15MEE14/24, MEE331/431, MEE341/441, MEE351/451, MEE361/461, MEE332/432, MEE342/442, MEE352/452, MEE362/462, MEE51, MEE52, MEE53, MEE54, MEE55, MEE561, MEE562, MEE61, MEE62, MEE63, MEE64, MEE654, MEE655, MEE57/67, MEE71, MEE72, MEE731, MEE744, MEE754, MEE755, NHOP07, NHOP08, NHOP11, MEE813, MEE84, MEE813, MEE83, MEE82
PO2	15ME13/23, MEE211, MEE331/431, MEE341/441, MEE351/451, MEE361/461, MEE332/432, MEE342/442, MEE352/452, MEE362/462, MEE51, MEE52, MEE53, MEE54, MEE55, MEE561, MEE562, MEE61, MEE62, MEE63, MEE64, MEE654, MEE655, MEE57/67, MEE71, MEE72, MEE731, MEE744, MEE754, MEE755NHOP07, NHOP08, NHOP11, MEE813, MEE84, MEE813, MEE83, MEE82
PO3	15ME13/23, 15MEE14/24, MEE331/431, MEE351/451, MEE361/461, MEE332/432, MEE342/442, MEE352/452, MEE362/462, MEE51, MEE52, MEE53, MEE55, MEE561, MEE562, MEE61, MEE62, MEE63, MEE64, MEE654, MEE655, MEE57/67, MEE71, MEE72, MEE731, MEE744, MEE754, NHOP08, NHOP11, MEE813, MEE84, MEE813, MEE83
PO4	15MEE14/24, MEE341/441, MEE351/451, MEE362/462, MEE51, MEE52, MEE53, MEE54, MEE55, MEE562, MEE61, MEE62, MEE63, MEE64, MEE654, MEE57/67, MEE71, MEE72, MEE731, MEE744, MEE754, MEE755, NHOP11, MEE813, MEE84, MEE813, MEE83
PO5	15ME13/23, 15MEE14/24, MEE331/431, MEE341/441, MEE342/442, MEE352/452, MEE362/462, MEE51, MEE53, MEE55, MEE61, MEE63, MEE64, MEE654, MEE655, MEE57/67, MEE71, MEE72, MEE744, MEE755, NHOP07, NHOP08, NHOP11, MEE813, MEE84, MEE813, MEE83, MEE82
PO6	15ME13/23, MEE351/451, MEE361/461, MEE352/452, MEE52, MEE55, MEE561, MEE61, MEE654, MEE57/67, MEE71, MEE72, MEE744, MEE754, MEE755, NHOP11, MEE84, MEE83, MEE82
PO7	15ME13/23, MEE52, MEE54, MEE55, MEE562, MEE61, MEE63, MEE654, MEE57/67, MEE71, MEE72, MEE813, MEE83
PO8	MEE654, MEE57/67, MEE83
PO9	MEE52, MEE53, MEE55, MEE561, MEE61, MEE654, MEE57/67, MEE71, MEE744, NHOP11, MEE813, MEE83
PO10	15ME13/23, 15MEE14/24, MEE331/431, MEE351/451, MEE361/461, MEE352/452, MEE54, MEE63, MEE654, MEE57/67, MEE72, MEE744, NHOP11, MEE84, MEE813, MEE83
PO11	MEE55, MEE654, MEE57/67, MEE71MEE731, MEE755, NHOP07, NHOP11, MEE813, MEE83, MEE82
PO12	15ME13/23, 15MEE14/24, MEE331/431, MEE351/451, MEE361/461, MEE332/432, MEE342/442, MEE352/452, MEE52, MEE561, MEE61, MEE62, MEE63, MEE64, MEE654, MEE57/67, MEE744, NHOP08, NHOP11, MEE84, MEE83, MEE82
PSO1	15ME13/23, 15MEE14/24, MEE3MEE5431/431, MEE341/441, MEE351/451, MEE361/461, MEE332/432, MEE342/442, MEE352/452, MEE51, MEE52, MEE55, MEE561, MEE562, MEE61, MEE62, MEE64, MEE655, MEE57/67, MEE744, MEE754, MEE755, NHOP07, NHOP08, MEE813, MEE813, MEE83, MEE82
PSO2	15ME13/23, 15MEE14/24, MEE331/431, MEE341/441, MEE351/451, MEE361/461, MEE332/432, MEE342/442, MEE352/452, MEE362/462, MEE51, MEE52, MEE53, MEE54, MEE55, MEE561, MEE562, MEE61, MEE62, MEE63, MEE64, MEE654, MEE655, MEE57/67, MEE71, MEE72, MEE731, MEE744, MEE754, MEE755, NHOP07, NHOP08, NHOP11, MEE813, MEE84, MEE813, MEE83, MEE82

Table 2.26(a): POs/PSOs Vs Courses Mapped with High Correlation

Course	POI	P02	P03	P04	POS	PO6	PO7	PO8	P09	PO10	PO 11	PO 12	PSO 1	PSO 2
15ME13/23	3	1	3	-	3	2	1	-	-	3	-	1	3	2
15MEE14/24	2	2	-	2	1	-	-	-	-	2	-	2	-	-
MEE331/431	3	3	2	-	2	-	-	-	-	1	-	1	3	2
MEE341/441	3	1	-	1	2	-	-	-	-	-	-	-	3	3
MEE351/451	1	3	3	1	-	1	-	-	-	1	-	1	2	3
MEE361/461	2	2	2	-	-	2	-	-	-	2	-	2	3	3
MEE332/432	3	3	2	-	-	-	-	-	-	-	-	1	2	2
MEE342/442	3	3	2	-	1	-	-	-	-	-	-	1	3	3
MEE352/452	2	2	3	-	1	3	-	-	-	3	-	3	2	3
MEE362/462	3	3	1	1	1	-	-	-	-	-	-	-	-	3
MELSI	- 2	3	2	2	2	-	-	-	-	-	-	-	3	3
MEE52	1	2	3	3	-	1	3	-	2	-	-	2	3	2
MELSS	2	2	2	1	1	-	-	-	1	-	-	-	-	3
MEE54	3	1	-	2	-	-	2	-	-	2	-	-	2	3
MEESS	2	2	- 2	4	2	2	4	-	2	-	2	-	2	2
MEE 562	3	3	2	2	-	1	-	-	2	-	-	2	3	3
MEE61	1	2	3	2	2	1	1	-	-	-	-	-	-	1
MEE62	2	3	2	1	-			-	-	-		-		3
MEE63	3	1	3	2	1	-	1	-	-	1	-	1	-	3
MEE64	3	3	1	1	3	-	-	-	-	-		2	3	3
MEE654	3	3	3	3	2	2	2	2	2	2	-	2	-	-
MEE655	3	3	3	-	3	1	1	-	-	-	-	-	2	3
MEE57/67	1	3	3	1	1	1	1	1	3	3	2	3	1	1
MEE71	3	3	3	3	2	2	1	-	1	-	1	-	-	2
MEE72	1	1	1	1	2	1	1	-	-	1	-	-	-	2
MEE731	3	3	3	3	-	-	-	-	-	-	1	-	-	3
MEE744	1	1	1	2	1	3	-	-	3	3	-	3	1	2
MEE754	1	3	1	1	-	1	-	-	-	-	-	-	3	1
MEE755	2	2	-	1	2	1	-	-	-	-	2	-	3	2
NHOP07	3	2	2	-	3	-	-	-	-	-	3	-	1	3
NHOP08	3	1	1	-	1	-	-	-	-	-	-	-	3	3
NHOP11	3	1	1	1	3	1	-	-	1	1	1	2	-	3
MEE84	3	2	1	2	1	2	-	-	-	1	-	1	-	2
MEE813	1	3	1	1	3	-	1	-	-	1	-	-	3	3
MEE83	2	2	2	1	2	-	2	2	2	2	2	2	3	3
MEE82	3	2	-	-	2	3	-	-	-	-	2	3	- 3	3

 Table 2.27: Mapping between courses and POs/PSOs

### 2.2 Teaching Learning Processes (70)

#### 2.2.1 Describe the process followed to improve Teaching & Learning (15).

To strengthen the teaching-learning process, following initiatives have been taken:

- A. Adherence to Academic Calendar
- B. Pedagogical Initiatives Content Delivery (method of instruction)
  - a. Digital library
  - b. Contineo
  - c. Course Handouts
  - d. Project Based Learning
  - e. Continuous Internal Evaluation (CIE) Test
- C. Methodologies to support weak students and encourage bright Students
  - a. Mentoring System
  - b. Identification of Week Students / Fast Learners
  - c. Action Taken
- **D.** Quality of Classroom Teaching
- E. Conduct of Experiments
- F. Continuous Assessment in the Laboratory
- G. Student Feedback and action taken

#### A. Adherence to Academic calendar:

Academic Calendar: Department prepares its own Calendar of events in alignment with to Institute academic calendar prior to the commencement of the semester, a sample of Department Calendar of Eventsin adherence to the Institute academic calendar is shown Figure 2.5.

	Commencement: 16/01/2020					16/4	01/2020	Last Working Day: 05/05/2020						
TONTH	Week No.	MON	TUE	WED	THU	FRI	SAT	SUN	Events/Holidays	Internal Tests/Submissions/Activities	Assign	iments/Quizzes	/Mini Project:	s, Etc
IAN	1	13	14	45	16	17	18	19	15th - Sankranthi	16th - Commencement of B.E.U, IV. VI & VIII.Sem	Assignment-1	Assignment-2	Quiz-1	Quiz-2
	2	1.3	21	22	2.5	24	25	26		25th Industrial Visit		-		-
		13	40	69	30	31				6768 Industrias visit	MANTERS.		MENA (CRITE	
		-		-	10	-		-			19485421.		MERGER MACHA	-
000		-5	4	a	0	1	9	8			422.423		SINGPAYDAGON	
FEB	5	10	11	12	13	14	15	16		Contraction to the contraction of the	RID/CAMD		PM/MSM	-
	6		18	19	20	21	42	23	21st - Maha Shivaratri, 22nd-Holiday*	17th - 19th - Einternal Test				
	2	24	25	26	27	28	29			Mini Project Review Phase-1	MEM/CETT			
	7							1			MMM/MOM		BTD/CAMD/M ATHS	
	8	2	3	4	5	6	7	8			FM/MSM		19455421	MFM/CFJ1
MAD	9	1/15/1	10	11	12	13	14	15	9th - Holi	MSM- Guest Lecture		MATHS	Tearted	MMM/M0
PLAN	10	16	17	18	19	20	21	22		CFJT- Guest Locture		19HS5421, 422,423		FM/MSM
	11	23	24	25	76	29	28	29	25th - Ugadi	26th - 28th - Il Internal Test				
	12	30	31	100	19.63		12020	8.1						
	12			1	2	3	.4	5		Mini Project Review Phase-2		BTD/CAMD		UTD/CAM
	13	ń.,	7	8	9	18	1486	12	10th - Good Friday, 11th- Holiday*			MFM/CFJT		MATHS
APR	14	13	24	15	16	17	18	19	14th - Ambedkar Jayanthi	MOM- Guest Lecture		ммм/мом		19855421 422,423
	15	20	cizes	222	23	24	.25	26		27d. 20d. III formeral Text		ENA/LICKA		-
_	16				30	CAR.	7	3		2700 - 2900 - 101 (Internal 1930		Programme		-
	17	4	5	6	Z	8	9	10	1at - May Day	Sth - Last Working Day of B.E.H,				
MAX	18	101110	12	13	14	14	16	17	25th - Rarazan					-
	20	Uner.	26	20	-78	29	30	24						-
JUN	21	1	Z	3	4	5	6	7		3rd - Supplementary Semester Commencement				
OTEi	1. All th 2. No Se 3. Intern 4. The I 5. Holid	e Exam iparate nal Tes ndustri avs*- R	inatio Circu ts / Qi al Visi efer li	n dates lars wil liz / As its and ist of He	i are b I be is signm Guest oligiave	entati sued ents , Loctu s for y	ve regari 7 Wor res st iear 2	ding 7 ksbop uti be 020.	Ictivities mentioned above s / Seminars / Conference / Guest arranged on Weekends	NOTE Commencement / Last Working Holidays Internal Tests Somester End Exam (Practical E Commencement of Supolement	Dates xams/Mini Proj irv Semester	ects / Seminars	/ Theory]	

NEW HORIZON COLLEGE OF ENGINEERING DEPARTMENT OF MECHANICAL ENGINEERING CALENDAR OF EVENTS FOR EVEN SEM -IV SEMESTER (B.E) 2019-2020

Figure 2.5: Sample Academic Calendar.

### **B.** Pedagogical Initiatives:

Pedagogies play an important role in delivering of content and it varies with the audience. Course allocation is made based on the choice/ expertise of the faculty members one month before the commencement of semester. Once the courses are allocated, the faculty members prepare a detailed lesson plan, assignments questions, quiz questions etc. for a specific course. Course handout and materials are prepared keeping in mind the lesson plan and course outcomes. Course handout and any other related material uploaded on digital library. Faculty members use various pedagogical methods for effective teaching learning process. A well-defined process for course allotment and load distribution is adopted at the department level. Three to four choices are solicited from the faculty members. Various pedagogical initiatives to achieve the outcomes of teaching are:

- Citing real world examples for application-based courses.
- Power Point Presentation PPTs
- Animated videos
- Access to study material in ERP

- Digital library enables real time learning, monitoring, comprehension and online assessment.
- Contineo for Quiz, Assignment, Notes etc.
- Contineo for attendance, feedback,etc.
- Case studies
- Project based Learning
- Research based learning
- Workshops
- Expert talk
- Group discussions/tasks
- Use of Open Source software's.
- **ICT based learning:** Use of LCD projectors and provision for interactive teaching learning.
- Collaborative/ Cooperative Teaching/ Learning: Students share knowledge or discuss topics in small group or in peer mode.
- NPTEL & SWAYAM: The faculty members are using E-sources such as NPTEL and SWAYAM courses for effective teaching. The same also provided to the students in order to develop self-learning and life-long learning skills.
- Assignments Based Problem Solving: Assignments are given to students on problems and they solved by themselves. Assignments are based on COs which helps to achieve Program Outcomes.
- Laboratory/ Video Based Demonstration: Demonstration of system or parts of a real-world system using modern tools.
- **Group Discussion/ Presentation:** Students learn through group discussion or asked to deliver short presentation on a topic.

The pedagogical initiatives are undertaken by the faculty members. The sample list of the lab videos developed by the faculty is shown in Table 2.28(a), and sample instructional materials developed by faculty is shown in Table 2.28(b).

SL No	Name of the Faculty	Instructional Materials	Weblink
1	Mr. Ravi Kumar M	19MEL462 Fluid Mechanics	http://newhorizonindia.edu/nhengi
		Manuals	experiment/
2	Dr. Srinath M.K	19MEL351	http://newhorizonindia.edu/nhengi
		Mechanics of Materials <u>Manuals</u>	neering/mom-lab-experiment/
3	Mr. Puneeth H.V	19MEL452 Mechanical	http://newhorizonindia.edu/nhengi
		Measurements &	neering/metrology-lab-
		Manuale	experiment
4	Dr. Srinath M.K	19MEL442	http://newhorizonindia.edu/nhengi
-		Machines for	neering/machine-shop-lab/
		Manufacturing	
		Technology Lab	
-	10 1 1 11	Manuals	
5	Mr. Raghu Tilak	19MEL341	http://newhorizonindia.edu/nhengi
	Reddy	Casting and Foundry	neering/foundry-lab-videos/
		lechnology	
6	Mr. Davian V	MEES	http://www.horizonindia.adu/shonzi
0	IVII. Favan K	Finite Element Methods	nup.//newnorizonindia.edu/intengi
		I ab	neering/cama-iao-experiment/
		Manuals	
7	Mr. Pavan K	NHOP15	http://newhorizonindia.edu/nhengi
		PLM	neering/plm-lab-experiment/
		Manuals	

# Table 2.28(a):Sample Lab videos developed by faculty

# Table 2.28(b):Sample Instructional materials developed by faculty

SL No	Name of the Faculty	Instructional Materials	Weblink
1	Dr. Manjunatha	E-Notes, PPT's, Videos	http://202.62.95.70:8080/jspui/handle/123456789/352
2	Dr. Ganesh Prasad M S	E-Notes, PPT's, Videos	http://202.62.95.70:8080/jspui/handle/123456789/352
3	Dr. Gopala Krishnan Kanapathy	E-Notes, PPT's, Videos	http://202.62.95.70:8080/jspui/handle/123456789/352
4	Dr. Viswanath Bellie	E-Notes, PPT's, Videos	http://202.62.95.70:8080/jspui/handle/123456789/352
5	Dr. Priyabrata Adhikari	E-Notes, PPT's, Videos	http://202.62.95.70:8080/jspui/handle/123456789/352
6	Dr.Vasantha Kumar	E-Notes, PPT's, Videos	http://202.62.95.70:8080/jspui/handle/123456789/352
7	Dr. Amit Kumar Goudar	E-Notes, PPT's, Videos	http://202.62.95.70:8080/jspui/handle/123456789/352
8	Dr. Srinath M K	E-Notes, PPT's, Videos	http://202.62.95.70:8080/jspui/handle/123456789/352
9	Dr. Nagendra J	E-Notes, PPT's, Videos	http://202.62.95.70:8080/jspui/handle/123456789/352
10	Dr. Manjunatha G	E-Notes, PPT's, Videos	http://202.62.95.70:8080/jspui/handle/123456789/352

11	Dr. Ashok Kumar	E-Notes, PPT's, Videos	http://202.62.95.70:8080/jspui/handle/123456789/352
12	Dr. Sujin Jose	E-Notes, PPT's, Videos	http://202.62.95.70:8080/jspui/handle/123456789/352
13	Dr. Gopal K	E-Notes, PPT's, Videos	http://202.62.95.70:8080/jspui/handle/123456789/352
14	Dr. Venugopal S	E-Notes, PPT's, Videos	http://202.62.95.70:8080/jspui/handle/123456789/352
15	Dr. Selvam M	E-Notes, PPT's, Videos	http://202.62.95.70:8080/jspui/handle/123456789/352
16	Dr.Hemanth Raju	E-Notes, PPT's, Videos	http://202.62.95.70:8080/jspui/handle/123456789/352
17	Raghu Tilak Reddy Maramreddy	E-Notes, PPT's, Videos	http://202.62.95.70:8080/jspui/handle/123456789/352
18	Manjesh B C	E-Notes, PPT's, Videos	http://202.62.95.70:8080/jspui/handle/123456789/352
19	Shivaprakash S	E-Notes, PPT's, Videos	http://202.62.95.70:8080/jspui/handle/123456789/352
20	Ravikumar M.	E-Notes, PPT's, Videos	http://202.62.95.70:8080/jspui/handle/123456789/352
21	Hanumanth Yaragudri	E-Notes, PPT's, Videos	http://202.62.95.70:8080/jspui/handle/123456789/352
22	Nagabhushana Narasappa	E-Notes, PPT's, Videos	http://202.62.95.70:8080/jspui/handle/123456789/352
23	Sudarshan T A	E-Notes, PPT's, Videos	http://202.62.95.70:8080/jspui/handle/123456789/352
24	Veeresha G	E-Notes, PPT's, Videos	http://202.62.95.70:8080/jspui/handle/123456789/352
25	Chetan Kumar D S	E-Notes, PPT's, Videos	http://202.62.95.70:8080/jspui/handle/123456789/352
26	Santhosh A N	E-Notes, PPT's, Videos	http://202.62.95.70:8080/jspui/handle/123456789/352
27	Bopanna . K. D	E-Notes, PPT's, Videos	http://202.62.95.70:8080/jspui/handle/123456789/352
28	Puneeth H V	E-Notes, PPT's, Videos	http://202.62.95.70:8080/jspui/handle/123456789/352
29	Rajesh A	E-Notes, PPT's, Videos	http://202.62.95.70:8080/jspui/handle/123456789/352
30	Sujeeth Swami	E-Notes, PPT's, Videos	http://202.62.95.70:8080/jspui/handle/123456789/352
31	Ronald Reagon R	E-Notes, PPT's, Videos	http://202.62.95.70:8080/jspui/handle/123456789/352
32	Madhusudan K	E-Notes, PPT's, Videos	http://202.62.95.70:8080/jspui/handle/123456789/352
33	Kemparaju C R	E-Notes, PPT's, Videos	http://202.62.95.70:8080/jspui/handle/123456789/352
34	Pavan Prabhakar Kadole	E-Notes, PPT's, Videos	http://202.62.95.70:8080/jspui/handle/123456789/352
35	Karthik S N	E-Notes, PPT's, Videos	http://202.62.95.70:8080/jspui/handle/123456789/352
36	Megha Shukla	E-Notes, PPT's, Videos	http://202.62.95.70:8080/jspui/handle/123456789/352
37	Kamalasish Deb	E-Notes, PPT's,	http://202.62.95.70:8080/jspui/handle/123456789/352

		Videos	
38	Vinod Kumar G S	E-Notes, PPT's, Videos	http://202.62.95.70:8080/jspui/handle/123456789/352
39	Vinayak Prakash Balehittal	E-Notes, PPT's, Videos	http://202.62.95.70:8080/jspui/handle/123456789/352
40	Deepthi K.R.	E-Notes, PPT's, Videos	http://202.62.95.70:8080/jspui/handle/123456789/352
41	Lakshminarasimha N	E-Notes, PPT's, Videos	http://202.62.95.70:8080/jspui/handle/123456789/352
42	Nithin	E-Notes, PPT's, Videos	http://202.62.95.70:8080/jspui/handle/123456789/352
43	Dr. Aditi Raj	E-Notes, PPT's, Videos	http://202.62.95.70:8080/jspui/handle/123456789/352
44	Naresh K. S	E-Notes, PPT's, Videos	http://202.62.95.70:8080/jspui/handle/123456789/352
45	Vinay D R	E-Notes, PPT's, Videos	http://202.62.95.70:8080/jspui/handle/123456789/352

The pedagogical initiatives are:

# a. Content Delivery:

The classes are handled using the appropriate tools, smart boards are also made use of by the faculties. A sample of the classroom with smart board is shown in Figure 2.6.



Figure 2.6: Sample image of classroom with smart board

## **b. Digital library:**

A sample screen shot of the Digital library link is provided in Figure 2.7 (a), (b), (c) & (d).



Figure 2.7(a): A sample screen shot of the Digital Library link

A sample screen shot of the online resources is shown in Figure and lab videos is shown in Figure 2.7 (b).



Figure 2.7 (b): Sample screen shot of the Lecture Videos in the website

newhorizonindia.edu/nher	ngineering/resources/	··· 🛡 🏠	<u>۱۱۱</u>
COURSE MATERIALS			
DSpace >			
LAB EXPERIMENT VIDEOS			
BSH	Mechanical Engineering	Computer Science Engineering	
Physics Lab Experiments >	Fluid Mechanics - Sem 4 >	C PROGRAMMING- 19CSL28 >	
Chemistry Lab Experiments >	MOM Lab - Sem 4 >	OOPS WITH JAVA LAB-19CSL46 >	
en sald a la	Metrology - Sem 4 >	ARM LAB LINK- 19CSL47 >	
Automobile Engineering	Machine Shop Lab - Sem 4 🗲	CORE JAVA LINK-CSE61 >	
Lab Experiments >	Foundry Lab - Sem 4 >	CN LAB-CSE62 >	
Civil Engineering	CAMA Lab - Sem 6 >	HPI LAB-NHOPOI >	
Lab Experiments >	PLM Lab - Sem 6 >	HP2 LAB-NHOP04 >	
	Heat Transfer Lab – Sem 6 🗲	BLOCKCHAIN-NHOP14 >	
Electronics & Communication	Electrical & Electronics Engineering		

Figure 2.7 (c): Sample screen shot of link to the lab videosin the website.



Figure 2.7 (d):Sample screen shot of lab experiment videos

### c. Contineo:

A sample screen shot of the CONTINEO software used is shown in the Figure 2.8.

C 🛈	🛈 🙆 http	s://202.62.77.41/sims/ind	ex.php?option=com_bvi	bsims&co	ontroller=	attendance&task=t	eachers	classviev	/&semId=9	48csecId		6	2	hi	
	🚸 NEW DORIZO1	Srinath M. K	Home Notice- User Manual	-Board I Logout	Proctors	ship Change Pass	sword	Search	student	All Field	Repor	t			
	contineo														
	Attendance	Summary													
	Attendance Filt	er													
	From :	16-01-2020 To	: 05-05-2020	Ab	iove this A	ttendance Percentag	e - 0%	5	earch	Downic Downic	ad Rep ad Exo	iort el Repoi	rt		
				Bel	low this A	ttendance Percentage	e - 100%			Cumula	tive Re	port			
	Machanical En	aincorina		IODE	MEES		mostor	6.0		From		То			
	Mechanical En	gineernig	FUNITE ELEMENTS METH	1005	MEE02	<u> </u>	emester	0-0	1	5 Jan 2020		05 May :	2020		
	SORT BY :	RollNo 🖱 Name 🖱 Usn	0			Note : I	IC - Not	Consider	ed: P - Pr	esent: /	A - Abse	nt: L-	Leave:		
	SORT BY :	RollNo 🔿 Name 🔿 Usn	۲			Note : f	IC - Not	Consider	ed; P - Pr	esent; /	A - Abse	nt; L-	Leave;		
	SORT BY : SL No.	RollNo 🔘 Name 🔘 Usn Student Name	Roll USN No.	Total	Present	Note : Mote : Mo	NC - Not	Consider	ed; P - Pr Jan Ja 22 2	esent; / Jan 3 <b>24</b>	A - Abse Jan 30	nt; L- Jan 31	Leave;		
	SORT BY : SL No.	RollNo O Name O Usn Student Name PH ARVIND SHARMA	Roll         USN No.           No.         11NH14ME720           Edit         Edit	Total 44	Present 39	Note : 1 Attendance Individual Overall 89% 89%	IC - Not Jan 16 P	Consider Jan 21 A	ed; P-Pr Jan Ja 22 23 P P	esent; / 1 Jan 3 24 P	A - Abse Jan 30 P	nt; L- Jan <b>31</b> P	Leave; Feb 4		
	SORT BY : SL No. 1 2	RollNo Name Usn Student Name PH ARVIND SHARMA AATISH BASAVARAJ MUNDASAD	Roll         USN No.           INH14ME720         Edit           1NH17ME700         Edit	Total 44 44	Present 39 42	Note : 1 Attendance Individual Overall 89% 89% Individual Overall 95% 96%	NC - Not Jan 16 P A	Consider Jan 21 A P	ed; P-Pr Jan Ja 22 2: P P P	esent; / 1 Jan 3 24 P P	A - Abse Jan 30 P	nt; L- Jan 31 P P	Leave; Feb 4 P		
	SORT BY : SL No. 1 2 3 2	RollNo Name Usn Student Name PH ARVIND SHARMA AATISH BASAVARAJ MUNDASAD ABHJITH B	Roll         USN No.           USN No.         Edit           INH13ME7200         Edit           Edit         Edit	Total 44 44 44	Present 39 42 39	Note : 1 Attendance Individual Overall 89% 89% Individual Overall 95% 96% Individual Overall 89% 89%	IC - Not Jan 16 P A A	Dan 21 A P	ed; P-Pr 2an Ja 22 23 P P P P P P	esent; A 3 24 P P P	A - Abse Jan 30 P P	nt; L- Jan 31 P P	Leave; Feb 4 P P		
	SORT BY : 5L. No. 1 2 3 4	RollNo Name Usn Student Name PH ARVIND SHARMA AATISH BASAVARAJ MUNDASAD ABHIJTH B ABHIJSHEK NAYAKA M	Roll         USN No.           No.         USN No.           Edit         Edit           INH17ME700         Edit           Edit         Edit	Total 44 44 44 44	Present 39 42 39 43	Note : 1 Attendance Individual Overall 89% 09% Individual Overall 95% 89% Individual Overall 96% 99%	AC - Not	Jan 21 A P P	ed; P-Pr 22 2: P P P P P P P P P P	esent; A Jan 3 24 P P P P	A - Abse Jan 30 P P P	nt; L- Jan 31 P P P	P P P		
	SORT BY : SL. No. 1 2 2 5 3 2 4 2 5 2	RollNo     Name     Usn       Student Name     Market     Market       PH ARVIND SHARMA     AATISH BASAVARAJ       MUNDASAD     ABHUITH B       ABHUITH B     ABHUITH B       ABHURTH SUMARAM     ADITYA DUBRY	Roll         USN No.           No.         USN No.           INH14ME720         Edit           INH17ME701         Edit           Edit         Edit	Total 44 44 44 44 44 44	Present 39 42 39 43 43	Note : 1 Attendance Individual Overall 95% 96% Individual Overall 98% 98% Individual Overall 98% 98%	AC - Not an an 16 P A A P P	Jan 21 A P P P P	ed; P-Pr 201 22 P P P P P P P P P P P P	esent; / Jan 24 P P P P P	A - Abse Jan 30 P P P P	nt; L- Jan 31 P P P P	P P P		

Figure 2.8: Screen shot of the CONTINEO software used

### d. Course Handouts:

Classes are handled with due diligence. The classes are handled with well prepared power point presentations. The students are also provided with handwritten notes which are distributed through either hard copy of soft copy. A sample copy of the power point presentation used by the faculties is shown in Figure 2.9. A sample of the hand written notes is shown in Figure 2.10.

Measurement of force torque	Measuring devices
and pressure	Measurands Measuring Instruments
	Force, load Analytical balance
	Platform balance
	Proving ring
	Torque Prony brake
Puneeth H V	Hydraulic dynamometer
Assistant Professor	Pressure Bridgeman gauge
Department of Mechanical Engineering	Michael gauge
New Horizon College of Engineering	Pirani gauge
PPT slide 1	PPT slide 2

Figure 2.9: A sample of the PPT used in the classrooms

0	
-Killign of Markine Element - 1	Normal Creak ? The Smeal During in an
	Rement when the applied loads are Porallel to
Chapter 1 - Trinaduction	x-y-j a.u.
and the second sec	Share and the state
	Principle Sheet & The le Mailar to the plane
Stanile	mus aluder the abanda of Shear Selan
Strutter Comprission	Car Durk
> Shian y	cheride fucuration
	The dates Dunday in Aur of
Sherres To Plane Street the	(1) Continued of the Durbles
- Mohuman Street gt	(1) Auchult of a Broken I
+ Patricipe Brass	(20) Solution & Markouters minketale & Secure
	(iv) Belaratth of Pollininary design
plane street :- plane shere is induced in an	(v) newselfon of Alleton (
element when the loads are aling along the	(vi) Making Weating that drawing .
perpeteter planer (X- plane & & plane) & Steel	Q Q
Endued on a plane which le I to x-y and	
Il kunion al plan Irell.	- Disign Counderations
10 . 10	and the second s
	The delbusing parameters are to be
	Considered the effective & Saje duign
	(1) 0 · · · · · · · · · · · · · · · · · ·
	U) Strugth
	and same
1	PA CT Washing
(a) Plane Street, (b) Not a plane Street	(1) Sugar duite
	Con Con
to a particular	and shares
	Curl Maria
An in the second	way washing
	With Condition
4	(x) therman properties & manufacturing process.

Handwritten notes 1

Handwritten notes 2

Figure 2.10: A sample of the handwritten notes distributed to the students

### e. Project Based Learning

Project Based Learning (PBL) is significantly more effective than traditional instruction to train competent and skilled practitioners and it promotes long-term retention of knowledge and skills. It is an innovative practice that is used to implement Outcome Based Education.

Students are encouraged to carry out multidisciplinary projects to apply their engineering knowledge from third semester onwards. 2-4 students in a group are allowed to choose their guide and in consultation with guide identify the project. The faculty mentor and the students collectively identify the Projects based on societal need and issues. At the end of the semester, projects are evaluated by the external faculty members. PBL steps and a sample list of projects are mentioned below in Figure 2.11 and Table 2.28 (c). The marks distribution of the project based learning is shown in Figure 2.12.



Figure 2.11: Steps involved in Project Based Learning

Review	Agenda	Description	Assessment	Mapped PO	PSOs	Marks
First review	Project scopes and Proposal	Identification of Problem Domain and detailed Analysis	Rubric Based	PO2	PSO1 PSO2	10
		Study of the Existing systems and feasibility of PBL proposal		PO4		10
Second review	Technical achievement	Review based comparison of existing system.	Rubric Based	PO3 PO12	PSO1 PSO2	15
		Identify and acquire information needed for design		PO5		15
Final review	Methodology and expected	Originality of the project Idea		PO3		10
	outcome or the proposed	the proposed process	PO5 PSO 2	10		
	work	Outcomes and deliverables.		PO 12		10
	PBL Report	Quality of PBL Report	Pubric Pared	PO11		10
	Evaluation	Description of concepts and Knowledge of contemporary issues	Ruone Basea	PO12		10
	Total					100

Table 2.28 (c): Rubrics for project Based Learning

### Individual Assessment:

- The student answering all the questions during the presentation time with satisfactory justification would be rewarded with maximum marks.
- Marks for the individual students are provided on their communication and presentation skills with three grades: Excellent, Good, and average.



Figure 2.12: Marks distribution for Project Based Learning

### f. Continuous Internal Evaluation (CIE) Test:

Continuous assessment is conducted for theory as well as laboratory courses. In theory courses, questions are asked based on the Course Outcomes. Whereas, in lab courses, continuous assessment is conducted on the basis of predefined rubrics.

**Theory Courses Evaluation:** Assignments, assessment tutorials, continuous Internal Evaluation, Semester end examinations are conducted and evaluated. The Distribution of marks for theory courses is as follows in Table 2.29.

Table 2.29: The distribution of the marks for the theory of	course
---	--------

Sl no	Assessment	Marks	Weightage	Total
1.	CIE Test l	25	25	50
2.	CIE Test 2	25		
3.	CIE Test 3	25		
4.	Assignment l	7.5	15	
5.	Assignment 2	7.5		
6.	Quizl	5	10	
7.	Quiz 2	5		

#### C. Methodologies to support weak students and encourage bright students:

The Methodologies to support the weak and bright students are as follows:

- a. Mentoring System
- b. Identification of Week Students / Fast Learners
- c. Action Taken

An appropriate mentoring system is maintained within the department. Each class is segregated into three batches and each batch is allocated to a faculty mentee. The faculty mentees, mentors the students on a regular basis, throughout the semester. The mentoring conducted by each faculty is overseen by the class teachers. The list of mentors for the academic year 2019-2020 is shown in Table 2.29 (a). The flow chart for the mentoring system is shown in the Figure 2.12 (a).

**Table 2.29 (a):** Sample list of Mentors with class teachers for the Academic year2019-2020.

Sl. No	Sem	Batches	Name of faculty	Class teacher
1	4A	A1	Dr. Manjunatha G	
2		A2	Prof. Ravikumar M	Dr. Manjunatha G
3		A3	Dr. Gopal K	
4	4B	B1	Prof. Rajesh A	
5		B2	Dr. Nagendra J	Prof. Rajesh A
6		B3	Prof. Ashok	
7	4C	C1	Prof. Sudharshan T A	
8		C2	Prof. Nagabhushana N	Prof. Sudharshan T A
9		C3	Prof. Hanamanth Y	
10	6A	A1	Prof. Ronald Reagon R	
11		A2	Prof. Megha Shukla	Prof. Ronald Reagon R
12		A3	Prof. Lakshminarasimha	
13	6B	B1	Prof. Santhosh A N	
14		B2	Prof. Veeresha G	Prof. Santhosh A N
15		B3	Prof. Kamalashish Deb	
16	6C	C1	Prof. Vinod Kumar G S	
17		C2	Dr. Srinath M K	Prof. Vinod Kumar G S
18		C3	Prof. Vinay D R	
19	8A	A1	Prof. Naresh K S	
20		A2	Prof. Veeresha G	Prof. Naresh K S
21		A3	Prof. Naresh K S	
22	8B	B1	Prof. Kemparaju C R	
23		B2	Prof. Megha Shukla	Prof. Kemparaju C R
24		B3	Prof. Pavan	
25	8C	C1	Prof. Bopanna K D	
26		C2	Prof. Shivaprakash S	Prof. Bopanna K D
27		C3	Prof. Chetan Kumar D S	


Figure 2.12 (a): Flow shown the Mechanical engineering department mentoring system

Faculty members identify the list of slow and fast learners of their respective courses. The underperforming students are advised by the faculties and class teachers. Further counselling is undertaken by the Institute counsellors by encouraging the students to perform well in the CIEs and the SEE. The details of the counselling process is provided in Criteria 9, sub-criteria 9.1. The faculties also maintain Corrective Action & Preventive Action (CAPA) details for the underperforming students. The bright students are encouraged by special recognition by the respective subject teachers and class teachers. The class toppers are congratulated by the Head of the Department. The department toppers are facilitated by the Principal during the Annual College National Level Fest.

Broadly the identification of the underperforming students and bright students are based on student's assessment through Quizzes conducted after completion of 50% of each unit. Students are also accessed through lectures and lab classes, assignments, CIE-I, CIE-II CIE-III results. Student identification of slow learners, fast learners and extra care taken for them are presented below Table 2.30.

Category of learners	Method of categorization	Extra care taken for students
Slow learners	Current CGPA <6	<ul> <li>Identify the courses in which student is week</li> <li>Additional time is provided by the faculty member for better understanding</li> <li>Extra counselling to motivate students and guide students for better preparation</li> <li>More test and assignment are given</li> <li>Mentors are facilitated to understand personal and professional difficulties of students.</li> </ul>
Fast learners	Current CGPA>7.5	<ul> <li>Supplementary assignment is provided to develop skills on complex problems solving</li> <li>Fast learners are given practical applications scenario to implement in the laboratory</li> <li>Extra classes for advance topics</li> <li>Special guidance to publish papers and carried out innovative projects</li> </ul>

#### Table 2.30: Category of Slow and Fast Learners

Actions Taken in assisting the Weak and Bright Students are shown in the Table 2.31. Impact analysis of Weak & Bright students based on the action taken is shown in Table 2.32.

Table 2.31: Actions taken in assisting Slow and fast learners

	Criteria for Identification	Action taken
Leamers	Low marks in CIE	<ul> <li>Peer coaching by fellow and senior students.</li> <li>Counselling by the subject faculty, class teachers, mentors and HoD.</li> <li>Intimation of student performance to parents</li> <li>Remedial measures such as additional coaching, retest are taken.</li> </ul>
Slow	Failure in SEE	<ul> <li>Reason for SEE failure is scrutinized.</li> <li>Counselling is provided to the student.</li> <li>Special classes are conducted for students in need.</li> <li>Important and significantly typical questions are discussed.</li> </ul>
leamers	Class & Subject Toppers	<ul> <li>Motivate the students to get Gold medals and cash prizes given on Annual Day.</li> <li>Motivate the students to get cash prizes and mementos during the departmental programs.</li> <li>Encourage them in R&amp;D activities.</li> <li>Motivating them to take part in national level competitions for projects.</li> </ul>
Fast	Students with FC and FCD	<ul> <li>Motivate the students to continue the hard work applied to the achievements in excellence and encourage them to get national level exposure.</li> <li>Motivating them to attend conferences, workshop, and other co-curricular activities at NITs, IITs and IISc.</li> </ul>

	Impact on the students
Slow Learners	<ul> <li>Improvement in SEE.</li> <li>Develops positive attitude among students.</li> <li>Improvement in analytical and communication skills.</li> <li>Improvement in programming skills.</li> </ul>
Fast Learners	<ul> <li>Improvement in CGPA.</li> <li>Improvement in communication and intrapersonal skills</li> <li>Improvement in analytical and experimental skills.</li> <li>Improvement in college level event participation.</li> <li>Improvement in placements and higher education.</li> <li>Quality projects and paper presentations in conferences.</li> </ul>

#### Table 2.32: Impact analysis of weak and bright students

#### (a) Outcome of action provided for slow learners:

Based on the extra care/ initiatives taken for slow learner students the academic performance is improved. A sample of slow learner students has been presented in the figure below. Based on the action taken, not only the academic performance is improved in the SEE but also, they are recruited through campus placement. A sample of the CIE Corrective Action and Preventive Action (CAPA) report and CIE result analysis is shown in Figure 2.13 and Figure 2.14.



Figure 2.13: Sample of CIE-CAPA report

			NEW DEP	HORIZON ARTMENT	N COLLEGE OF MECHAN	OF ENGIN	EERING EERING			
				CII	E RESULT AN	ALYSIS				
Department	Me	chanical Eng	ineering		Semester			5A / 5B / 5C	/	
Course	RD / RA	RD / RAC			Course Code MEE Acad		Academic Year	2019-2	020	
Total No. of Students		34 (6+	21+7)	,	lame of the Faculty	Dri	P Adhikary		Signat	ure
CIE	Date			No. c	of Students	1		Pass %	Faculty	HOD
CIE	Date	Attended	Absent	0-9	10-14	15-20	21-25			
CIE-I	5/9/19	A705 B-21 C-07	A-1 B-D C-0	A-0 8-0-	A-3 B-3 C-0	A-1 B-8 C-1	A-1 B-8 C-5	97 %	An	m
CIE-II	12/10/19	6 21 7	000	010	050	261	49	97 %	Ah.	22 M
CIE-III	9/11/19	8-5 8-21	8-0 8-0 1-0	A-0 B-1 C-0	A-1 B-3 C-0	A-0 B-4 c-0	A-5 6-13	97 %	An	No.

Dean, Prof. and Head-ME MHCE/IRA/010

Figure 2.14: Sample of CIE-Result Analysis

#### (b) Additional Support provided to bright students

Bright students are found on the basis of their class performances, involvement in classroom, internal assessments, and grades. The following facilities are there for bright students to apply their learning on various platforms:

- Extra assignment to enhance complex problems solving kills.
- Extra counselling to motivate students to take up advanced study or take up projects
- Involve fast learners for peer tutoring the slow learners
- Students motivated to take up one additional advanced level MOOC/ SWAYAM / NPTL in that course.
- They are encouraged to finding the solution of complex problem/innovativeprojects.
- Give open ended/challenging lab-based problem (to be approved by Dean/ HoD/IQAC).
- Students are encouraged to take up competitive exams like GATE, GRE, TOEFL, IELTS, CAT, PGCET etc.
- Students are encouraged to be members of professional bodies like IE (India) / SAE / ISTE / CSI / IIPE and organize technical events.
- Bright and diligent students are motivated and inspired to get top ranks in their SEE and in competitive examinations.

#### **D.** Quality of Classroom Teaching:

The quality of classroom teaching and quality of content delivery in live lectures is evaluated is maintained through the constant monitoring of the faculty classes by the Head of the Department. The Dean Academics / Deans / Directors are permitted to visit the live classes for evaluation of quality content delivery in prescribed format. Furthermore, assessment of the faculties is conducted annually by the New Horizon Quality Assessment and Skill Development Cell (NHQASDC). On the basis evaluation report, necessary feedback is given to the faculty members to improve the quality of lectures. The format for evaluation of classroom teaching is given below Figure 2.15.

ate		NHQAS	DC Chadula	
		ma of the	ohteruar	
1.1	Name of the faculty Dec	artmant	Toole	Duration 15-20 mins max
S. No	Components	Yes	No	Feedback: Remarks/Suggestions
A	Skill of introduction 3-4 minutes			
1	Opening statement			
2	Testing previous knowledge-questions/case			
	study/activity/problem solving/discussions/illustrations			
3	Opportunities given for students' responses			
4	Instances used for inspiring/motivation and preparing the	-	-	
	students for remembering the topic			
5				
-	Connecting the previous knowledge to the new topic			
6	Stating the topic and writing it on the board			
				ð.
8	Skill of Questioning			
1	Questions for giving clarity about the concepts (LOTs)			
2	Prompting Questions - Clue based (HOTs)			
3	Questions asked for reasoning (LOTs)			
4	Questions for analysis and critical awareness (HOTs)			
5	Questions asked for discussion, and interaction	1.		
6	Questions for application of the learnt concepts	8.11		
c	Skill of illustrating with examples			
1	Relevant examples used for the concept clarity	1		
2	Diagrams / activities /designs yse, to bring clarity to the concept			
	the set of sector selections in the set of set of the set			
	Usage of media-animations, visuals, audios and videos esc	-	-	
4	reaching approaches used-mouctive / deductive	-	_	
-				
5	Opportunities for students involvement/ participation	-	_	
0	cases/ examples used to invigorate innovative thinking			
-	among students		-	
	Skill of using varied stimulus, reinforcement and	-	-	
D	conclusion			
-	Gesturers and moments used to elicit appropriate	-		
1	response			
2	Facial Expressions			2
3	Vocal Modulation			
4	Body Language			
5	Positive reinforcement through words nodding, smilling etc.		-	
6	Revising/summarizing / concluding	-		-

Figure 2.15: Sample format for evaluation of classroom teaching

#### **E.** Conduct of Experiments:

The lab experiments are conducted according to the lab lesson plan. A sample of the format of the lesson plan for lab course is shown in Table 2.33. The dates are planned for each of the experiments according to the timetable and the calendar of events. The experiments conducted are evaluated regularly by the faculty in-charges. To ensure the quality of conduct of laboratory classes in the Department, a Lab monitoring Committee monitors the readiness of laboratory, quality of student's laboratory experiments and practice of outcome based education. The Lab monitoring Committee takes runtime corrective measures to ensure quality of

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experiments. Continuous evaluation of each laboratory experiment is done based on the following parameters. The in-charge faculty members give marks to each student for the performance on each day and for maintaining records.

Experiment #	Experiment / Program	RBT Levels	CO Mapping	Planned Date	Actual Date	Faculty Sign	Remark 5
i	Natural frequency of Simple	L1, L2	MEE71.1,				
	pendulum		MEE71.2,				
			MEE71.3				
2	Natural frequency of compound	L1, L2	MEE71.1,				
	pendulum		MEE71.2,				
			MEE71.3				
3	Natural frequency of spring mass	L1, L2	MEE71.1,				
	system		MEE71.2, MEE71.3				
4	Natural frequency of torsional system	L1, L2	MEE71.1,				
			MEE71.2, MEE71.3				
5	Natural frequency for rigid body-	L1, L2,	MEE71.1,				
	spring system	1.3	MEE71.2,				
6	Whirling of shafts and critical speed	L1, L2,	MEE71.1,				
		1.3	MEE71.2,				
7	Natural frequency and mode shapes of	1.4	MEE71.5				
	longitudinal vibrations of rod.		MEE71.6				
8	Natural frequency and mode shapes of	1.4	MEE71.5,				
0	forsional vibrations of rod.	18.16	MEE71.6				
,	Simple pendulum using MATLAB	1.5, 1.6	DILL (1.4				
10	Solution to Natural frequency of	L5, L6	MEE71.4				
	compound pendulum using MATLAB	14.14	MEETI A				
11	spring mass system using MATLAB	1.5, 1.6	DIEE/1.4				
12	Solution to Natural frequency of torsional system using MATLAB	L5, L6	MEE71.4				
13	Solution to Natural frequency for rigid body-spring system using MATLAB	L5, L6	MEE71.4				
14	Solution to Whirling of shafts and critical speed using MATLAB	L5, L6	MEE71.4				

**Table 2.33:** Sample format of lab lesson plan

Experiments in each lab is designed based on the syllabus of each subject such as Mechanics of Materials lab, Materials Science and Metallurgy lab, Machine Shop lab, Measurements and Metrology lab, Cast and Forging lab, Fluid machinery lab, Heat Transfer lab and others. Each lab course consists of about 10 to 12 experiments, which are conducted according to the syllabus. Additional experiments are conducted based on the requirements from the lab for learning beyond the syllabus.

#### F. Continuous Assessment in the laboratory:

The continuous assessment of the lab is done with completion of each experiment according to the lab Lesson plan. At the end of the semester, a lab CIE is conducted to assess the students. A sample rubric for lab courses evaluation is shown in figure 2.15. The lab participation and the lab record rubric is shown in figure 2.16.

		CIE		
		25 Marks		
Laboratory Record ev	valuation based on rul experiment	orics for each	Final Internal Lab test*	Viva Voce*
	10 Marks		10 Marks	05 Marks
Conduction	Evaluation	Viva Voce	Lab test will be conducted for 50 marks and scaled down to 10 marks	Oral or written viva voce test
4M	4M	2M	10M	5M

Assessment rubrics that is	going to be adopted	for direct attainment is de	epicted in below table
----------------------------	---------------------	-----------------------------	------------------------

Rubrics for Lab Performance Assessment

Each week, students will be assessed on their participation and performance in lab. The points each week will be totaled and combined with Lab test and final viva voce\*. 85% of the labs must be of at least adequate quality in order to meet minimal standards to pass the course.

- A. Lab performance is excellent with the majority of assessments rated as proficient. The student has attended all labs.
- B. Lab performance is good with most assessments at the adequate level (with no more than 2 substandard) or above. At most, the student has one lab absence.
- C. Lab performance is fair with most assessments at the Adequate and Substandard levels. The student may have been absent 2-3 times.
- D. Lab performance is barely adequate with less than half of assessments at the Adequate level or higher. The student may have been absent up to 5 times.
- E. Lab performance is not sufficient to pass since 85% of assignments were not completed (or unacceptable) and/or the student missed six or more labs.

Figure 2.15: Sample Lab Assessment rubrics for lab course CIE

New Horizon College of Engineering Department of Mechanical Engineering

Proficient	Adequate	Substandard	Unacceptable
80-100% Marks	60-79% Marks	40-59% Marks	0-39% Marks
Student demonstrates an accurate understanding of the lab objectives and concepts. The student can correctly answer questions and if appropriate, can explain concepts to fellow classmates. Student is eager to participate and assists when needed.	Student arrives on time to lab, but may be unprepared. Answers to questions are basic and superficial suggesting that concepts are not fully grasped.	Student tardiness or unpreparedness makes it impossible to fully participate. If able to participate, student has difficulty explaining key lab concepts.	Student was late to lab or did not participate. There was no attempt to make prior arrangements to make up the lab.

### Lab Participation Rubric (Conduction & Calculation)

# Lab Record Rubric (Evaluation)

Proficient	Adequate	Substandard	Unacceptable
80-100% Marks	60-79% Marks	40-59% Marks	0-39% Marks
Student demonstrates an accurate understanding of the lab objectives and concepts. Questions are answered completely and correctly. Graphs are neat, creative and include complete titles and accurate units. Errors, if any are minimal.	Student has a basic knowledge of content, but may lack some understanding of some concepts. Questions are answered fairly well and/or graphs could have been done more neatly, accurately or with more complete information.	Student has problems with both the graphs and the answers. Student appears to have not fully grasped the lab content and the graph(s) possess multiple errors.	Student turns in lab report late or the report is so incomplete and/or so inaccurate that it is unacceptable.

#### **VIVA VOCE:**

Technical response for questions- (2 or 5 marks X % of questions answered)

Figure 2.16: Sample Lab record Rubrics

**Laboratory Courses Evaluation:** The Lab courses are evaluated based on the individual student's experimentation, observation, calculation, report, and Viva-voce. The distribution of the marks is shown in the Table 2.24.

SI. No	Assessment	Criteria		Total
1	CIE	Performance in lab	15	
		Internal Test	10	28
2	SEE	Initial Write-up on formulas, procedures, Tabular column etc.	10	
		Conduction of Experiment	10	
		Calculations from the experimental observations	10	25
		Inference and conclusion	10	20
		Viva-Voce	10	
		Note: SEE conducted for 50 marks an	nd rounded off to 25	-
	Total			50

Table 2.34: Criteria for evaluation of Lab Cour
---

#### G. Student Feedback & Action taken:

The students'feedbacks on the faculties are taken every semester based on different categories. The feedback is taken on the effectiveness of the teaching-learning process followed by the faculties. Initial oral feedback is taken by the Head of the Department at the beginning of the semester after 2 weeks after class commencement. The feedbacks from the students are taken anonymously through on-line mode. The feedback of all the faculties are summarized individually and communicated to the respective faculties through the Head of the Department. The suggestions of the students are taken into considerations and appropriate course of action is taken. The performance parameters are shown in Figure 2.17. The detailedfrequency, impact analysis and Actions taken on the student feedback are available in Criteria 9.

			2		N	ew Ho Str	rizon ( ident I Depa Fac	Colleg Feedba rtmen ulty N	e of Ei ck Re t of M ame:	nginee port E	ring												
SR. No.	Name of the faculty	SEM/SEC	No of Students	COURSES	Q1	QZ	Q3	Q4	QS	Q6	Q7	Q8	Q9	Q 10	Q11	Q 12	Q13	Q14	Q15	Q 16	Q 17	Q 18	Avg.
1			Overall avg																				

Q1	Clarity in explaining the subject
Q2	Subject explained was easy to understand.
Q3	Content quality is relevant and useful.
Q4	Faculty answers to your queries/questions.
Q5	Coverage of topic/subject is on time.
Q.6	The concepts were explained with examples.
Q.7	Faculty preparation for the class.
Q.8	Faculty guidance for preparation of seminar, conference and exam.
Q.9	Punctuality of the faculty for the class.
Q 10	Communicates distinctly and effectively.
Q 11	Treats students with respect and courtesy.
Q 12	Control of the classroom by faculty.
Q 13	Relevance of assignments to the subject.
Q 14	Overall satisfaction.
Q 15	Discussion of any interesting topic beyond the syllabus but relevant to the field.
Q 16	Usefulness of the question papers of internal tests in your preparation for the examination.
Q 17	Helpfulness of the online course material (question bank, etc.) and assignments for you to understand and prepare and for tests and examination.
Q 18	Accessibility availability after the class hours in the college.
_	

	SCALE USED
Not Applicable	0
Poor	1
Fair	2
Good	3
Very Good	4
Excellent	5

### Figure 2.17: Sample of Student feedback format

A sample analysis of the feedback is shown in Table 2.34 (a), and the pie chart analysis is shown in figure 2.17 (a).

New Horizon College of Engineering				
Departm	ent of Mechanical Engineering			
Faculty Feedback Analysis	s for EVEN Semester 2018			
Total number of Faculties		57		
Feedback	4.5-5	29		
Feedback	4-4.5	25		
Feedback	3.5-3.99	03		
Feedback	less than 3.5	00		

 Table 2.34(a): Sample analysis of the feedback



Figure 2.17 (a): Pie Chart Analysis of the Feedback

2.2.2 Quality of Semester End Examination, Internal Semester Question Papers, Assignments, and Evaluation (15)

A. Process for internal semester question paper setting and evaluation and effective process implementation:

**Continuous Internal Evaluation:**The flow chart showing the process of CIE conduction within the department of mechanical engineering is shown in Figure 2.18.



Figure 2.18: Flow Chart for conducting the CIE

The respective subject faculties are responsible for setting up the CIE question papers. The department conducts a total of three CIEs covering 100% of the syllabus. The syllabus for the CIE is based on the syllabus covered at the time of the CIE. The CIE question paper is set for 25 marks for duration of 1 hour. The COs are mapped and the RBT levels are maintained in the CIE question papers. The CIE question papers along with the scheme-solution are submitted to the CIE coordinator. An internal BoE meeting is conducted headed by the HoD. suggestion and corrections are suggested, as necessary. The CIE Question papers are photocopied, and CIE tests

are conducted according to the schedule. The blue books are evaluated, and the marks are entered in the CONTINEO by the faculties.

**Semester End Examination:**The flow chart showing the process of conducting the SEE at the institute level is shown in Figure 2.19.



**Figure 2.19:** Flow chart for conducting the SEE

The department BoE coordinator receives the circular from the office of the CoE to identifying 3 internal faculties and 2 external faculties for each subject. The question papers setters are identified as experts in the field, with no less than 5 years of experience in handling the subject. The order to set the question papers is E-mailed to the SEE question paper setters along with the following:

- Copy of the guidelines for question paper setters.
- Syllabus of the concerned course/courses.
- Bloom's Taxonomy.
- Question Paper Format.

The received SEE question papers arescrutinized by BoE members chaired by the Head of the Department, along with one external scrutinizer.

During the BoE scrutiny, the following essential points are considered for accepting or rejecting a question paper:

- Total ten question with two from each unit to be set uniformly covering the entire syllabus.
- Each Question should not have more than four sub-questions.
- RBT levels and CO are checked for consistency.

#### **Overall Assessment Procedure for CIE and SEE:**

The assessment pattern for the CIE and SEE is shown in the Table 2.35.

SL No		Assessment	Marks	Weightage	Total
1	CIE	CIE Test l	25	25	
		CIE Test 2	25		
		CIE Test 3	25		
		Assignment l	7.5	15	50
		Assignment 2	7.5		
		Quizl	5	10	
		Quiz 2	5		
2	SEE	5 Questions; Each carrying 20 marks	100	50 (reduced from 100)	50
		Total			100

#### Table 2.35: Assessment pattern for CIE and SEE

#### **B.** Process to ensure questions from outcomes/learning levels perspective:

The CIE question papers are prepared based on the syllabus coverage up to the point of CIE date. The COs and RBT levels are mapped to each question of the CIE. The marks obtained in the CIE by the students are used for the CO attainment calculation. SEE question papers are scrutinized during the BoE meeting to ensure the mapping of the COs and RBT levels. The sample image of the Minutes of meeting for the internal BoE for scrutinizing the CIE question papers is shown in Figure 2.20 (a) to Figure 2.20 (g).A sample CIE question paper with the COs and RBT levels are shown in Figure 2.21 and Figure 2.22.A sample SEE question paper is shown in Figure 2.23.



Even Semester AY: 2019-20

#### DEPARTMENT OF MECHANICAL ENGINEEERING

(Name of the Board) Internal Test BOE

Minutes of BOE Meeting

Held on 11 f + 2020

Venue: Office of Dean, Prof, HOD, M.E.Dept., NHCE

Timings: 10anto 12 Ph.

Figure 2.20 (a): Sample of internal BoE Minutes of Meeting for CIE (Page-1)



#### DEPARTMENT OF MECHANICAL ENGINEEERING

#### BOARD OF EXAMINATIONS

#### AGENDA

AGENDA 1:Scrutiny of Question papers as received from paper setters of Mechanical Engineering Department, NHCE

AGENDA 2: Mapping of questions (in each question paper) as per Revised Bloom's Taxonomy

AGENDA 3:Record of deviations observed in setting question papers, if any, with regard to question paper template and/or expectations of the concerned board (rejected papers to be specifically marked stating reasons of rejection along with signature of chairman BOE)

AGENDA 4:Handling over of accepted and rejected question papers to office of Mechanical Engineering Department, NHCE

Figure 2.20 (b): Sample of internal BoE Minutes of Meeting for CIE (Page-2)

S1.N0	PARTICULARS	PAGE No.
1	List of BOE Members (AY:2019-20)	4
2	Welcome Address by Chairman-BOE and Introduction of members	5
3	Scrutiny of Question Papers by paper setters of Mechanical Department, NHCE	5
4	Mapping of questions(in each question paper) as per Revised Bloom's Taxonomy	6
5	Record of deviations observed in setting question papers, if any, with regard to question paper template and/or expectations of the concerned board (rejected papers to be specifically marked stating reasons of rejection along with signature of chairman BOE)	6
6	Handling over of accepted and rejected question papers to office of Mechanical Engineering Department, NHCE	7
7	Votes of thanks by Chairman-BOE	7

#### CONTENTS

#### Figure 2.20 (c): Sample of internal BoE Minutes of Meeting for CIE (Page-3)

Members P	resent in	BOE
-----------	-----------	-----

#### Meeting Held on || Feb 2020

SLNo.	NAME	DESIGNATION AND AFFILIATION	SIGNATURE
1	Dr. M.S. Ganesta Prosad	Dean, Prof. of Head.	MAS
2	M. Ragher Tilak Reddy	Sr. Aut Profettor NHCE.	Make.
3	D. Sinah. M.K.	Ano Profesan	Sus
4	Ravi Kumar. M	Sr. Asst professor	AR.
5	Ronald	ABSt. Profenor	Roper
6	Naresh KS	Asst professor	Nacet
7	Dr. Viswout Bilke	Protener	Pokin .
8	SHIVA PRACHASH 3	SV. Asst Prof	A
9			
10			

Figure 2.20 (d): Sample of internal BoE Minutes of Meeting for CIE (Page-4)

## WELCOME ADDRESS BY THE CHAIRMAN-BOE INTRODUCTION OF MEMBERS

Minutes: Received Test I Runtion papers. They bere distributed to BOE members according to their specialization. This Runtion papers have changes in RST level to be suggested. Few Runtion papers have changes in format, gramma to be suggested. RoT levels, grammar & format were checked & Greeted. RoT levels, grammar & format were checked & Greeted. remaining Runtion papers were found satisfactory

Agenda 1: Scrutiny of Question papers as received from paper setters of Mechanical Engineering Department, NHCE

(Members may please add/delete information in Question paper in red color ink pen, in case of deviations)

Minutes:

Tehnical,

Figure 2.20 (e): Sample of internal BoE Minutes of Meeting for CIE (Page-5)

Agenda 2: Mapping of questions (in each question paper) as per Revised Bloom's Taxonomy

Minutes:

Instructions are given to BOE members

60

per agonda and followed.

Agenda 3:Record of deviations observed in setting question papers, if any, with regard to question paper template and/or expectations of the concerned board

(Rejected papers to be specifically marked stating reasons of rejection along with signature of chairman BOE)

Minutes:

BOE handers found few question papers RBT level, grammer, format have not anatched property. For above measons, necessary corrections were made to RET lavely grammen, format of these question rapers. Remaining question papers one found satisfactory.

Figure 2.20 (f): Sample of internal BoE Minutes of Meeting for CIE (Page-6)

SI.No.	Course Name	Course Code	No. of Papers Accepted	No. of Papers Rejected	Reason if Rejected
l.	All niesubjects	of B.E	maining	04	granner/Technica
_					

Agenda 4:Handling over of accepted and rejected question papers to office of Mechanical Engineering Department, NHCE

		VOTE OF THANKS B	Y THE CHAIR!	MAN-BOE		
	The	<i>Charryman</i>	BOE	thanked	the	brankers
:>ho	ome	par of the	pret:	9.		

Figure 2.20 (g): Sample of internal BoE Minutes of Meeting for CIE (Page-7)

		NEW HORIZON COLLEGE OF ENGINEERING, BANGALORE Autonomous College affiliated to VTU, Accredited by NAAC with 'A' Gra CIE -1 (Even Sem; AY: 2019 -20)	de & NB	A	
	Dep Cou Sen Max	etternt : Machanical Engineering Date poNante : Design of machine elements-2 Course Code estar : 6 <sup>e</sup> (A,B & C) CIE Test (Marks : 25 Duration ANSWER ALL OUESTIONS	: : MEE63 :I : 60 Mi	outes	
Q.	Γ	Question	Marks	CO:PO	RBT
1	a	Figure 1 (All dimensions are in mm)	8	1,6;2	L3
	b	OR The horizontal section of a crane hook is an isosceles triangle of 90 mm deep, the inner width being 80 mm. The hook carries a load of 40kN and the inner radius of curvature is 80 mm. The load line is nearer to the inner surface of the hook by 20 mm than the center of curvature at critical section. Find the extreme intensities of stresses at critical section.	8	1,6;2	L3
,		Determine the stresses induced in a circular ring of circular cross section of 25 mm diameter subjected to a compressive load of 6500N. The inner diameter of the ring is 60 mm.	8	1,6;2	ы
+	a	Select a wire rope for a vertical mine hoist to lift a load of 10kN from a depth of 600 meters. A rope speed of 50 m/min is to be attained in 2 seconds.	9	3,6;3	L4
	ь	A 20 mm 8 x 19 steel wire rope is used with a hoisting drum of 1 m diameter to lift a load of 20 kN. The depth of mine is 800 m and the acceleration is 3 m/sce <sup>2</sup> . Determine the number of ropes required using a factor of safety of 5. Neglect the weight of skip.	9	3,6;3	LA

NHCE/IQP/009

Maan

Figure 2.21: Sample of CIE question paper after the BoE scrutinization

#### C. Evidence of COs coverage in class test / mid-term tests:

The faulty members maintain the COs and RBT levels in the CIE question papers. Any un-foreseen error in the same is identified in the internal BoE meeting, which is corrected immediately. A sample of the CIE with COs coverage is shown in Figure 2.22.

#### NEW HORIZON COLLEGE OF ENGINEERING, NEW HORIZON KNOWLEDGE PARK, BANGALORE Autonomous college affiliated to VTU, Accredited by NAAC with 'A' Grade & NBA CIE TEST (AY-Even 2019-20)

Department : Mechanical Engineering	Semester: 4th
Course Name : Fluid Mechanics	Course Code: 19MEE462
Date : 19/02/2020	Duration: 1 Hour
CIE Test : I	Max Marks: 25

Q. No.	Part-A	CO;PO	Marks	RBT
1	Define: Specific Mass, Specific Weight, Specific Volume, surface tension and Kinematic Viscosity. Mention their units	1,2;1	5	L2
2	Define: Capillarity, Relative density, Path line, Stream line and Streak line.	2,3,5;1	5	L2
Q. No.	Part-B		Marks	RBT
3	Derive an expression for 3D Continuity equation in Cartesian Co- ordinates	2,3,5;1	5	L2, L3
4	State and Prove Pascal's law.	1,2;1	5	L2, L3
Q. No.	Part-C	CO;PO	Marks	RBT
5	A flat plate of area 1.5X106 mm <sup>2</sup> is pulled with a speed of 0.4 m/see relative to another plate located at a distance of 0.15 mm from it. Find the force and power required to maintain this speed, if the fluid separating them is having viscosity as 1 poise.	1,2;1	5	L4, L5
6	A plate having an area of 0.6 m <sup>2</sup> is sliding down the inclined plane at 30° to the horizontal with a velocity of 0.36m/see. there is a cushion of fluid 1.8mm thick between the plane and the plate, find the viscosity of the fluid if the weight of the plate is 280N.	1,2;1	5	L4, 1.5
Q. No.	Part-D	CO;PO	Marks	RBT
7	A vertical gap 2.2 cm wide of infinite extent contains a fluid of viscosity 2.0 N-s/m <sup>2</sup> and specific gravity 0.9. A metallic plate 1.2mX1.2mX0.2cm is to be lifted up with a constant velocity of 0.15 m/sec, through the gap. If the plate is in the middle of the gap find the force required to lift the plate upward. if the weight of the plate is 40 N.	1,2;1	5	L4, L5
8	Find the density of a metallic body which floats at the interface of mercury of specific gravity 13.6 and water such that 40% of its volume is sub-merged in mercury and 60% in water.	2,3,5;1	5	L2
Q. No.	Part-E	CO;PO	Marks	RBT
9	With a neat sketch explain stability of floating and submerged body	2,3,5;2	5	L4, L5
10	If the velocity components are given by u=8+4xy+t <sup>2</sup> v=-(xy+20t) w=5x+y Find velocity and acceleration of particle at (2,1,1) at t=1 sec	2,3,5;1	5	L4, L5

Answer any one question from each part.

I

Figure 2.22: Sample CIE question Paper

Department of Mechanical Engineering / NHCE

NHCE/IQP/009

		1	9MI	SE13
	New Horizon College of Engineering, Bang Astronomous College affiliated to VTU, Accredited by NAAC with 'A' Grade& J	alo	re	
	Semester End Examinations Nov/Dec 2019			
	ELEMENTS OF MECHANICAL ENGINEERING			
ation: 3 h	rs Ma	s. Ma	ks: 10	0
	Answer five full questions choosing one complete question from each mod	lule.		
	Module 1			
1 a)	Differentiate between Renewable and Non-renewable energy resources with examples	6	LI	C01
b)	Explain the Helio-electrical process of solar energy conversion.	7	L2	C01
e)	What is bio-diesel? Give the advantages and disadvantages of bio-diesel.	7	IJ	C01
	OR			
2 a)	Briefly explain the applications of solar energy in Agriculture.	6	ы	C01
b)	Explain the production of electricity from a windmill with a sketch.	7	L2	COI
c)	With a sketch explain the production of bio-diesel.	7	L3	C01
	Module 2			
3 a)	Sketch and label the parts of an IC orgine.	6	1.2	CO
b)	What are hybrid vehicles? Explain briefly its types.	7	LI	CO
c)	Electric vehicles are the future of transport. Justify the sentence with suitable	7	14	CO
	OR			
4.3)	What is ABS? Explain its working.	6	1.2	C03
b)	With next sketches explain the working of a compression ignition orgine.	7	LI	CO
c)	Briefly explain the advantages and disadvantages of electric vehicles. Module 3	7	ы	CO
5 a)	Define a) Brake power b) Friction power c) Compression ratio.	6	1.2	CO3
2.527				,4
b)	What are the parameters to consider while calculating Cooling load and	7	LI	C03
10	Heating load for building?			.4
c)	The following readings were obtained on a four stooke diesel engine: 1) Cylinder Dia = 25cm, 2) Piston stroke = 40cm, 3) Engine Speed = 250cpm, 4) Brake load = 70 kg, 4) Brake drum Dia = 2m, 5) Mean effective pressure = 6 har, 6) Fuel consumption = 0.1 1 /min, 7) Specific gravity of fuel = 0.78, 8) Calorific value of fuel = 43900 kJ/Kg. Find: Brake power, Indicated nerver. Eriction power, Mechanical Efficiency, Brake Thermal	7	12	со: ,4

Figure 2.23 (a): Sample SEE question Paper (page1)

# 19MEE13

_					
		OR			
	6a)	Define a) Bore b) Stroke c) Clearance volume.	6	1.2	CO3 ,4
	b)	Explain with sketch the working of a vapour compression refrigerator.	7	LI	C03
	e)	Explain how a winter air conditioning unit works.	7	1.2	C03
		Module 4			
	7a)	Draw the neat sketch of tailstock offset method of taper turning and explain in brief the working principle	6	13	C05
	b)	Explain with the neat sketch the working of LBM process	7	1.2	C05
	e)	Write the advantage, disadvantage and application CNC OR	7	LI	C05
	8 a)	Draw the near sketch of WJM and explain its working principle	6	13	C05
	b)	Draw the neat sketch of Cartesian robot configuration and explain the working principles	7	13	C05
	c)	Explain with the next slottch the different CNC turning components	7	14	C05
		Module 5			
	9 a)	Write the composition of two copper-based alloys and their applications	6	LI	C06
	b)	Compute the Advantages, Disadvantages and Applications of Nano- composites	7	13	C06
	¢)	Derive the equations for stress, strain and hook's law OR	7	L4	C06
ŝ	10a)	Define the composite material. How composites are different from conventional materials	6	ы	C06
	b)	Draw the rest sketch of fused deposition modeling RP technique and explain its working principle	7	13	CO6
	c)	Compute the different Application of Rapid Prototyping	7	и	C06

Page 2 of 2

# Figure 2.23 (b): Sample SEE question Paper (page2)

#### D. Quality of Assignment and its relevance to COs:

The assignment questions are prepared by the subject faculties. The assignment is an assessment component for all the courses. The assignment questions are framed in a manner so as to inculcate and encourage self-learning habit in the students. The issue and submission dates are announced in the calendar of events. The questions are mapped appropriately to the COs and RBT levels. To maintain diversity amongst the students, different versions of the assignments are set for the students. A sample of the assignment is shown in figure 2.24.

# NEW HORIZON

#### **Department of Mechanical Engineering**

**GROUP-1** 

Cours Assigi Total	e: FRACTURE MECHANICS ument No: 1 Marks: 10	Course Code: Start Date: Submission Date:	MEE84 24/02/2 29/02/2	2020 2020
SLNo-	Questions		CO;PO	RBT
1	Define Fracture mechanics. Explain the br mechanics with respect to Liberty Ship	ief history of fracture	1,3,6:1	Ll
2	lifustrate Dugdale approach for crack prop	ugation	1,3,6:2	1.2
3	Explain with neat sketch the basic three m	nodes of crack deformation	1,3,6:3	L2
4	Explain (i) Energy approach (ii) Stress-Intensity factor		1,3,6:3	L4
5	Differentiate between Energy release rate (SIF).	& Stress Intensity Factor	1,3,6:2	1.4
б	A Large Plate of Smm thickness made of 350MPa, with a through the thickness of length, is subjected to a stress of 150MB crack length using lrwin's correction.	medium carbon steel $\sigma_{ys}$ = entre crack of $2n = 40mm$ <sup>b</sup> a. Determine the effective	1,3,6:2	LS

#### Notes

- Answers/solutions to the above questions have to be written in A4 size sheets neatly and honestly.
- Assignments help you to manage time while solving numerical during SEE & CIEs.
- Please do attach cover page for your assignment copy while submitting.
- Late submission leads to reduction marks.

Figure 2.24: Sample Assignment Question paper

#### 2.2.3 Quality of student projects (20)

# A. Identification of projects and allocation methodology to Faculty Members

The primary aim of conducting the mini and major projects for the students is to inculcate and apply the knowledge gained through Theory and Lab based learning to provide solutions to real world problems. The students are encouraged to undertake quality projects which addresses the engineering, industrial, environmental, and societal needs. The process followed for identifying the projects and allocating the faulty members as guide to the students mini and major projects is shown in the flow chart in figure 2.25.





#### **Project Identification and Faculty Members allocation**

- a. The Dean-Head of Department provides the list of faculty members and their area of specialization, prepared by the project coordinator to the students at least one month before the end of the semester. The Dean / Head of Department also identifies certain the industry professionals/alumni for guiding the students.
- b. The project coordinator advises the students to form a group of around 4 members and identify the project area / title, obtain the consent of faculty/industry professionals to guide them. The Project coordinator collects these details from the students at least two weeks before the end of the semester.
- c. The Dean / Head of Department/ project coordinator finalizes project titles, project guide, group of students and displays the allocation at least one week before the end of the semester.
- d. The Dean / Head of Department / project coordinator allocates laboratory resources for in-house projects and allocates the number of days per week for working on the projects in the industry (if the project is being carried out in industry).
- e. The Dean / Head of Department / project coordinator lists the types of projects on the basis of Environment, Safety, Ethics, Cost and category of project i.e. whether it is application based, Product Development based, or Research based projects.

The faculty specialization and Areas of interest is shown in Table 2.36.

Sl no.	Faculty	Specialization & Areas of Interest
1.	Dr. Manjunatha	Lean Manufacturing
2.	Dr. M.S. Ganesha Prasad	Mechanical Engineering Sciences
3.	Dr. Gopala Krishnan K	Total Quality Management and Integrated Management
4.	Dr. B. Viswanath	Surface Engineering and Manufacturing, materials Science
5.	Dr. Priyabrata Adhikari	Renewable Energy and Turbo Machine
б.	Dr. Vasanth Kumar	Lean Manufacturing, Advanced Manufacturing Techniques
7.	Dr. Amit Kumar Goudar	Mechanical Engineering Sciences, CFD, Fluid mechanics
8.	Dr. Ashok Kumar	IC Engine and Alternate Fuels
9.	Dr. Gopal K	I.C. Engines, Combustion, Alternative Fuels, Optimization, Thermal Science, Renewable energy.

**Table 2.36:**The current Faculty List with areas of specialization.

10.	Dr. Srinath. M.K.	Surface Engineering, Materials Processing, Simulations
11.	Dr. Manjunatha. G	Nanocomposites, Manufacturing Science & Engineering
12.	Dr. Nagendra. J	Manufacturing, Machine Design, Product Development
13.	Dr. Sujin Jose	Engineering Materials
14.	Dr. Venugopal S	Materials science & Engg
15.	Dr. Selvam M	Mechanical Engineering Science, Thermal engineering
16.	Dr. Hemanth Raju T	Product design and development, Management, Materials
17.	Dr. Kumar	Mechanical Engineering
18.	Mr. Shiva Prakash. S	Tool Engineering, Materials & Manufacturing, Product Development
19.	Mr. Raghu Tilak Reddy	Composites, Computer Integrated Manufacturing
20.	Mr. Ravi Kumar. M	Thermal Sciences, Renewable Energy
21.	Mr. Nagabhushana. N	Manufacturing, Materials Processing, Composites
22.	Mr. Manjesh B .C	Thermal power Engineering, Energy Resources
23.	Mr. Veeresha . G	Machine Design, Composites
24.	Mr. Sudharshan T. A	Thermal Science and Engineering
25.	Mr. Hanamanth. Y	Machine Design, Materials Science
26.	Mr. Puneeth H. V	Tool Engineering, Measurement, Metal working fluids
27.	Mr. Bopanna K. D	Computer Integrated Manufacturing, Composites, Heat transfer
28.	Mr. Rajesh. A	Aeronautical engineering, Computational Fluid Dynamics,
29.	Mr. Chetan Kumar D S	Machine Design, Tribology
30.	Mr. Kamalashish Deb	Thermal Engineering, Computational Fluid Dynamics,
31.	Mr. Sujeeth	Computer Integrated Manufacturing, Materials Science
32.	Ms. Deepthi K.R.	Aeronautical Engineering
33.	Mr. Madhusudan	Manufacturing Science & Engineering
34.	Mr. Ronald Reagon. R	Thermal Power Engg, Energy resources
35.	Mr. Kemparaju	Thermal Power Engg, Thermal Science
36.	Mr. Pavan Prabhakar	Machine Design, Mechanisms
37.	Mr. Santhosh. A. N	Tool Engineering, Materials Science
38.	Mr. Karthik. S. N	Advanced Material Technology, Materials Processing
39.	Ms. Megha Shukla	Machine Design, FEM, Simulations
40.	Mr. Vinayak Balehittal	Product design and manufacturing, Machine Learning &AI
41.	Mr. Naresh K S	Machine Design, structures, Vibrations
42.	Mr. Nithin	Computer Integrated Manufacturing, Advanced Manufacturing Techniques
43.	Dr. Aditi Raj	Mechatronics, Advanced Industrial Robotics,
44.	Mr. Vinod Kumar G S	Materials science & Engineering, Surface Engineering
45.	Mr. Lakshminarasimha N	Thermal Engineering, IIoT
46.	Mr. Vinay. D.R.	Design Engineering,
47.	Mr. Shivanagouda R Patil	Computer Integrated Manufacturing, Product Development

48.	Mr. Mohan Kumar G R	Machine Design and development
49.	Mr. Sunil Prashanth Kumar S	CAD/CAM, Materials and Manufacturing Science
50.	Mr. Dinesh Kumar V	CAD/CAM, Advanced materials techniques
51.	Mr. Rakesh Chandrashekar	Thermal Power Engineering, IC engines, Turbo machines
52.	Mr. Ravi Teja	Mechanical Engineering Science, Product design and development
53.	Mr. Mahadev Hebbal	Aeronautical Engineering
54.	Mr. Subramani Damodar	Advanced Manufacturing Techniques
55.	Mr. G Bakkiyaraj	Manufacturing Engineering and materials Processing
56.	Mr. Dhatachanamoorthy C	Thermal Engineering, IC Engines

# **B.** Types and relevance of projects and their contribution towards attainment of POs and PSOs:

The three main sub-categories of Mechanical Engineering are Design Engineering, Materials & Manufacturing Engineering and Thermal Science Engineering. The projects based on these categories are classified as Research Studies, Product Development, and Industrial Applications based projects. The projects classified are shown in the Table 2.37, Table 2.38, and Table 2.39 for the respective years. The bar chart showing the types of projects conducted are shown in Figure 2.26, Figure 2.27, and Figure 2.28.

<b>Table 2.37:</b> List on Types of 2 <sup>nd</sup> Year pr	oject
---	-------

Academic	Type of Projects			
Year	Research Studies	Product Development	Industrial Application	
2019-2020	15	23	11	
2018-2019	NA	NA	NA	
2017-2018	NA	NA	NA	





Academic	Type of Projects			
Year	Research Studies	Product Development	Industrial Application	
2019-2020	11	17	19	
2018-2019	19	23	10	
2017-2018	15	27	18	

 Table 2.37: List on Types of 3<sup>rd</sup> Year project



Figure 2.27: Bar chart show the types of projects for 3<sup>rd</sup> Year

Academic	Type of Projects				
Year	Research Studies	Product Development	Industrial Application		
2019-2020	15	18	12		
2018-2019	17	19	10		
2017-2018	22	21	16		



Figure 2.28: Bar chart show the types of projects for 4<sup>th</sup> Year

The engagement of the projects by the students contributes towards the attainment of the POs and PSOs. A few sample projects along with the attainment of the POs and PSOs is shown in Table 2.39.

Table 2.39:Sample shown of Project contribution towards attainment of POs and

Sl no.	USN	Name	Guide	Title	POs &PSOs
1	1NH16ME010 1NH16ME011 1NH16ME021 1NH16ME044	Amaresh Sateesh Anandhu K R C M Yashassu Kusshal A	Dr.M.S Ganesh Prasad, Dean, Prof & Head-ME & Dr. Gopal. K	Minimal Powered Tube Bending Machine for Coolant Pipes and Green House Heat Radiators.	PO1, PO2, PO3, PSO1, PSO 2
2	1NH16ME045 1NH16ME046 1NH16ME047 1NH17ME401	Basavrajkumar B V Madhan Kumar V G Manoj Gowda T C Ajay Kumar V	Prof. Ravikumar M	Design and Fabrication of solar powered convective fruit dryer	PO1, PO3, PO6, PSO1, PSO2
3	1NH16ME093 1NH16ME003 1NH16ME028 1NH16ME068	Srevarun S Abhishek Ganesh S Nithish N	Prof. Sudarshan T A	Design and Fabrication of Semi- Automatic vertical axis wind turbine for power generation and irrigation	PO1, PO3, PO6, PSO1, PSO2
4	1NH16ME008 1NH16ME034 1NH16ME045 1NH16ME052	Ajay Kumar KV Hari Prasad J Likith RS Mahesh KR	Prof. Megha Shukla	Increasing the Performance of Existing IC Engines by Free Valve Actuation Technology	PO1, PO2, PO4, PSO1
5	1NH17ME404 1NH17ME409 1NH17ME410 1NH17ME423	Anuragh C H Basanagouda Chetan koppad Manoj TK	Prof. Hanamanth Yaragudri	Design & Fabrication of Electric Bicycle	PO3, PO6, PO7, PSO2

PSOs

#### **Project Progress:**

- All the members of the project team report to the internal guide regularly and provide a detailed update on the progress of the same.
- The project team provides a detailed presentation during the review-1 and review 2. Suggestions and instructions are taken from the panel members and implemented by the project team members.
- On successful completion of final review, the project team submits the project report to the project coordinator.
- A project exhibition- TECHORIZON, which is conducted at college level where the students are encouraged to participate and demonstrate the project work.

#### **Continuous monitoring and evaluation of Project**

- The progress of a project is monitored by the guide on day to day basis
- All Students will maintain a Project Diary, which will be monitored by the Project Guide
- The continuous progress is assessed through periodic review by panel (first review and second review before final review) based on Rubrics, given below
- Projects will be evaluated based on:
  - (a) Working Principle, implementation methodology, design process of components, performance of the system, application of the project and future scopes.
  - (b) Demonstration of the project working models.
  - (c) Viva-voce by panel of experts.

#### C. Project related to Industry:

The projects undertaken by the students are also related to the Industries and Industrial applications. The projects related to industries are classified based on the usefulness of the outcome of the projects towards the industries and the conduction of the projects in direct collaboration with industries. The industry oriented are shown in the figure 2.29.

Proje	cts related to I	ndustry - 201	19-2020	De	lew Horizon Co partment of M	ollege of Engine echanical Engi	eering neering	9 9	
Batch	Group Leader Name	Group Leader Phone No	Mail ID	Member-1 Name & USN	Member-2 Name & USN	Member-3 Name & USN	Member-4 Name & USN	Guide Name	Title
A3	S Srevarun	9742950248	srevarun66@gmail.com	S Srevarun & 1NH16ME093	Abhishek & 1NH16ME003	Ganesh S & 1NH16ME028	Nithish N & 1NH16ME068	Prof. Sudarshan	Implementation of IoT on portable vertical axi wind turbine for drip irrigation and power generation.
B3	Prajval G	9740120847	prajvalg1000@gmail.co m	Prajval G & 1NH16ME079	Suresh K & 1NH16ME115	Pavith kumar MG & 1NH16ME073	Abhishek S Raman 8 1NH16ME005	Prof. Kemparaju	Design and Fabrication of flex sensor based robotic leg
85	PRATHIK PRADEEP	9886429207	prathik.98@gmail.com	RAHUL B & 1NH16ME086	PRAKASH N.R & 1NH16ME080	PRATHIK PRADEEP & 1NH16ME082	PAVAN KALYAN B & 1NH16ME071	Dr P Adhikary	Smart Irrigation system using IoT and machine learning
B13	Vijay KumaR	8197399842	vijay9tseven@gmail.co m	Vijay Kumar & 1nh17me433	arjun Kumar & 1nh17me407	Girish C D & 1nh16me030	Shashank G & 1nh16me101	Prof. Vinayaka	Design and development of automated fruit harvesting machine using artificial neural
C16	Parth Rawri	9036820604	parthrawri@gmail.com	Ashwath Ramesh & 1NH16ME707	Parth Rawri & 1NH16ME736	Keshava & 1NH16ME726		Dr. M S Ganesha Prasad & Prof. Ronald	Machine Learning based energy source management system for series-parallel full hybrid electric vehicle using Karanja (Millettia
IIOT-1	Faisal Ahmed	9663408729	faisalahmedshariff@gm ail.com	Faisal Ahmed & 1NH16ME026			Prof.	Pinnata) Biodiesel	
IIOT-2	Sudharani	9108481575	sudhathakur8762@gma	Sudharani 8.1NU14ME7E2				Lakshminarasimha	
IIOT-3	N.Nitin	9448880651	n pitin p24@gmail.com	Sudminan & INFIOME/55				Prof. Santhosh (CSE)	
		7110000031	ninenine 4@ginan.com		N NIGH & IN	H16ME731		Prof. Santhosh (CSE)	
1101-4	Nishant Jha	9481015089	njha98@icloud.com		Nishant Jha & 1	NH16ME732	Dr M S Ganesha Prasad		
IIOT-5	Ravishankar	9916258920	shashankshankar10@g mail.com	Shashank Ravishankar & 1NH16ME749				Prof.	
IIOT-6	A SATISH KUMAR A	8892101352	asatishkumara8@gmail. com		A SATISH KUMAR A	& 1NH16ME704	Lakshminarasimha Prof.		
IIOT-7	Rohit K Singh	9980492675	rohitsingh108k@gmail. com		Rohith K Singh &	1NH16ME092	Prof. Santhosh (CSF)		
IIOT-8	Ajay Kumar K V	9663780635	ajaykumarkv54@gmail.	Ajay Kumar K V 1NH16ME008				Brof Delect V	
II0T-9	Manoj M		som	Manoi M & 1NH16ME056				rioi. Rajani K	
OT-10	Vijay Kumar			Vijay Kumar & 1NH16ME123				Prof. Rajani K Dr M S Ganesha Prasad	

Figure 2.29: Sample list of projects related to Industry 2019-2020

#### **D.** Process for monitoring and evaluation:

The progress of the project, both mini and major, is monitored on a weekely basis by the alloted project guides and the updation/ progress is given to the guide at the end of the week. Continuous assessment of the progess of the project is conducted through reviews. A total of three reviews are conducted in a semester for evaluating the progress of the project. The review committee consists of panel members identified by the Head of the Department. A time table is scheduled for reviewing the project presentations by the project coordinator. A sample of the project review timetable, with the reviewers is shown in Figure 2.30. The sample rubrics for allocating the marks is shown in Figure 2.31.

The projects will be evaluated based on

- Working principle, implementation methodology, design process of components, performance of the system, application of projects and futurescopes.
- Demonstration of the projectwork.
- Viva-Voce by panel of Experts.

Course: M Semester &	A ini-Project-1 & Section:4 & A	utonomous .	college affiliated Departm TIME TABLE F	to VTU, Accredited by NAAC with 'A' Ient of Mechanical Engin OR MINI-PROJECT PRESENTATION	Grade, Accredited by NBA Cering [Review-I]	Course Code: MEE47 Venue: M&M Lab
Date	Time	Batch Numbe r	No. of Candidate 8	USNs	Examiners	Signature (s)
	9:00am- 10:00am (20 minutes per batch)		1NH17ME017, 1NH17ME025, 1NH17ME032, 1NH17ME029		12.1	
		0:00am 0:00am 0 minutes er batch)	12	1NH17ME051, 1NH17ME048, 1NH17ME050,1NH18ME417	Prof. Ronald, Dr. Ashok Kumar, Prof. Nagendra,	qualitaria
				INH17ME060, 1NH17ME058, 1NH17ME013, 1NH17ME027	- Prof. Vinay	
11.1			6 12	1NH17ME056, 1NH17ME064, 1NH17ME062, 1NH17ME717	Prof. Ronald, Dr. Ashok Kumar, Prof. Nagendra,	Br Gulling
23-03-2019	10.00am-	10.00am- A4-A6 11.00am		1NH17ME063, 1NH17ME073, INH17ME080, INH17ME126		
(Saturday)	11.00am			1NH17ME014, 1NH17ME040, 1NH17ME057, 1NH17ME041	Prot. Villay	
		11.00am- 12.00pm A7-A9 11		1NH17ME019, 1NH17ME024 1NH17ME055	Prof. Ronald, Dr. Adhikary, Prof. Punith,	
	11.00am- 12.00pm		11	1NH17ME002, 1NH17ME008, 1NH17ME054, INH17ME712		pris , st
				1NH17ME046, 1NH17ME015, 1NH17ME045, 1NH17ME034	- FIGL Madnusidian	

Dean, Prot. & HoD-ME Dr. M.S. Ganasha Prasad Dean, Protessor & HOD-ME, 1 Iow Hortzon College of Engineering

Figure 2.30: Sample of project review timetable with examiners

atch	number : NEW HORIZON COLLES		RING			
em &	Section: DEPARTMENT OF MECH.	ANICAL ENGINE	ERING			
<u></u>	Rubrics for main / mi	ni project revie	w -1			
SL.	Particulars	Max marks	Marks obtained			
1	Scientific approach/technicality New Concept / New Technology -8 Marks Implementation New Techniques For Existing Concepts-5 marks Up Gradation Of Existed Concept/Technique-3 Marks Purpose/ Already Existed Concept-1 marks	8	100			
2	Knowledge in project selected area • Excellent 8 Marks • Good- 5 marks • Moderate-3 Marks • Poor-1 marks	8				
3	Ingenuity/Creativity <ul> <li>Highly Creative Thinking – 9 marks</li> <li>Moderate6 marks</li> </ul>	9				
	Low Creative Thinking - 3 marks     No Creativity1 marks	Remarks				1
	Rubrics for main / mi	ini project revie	ew -2			
4	Written Document/Report Pront Cover Pages And Certificate According To Guidelines- 1 marks Content Sheet And Abstract Format-1 marks Font Size And Margin -2 marks References In Project Report-1 marks Journal Papers Collected- 3 marks	8				
5	Visual Presentation— Ppt Background - 1 marks Side Format - 1 marks Explanation -2 marks Kage Utilization - 1 marks Cressing Sense/Behaviour-2 marks	7				
6	Viva - Technical response for questions- (5 marks * % of questions answered)	5		-		
2	Usefulness for society <ul> <li>very use full - 5 marks</li> </ul>	5				
7	limited applications in real time-3 marks     not applicable -1 mark	Remarks				
_	TOTAL MARKS	50			Reviewer (	s) Sign

Figure 2.31: Rubrics for project evaluation

Marks distribution for Review-1 and Review-2 is shown in Table 2.40. A pie Chart Representing the marks distribution is shown in Figure 2.32.

SI No.	Review	Particulars	Marks	Total
1	Review-1	Scientific approach/technicality	8	25
		Knowledge in project selected area	8	
		Ingenuity/Creativity	9	
2	Review-2	Written Document/Report	8	25
		Visual Presentation	7	
		Viva - Technical response for questions	5	
		Usefulness for society	5	
	Total			50

**Table 2.40:** Marks distribution for Review-1 and Review-2


Figure 2.32: A pie chart representing the marks distribution for Project Review 1 &

2

### E. Process to assess individual and team performance:

The individual and team performance of the project is assessed by the guides throughout the course of the semester. The evaluation of the individual members of the project teams is performed during the review process, by the panel members/ examiners. The performance of the individual is assessed through respective students' contribution towards the progress and completion of the project. The individual presentation skills of the student are also assessed. A sample of the individual marks allotted to the students for the project review-1for mini project is shown in Figure 2.33 (a) and major project is shown in 2.33 (b),conducted through off-line mode. The review-2 was conducted through online mode. Hence the marks were update through Google spread sheets. A sample of the individual marks allotted to the students for the projects is shown in Figure 2.34 (b) and major project is shown in Figure 2.34 (c), conducted through online mode.

iem i	& Section: VI A' DEPARTMENT OF MECH	IANICAL ENGINE	EERING	Sec. 1	1	- inte
	Rubrics for main / m	ini project revie	w-1			122
SL NO.	Particulars	Max marks	INHIZMECON	Marks of	tained	184 13 85 09
1	Scientific approach/technicality New Concept / New Technology -8 Marks Implementation New Technology -8 Marks Up Gradation Of Existed Concept/Technique-3 Marks Purpose/ Already Existed Concept-1 marks	8	68	03	08	03
2	Knowledge in project selected area • Excellent 8 Marks • Good-5 marks • Moderate-3 Marks • Poor-1 marks	8	08	01	07	01
	Ingenuity/Creativity <ul> <li>Highly Creative Thinking - 9 marks</li> </ul>	9	09	02	07	01
3	Moderateb marks     Low Creative Thinking - 3 marks     No Creativity1 marks	Remarks	specific, N	tose technic	Streeting,	as to be
	Rubrics for main / m	ini project revie	w-2			
4	Written Document/Report         • Front Cover Pages And Certificate According To Guidelines- 1 marks         • Content Sheet And Abstract Format-1 marks         • Font Size And Margin -2 marks         • References In Project Report-1 marks         • Journal Papers Collected-3 marks	8				
5	Visual Presentation— Ppt Background -1 marks Silde Format -1 marks Explanation -2 marks Stage Utilization -1 marks Dressing Sense/Behaviour-2 marks	7				
6	Viva - Technical response for questions- (5 marks * % of questions answered)	5				
7	Usefulness for society very use full - 5 marks limited applications in real time-3 marks	5				
	not applicable -1 mark	Remarks				-
	TOTAL MARKS	50			Reviewer (s) Sign	n

## Figure 2.33 (a): Sample of individual marks distribution for mini-project (Review-1)

	DEPARTMENT OF MECH	ANICAL ENGIN	EERING				
	Rubrics for main / mi	ni project revie	ew -1				
SI.	Particulars	Max marks		Marks ob	Marks obtained		
1	Scientific approach/technicality Vew Technology -8 Marks Implementation New Technology -8 Marks Up Gradation Of Existed Concept/Technique-3 Marks Up Gradation Of Existed Concept/Technique-3 Marks Purpose/ Already Existed Concept-1 marks	8	06	05	06	04	
2	Knowledge in project selected area • Excellent 8 Marks • Good-5 marks • Moderate-3 Marks • Poor-1 marks	8	08	05	08	05	
	Ingenuity/Creativity	9	06	03	06	03	
3	Moderate-6 marks     Low Creative Thinking - 3 marks     No Creative Thinking - 3 marks	Remarks	Adviced to m	cet guide rej	whenly & tax	Le Suggestion	
	Rubrics for main / min	ni project revie	w -2				
4	Written Document/Report Front Cover Pages And Certificate According To Guidelines- 1 marks Content Sheet And Abstract Format-1 marks Font Size And Margin -2 marks References In Project Report. 1 marks Journal Papers Collected- 3 marks	. 8					
5	Visual Presentation—  Ppt Background -1 marks  Slide Format -1 marks  Explanation -2 marks  Stage Utilization -1 marks  Dressing Sense/Behaviour-2 marks	7		Phil 1			
6	Viva - Technical response for questions- (5 marks * % of questions answered)	5					
,	Usefulness for society • very use full - 5 marks • limited applications in real time-3 marks	5 Bomarke					
1	not applicable -1 mark	Remarks		1			

Figure 2.33(b): Individual marks distribution for major-project -Sample (Review-1).

~		<b>5 7</b> 100%	6 <b>▼ £ % .0 .00</b>	123 - Default (Ca	10 - B Z -	· A   � 田 팬 - 트 - 브 - 번 - ଡ - e		
ĺ	A	В	С	D	E	F	G	Н
			New horizon co	llege of engineering				
			Department of M	echanical Engineering				
			MINI PROJECT N	VIARKS LIST OF 4th A				
			even se	mester 2020				
			Review- m	arks (4.5.2020)				
;	SL NO	Batch number	Guide name	students name	USNs of Students	title of the project	Review-2 marks out of 25	Remarks
				Alwin Paul A	1NH18ME001		22	
	1		Ravikumar M	Binu brightB	1NH18ME025		24	
	•	A-1		Hemanth V	1NH18ME046	Study of Hybrid wind mill	21	
_				Hrithik E	1NH18ME047		21	
				Justin George	1NH18ME052	_	24	
	2	A-6		Karan Matai	1NH18ME055		24	
	-			Kiran Naik	1NH18ME057		24	
_			Vinod Kumar G S	Nikitha A	1NH18ME128	Bomb diffuser using robotic arm	24	
				Chethan E	1NH18ME030	_	16	
	3	A-10	Pavan Kadole	Adithyan	1NH18ME010	_	15	
				Kishan H	1NH18ME058	_	15	
-				Basavaraj S	1NH18ME024	Study of Impact of Global warming on Earth and solutions	15	
				Sirus J	1NH18ME048		20	

# Figure 2.34 (a):Individual marks distribution for mini-project-Sample (Review-2).

	6A File	MINI PROJE Edit View	CT REVIEW 2 MARKS Insert Format Data Tool	☆ & ⊘ s Add-ons Help <u>Laster</u>	<u>dit was seconds a</u>	<u>10</u>		🗏 🛔 Share
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fx								
	A	В	C	D	E	F	G	
1			New horizon college	of engineering				
2			Department of Mecha	nical Engineering				
3			MINI PROJECT MAR	KS LIST OF 6 A				
4			even semeste	er 2020				
5			Review-2 marks	(4.5.2020)				
6	SL NO	Batch number	Guide name	students name	USNs of Students	title of the project	Review-2 marks out of 25	Remarks
7				Balaji	1NH17ME014		23	
8	1	1 A4	Ravikumar M	Murali krishnan M	1NH17ME056	_	25	completed ansys analysis
9	1 A4	nevinurildi IVi	Nibin K R	1NH17ME062	_	24		
10				Nikhil R	1NH17ME064	Design and Fabrication of Robotic arm vehicle	25	
11				Deepak lawrance	1NH17ME027	_	22	Partial Fabrication done
12	,	A11		Nandish V	1NH17ME058	_	23	
13	- T			Bharath Chandra	1NH17ME016	_	22	
14			Kamalasish Deb	Halale Ganesh	1NH18ME404	Design and Fabrication of Prototype Kitchen Composte Bin	21	
15				Lalan Kr. Mahaseth	1NH17ME044	-	23	Report completed and F
16	3	A14	Dr. Gopala Krishnan K.	Amith Kr. Yadav	1NH17ME007	-	23	Report completed and F
17			,	Zahid Ahmad Wagay	1NH17ME134	-	23	Report completed and F
18				Danish Abas Naikoo	1NH17ME026	Modification of Abdominal guard by using Kevlar	22	Report completed and F
19				Akhil suresh	1NH17ME005	4	23	Integration of circuit and t
20	4	4 A8		Jubal C bavan	1NH17ME037	4	23	Coolant test results are pe
21	4 Að		Ashwin s m	1NH17ME012	4	23	Onboard online monotori	
22		1	Dr Nagendra I	Keerthan R	1NH17ME042	Design of lot based coolant monitoring system	23	Analysis and optimization



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fx	New ho	orizon college of	engineering					
	A	В	C	D	E	F	G	
1			New horizon college	of engineering				
2			Department of Mecha	nical Engineering				
3			PROJECT MARKS	LIST OF 8A				
4			even semest	er 2020				
5			Review-2 marks	(8.5.2020)	<b>.</b>			
6	SL NO	Batch number	Guide name	students name	USNs of Students	title of the project	Review-2 marks out of 25	Inte
7		Amaresh Sateesh 1NH16ME010			25			
8	1	A1	Dr. M.S. Ganesha Prasad, Dean, Anandhu K.R. 1NH16ME011 Minimal Powered Tube Bending Machine for Coolant Pipes And Green House Heat		25			
9	1		Dr.Gopal.K	Anandhu K.K. INHIBMEUII Minimal Powered Tube Bending Machine for Coolant Pipes And Green House Heat C.M. Yashassu INHIGME021 Radiators.		25		
10				Kusshal A	1NH16ME044		25	
- 11				Basavraj kumar B V	1NH16ME018		23	
12	,	A2	Ravikumar M	Madhan kumar V G	1NH16ME050	Design and Fabrication of solar powered convective fruit dryer	23	
13	-			Manoj Gowda T C	1NH16ME055		23	
14				Ajay Kumar V	1NH17ME401		23	
15				Srevarun S	1NH16ME093		24	
16	,	42	Sudarshan T.A	Abhishek	1NH16ME003	Design and Fabrication of Semi Automatic vertical axis wind turbine for power	24	
17		~	Suddishuir FR	Ganesh S	1NH16ME028	generation and irrigation	23	
18				Nithish N 1NH16ME068	23			
19				Ajay Kumar KV	1NH16ME008		25	
20	4 A4	44	MEGHA SHUKIA	Hari Prasad J	1NH16ME034	INCREASING THE PERFORMANCE OF EXSISTING IC ENGINES BY FREE VALVE	23	
21			MESTIN SHOKEN	Likith RS	1NH16ME045	ACTUATION TECHNOLOGY	23	*
22				Mahesh KR	1NH16ME052		23	▼ + →

Figure 2.34 (c):Individual marks distribution for major-project-Sample (Review-2).

## F. Quality of completed projects/working prototypes:

The quality of the completed projects is identified based on the funds received by the projects from various student project funding agencies such as Karnataka State Council for Science and Technology (KSCST). Projects of high quality and excellence are also applied for patents with the Govt. of India. The list of projects supported by KSCST for the academic year 2019-2020, 2018-2019 and 2017-2018 is shown in Table 2.41 Table 2.42 and Table 2.43. The allotment order for the academic year 2019-2020, 2018-2019 and 2017-2018 is shown Figure 2.35, Figure 2.36, and Figure 2.39. The selection order for the projects short listed for exhibition and seminar is shown in Figure 2.37 and Figure 2.38.

Sl No.	Project Reference No.	Student List	Guide	Title	Fund Received
1.	43S_BE_0046	Mr. Shivaprasad S Mr. Sammed Patil Mr. Shreekrishna Mr. Srivathsa S	Dr. Nagendra J	Artificial Intelligence Enabled Coolant Monitoring System	Rs. 5500/-
2.	438_BE_0053	Mr. Tejas Nandan Mr. KamaleshMahato Mr. Kaushik Kujur Mr. Ram Bikash Mandal	Dr. Manjunatha G.	Fabrication of Nano Filtered Based Exhaust System to Reduce Emission in Two Wheelers.	Rs 6000/-
3.	43S_BE_0065	Mr. P. Sai Sri Raj Mr. Raghav V Rao Mr. MahiteshGowd Mr. Appu R Krishnan	Dr. M.S. Ganesha Prasad	Design and Fabrication <u>Of</u> Solar Powered Low Altitude Short Endurance Drone	Rs 6000/-

# Table 2.41: List of projects supported by KSCST (2019-2020)

#### KARNATAKA STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

Indian Institute of Science campus, Bengaluru – 560 012 Website: http://www.kscst.iisc.ernet.in/spp.html || Email: spp@kscst.iisc.ernet.in || Phone: 080-23600978

# 43<sup>rd</sup> Series of Student Project Programme: 2019-20

#### LIST OF STUDENT PROJECT PROPOSALS APPROVED FOR SPONSORSHIP

#### 100) NEW HORIZON COLLEGE OF ENGINEERING, BENGALURU

561.	43S_BE_0003	THEFT IDENTIFICATION & ALERT THROUGH MOTION DETECTION AND FACIAL RECOGNITION USING IOT	COMPUTER SCIENCE AND ENGINEERING	B.E.	STREAM A	Prof. GAGAN S PURAD	Mr. NASIR HASAN DILAWAR Mr. KRISHNA VINEETH P Mr. NITHINDRA D	5000.00
562.	43S_BE_0030	DESIGN AND DEVLEOPMENT OF VARIABLE FREQUENCY ULTRASONIC PEST REPELLER	ELECTRICAL AND ELECTRONICS ENGINEERING	B.E.	STREAM A	Dr. SUJITHA S	Mr. PIYUSH KUMAR Ms. PREETHI SINHA Ms. LISHA REDDY	3000.00
563.	43S_BE_0046	ARTIFICIAL INTELLIGENCE ENABLED COOLANT MONITORING SYSTEM	MECHANICAL ENGINEERING	B.E.	STREAM A	Dr. NAGENDRA J	Mr. SHIVAPRASAD S Mr. SAMMED PATIL Mr. SHREEKRISHNA Mr. SRIVATHSA S	5500.00
564.	43S_BE_0053	FABRICATION OF NANO FILTERED BASED EXHAUST SYSTEM TO REDUCE EMISSION IN TWO WHEELERS	MECHANICAL ENGINEERING	B.E.	STREAM A	Dr. MANJUNATHA G.	Mr. TEJAS NANDAN Mr. KAMALESH MAHATO Mr. KAUSHIK KUJUR Mr. RAM BIKASH MANDAL	6000.00
565.	43S_BE_0065	DESIGN AND FABRICATION OF SOLAR POWERED LOW ALTITUDE SHORT ENDURANCE DRONE	MECHANICAL ENGINEERING	B.E.	STREAM A	Dr. M.S. GANESHA PRASAD	Mr. P. SAI SRI RAJ Mr. RAGHAV V RAO Mr. MAHITESH GOWD Mr. APPU R KRISHNAN	6000.00
566.	43S_BE_2692	SSWWTS-7 A COST EFFECTIVE GREEN APPROACH FOR WASTEWATER TREATMENT	BIOTECHNOLOGY	B.E.	STREAM A	Dr. H ANANDA VARDHAN Dr. AHSA B M	Ms. SHILADITYA BANERJEE Ms. SINCHAN HAIT	6500.00
567.	43S_BE_2699	ಮಾನಸಿಕ ಆರೋಗ್ಯ: CHATBOT FOR MONITORING MENTAL HEALTH	INFORMATION SCIENCE AND ENGINEERING	B.E.	STREAM A	Dr. R J ANANDHI Dr. SARAVANAN	Mr. MANOJ Ms. PRATHYAKSHA SHARMA Ms. SINDHU K S	4500.00
568.	43S_BE_2702	SMART GLASSES FOR VISUALLY CHALLENGED PEOPLE	INFORMATION SCIENCE AND ENGINEERING	B.E.	STREAM A	Dr. P. MANGAYARKARASI	Mr. SUNIL K A Mr. PRAMOD SENCHA N Mr. MUHAMMAD SHAHBAZ KHAN	4500.00
569.	43S_BE_2710	<b>ട്യപ്പ് ട് എറ്റങ്ങ ഡാര്യ</b> - <b>"B</b> LUETOOTH EMBEDDED ROBOTIC WITH AGRICULTURE PLOWING, SEEDING AND GRASS CUTTING POWERED BY SOLAR ENERGY	INFORMATION SCIENCE AND ENGINEERING	B.E.	STREAM A	Mrs. A.RAFEGA BEHAM Dr. R.J.ANANDHI	MS. MANISHA SAMAL MS. SAKTHI SRIDEVI MS. ASHA K	4500.00

KSCST: 43<sup>rd</sup> Series of Student Project Programme : Sanctioned Projects

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## Figure 2.35: Screen shot of the project fund sanctioned by KSCST (2019-2020)

C1	Project				Fund
	Reference	Team Leader	Guide	Title	Tunu Decision
INO.	No.				Received
1	42S BE 1084	Mr. Himalava	Prof. Kamalashish	To Design and Fabricate A Machine to Clean	Rs. 7000/-
		Bhatta	Deb	the Slope Surfaces in Step Farming With Proper	
2	425 BE 1089	Mr Bishak	Prof Vinay D R	Design and Eshrication of Solar Powered	Rs 7000/-
-	120_222_1000	Noth	1101. (111) D 10	Floating Waste Collector	10. 1000
2	439 88 1007	Mr. Arinash	Drof Donald	Inculing Waste Contector	Pr 6000/
3	423_BB_1097	Mr. Avinasn	Prot. Ronald	Devices and Wiston Cooling	KS. 0000/-
		Vishwakarma	Reagon	Devices and Water Cooling	D. (2000)
4	425_BE_1098	Mr. Dup	Mr. Kartnik S.N	Effect of Heat Treatment on Mechanical	KS. 0000/-
		Kumar T		Properties Of Cu30ni5zn (Copper, Nickel (30%)	
				And Zinc (5%) Alloys	
5	42S_BE_1099	Mr. Sure	Prof. Pavan. P.	Design and Fabrication of Multipurpose	Rs. 6500/-
		Srinivasulu	Kadole	Machine for Agricultural Purpose	
6	42S_BE_1100	Mr.	Mr. Hanamath Y	Design and Fabrication of Automatic Vacuum	Rs. 6000/-
		Keerthisagar S		Operated Chalk Dust Collector.	
		Reddy			
7	42S_BE_1104	Mr.	Prof. Raghu Tilak	Fabrication Of 3 Axis Pneumatic Trailer Lift	Rs. 6000/-
		Mohammed	Reddy M.		
		Riyaz			
8	42S_BE_1105	Mr. Navnath	Prof. Chetan	Design and Fabrication Of Separation of Waste	Rs. 5000/-
			Kumar D.S.	Garbage Using Smart Crusher	
9	42S_BE_1106	Mr. John Paul	Mr. Manjesh	Hybrid Solar Windmill	Rs. 6000/-
		Raj S			
10	42S_BE_1107	Mr. Tejas M.	Prof. Veeresha G.	Fabrication of Automatic Sewage Cleaning	Rs. 7000/-
				Machine	
11	42S_BE_1643	Mr. Rohith	Mr. Puneeth H V	Design, Analysis and Rapid Prototyping of	Rs. 5500/-
		Chandrasekar		Instrumentation Probe for Aero Engine	
				Application	
12	42S BE 1644	Mr. Abhay A	Prof. Bonanna K	Design and Utilization Of Solar Induced	Rs. 6000/-
		Dai	D	Convertive Flow For Dower Generation Using	
			-	Solar Undraft Towar	
1				Some operate rower	

 Table 2.42: List of projects supported by KSCST (2018-2019)

#### KARNATAKA STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

Indian Institute of Science Campus, Bengaluru – 560 012 Website: http://www.kscst.iisc.ernet.in/spp.html || Email: spp@kscst.iisc.ernet.in || Phone: 080-23600978

#### 42<sup>nd</sup> Series of Student Project Programme: 2018-19 List of Projects Sanctioned Under Stream C

	77. NEW I	HORIZON COLLEGE OF ENGINEERING, BENGALURU					
SI. No.	PROJECT REFERENCE NO.	PROJECT TITLE	BRANCH	DEGREE	NAME OF THE GUIDE	NAME OF THE TEAM LEADER	TOTAL (in Rs.)
1.	42S_BE_1084	TO DESIGN AND FABRICATE A MACHINE TO CLEAN THE SLOPE SURFACES IN STEP FARMING WITH PROPER FINISH.	MECHANICAL ENGINEERING	BE	Prof. KAMALASHISH DEB	Mr. HIMALAYA BHATTA	7000.00
2.	42S_BE_1089	DESIGN AND FABRICATION OF SOLAR POWERED FLOATING WASTE COLLECTOR	MECHANICAL ENGINEERING	BE	Prof. VINAY D R	Mr. BISHAK NATH	7000.00
3.	42S_BE_1097	INSULIN STORAGE FREEZER USING THERMOELECTRIC DEVICES AND WATER COOLING	MECHANICAL ENGINEERING	BE	Prof. RONALD REAGON	Mr. AVINASH VISHWAKARMA	6000.00
4.	42S_BE_1098	EFFECT OF HEAT TREATMENT ON MECHANICAL PROPERTIES OF Cu30Ni5Zn (COPPER, NICKEL (30%) AND ZINC (5%) ALLOYS	MECHANICAL ENGINEERING	BE	Mr. KARTHIK S.N	Mr. DILIP KUMAR T	6000.00
5.	42S_BE_1099	DESIGN AND FABRICATION OF MULTIPURPOSE MACHINE FOR AGRICULTURAL PURPOSE	MECHANICAL ENGINEERING	BE	Prof. PAVAN.P.KADOLE	Mr. SURE SRINIVASULU	6500.00
6.	42S_BE_1100	DESIGN AND FABRICATION OF AUTOMATIC VACUUM OPERATED CHALK DUST COLLECTOR.	MECHANICAL ENGINEERING	BE	Mr. HANAMATH Y	Mr. KEERTHISAGAR S REDDY	6000.00
7.	42S_BE_1104	FABRICATION OF 3 AXIS PNEUMATIC TRAILER LIFT	MECHANICAL ENGINEERING	BE	Prof. RAGHU TILAK REDDY M.	Mr. MOHAMMED RIYAZ	6000.00
8.	42S_BE_1105	DESIGN AND FABRICATION OF SEPRATION OF WASTE GARBAGE USING SMART CRUSHER	MECHANICAL ENGINEERING	BE	Prof. CHETAN KUMAR D.S.	Mr. NAVNATH	5000.00
9.	42S_BE_1106	HYBRID SOLAR WINDMILL	MECHANICAL ENGINEERING	BE	Mr. MANJESH	Mr. JOHN PAUL RAJ S	6000.00
10.	42S_BE_1107	FABRICATION OF AUTOMATIC SEWAGE CLEANING MACHINE	MECHANICAL ENGINEERING	BE	Prof. VEERESHA G.	Mr. TEJAS M.	7000.00
11.	42S_BE_1643	DESIGN, ANALYSIS AND RAPID PROTOTYPING OF INSTRUMENTATION PROBE FOR AERO ENGINE APPLICATION	MECHANICAL ENGINEERING	BE	Mr. PUNEETH H V	Mr. ROHITH CHANDRASEKAR	5500.00
12.	42S_BE_1644	DESIGN AND UTILIZATION OF SOLAR INDUCED CONVECTIVE FLOW FOR POWER GENERATION USING SOLAR UPDRAFT TOWER	MECHANICAL ENGINEERING	BE	Prof. BOPANNA K D	Mr. ABHAY A PAI	6000.00

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Figure 2.36: Screen shot of the project fund sanctioned by KSCST (2018-2019)

KSCST: 42<sup>nd</sup> Series of Student Project Programme : Stream C : List of Projects Sanctioned : 2018 - 2019

#### KARNATAKA STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

Indian Institute of Science Campus, Bengaluru – 560 012

Website: http://www.kscst.iisc.ernet.in/spp.html || Email: spp@kscst.iisc.ernet.in || Phone: 080-23600978

#### STUDENT PROJECTS PROGRAMME: 42<sup>nd</sup> SERIES – STATE LEVEL SEMINAR AND EXHIBITION

#### List of Projects Selected for State Level Seminar and Exhibition (S&E) to be held at

K.L.E. Dr. M.S. Sheshgiri College of Engineering and Technology, Udyambag, Belagavi on 26<sup>th</sup> and 27<sup>th</sup> July 2019

SI.	PROJECT	PROJECT TITLE	BRANCH	NAME OF THE	NAME OF THE CO-GUIDE	NAME OF THE TEAM LEADER	NAME OF THE STUDENT 2	NAME OF THE STUDENT 3	NAME OF THE STUDENT 4	SEMINAR
NO.	NO.			- COLOR	00.00052		0100Ellin E	01002.1110	01002.1114	EXHIBITION
215.	42S_BE_1071	GUNDIGALA PATTE HACCHUVIKE' - ANDROID BASED APPLICATION TO DETECT POTHOLES AND UNEVEN ROADS IN THE BENGALURU	INFORMATION SCIENCE AND ENGINEERING	Dr. R J ANANDHI	-	Mr. ROSHAN KUMAR GUPTA	Mr. ANIRUDH PANCHANGAM	Mr. PREETHAM R	-	EXHIBITION
216.	42S_BE_1099	DESIGN AND FABRICATION OF MULTIPURPOSE MACHINE FOR AGRICULTURAL PURPOSE	MECHANICAL ENGINEERING	Prof. PAVAN.P.KADOL E	-	Mr. SURE SRINIVASULU	Mr. AKSHAY B N	Mr. CHARAN REDDY S	Mr. MOHAN V	EXHIBITION
217.	42S_BE_1104	FABRICATION OF 3 AXIS PNEUMATIC TRAILER LIFT	MECHANICAL ENGINEERING	Prof. RAGHU TILAK REDDY M.	-	Mr. MOHAMMED RIYAZ	Mr. DINESH KUMAR L.	Mr. NAGARAJ S.	Mr. TAYYAB MASOOD	SEMINAR
218.	42S_BE_1654	PLASTIC WASTE MANAGEMENT USING MICRO ALGAL INTEGRATED PYROLYTIC BIOREACTOR	BIOTECHNOLOGY	Dr. ASHA B M	Dr. H ANANDA VARDHAN	Ms. ANKITHA JOHNAS	Ms. ANISHA ABBEY	Mr. ARSAP SHRESTHA		SEMINAR
219.	42S_BE_3098	DEVELOPMENT OF UNDERWATER REMOTELY OPERATED VEHICLE FOR DROWNED HUMAN BODY DETECTION	ELECTRONICS AND COMMUNICATION ENGINEERING	Mr. NAVEEN H	-	Mr. PRASANNA KUMAR D	Mr. Mohan Kumar V	Mr. DILIP KUMAR R	-	EXHIBITION

64. NEW HORIZON COLLEGE OF ENGINEERING, BENGALURU

Note:

• You are requested to send the hard bound copy of the project report along with softcopy of the full report in a CD in PDF format.

Any corrections with respect to Guide and Students name, kindly send an email regarding the same to spp@kscst.iisc.ernet.in.

KSCST: 42<sup>nd</sup> Series of Student Project Programme (SPP) : State Level Seminar and Exhibition : 2018 - 19

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Figure 2.37: Selection order for projects selected for exhibition and seminar

#### KARNATAKA STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

Indian Institute of Science Campus, Bengaluru – 560 012 Website: http://www.kscst.iisc.ernet.in/spp.html || Email: biofuelcell.kscst@gmail.com || Phone: 080-23600978

STUDENT PROJECTS PROGRAMME (BIOFUEL/BIOENERGY PROJECTS): 42<sup>nd</sup> SERIES – STATE LEVEL SEMINAR AND EXHIBITION

List of Biofuel/Bioenergy Projects Selected for State Level Seminar and Exhibition (S&E) to be held at K.L.E. Dr. M.S. Sheshgiri College of Engineering and Technology, Udyambag, Belagavi on 26<sup>th</sup> and 27<sup>th</sup> July 2019

16	16. NEW HORIZON COLLEGE OF ENGINEERING, BENGALURU										
SI. PROJECT PROJECT TITLE PROJECT TITLE			BRANCH	NAME OF THE GUIDE	NAME OF THE CO-GUIDE	NAME OF THE TEAM LEADER	NAME OF THE STUDENT 2	NAME OF THE STUDENT 3	NAME OF THE STUDENT 4	SEMINAR OR EXHIBITION	
19.	42S_B_BE_010	DESIGN AND DEVELOPMENT ON CONVERSION OF LDPE (LOW-DENSITY POLYTHYLENE) PLASTIC WASTE INTO LIQUID FUEL BY SEQUENTIAL PYROLYSIS TECHNIQUE	MECHANICAL ENGINEERIN G	Dr. M S GANESHA PRASAD	Prof. RAKESH C	Mr. S AKILESH	Mr. SHIVA KUMAR B R	Mr. Shivaraj Kumbar	Mr. VINUTH KUMAR	SEMINAR	

Note:

You are requested to send the hard bound copy of the project report along with softcopy of the full report in a CD in PDF format.

Any correction with respect to Guide and students name, kindly send an email regarding the same to <u>biofuelcell.kscst@gmail.com</u>

KSCST: 42<sup>nd</sup> Series of Student Project Programme Biofuel / Bioenergy Projects (SPP) : State Level Seminar and Exhibition - 2018 - 19

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#### Figure 2.38:Selection order for projects selected for exhibition and seminar

SI No.	Project Reference No.	Team Leader	Guide	Title	Fund Received
1	41S_BE_0052	Mr. Samrat Banerjee	Dr. M.S. Ganesha Prasad	Augmenting the Life of Polymer Material Used In 3D Printers by Using Reinforced Polymer Material In FDM Technology	Rs. 6000/-
2	41S_BE_0056	Mr. Sudharshan T S	Prof. Nagendra Jayaram	Smart Conveyance for Physically Challenged People	Rs. 6000/-
3	41S_BE_0062	Mr. Ganesh Kumar C	Prof. Bopanna K. D	Design and Fabrication of An Artificial Leg Mechanism for Above Knee Amputees	Rs. 7000/-
4	41S_BE_0066	Mr. H. Hitesh	Mr. Sujeeth Swami	Design and Fabrication of Portable Solar Operated Water Purification Unit	Rs. 7000/-
5	41S_BE_0075	Mr. Dijin Mathew	Prof. Vinayak B	Design and Fabrication of a Tadpole Model Solar Powered Tricycle	Rs. 7000/-
6	41S_BE_0078	Mr. Raman Sharma	Prof. Vinod Kumar G S	Design and Development of Human Arm Exoskeleton	Rs. 6000/-

**Table 2.43:** List of projects supported by KSCST (2017-2018)

#### KARNATAKA STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

Indian Institute of Science Campus, Bengaluru – 560 012

Website: http://www.kscst.iisc.ernet.in/spp.html || Email: spp@kscst.iisc.ernet.in || Phone: 080-23600978

#### LIST OF PROJECTS SANCTIONED UNDER THE 41<sup>ST</sup> SERIES OF STUDENT PROJECT PROGRAMME: 2017-18

SI. No.	PROJECT REFERENCE NO.	PROJECT TITLE	BRANCH	DEGREE	NAME OF THE GUIDE	NAME OF THE TEAM LEADER	SANCTIONED AMOUNT (in Rs.)
312.	41S_BE_0052	AGUMENTING THE LIFE OF POLYMER MATERIAL USED IN 3D PRINTERS BY USING REINFORCED POLYMER MATERIAL IN FDM TECHNOLOGY	MECHANICAL ENGINEERING	BE	Dr. M.S. GANESHA PRASAD	Mr. SAMRAT BANERJEE	6000.00
313.	41S_BE_0056	SMART CONVEYANCE FOR PHYSICALLY CHALLENGED PEOPLE	MECHANICAL ENGINEERING	BE	Prof. NAGENDRA JAYARAM	Mr. SUDHARSHAN T S	6000.00
314.	41S_BE_0062	DESIGN AND FABRICATION OF AN ARTIFICIAL LEG MECHANISM FOR ABOVE KNEE AMPUTEES	MECHANICAL ENGINEERING	BE	Prof. BOPANNA K D	Mr. GANESH KUMAR C	7000.00
315.	41S_BE_0066	DESIGN AND FABRICATION OF PORTABLE SOLAR OPERATED WATER PURIFICATION UNIT	MECHANICAL ENGINEERING	BE	Mr. SUJEETH SWAMI	Mr. H. HITESH	7000.00
316.	41S_BE_0075	DESIGN AND FABRICATION OF A TADPOLE MODEL SOLAR POWERED TRICYCLE	MECHANICAL ENGINEERING	BE	Prof. VINAYAK B	Mr. DIJIN MATHEW	7000.00
317.	41S_BE_0078	DESIGN AND DEVELOPMENT OF HUMAN ARM EXOSKELETON	MECHANICAL ENGINEERING	BE	Prof. VINOD KUMAR G S	Mr. RAMAN SHARMA	6000.00
318.	41S_BE_0670	USE OF BIO-LUBRICANTS IN ATV	AUTOMOBILE ENGINEERING	BE	Mr. K.A.JAYASHEEL KUMAR	Mr. SURESH G S	5000.00
319.	41S_BE_0674	REPLACEABLE DIESEL PARTICULATE FILTER	AUTOMOBILE ENGINEERING	BE	Mr. GIRISH TILAK	Mr. SRIRAM IYER	7000.00

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KSCST : 41st Series of Student Project Programme : List of Projects Sanctioned : 2017 - 2018

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Figure 2.39: Screen shot of the project fund sanctioned by KSCST (2017-2018)

Projects of higher quality have been applied for patents. Patents have also been filed for research projects undertaken by student research teams. The list of patents applied is shown in Table 2.44.

Table 2.43: List of	patents	applied on	student	projects

SI.	Patent De	tails	Jurisdiction/	/ Inventors' Name		Year
No	Title of Patent/Discovery	Patent No./ Patent Application Number	Published in Indian Patent Journal/ Published Date	Faculty Members	Students	
1	Design and Fabrication of Autonomous Lubrication of Chain	E-2/1422/2017- CHE and Application No. 201741018085 Dt.23.05.2017	India No. 48/2018 Dt. 30/11/2018	Dr. Manjunatha, Dr. M S Ganesha Prasad, Rakesh C, , Dr. Shirdhar Kurse, Puneeth. H.V, Bopanna. K.D	Vikas Kumar, Utkarsh Singh, Pappu Saha, Saroj Kumar	2017
2	Design and Development of Electric Powerless Refrigerator	E-2/1423/2017- CHE and Application No. 201741018086 Dt.23.05.2017	India No. 48/2018 Dt. 30/11/2018	Dr. Manjunatha Dr. M S Ganesha Prasad Ronald R Reagon Lohith. N Madhusudhan, Santhosh	Arshad Ayub, Khaiser Ahmed Mohammed Sufiyan S Abdul Samadh M.N	2017
3	Combined Solar and Wind Energy Water Pumping System	E-2/1419/2017- CHE and Application No. 201741018082 Dt.23.05.2017	India No. 48/2018 Dt. 30/11/2018	Dr. Manjunatha Dr. M S Ganesha Prasad, Rajesh. A, Shivaprakash. S, Hanamanth. Y, Kamalashish Deb	Francis Evans, Kumar Ankit, Deepti, S. Vishanth	2017

4	Design and Fabrication of Solar Powered Bicycle	E-2/1418/2017- CHE and Application No. 201741018081 D1.23.05.2017	India No. 48/2018 Dt. 30/11/2018	Dr. Manjunatha, Dr. M S Ganesha Prasad, Bopanna K.D., , Ronald Regan, Raghu Tilak Reddy	Jebin Koshy Sabu, Dilshad Davood, Shabaz Zaheer, Joby James	2017
5	Novel Method for Conversion of Waste Plastic into Fuel	E-2/1416/2017- CHE and Application No. 201741018079 Dt.23.05.2017	India No. 48/2018 Dt. 30/11/2018	Dr. Manjunatha, Dr. M S Ganesha Prasad, Rakesh C , Puneeth, H.V Karthik, Megha Shukla	Siddarth Dinesh, Mohnish Raj D, Markose, Sandeep Ramesh	2017
6	System and Method for Exo Skeleton for Lower Limb	E-2/1414/2017- CHE and Application No. 201741018077 D1.23.05.2017	India No. 48/2018 Di. 30/11/2018	Dr. Manjunatha, Dr. M S Ganesha Prasad, Rakesh C , Puneeth. H.V, Bopanna.KD, Nagabhushana.N	S.M.Danish, Shivam, Harish Kumar Yadav, Atinder Pal Singh	2017
7	Multi Parpose Agricultural Robot	E-2/1424/2017- CHE and Application No. 201741018087 D1.23.05.2017	India No. 48/2018 Dt. 30/11/2018	Dr. Manjunatha, Dr. M S Ganesha Prasad, Shivaprakash. S , Sujeeth	Chetan Kumar S, Tarihal Nandeesh P, Naveen M Vineet K Gokhale	2017
8	Design of CNC Based Maintenance and Safety System for High Rise Buildings	E-2/2725/2017- CHE and Application No. 201741032343 D1.13.09.2017	India No. 11/2019 D1. 15/03/2019	Dr. Manjunatha Dr. M S Ganesha Prasad Rakesh C,	Baldev Raj C Aakash Murthy, Anwin TV Joseph, Jerry Sabore	2017
9	Development of Three Wheel Handicapped Steering Propulsion Cycle	E-2/2729/2017- CHE and Application No. 201741032347 D1.13.09.2017	India No. 11/2019 Dt. 15/03/2019	Dr. Manjanatha Dr. M S Ganesha Prasad Srinath M.K.	Mahesh S Praveen Kumar H.M, Satish.M	2017
10	GSM Controlled Multi- Purpose Agricultural Robot	E-2/2731/2017- CHE and Application No. 201741032347 D1.13.09.2017	India No. 11/2019 Dt. 15/03/2019	Dr. Manjanatha, Dr. M S Ganesha Prasad Shivaprakash S	Mohammed Sabir Chitwadgi Nurul Islam, Mohan Sharma Sandeep Sharma	2017
11	Fresnel Lens and Thermoelectric Module Aided Solar Desalination Unit D1.13.09.2017	E-2/2732/2017- CHE and Application No. 201741032350	India No. 11/2019 D1. 15/03/2019	Dr. Manjunatha Dr. M S Ganesha Prasad Rakesh C,	Charan Nallode Adhvaith M, AH.Akshay Krishna	2017
12	Novel Ergonomic Industrial Seating Support	E-2/2728/2017- CHE and Application No. 201741032346 D1.13.09.2017	India No. 11/2019 D1. 15/03/2019	Dr. Manjunatha Dr. M S Ganesha Prasad Puneeth H V,	Sachin Pamadinni, N Sreevathasa Charan Nallode	2017
13	Design and Optimization of Lever Propelled All- Terrain Wheelchair	E-2/2724/2017- CHE and Application No. 201741032342 D1.13.09.2017	India No. 11/2019 D1. 15/03/2019	Dr. Manjunatha Dr. M S Ganesha Prasad Ronald Reagon,	Abhash Singh, Anuraj Joshi, Abhinav Anand, Charan Nallode	2017
14	Automatic Drain Cleaning Machine	E-2/2734/2017- CHE and Application No. 201741032350 D1.13.09.2017	India No. 11/2019 Dt. 15/03/2019	Dr. Manjunatha Dr. M S Ganesha Prasad Ravikumar M,	Brij Kishor Yadav, Tariq Hussain Gaurishankar, Suresh V B	2017
15	Flexible Fixture for Towing	E-2/2730/2017- CHE and Application No.	India No. 11/2019 Dt.	Dr. Manjunatha Dr. M S Ganesha Prasad	Parameshwar Chandan Sah, Dipak Tiwari	2017

					Mr. Amir Sohil	
26	Novel System, Method and Design and Fabrication of Manual and Automated System for Hydroponic Fodder	E-2/1141/2018- CHE and Application No. 201841013785 D111.04.2018	India 42/2019 Di 18/10/2019	Mr. Ravi Kumar M	Mr. Ancesh Gopal Mr. Krishna Maruthi Mr. Naga Chowdary Mr. Umakanth B S	2018
27	Novel System, Method of Design and Development of Eco-Friendly Refrigeration System.	E-2/1142/2018- CHE and Application No. 201841013786 D111.04.2018	India 42/2019 Dt 18/10/2019	Mr. Ronald Reagon R	Mr. Karthigayan R M Mr. Mahiboobu Mr. Manjunath Yelde Mr. Manoj	2018
28	A Study on Power Generation from Fluid Flowing Through Pipes.	E-2/1143/2018- CHE and Application No. 201841013787 D111.04.2018	India 42/2019 Dt 18/10/2019	Mr. Rakesh C	Mr. Abhishek V Reddy Mr. Asuj M Thomas, Mr. Arun R Mr. Hafiz Kassim	2018
29	Novel System, Method and Design and Optimization of Blades for Solar Grass Cutter	E-2/2464/2018- CHE and Application No. 201841030653 D116.08.2018	India	Rakesh C	Aditya Pradhan Sumit Kumar Ansuman Dalai	2018
30	Novel System, Method and Design and Development of Magnetic Elevator.	E-2/2465/2018- CHE and Application No. 201841030654 Dt 16.08.2018	India	Ravi Kumar	Md. Asadalla Shariff Akshay Kumar Rathor Abhay Pratap Singh	2018
31	Novel System, Method and Design of Multifunctional Smart Construction Equipment	E-2/2467/2018- CHE and Application No. 201841030656 D1 16:08:2018	India	-	Mr. Rijan Kafle	2018
32	Novel System, Design and Methods of Circular Stack Can Satellite (CSCS)	E-2/3624/2019- CHE and Application No.201941046496 Dt 15/11/2019	India		Jaileg Singh &	2019
33	Novel System, Design and Methods of Compact CanSat: Satellite in a CAN	E-2/3625/2019- CHE and Application No.201941046497 Dr15/11/2019	India	-	Jaileg Singh &	2019
34	Novel System, Design and Methods of Vertical Stack A-Nano CanSat (VSANCS)	E-2/3626/2019- CHE and Application No.201941046498 Dt 15/11/2019	India	•	Jaileg Singh &	2019
35	Novel System, Design and Methods of A-Nano Pocket CubeSat (ANPCS)	E-2/3627/2019- CHE and Application No.201941046499 Dt 15/11/2019	India	-	Jaileg Singh &	2019
36	Novel System, Design and Methods of Vertical Stack Rectangular Board CanSat (VSRBCS)	E-2/3628/2019- CHE and Application No.201941046500 Dt 15/11/2019	India	•	Jaiteg Singh &	2019
37	Novel System, Design and Methods of Compact Interchangeable Stack CanSat (CICS)	E-2/3629/2019- CHE and Application No.201941046501	India	-	Jaiteg Singh &	2019

		Dt15/11/2019				
38	Novel System, Method and Design of Paper Bags Making Machine	E-2/3639/2019- CHE and Application No.201941046511 Di 15/11/2019	India	Prof. Veeresh C,	Varun U. Chebbi Soumyadip Saha Suresh Yadav, Rohit	2019
39	Novel System, Design and Amangement of 3U QubeSat (3UQS)	E-2/3814/2019- CHE and Application No.201941048764 D128/11/2019	India	-	Jaileg Singh &	2019
40	Novel System, Design and Amangement of 2U QubeSat (2UQS)	E-2/3815/2019- CHE and Application No.201941048765 D128/11/2019	India	•	Jaileg Singh &	2019
41	Novel System, Design and Arrangement of 1U QubeSat (1UQS)	E-2/3818/2019- CHE and Application No.201941048768 D1/28/11/2019	India	-	Jaileg Singh &	2019
42	Novel System, Design and Making of Device Uses Neo Pixel Built-in Full Color Driving Lights Circular or Square PCB for TubeSat/CanSat/CubeSat	E-2/3819/2019- CHE and Application No.201941048769 D128/11/2019	India	-	Jaiteg Singh & team	2019
43	Novel System and Method of Design and Fabrication of Solar Dryer with Vapor Absorption Refrigeration	E-2/3823/2019- CHE and Application No.201941048773 Dr 28/11/2019	India	Ronald Reagon R	Dhanush H N Kanshik K N Maharaj S B Mani Kumar R	2019

## G. Evidence of papers published /Awards received by projects etc.

Students in collaboration with faculties presented papers in conference and published journal papers. Some of the sample papers published are shown in Table 2.43.

**Table 2.43:** List of papers presented and published by students

SI	Author	Title	Journal	Vol	ISSN/Year
No				(page)	
1	Sonic Somanna.	Analysis on	International	10	2249-
	ΡK	Data Center	Journal of	(136-	6890
		Cooling	Mechanical and	150)	
		Performance	Production		
			Engineering		
			Research and		
			Development		
			(IJMPERD)		
2	Vedeeswaran	Analysis on	International	10	2249-
	Dandapani	HVAC Chilled	Journal of	(97-	6890
		Water Pump	Mechanical and	110)	
		Performance	Production		
			Engineering		
			Research and		
			Development		
			(IJMPERD)		

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3	Vignesh Kumar. S	Analysis on Propeller Pump Performance	International Journal of Mechanical and Production Engineering Research and Development (IJMPERD)	10 (212- 135)	2249– 6890
4	Ragunandhan K V	Progressive Damage Simulation of a Composite Double Cantilever Beam using Virtual Crack Closure Technique and Cohesive Zone Modeling	International Journal of Scientific Research in Computer Science, Engineering, and Information Technology	4 (929- 937)	2456-3307
5	Keerthisagar S Reddy, Karthik B Shetty, H N Vignesh, Anand Reddy S R	Design and Development of Chalk Dust Cleaning Equipment	International Journal of Scientific Research in Computer Science, Engineering, and Information Technology	4 (899- 904)	2456-3307
6	G Varun	Treatment of Water-Soluble Cutting Fluids Using Membrane Filtration	International Journal of Scientific Research in Computer Science, Engineering, and Information Technology	4 (915- 917)	2456-3307
7	Shivaprasad S, Sammed Patil, Shreekrishna, Shrivathsa	Review Paper on Maintenance and Treatment of Metal Working Fluids (MWF'S)	International Journal of Scientific Research in Computer Science, Engineering, and Information Technology	4 (885- 890)	2456-3307
8	Sandeep. M, Sudarshan Reddy. K. R & Bhasker	Effects of Compression Ratios on	International Journal of Mechanical and	10 (177- 184)	2249- 6890

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	Reddy	Performance and Regulated Emission of CI Engine Fuelled with Diesel and Biodiesel (B100)	Production Engineering Research and Development (UMPERD)		
9	Mabusab D	Structural Analysis of E- House Bracket	International Journal of Mechanical and Production Engineering Research and Development (IJMPERD)	10 (53-61)	2249– 6890
10	Shashank S, Vijay, Syed Ali, Venkat Suresh	Nylon Aramid Polymer as a Sliding Liner for Lube-less Sliding Bearing by Fused Deposition Modelling	AIP		Jan-19
11	Omar Ayaz, Seemanth Misha, Shawn Fernandes, Suryansh Mishra	Fabrication Modelling and Analysis of Track Buggy	IJRASET	07(04)	Apr-19
12	P Ronald Christopher,Syed Awabur Rahaman,Vaishak P	Simulation and Hardness Test of Kevlar and Glass Fibre Composite for Bullet Proof and Stab resistant Vest	IJRASET	07 (04)	Apr-19
13	Keerthi Kumar, Sukruth C, Nithesh Gowda, Madan B	Bird Repellent and Deterrent System	IJTIMES	05 (05)	May-19
14	Tayyeb Masood, Md. Riyaz, Dinesh R, Nagaraj S	Design & Fabrication of 3-Axis Pneumatic Trailer Lift	IJTIMES	05 (05)	May-19
15	Tejas, Yogesh Kumar, Ranjan Sahoo, Murali	Fabrication of Automatic Sewage Cleaning Machine	IJTIMES	05 (05)	May-19

16	Alex Vincent, Anandu B S, Anirudh K, Shebeeb V K	Fabrication of Voice Operated Wheelchair using Android Phone	JETIR	06 (05)	May-19
17	Raghav V Rao, Shashank, Sai Sri Raj, Ashwanth Ramesh	Study & Fabrication of IoT Enabled VAWT	JETIR.	06 (05)	May-19
18	Jayasimha Reddy, Guruprasead P, Mahesh Reddy P	Design & Development of Smart Dustbin using IIoT	IJTIMES	05 (05)	May-19
19	Shivaprasad L, Shreekrishna Girish C D, Shashank G	Design & Fabrication of Box Transport System using Geneva Mechanism	IJTIMES	05 (05)	May-19
20	Dilip Kumar, shashank, Praveen, Sandeep	Effect of Heat Treatment on Mechanical Properties of Cu30Ni5Zn Alloys	IJMTE	09 (05)	May-19
21	Himalaya Bhatta, Bishal Khatri, Rushwanth, Arun Kumar Sah	Design & Fabrication of Step Farming Slope Cleaner	IJTIMES	05 (05)	May-19
22	Abhishek Mamidi, Akarsh R, Neil George, Yashwas B	Review on the Comparative Study for Optimization Methods of Thermal Devices	UETT	59 (2)	May-19
23	Navnath, Mahesh	Design & Fabrication of Waste Garbage Separation	IJTIMES	05 (06)	Jun-19
24	Kuldeep J, Nitin Hooda, Utkarsh, Vivek K	Flow Analysis of Lube System of a Gas Turbine Engine	JETIR	06 (06)	Jun-19
25	Aditya Singh, Pranish, Bwnjamin A, Mudassir A	Design & Fabrication of Magnetic Suspension for Two-Wheeler	JETIR	06 (06)	Jun-19

26	Sachin L, Shariq Ali, Karthik Haridas, Sushil Kumar	Safety Enhancement for Four- Wheeler	ICETEISM	Special Issue- 78	Jul-19
27	Sangye W, Roshan Joshi, Shubham K, Munna Y	Thermo-Electric Power Generation from Waste Heat	ICETEISM	Special Issue- 90	Jul-19
28	John Paul, Yashwanth Verma, Riyaz Ahmad, Varun M	Design & Fabrication of Solar Hybrid Windmill	USART	05 (07)	Jul-19
29	Rahul, Tarun, Sravya K	Investigation of Effect of Alloying Elements on Tribological & Mechanical Properties of Sintered Iron	USART	05 (07)	Jul-19
30	Aswin J, Abrar,Adil A, Mahesh M	Design of Auto- Drilling Mechanism for Dynamic Balancing of Rotors used in Generators	USART	05 (07)	Jul-19
31	Ganesh Nag, Roshan Suhail, Shashank N, Vishnu Tej	deign & Fabrication of Multi-Nut Impact Wrench	USART	05 (07)	Jul-19
32	Manish S, Nithin R, Preetham G, Sandeep P	Fabrication of Fuel Flow Quantity and Quality Measuring Device	IJTIMES	04 (07)	Jul-19
33	Bishal Nath, Avishek Sow, Ananda P, Bishal kumar Sharma	Design and Fabrication of Solar Powered Floating Waste Collector	ICETEISM	Special Issue- 47	Jul-19
34	Balaji S, Karan Kumar, Keerthan Shetty, Arjun	Solar Photovoltaie Water Pumping System	USART	05 (07)	Jul-19
35	Akshay Meti, Naveen Kumar, Rohan Y, Sachin	Design of Portable root Crop Washer	ICETEISM	Special Issue- 05	Jul-19

	ΜD	Machine used in the Agriculture Field			
36	Appaji Reddy, Basana Gouda, Manoj M, Venugopal	Iot Based Smart Irrigation System	ICETEISM	Special Issue- 08	Jul-19
37	Rajith R, Kevin Karan, Jagadish Babu	Design & Development of Hybrid Solar 38Cooker	ICETEISM	Special Issue- 22	Jul-19
38	Sumanth G, Vaibhav Raj, Naveen Kumar, Swaroop G	Design & Fabrication of Dual Powered Multipurpose Agricultural Vehicle	ICETEISM	Special Issue- 64	Jul-19
39	Nallode C, Ahmad J	Design & Performance Analysis of a CD Nozzle for Evacuating Emissions from Subway Tunnels	JAME	06 (06)	Nov-17
40	Vijay Kumar, Chandan Kumar, Chetan Kumar Patil, Shashank Reddy	Reduction of Idle-Hunting in Diesel Fuel Injection Pump	IRJET	04 (11)	Nov-17
41	Roshan Suhail, Shashank, Ganesh Nag, Vishnu Tej	Study of Inlet Guide Vanes for Centrifugal Compressor in Miniature Gas Turbines	USRCSEIT	04 (05)	May-18
42	Akilesh, Vinuth Kumar, Satish B	Design & Fabrication of Prosthetic Arm Prototype	URAT	06 (05)	May-18
43	Vignesh H N, Keerthi Sagar reddy, Anand Reddy	Design & Fabrication of Vacuum Operated Chalk Dust Collector	USER.	09 (05)	May-18
44	Nadhan M, Jeevan R, Kiran kumar S, Chidananda K	Study of Mechanical & Physical Properties of	JETIR	05 (05)	May-18

		Wood-Plastic Composites made of Low Density Polyethylene, Wood Flour & Nano Clay			
45	Manish S, Nithin R, Preetham G, Sandeep P	Automatic Chain Cleaning & Lubrication System	IJTIMES	04 (06)	Jun-18
46	Vishwa I, Deepak S, Karthik Govind, Likhith	Design and Fabrication of Overhead tank Cleaning Machine	IJTIMES	04 (06)	Jun-18
47	Kuldeep J, Nitin Hooda, Utkarsh, Vivek K	Design & Fabrication of Hydrogen Generator	IJTIMES	04 (06)	Jun-18
48	Suraj S, Harsh V, Sandeep Patil, Nithin Kumar	Mechanical & Tribological Characterization of Sintered Iron and Aluminium based Alloys	IRJET	05 (06)	Jun-18
49	Sefeej, Swathin, Nikith, Nidhin	Design & Fabrication of Electromagnetic Braking System	JETIR.	05 (06)	Jun-18
50	Mahesh Reddy, B Nutan Kumar	Automatic Side Stand Retrieving System	IJTIMES	04 (06)	Jun-18
51	Akash Mitra, Shehzar Sheriff, Sheshdhar Prakash	Trash Cleaning Boat- Design & Fabrication	IJTIMES	04 (06)	Jun-18
52	Abdul Raheem, Abdul Ansari, Dinesh Yadav, Md Ansari	Design & Fabrication of Multipurpose Agricultural Equipment	IRJET	05 (07)	Jul-18
53	Vikas Borkar, Sharath Kumar, Sagar P, Prashanth H N	Experimental Investigation in Power Generation using Thermo- Electric Generator	IRJET	05 (07)	Jul-18

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54	Abhijith Padhi,	Microstructure	IJTIMES	04 (07)	Jul-18
	Sharon Abraham,	& Mechanical			
	Ashish, Sharma S	Properties of			
		Aluminium			
		Metal Matrix			
		Composites			

Students are awarded at TECHORIZON, Student Project Presentation held annually. The students who have been awarded are shown in Table 2.44. The winners are selected by a panel member comprising of Faculties, Researchers from R&D centers, and Alumnus.

Year	Name	Title	Prize
2020	Ashwanth Ramesh, Parth Rawri	Machine learning based energy sources management system for series, parallel full HEV using KARANJA biodiesel	Overall Best Project Award
2019	Alekh Anil, Anurodh Mohapatra, Arjun Preetham, Karan Kumar Aneja	Design and Fabrication of trainable 5 DOF robotic arm	1 <sup>st</sup> place
	Mahesh Reddy P, A. I. Jayasimha Reddy, Guruprasad P, Ayaz	Design and development of smart dustbin using IIOT	1 <sup>st</sup> place
	Omar Iyaz, Shawn Angelo, Semanth Mishra, Suryansh Mishra	Design and Development of racing car buggy	2 <sup>nd</sup> place
	Roshan, Ganesh Nag, Shashank, Vishnu Tej	Design and fabrication of multi nut impact wrench	2 <sup>nd</sup> place
2018	Ganesh Kumar C, Rahul M R, Rahul P, Suhas	Design and development of prosthetic leg for above knee amputees	1 <sup>st</sup> place
	Rahul M, R Monish, Nikhil Desai, Siddaraju	Design and fabrication of electric powered roller operated fruit dryer	2 <sup>nd</sup> place
	Arjun Yadav, Manoj Ratna Bhushal, Ranjan Jaiswal, Harish H	Improvisation on physical and combustion properties of fuel briquette	3 <sup>rd</sup> place

Table 2.44: TECHORIZON Awardees

## 2.2.4 Initiatives related to Industry interaction

## A. Industry supported laboratories

Program curriculum provides various methods for industry interaction in addition to the initiatives taken by the management. The Department of Mechanical Engineering has signed the Memorandum of Understanding with the following Industries. It is listed in the Table 2.45.

Sl.No	Name of the Company	MoU date
1	SAP India Pvt Ltd	25/07/2019
2	Skyfi Labs	17/07/2019
3	Quest Global	09/03/2018
4	Capgemini	26/07/2019

## Table 2.45: List of MoU's signed companies

The MoU's were signed with industries to accentuate the activities of students with respect to

(a) Internship for students

(b) Project Workshop for students

(c) Industrial Visits for students

And also, to conduct Faculty Development Program for the staff members.

The Industry Supported Laboratories are designed to develop and inculcate the best learning practices of the students. These labs also induce an interest in the students to gain knowledge and to comprehensively understand the industrial practices. The initiative instillschange in the behavioral aspects, professionalism in the students, and redefines the ambitions of the students with the industrial expectations. The industry supported laboratories are mentioned in the Table 2.46.

Sl No.	Name of the Industry	Name of the lab		
1.	SAP India Pvt Ltd	SAP Laboratory		
2.	Quest Global	Quest Global- Industry Internet of Things (IIoT) Laboratory		
3.	Capgemini	Digital Engineering and Manufacturing Services (DEMS) Laboratory		
4.	CISCO Networking Academy	CISCO Centre of Excellence Laboratory		
5.	Schneider Electric India Private Limited & French Ministry of Education	SCHNEIDER Electric Centre of Excellence Laboratory		
б.	HP Vertica	HP Vertica Centre of Excellence Laboratory		
7.	VM Ware IT Academy	VM Ware Centre of Excellence Laboratory		
8.	Adobe Digital	Adobe Digital Centre of Excellence Laboratory		

Table 2.46: List of Indust	try supported Labs
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The Industry Supported Laboratories directly under the department of Mechanical are mentioned in the Table 2.47. The images of theIndustry Supported Laboratories are shown in Figure 2.40, 2.41, and 2.42.

SI	Name of the	Name of the	Courses Offered
No.	Industry	lab	
_	0457 V		
1.	SAP India Det I td	SAP Laboratory	<ul> <li>SAP COE offers ERP modules as below:</li> </ul>
	PVtLtd	Laboratory	Naterial management     Solar and distribution
			2. Sales and distribution
			A Draduction planning
			<ul> <li>SAD COE also provides access for S/4 Hana cloud.</li> </ul>
			<ul> <li>SAP COL also provides access for 3/4 mana croud platform with FPD rim</li> </ul>
			<ul> <li>It also facilitates software learning programs like wrthen</li> </ul>
			<ul> <li>It also facilitates software rearing programs like python, hunitar and R</li> </ul>
2	Onest	Onest Global-	<ul> <li>Industrial Internet of Things - Dart 1 (Front End -</li> </ul>
2.	Global	Industry	<ul> <li>Industrial Internet of Things – Part 1 (From End – HTML CSS iOners JavaScript atc)</li> </ul>
	0.000	Internet of	<ul> <li>Industrial Internet of Things – Dart 2 (Embadded Systems)</li> </ul>
		Things (IIoT)	<ul> <li>Industrial Internet of Things - Dart 3 (Automation with</li> </ul>
		Laboratory	Raspherry)
			Cloud Computing
3.	Capgemini	Digital	<ul> <li>Product Life Cycle Management for beginners with</li> </ul>
		Engineering &	critical details like bill of materials, parts classification.
		Manufacturing	colour coding, PLM strategies for batch and mass
		Services	production systems. Digital Manufacturing - PLM:
		(DEMS)	<ul> <li>Digital Manufacturing, Benefits of Digital Manufacturing,</li> </ul>
		Laboratory	Manufacturing the First-One, Ramp Up, Virtual Learning
			Curve, Manufacturing the Rest, Production Planning,
			• Product Life Cycle Management for Professionals from
			First Model till the final development through ramp-up
			approach, PLM Concepts,
			<ul> <li>Processes and Workflow: Characteristics of PLM,</li> </ul>
			Environment Driving PLM, PLM Elements, Drivers of
			PLM, Conceptualization, Design,
			<ul> <li>Development, Validation, Production, Support of PLM.</li> </ul>
			Collaborative Product Development: Engineering
			Vaulting, Product Reuse, Smart Parts, Engineering Change
			Management, Bill of Materials and Process Consistency,
			Digital Mock-Up and Prototype Development, Design for
			Environment

 Table 2.47:List of Industry Supported Labs at Mechanical Engineering Department

# SELF ASSESSMENT REPORT 2019-20



Figure 2.40: SAP lab image



Figure 2.41: IIoT lab image

# SELF ASSESSMENT REPORT 2019-20



Figure 2.42: DEMS lab image

# B. Industry involvement in the program design and curriculum

The Board of Studies (BoS) meeting is conducted along with industrial experts who are members of the BoS. Industrial Experts and Alumnus employed with reputed industries are invited for the BoS meeting conducted for program design and curriculum. Sample list of BoS members showing the Industrial Experts and Alumnus employed with reputed industries is shown in Figure 2.43. Sample attendance list of the BoS members is shown in Figure 2.44.

## New Horizon College of Engineering Department of mechanical Engineering

#### BOARD OF STUDIES -2019

#### Course: BE Branch: Mechanical Engineering

SI No	Category	Nomination of the committee	Name of the person	Affiliated To
1	Head of the Department	Chairperson	Dr. M S Ganesha Prasad	NHCE, Bangalore
		Members		
		1	Dr. Shridhar Kurse	NHCE, Bangalore
	Faculty member at	2	Dr. Gopala Krishnan	NHCE, Bangalore
2	different level veering	3	Dr. P Adhikary	NHCE, Bangalore
	different specialization	4	Dr. Ashok Kumar	NHCE, Bangalore
		5	Prof. Naresh .K.S	NHCE, Bangalore
		6	Prof. Puneeth. H.V	NHCE, Bangalore
		Members		
	Subject expert from outside the college nominated by Academic Council	1	Dr. Kiran Aithal	Professor NMIT, Bangalore
3		2	Dr. N Rajesh Mathivanan	Professor and Domain Head ACRC – PES University, Bangalore
	Experts from outside the college nominated by Vice Chancellor	Member	VTU Nominee	
4		1	Dr. Shanmukha Nagaraj	RVCE, Bangalore
	Representative from	Members		
	Industry / Corporate	1	Mr. Prajwal Sabnis	Co-Founder at Orxa Energies
5	related to placements, nominated by	2	Dr. Shiva Prasad	Sr. Engineer, HAL, Bangalore
	Conductors / Dest	Members		
6	Graduates / Post Graduates meritorious	1	Mr. Aneesh Mahajan	Senior Design Engineer, L & T, Bangalore
	Principal	2	Mr Manjunath B	Design Engineer – Autoliv Bangalore
		Members		
		1	Prof. Ronald	Asst. Professor, NHCE, Bangalore
7	Co-opted members	2	Prof. Bopanna	Placement Co-ordinator, NHCE, Bangalore
		3	Mr. Gabriel	Placement Officer, NHCE, Bangalore

Dean, Professor & HoD-ME

Figure 2.43: Sample list of BoS members showing the Industrial Experts and Alumnus

New Horizon College of Engineering Department of mechanical Engineering

#### BOARD OF STUDIES -2019

Date Cou Brai	e : 17-05-2019 rse: BE nch: Mechanical Enginee	Venue : HoT Lab	Time : 9:30 am
SI No	Name of the person	Designation	Signature
1	Dr. M S Ganesha Prasad	Dean, Professor & HoD - ME	MS
2	Dr. Shridhar Kurse	HoD - AU	Genzi
3	Dr. Gopala Krishnan	Dean - R & D	Front in a
4	Dr. P Adhikary	Professor	Farling
5	Dr. Ashok Kumar	Associate Professor	Glakkmor
6	Prof. Naresh .K.S	Assistant Professor	Alount-
7	Prof. Puneeth, H.V	Assistant Professor	Hrv Punck
8	Dr. Kiran Aithal	Professor, NMIT, Bangalore	95
9	Dr. N Rajesh Mathivanan	Professor and Domain Head ACRC – PES University, Bangalore	I AUT HATH
10	Dr. Shanmukha Nagara)	Professor & Dean-Students Affairs, RVCE, Bangalore	& Print 1715
11	Mr. Prajwal Sabnis	Co-Founder at Orxa Energies	Reja lite
12	Dr. Shiva Prasad	Sr. Engineer, HAL, Bangalore	kya.
13	Mr. Aneesh Mahajan	Senior Design Engineer, L & T, Bangalore	adusticalized
14	Mr Manjunath B	Design Engineer – Autoliv, Bangalore	M.A.
15	Prof. Ronald	Assistant Professor	9Cotos
16	Prof. Bopanna	Assistant Professor & Placement Co-ordinator	A refision
17	Mr. Gabriel	Placement Officer	14

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Dean, Professor & HoD-ME

BoS Meeting - Department of Mechanical Engineering

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Figure 2.44: Sample attendance list of the BoS members

**C. Industry involvement in partial delivery of any regular courses for students** Industrial experts are invited for Guest talks and expert lectures on regular courses, and for lectures on topics beyond the syllabus. The list of Guest/Expert lectures conducted for the academic years 2017-2018, 2018-2019, and 2019-2020 is shown in Table 2.47, Table 2.48, and 2.49 respectively. A sample report of the guest lecture is shown in Figure 2.45.

SI	Date	Name of the	Designation	Company	Title of the topic	Beneficiary
Ne		expert	Ť	• •		
1.	27/09/2017			EDS Technologies	3D experience	Final and Pre final year
2.	09/09/2017	Mr.Saravana Kumar	Manager	Quest Global	Geometric dimensioning and tolerance	3 <sup>st</sup> sem
3.	09/09/2017	Dr.Madhukar Rao	Technical Director	ACRi Infotech Pvt Ltd	Computational Fluid Dynamics	5 <sup>th</sup> sem
4.	07/10/2017		Engineering Professionals	Team Sankalpa	Acro structures	5 <sup>th</sup> sem
5.	09/10/2017	Dr. Krishna Rao Durai	CEO	SUSOL Technologies	Mechanics for Materials	3 <sup>sd</sup> sem
ú.	06/02/2018	Dr. Kanchana	Post Doctoral Fellow	Herbin Institute of Technology	Study of Rayleigh- Bernard convection in nano liquids	6 <sup>th</sup> sem
7.	12/02/2018	Dr. Madhukar M Rao	Project Engineer	ACR, Inc, Bangalore	Fundamentals of heat transfer	6 <sup>th</sup> sem
8.	07/10/2017		Engineering Professionals	Team Sankalpa	Industry Expectations on Aero Structures	5 <sup>th</sup> sem
9.	09/10/2017	Dr. Krishna Rao Dhuri	CEO	SUSOL Technologies	Mechanics of Materials	3 <sup>st</sup> sem
10.	16/10/2017	Mr. Parimal Priyadarshini	Founder	Brain Storming lab	Problem Solving Techniques in Thermodynamics and Bemoullis Principle	3 <sup>st</sup> sem
11.	17/10/2017	Mr. Parimal Priyadarshini	Founder	Brain Storming lab	Air Standard Cycles	5 <sup>th</sup> sem
12.	24/02/2018	Dr. P K. Panda	Sr. Scientist	NAL, Bangalore	Piezoelectric Materials in Aerospace Science and Technology	4 <sup>th</sup> and 6 <sup>th</sup> sem
13	10/03/2018	Dr. Pradeep K. Sahoo	Sr. Scientist	NAL, Bangalore	Deflection of beams under different loading conditions	4 <sup>th</sup> sem
14	12/04/2018	Dr. Shekar Majumdar	Former senior scientist	NAL, Bangalore	Flow around immersed bodies	4 <sup>th</sup> sem

 Table 2.47: Expert Lectures for the academic year 2017-2018

Sl No	Date	Name of the expert	Designation	Company	Title of the topic	Beneficiary
1.	5/09/2018	Mr. Gaurav Singh		National Entrepreneurship Network	Productive Entrepreneurship	3 <sup>rd</sup> sem
2.	2/10/2018	Mr. Sachin yadav	Assistant Commandant	Armed Forces	Bright career opportunities in armed forces	7ª sem
3.	/04/2019	Gurushankara K.C	Engineering Director	Dheya Engineering Technologies Pvt Ltd	FEA design	6° sem
4.	5/04/2019	Dr. Pradeep K. Sahoo	Principal scientist	CSIR-National Aerospace Laboratories	Machine Design Approaches and Spring Design	6° sem
5.	6/04/2019	Mr. Anil Kumar Satapathy	CTO	Difacto Robotics and automation Pvt Ltd	Advanced Robotics	6° sem
б.	7/04/2019	Mr. Guruprasad	Assistant manager	Bosch India	Purchasing in automobile industry	4ª sem
7.	4/07/2019	Raghavendra K	IT Analyst	TCS	Mechanics of Materials	4ª sem
8.	7/07/2019	Dr Ram Prabhu	Scientist	DRDO	Aerospace Materials and Manufacturing	3 <sup>rd</sup> sem
9.	07/09/2018	Dr. J Ramkumar	Professor	IIT, Kanpur	Innovations and Emerging trends in Rapid prototyping	7ª sem
10.	20/09/2018	Dr. Suresh Sampath	Director	Gas Turbne Systems, Cranfield University	Gas turbine design and higher studies avenues at cranfield university	7° sem
11.	22/09/2018	Mr Gopal	Technical Trainer	IBM	Mechatronics and Microcontrollers	5° sem
12.	22/09/2018	Vaibhav Vijay	Regional key account manager	Daimler India Commercial vehicles Pvt Ltd	How to prepare ourselves for an interviews and potential of job market towards mechanical engineering	7ª sem
13	06/10/2018	Mr. Vijay B R.	Chief Operating Officer	Intralabs India Technology Private Limited	Operations Research	7ª sem
14	09/10/2018	Mr. Erega Mani	Founder Director	OPN Excel Solutions	Project Management and Entrepreneurship	5° sem
15.	10/10/2018	Mr. Parimal Priyadarshini	Founder	Brainstorming Labs LLP	Basic Thermodynamics and Fluid Mechanics	3 <sup>rd</sup> sem

 Table 2.48: Expert Lectures for the academic year 2018-2019

 Table 2.49: Expert Lectures for the academic year 2019-2020

SI No	Date	Name of the expert	Designation	Company	Title of the topic	Beneficiary
1	23/08/2019	Dr. S G Sreekanteswara Swamy	Executive Secretary	KSCST	KSCST projects and Project Management	7 <sup>a</sup> sem
2	14/09/2019	Mr. P Rajendran	HOD	Nandi Toyota, Bangalore	Emerging Automotive Technology	3 <sup>rd</sup> sem
3	14/09/2019	Mr. Gobalakichenan G	Program Manager	IBM India Pvt Ltd	Mechatronics and Microcontrollers	3 <sup>rd</sup> sem
4	19/09/2019	Dr. Vasantha Lakshmi	Assistant Professor	ITM, Kharagpur	Power Plan for your success	5° sem
5	12/03/2020	Kumar Arpan	Senior Solution Consultant	EDS Technologies	Product development and processing using DELMIA	5" sem

#### REPORT ON GUEST LECTURE

#### Date & Time: 12/03/2020, 11:10pm

#### Venue: Falconry Seminar Hall, NHCE

A Guest lecture on "Product development and processing using DELMIA" Software in automotive industries was delivered by Mr. KUMAR ARPAN, Senior Solution Consultant from EDS technologies in PLM division. He has 9 years of experience New Product Development, & Process Engineering of Various Welding, TCF Assembly –Techniques by using DELMIA as a Simulation Software. He is responsible to understand customer Requirement & give best solutions as well he is also responsible to make various POCS (Proof of Concept) to make customer to understand.



Figure 2.45: Sample report of the guest lecture conducted

The course on Industrial Internet of Things (IIoT) is directly handled by the employees of Quest Global. The employees are provided with a schedule/ timetable of the IIoT classes. The CIEs and SEE are also conducted by employees.

## D. Impact analysis of industry institute interaction and actions taken thereof

The primary impact on the students due to the Industry-Institute interaction is comprehended through the following points:

- Students can undertake projects and industrial internships.
- Students can gain additional practical knowledge on industrial practices.
- Students can align themselves towards Industrial practices and working environments.
- Opinion of the industry experts in curriculum design aids in building required skill sets of the students.
- Guest lectures help in building the student knowledge base from an industrial point of view.
- Students have better placements during the placement drive. Details of which are available in Sub-Criteria 4.5 and 7.3.

In continuation of the best practices, appropriate actions are taken to continually involve the industry experts through MoU's, BoS meetings and Guest/Expert lectures.

## 2.2.5 Initiatives related to industry internship/summer training:

## A. Industrial training/tours for students:

Industrial Training/ Value Added programs are conducted for the students on a regular basis. The training programs are conducted to bring about a sense of the industrial work environment and ethics. The program conducted mainly concentrates on the training of students to be industry ready. The value-added programs conducted for the students are listed in the Table 2.50.

Sl No.	Industrial Training/ Value Added programs		
1.	CATIA/ NX/ Pro-E		
2.	Hypermesh/ ANSYS regular/ Nastran or Patron/ ANSYS CFX CFD		
3.	C /C++/ Android application software for mechanical engineering applications		
4.	Master CAM/ Edge CAM/ Dell CAM/ PCB design and automation/ CNC/ Robotics Certifications course		
5.	Certification program on Digital Marketing		

 Table 2.50: List of Industrial Training programs conducted

The students are taken for Industrial Tours regularly every semester. The industrial tours are organized according to the calendar of events planned by the department at the start of the semester. The industrial Visits taken are shown in the Table 2.51. Sample images of the latest industrial visits conducted are shown in Figure 2.46 and Figure 2.47. A sample attendance sheet of the Industrial Visit is shown in Figure 2.48.

S1	Academic	Industry Visited	Date of Visit
Ne.	Year	•	
1.		Indian Machine Tool Manufacturers Association (IMTMA)	23 <sup>nd</sup> to 28 <sup>nd</sup> Jan
	2019-2020	organized the International Machine 1001s Exhibition	2020
		(IMTEX) -2020, BIEC, Bangalore.	
		Karnataka State Plastic Association (KSPA) organized	23 <sup>nd</sup> to 25 <sup>th</sup>
		International Plastics Exhibition (IPLEX)-2019, BIEC,	August 2019
		Bangalore.	
		Vishnu Forge Industries Ltd, Bangalore.	8" August 2019
		Bangalore Metallurgical Pvt Ltd, Hoskote, Bangalore.	26 <sup>th</sup> July 2019
2.		Akshaya Patra Mega Kitchen, ISKCON, Bangalore.	4º April 2019
		Indian Machine Tool Manufacturers Association (IMTMA)	24 <sup>th</sup> to 30 <sup>th</sup> Jan
		organized the International Machine Tools Exhibition	2019
		(IMTEX) -2019, BIEC, Bangalore.	
		Future Mobility Show, BIEC, Bangalore.	26 <sup>th</sup> to 28 <sup>th</sup> Feb
	2018-2019		2019
		Electronic India-2018, BIEC, Bangalore.	26 <sup>th</sup> Sept 2018
		Federal Mogul Goetze India Ltd, Bangalore.	11 <sup>th</sup> August
			2018
		Aerospace and Defense Manufacturing show, BIEC,	10 <sup>th</sup> August
		Bangalore.	2018
		Govt Tool Room and Training Centre (GTTC), Bangalore.	27h July 2018
		Trinity NDT, Bangalore.	26 <sup>th</sup> July 2018
3.		BMTC Central workshop, Shanti Nagar, Bangalore.	27 <sup>th</sup> June 2018
		Toyota Technical Training Institute, Bidadi, Bangalore.	28 <sup>th</sup> June 2018
		LM Wind Power, Bangalore.	27 <sup>th</sup> &28 <sup>th</sup> June
			2018
		Akshaya Patra Mega Kitchen, ISKCON, Bangalore.	27 <sup>th</sup> to 29 <sup>th</sup> June
			2018
	018	TVS Motor, Hosur.	29 <sup>th</sup> March
	17-2(		2018
	201	VST Tractors and Trailers, Hosur.	29 <sup>th</sup> March
			2018
		ACREX-2018, Bangalore.	24 <sup>th</sup> Feb 2018
		Indian Machine Tool Manufacturers Association (IMTMA)	30 <sup>th</sup> Jan 2018
		organized the International Machine Tools Exhibition	
		(IMTEX) -2018, BIEC, Bangalore.	
		Indian Machine Tool Manufacturers Association (IMTMA),	3 <sup>rd</sup> Nov 2017

# Table 2.51: Industrial Visits conducted



Glimpses of IMTEX FORMING-2020 visit

Figure 2.46: Sample of Industrial Visit IMTEX-2020



Figure 2.47: Sample of Industrial Visit IMTEX-2020

New Horizon College of Engineering Department of Mechanical Engineering					
SINo	Indu	NAME	Signature		
1	1NH18ME700	ALAY A M	Avery Am		
2	1NH18ME701	AAKASH REDDY	A		
3	1NH18ME702	ARHINAVA VAIDYANATHAN	Triggers		
4	1NH19ME702	ABHISHEK VADAV	Sin weather		
5	1NH18ME704		Pin		
6	1NH18ME705	AKASH KRISHNA R	neas		
7	1NH18ME706	AMAL P NAIR	Anne !		
8	1NH19ME707	AMITH KDISHNA S			
0	1NH10ME707	APAVIND C	A.L.		
10	1NH19ME700	CHANDAN P	Mandan &		
11	1NH10ME710	CHETHAN P	a lall - S		
12	1NH10ME714	DUANUSUS	alto D		
12	INHIOME714	EDNECT DENNY	The second		
13	1NH10ME/15	CANESI DENNI	Rother		
19	INHISME/1/	GANESH C G	al all		
16	1NH10ME/19	HARIKEDDI K	angenery		
10	1NH10ME/20	HEMANIH S	a protect		
10	INHI8ME/21	JAGADISH KUMAR M	Spe M		
18	INHISME/22	JEKIN VAKAYIL	Here		
19	1NH18ME/25	KARTHIKC	None		
20	1NH18ME726	KAVITHANJAN K	Therman		
21	1NH18ME727	M S SREEDHAV	All		
22	1NH18ME728	MAHANTESH D	2000		
23	1NH18ME729	MAHESH KUMAR R	1 march		
24	1NH18ME730	MANJUNATHAG	G. Cart al		
25	1NH18ME731	MANJUNATHA S	1100 -		
26	1NH18ME732	MOHAMMAD RAHEEM BAIG	Marthundsa		
27	1NH18ME733	NIDAKSHAN S	June		
28	1NH18ME734	NITHIN RAJU K J	CHE OPT		
29	1NH18ME/35	NUBLE I	would		
30	1NH18ME/36	PATEL CHIRAG YOGESH	Childa		
31	1NH18ME737	PRATEEKKUMAK NAYAK	Cours-		
32	1NH18ME738	PRATIK P SAMPAGAVI	Jonpayavi		
33	1NH18ME/39	PREETHAM BALOT	<u> </u>		
34	1NH18ME740	PRITHVI RAJ S	0 1		
35	1NH18ME/41	PUNITH KAJ K	a di		
36	1NH18ME/43	RAYANI THAKUN	all d N		
37	1NH18ME744	KITHIK B S	10yunto		
38	1NH18ME745	SAI SAMHITH DUVVADA	and		
39	1NH18ME746	SANKET	Banket		
40	1NH18ME747	SANKET SHARAD KULKARNI	GI VE		
41	1NH18ME748	SANTHOSH A	20002		
42	1NH18ME749	SHAMROZ AHMED	10.00		
43	1NH18ME750	SHOIB AKTHAR	Danau Hus		
44	1NH18ME751	SYED AZZAAM AHMED	Light and		
45	1NH18ME752	T HARISH KUMAR	3403		
46	1NH18ME753	V VARUN KAILASH	John		
47	1NH18ME754	VAISHAG SYAM SUNDAR	A A		
48	1NH18ME755	VIGNESH A M	File		
49	1NH18ME757	WANGJAM DEEPAK	Seinge		
50	1NH18ME758	YASHAS C REDDY	a		
51	1NH18ME759	YATISH RAVINDRA	eyatest.		
E2	1NH18ME474	ANEES AHMED	12-1-17-11-		

Figure 2.48: Sample of Industrial Visit Attendance sheet

# B. Industrial /internship /summer training of more than two weeks and post training Assessment.

Students must undergo**Industry internship/summer** training of their areas of interest/ specialization at the end semester for duration of 4 to 6 weeks. In addition to this, the department organizes training programs related to emerging industry trends and job functions. External trainers from reputed industrial organizations bring the latest technological evolutions to the students.

During training, the student keeps a daily record of his/her activities, which is countersigned by the industry supervisor. The faculty mentor visits / remains in touch with the industry supervisor to monitor the progress of the intern. On completion of training a project report / completion certificate and student feedback are submitted to the industrial internship coordinator/ HoD/ Dean. A Presentation is made by every student on his/her internship report before a panel constituted by the Dean / HoD. This is followed by a viva to gauge the course outcome / program outcome achieved. A sample of the acceptance letter received by the department is shown in Figure 2.49.



Figure 2.49: Sample of the Internship acceptance letter

## C. Impact analysis of industrial training.

Internships in the industries bestow the following benefits to the students:

- Better understanding of the working concepts due to the hands-onexperience provided by the industrial training.
- Knowledge on industrial standards, current trends and practices are gained by the students.
- Students learning abilities are heightened due to the exposure to industrial environment.
- Knowledge on complex machines and equipment's handling abilities are gained.
- Building teamwork and inter-personal skills.
- Applying academic knowledge in industrial environments.
• Students have better placements during the placement drive. Details of which are available in Sub-Criteria 4.5 and 7.3.

#### D. Student feedback on initiative.

The feedback received from the students show that there is an overall high satisfaction on the initiative of the institute and the department of Mechanical Engineering on organizing the industrial visits of the students on a regular basis. A sample of the feedback form taken from the students on the industrial visit is shown in Figure 2.50.

		an Enginee	ing bel	partment		
			1			
	FEEDBA	CK ON INE	USTRIAL	VISIT		
				S VISIT		
Place	of Visit: IMTEX-20:	20 BIE	EC			
Date	of visit: act. 1	1996 - 1994 - 1994 - 1994 - 1994 - 1994 - 1994 - 1994 - 1994 - 1994 - 1994 - 1994 - 1994 - 1994 - 1994 - 1994 -	1. A. A.			
Dute	01 VISIL 26 (01/ 2020					
			1.	43.2.7.9.1		
SI No.		Excellent	Good	Average	Fair	Poor
1.	Industry profile	-	1			
2.	Features of the company	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	-		10000	
3.	Clarifications by industry experts	1	1 1 1 1			
	Knowledge gained	/		5.3	1.1.1	
4.		1	S TON	120.000	192	
4. 5.	Connection to the course					
4. 5. 6.	Connection to the course Overall experience of the visit	1	at 1 1 1	1	1.200	

Figure 2.50: Sample image of a student feedback form on industrial visit

## DEPARTMENT OF MECHANICAL ENGINEERING

# **CRITERION 3**

# COURSE OUTCOMES AND PROGRAM OUTCOMES

CRITERION 3	Course Outcomes and Program Outcomes	175
elui Eluoi ve	Course Outcomes and Program Outcomes	175

## **3.1.** Establish the Correlation between the Courses and the Program Outcomes (POs) and Program Specific Outcomes (PSOs) (25)

(NBA defined Program Outcomes as mentioned in Annexure I and Program Specific Outcomes as defined by the Program).

Sl. No.	Program Outcomes (PO)
1.	<b>Engineering knowledge:</b> Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
2.	<b>Problem analysis:</b> Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
3.	<b>Design/development of solutions:</b> Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
4.	<b>Conduct investigations of complex problems:</b> Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
5.	<b>Modern tool usage:</b> Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
6.	<b>The engineer and society:</b> Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
7.	<b>Environment and sustainability:</b> Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate

	the knowledge of, and need for sustainable development.
8.	<b>Ethics:</b> Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
9.	<b>Individual and team work:</b> Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
10.	<b>Communication:</b> Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
11.	<b>Project management and finance:</b> Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
12.	<b>Life-long learning:</b> Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

### The following are the program specific outcomes:

Students will be ale to

**PSO 1:** Specify, fabricate, test, and operate various machines along with essential documentations.

**PSO 2:** Analyse, design, develop and implement the concepts of mechanical systems and processes towards product development.

#### 3.1.1. Course Outcomes

(Six to ten matrices of core courses are to be mentioned with at least one per semester.)

#### Batch 2015-19 (LYG)

Course outcomes of Elements of mechanical engineering (First Semester)

CO No.	Course Outcome Statement
15ME13/ 23.1	Apply the concepts of conventional and non-conventional energy systems to design and develop alternate source of energy production.
15ME13/ 232	Analyze the different types of IC engines and refrigeration systems and solve problems related to them.
15ME13/ 23.3	Apply appropriate manufacturing techniques for product development in consequent to the professional Engineering practice in Mechanical Engineering.
15ME13/ 23.4	Apply the concepts of planes and projections and visualize the various ways to create the development of solid sheet metal Models with the aid of modern tools.
15ME13/ 23.5	Understand the impact of various systems, processes and solutions of mechanical engineering in societal and Environmental context.
15ME13/ 23.6	Analyze the different Engineering materials for their respective application in various engineering fields and study about their Joining processes.

Course outcomes of Computer Aided Engineering Drawing (Second Semester)

CO No.	Course Outcome Statement
15ME14/24.1	Apply the knowledge of engineering fundamentals in order to understand about Dimensioning, conventions and standards related to working drawings and understand the theory of orthographic projections in order to communicate effectively with engineering community.
15ME14/24.2	Analyze the data in Organizing, demonstrating and arranging solids and planes in different positions using Modern tool usage with this contextual knowledge, complex problems can be solved.
15ME14/24.3	Improved visualization skills which can lead to the development of sketch into orthographic views further helps in modelling of complex engineering problems.
15ME14/24.4	By interpreting the given data, design or develop the 3D models in isometric view with the help of modern Engineering software tools.
15ME14/24.5	Engage in independent study as a member of a team and make an effective oral presentation or demonstration on topics related to the practical application and complex engineering problems using advanced mechanical systems or software
15ME14/24.6	Understanding physical dimensions or specifications prior to executing complex engineering problems.

Course outcomes of Casting and Forging Technology (Third Semester)

CO No.	Course Outcome Statement
16MEE341/441.1	Apply the basics of manufacturing processes in uniquely identifying various
	casting & Forging Techniques

16MEE341/441.2	Apply the modern engineering tools of sand moulding and moulding machines in effectively making the moulds
16MEE341/441.3	Identify the specific requirements in selection of suitable cores, gates & risers implemented in a particular casting process
16MEE341/441.4	Analyze the various types of melting furnaces based on their suitability in usage to specific application.
16MEE341/441.5	Evaluate and interpret the various design parameters of each forging process.
16MEE341/441.6	Apply the inspection methods in predicting the various casting defects

Course outcomes of Mechanics of Materials (Fourth Semester)

CO No.	Course Outcome Statement
16MEE351/451.1	Engage as an individual to make an effective application of mechanics in real- time engineering problems
16MEE351/451.2	Apply the fundamental concepts of MOM in finding the properties of Engineering materials
16MEE351/451.3	Analyze the complex engineering components subjected to various types of load
16MEE351/451.4	Design the structural members using theory of simple bending and deflection
16MEE351/451.5	Investigate the safe stresses in pressure vessels
16MEE351/451.6	Design the shafts using the theory of torsional strength and rigidity

### Course outcomes of Machine Theory and Mechanism Design (Fifth Semester)

CO No.	Course Outcome Statement
MEE51.1	Apply the concepts of kinematics and dynamics to synthesise and analyse planar mechanisms
MEE51.2	Investigate the velocity and acceleration of mechanisms by Analytical and Graphical Methods.
MEE51.3	Develop the Simulations of the Mechanisms using Multi-body dynamics package MSc Adams.
MEE51.4	Realize the applications of Governors based on specific requirements.
MEE51.5	Analyse the Problems involving static and dynamic balancing and develop the solutions for the same using Graphical Method.

MEE51.6	Review the concept of Gyroscopic effect and Visualise the effect of Gyroscopic couple in Different Vehicles.
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Course outcomes of Fundamental of Heat Transfer (Sixth Semester)		
CO No.	Course Outcome Statement	
MEE61.1	Apply heat transfer principles to design and evaluate the performance of thermal systems in order to minimize the heat loss	
MEE61.2	Formulate the steady state conduction equations for one dimensional heat transfer systems like Fins, Lumped systems and develop the solution for the temperature distributions within the body	
MEE61.3	Design and apply the concepts of radiation shield system in preventing harmful radiations in power plants.	
MEE61.4	Develop an enhanced thermal systems as a team by minimizing the constraints which enables the student to have continuous learning	
MEE61.5	Analyze the complex engineering problems in convection heat transfer and also use computational tools to design heat exchangers.	
MEE61.6	Design and develop the eco friendly Condensing and heat exchange equipmentsso as to optimize the heat flow.	

Course outcomes of Mechanical Vibration (Seventh Semester)

CO No.	Course Outcome Statement
MEE71.1	Utilize the basic knowledge of physics and mechanics in understanding the theory behind free & forced vibrations, frequencies, damping, degrees of freedom and vibrations measuring instruments.
MEE71.2	Examine and identify the methods of determining the frequencies in cases of free, forced, damped, un-damped, multiple DOF and continuous systems
MEE71.3	Impart the solutions through detailed investigation & analysis of vibrations of machines and shafts under different loading conditions and evaluation of vibration of vibration measuring instruments.
MEE71.4	Use adequate theory, formula and analysis techniques to provide vibration solution for mechanical machine elements of specific application.
MEE71.5	Develop feasible engineering products with thorough vibrations investigation & analysis so as to benefit the industry and environment.
MEE71.6	Cultivate new products with the fundamental knowledge on vibrations by latest technological advancement in design of vibrating machine parts and components.

### Course outcomes of Rapid Prototyping (Eighth Semester)

CO	No
	/ INU.

Course Outcome Statement

MEE755.1	Apply the knowledge of physics and material science in understanding the working principle of additive manufacturing.
MEE755.2	Analyze the limitations and advantage of each additive manufacturing technique.
MEE755.3	Test the quality of the products built through additive manufacturing technique in soft tooling and hard tooling applications.
MEE755.4	Synthesize the information of process parameters with adequate optimization techniques using Internet based software.
MEE755.5	Demonstrate the knowledge of additive manufacturing in the application at Medical and product development Industries by executing the projects.
MEE755.6	Understand the nature of errors in software and to rectify the same with the knowledge of latest software in terms of software and hardware integration.

#### **3.1.2.** Core courses to demonstrate the mapping/correlation with all POs and PSOs.

#### Note:

1. Enter correlation levels 1, 2 or 3 as defined below:

1: Slight (Low) 2: Moderate (Medium) 3: Substantial (High)

It there is no correlation, put "-"

Core courses to demonstration of the mapping/correlation with all POs and PSOs for

Batch 2015-19 (LYG)

	PO1	PO2	PO3	P04	PO5	PO6	PO7	PO8	P09	PO10	P011	P012	PSO1	PSO2
15ME13/23.1	3	-	3	-	-	-	-	-	-	-	-	-	-	2
15ME13/232	-	1	-	-	-	-	-	-	-	-	-	-	-	2
15ME13/23.3	3	-	3	-	-	2	-	-	-	-	-	-	-	2
15ME13/23.4	3	-	3	-	3	-	-	-	-	3	-	-	3	-
15ME13/23.5	-	-	-	-	-	2	1	-	-	-	-	1	3	-
15ME13/23.6	3	1	3	-	-	-	-	-	-	-	-	-	3	-

CO PO Mapping for Elements of Mechanical Engineering (First Semester)

	POI	PO2	PO3	P04	PO5	P06	PO7	P08	909	PO10	P011	P012	PSO1	PSO2
15ME14/24.1	2	-	-	-	-	-	-	-	-	2	-	-	-	-
15ME14/24.2	2		2	-	1	-	-	-	-	-	-	-	-	-
15ME14/24.3	-	-	-	-	1	-	-	-	-	-	-	-	-	2
15ME14/24.4	-	-	-	2	1	-	-	-	-	-	-	-	-	-
15ME14/24.5	-	-	-	2	-	-	-	-	-	-	-	2	-	2
15ME14/24.6	-	-	2	-	-	-	-	-	-	-	-	-	2	-

CO PO Mapping for Computer Aided Engineering Drawing (Second Semester)

CO PO Mapping for Casting and Forging Technology (Third Semester)

	P01	PO2	PO3	P04	PO5	PO6	PO7	PO8	P09	PO10	P011	P012	PSO1	PSO2
16MEE341/441.1	3	-	-	-	-	-	-	-	-	-	-	-	3	-
16MEE341/441.2	3	-	-	-	2	-	-	-	-	-	-	-	-	3
16MEE341/441.3	-	1	-	-	-	-	-	-	-	-	-	-	3	-
16MEE341/441.4	3	1	-	-	-	-	-	-	-	-	-	-	-	3
16MEE341/441.5	-	-	-	1	-	-	-	-	-	-	-	-	-	3
16MEE341/441.6	3	-	-	-	2	-	-	-	-	-	-	-	-	-

### CO PO Mapping for Mechanics of Materials (Fourth Semester)

	PO1	PO2	PO3	P04	PO5	PO6	PO7	PO8	909	PO10	P011	P012	PSO1	PSO2
16MEE351/451.1	-	-	-	-	-	1	-	-	-	-	-	1	2	3
16MEE351/451.2	1	-	-	-	-	-	-	-	-	1	-	-	2	3
16MEE351/451.3	-	3	-	-	-	-	-	-	-	-	-	-	-	3
16MEE351/451.4	-	3	3	-	-	-	-	-	-	-	-	-	-	3
16MEE351/451.5	-	-	-	1	-	-	-	-	-	-	-	-	2	3
16MEE351/451.6	1	-	3	-	-	-	-	-	-	-	-	-	-	3

	11	0			5				0	· ·				
	P01	P02	PO3	P04	PO5	P06	PO7	P08	P09	PO10	P011	P012	PSO1	PSO2
MEE51.1	2	-	-	-	-	-	-	-	-	-	-	-	3	3
MEE51.2	-	3	-	2	-	-	-	-	-	-	-	-		3
MEE51.3	-	-	2	-	2	-	-	-	-	-	-	-	3	
MEE51.4	2	-	-	2	-	-	-	-	-	-	-	-	3	
MEE51.5	-	3	-	-	2	-	-	-	-	-	-	-		3
MEE51.6	-	3	2	-	-	-	-	-	-	-	-	-		3

CO PO Mapping for Machine Theory and Mechanism Design (Fifth Semester)

CO PO Mapping for Fundamentals of Heat Transfer (Sixth Semester)

	PO1	P02	PO3	P04	PO5	P06	PO7	P08	P09	PO10	P011	P012	PSO1	PSO2
MEE61.1	1	2	-	-	-	-	-	-	-	-	-	-	3	-
MEE61.2	-	2	3	-	-	-	-	-	-	-	-	-	-	1
MEE61.3	-	-	3	-	-	1	1	-	-	-	-	-	-	1
MEE61.4	-	-	-	-	-	-	-	-	1	-	-	1	3	-
MEE61.5	-	-	3	2	2	-	-	-	-	-	-	-	3	-
MEE61.6	-	-	3	-	-	1	1	-	-	-	-	-	-	1

CO PO Mapping for Mechanical Vibration (Seventh Semester)

	P01	PO2	PO3	P04	P05	PO6	PO7	PO8	909	PO10	P011	P012	PSO1	PSO2
MEE71.1	3	-	-	-	-	-	-	-	-	-	-	-	-	-
MEE71.2	-	3	3	3	-	-	-	-	-	-	-	-	-	-
MEE71.3	-	-	-	3	2	2	-	-	-	-	-	-	-	-
MEE71.4	3	3	3	3	-	-	-	-	-	-	-	-	-	2
MEE71.5	-	-	-	-	2	2	1	-	-	-	-	-	-	2
MEE71.6	-	-	-	-	2	-	-	-	1	-	1	-	-	2

				1			ν U							
	P01	P02	PO3	P04	P05	PO6	PO7	P08	PO9	PO10	P011	P012	PSO1	PSO2
MEE813.1	2													
MEE813.2		2												2
MEE813.3	2												3	
MEE813.4				1	2									2
MEE813.5						1					2		3	
MEE813.6		2			2								3	

CO PO Mapping for RP (Eight Semester)

### **3.1.2. Program Articulation Matrix**

Program Articulation Matrix for the three batch

### Batch 2015-2018 (LYG)

Course	Subject Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C101	15MA11	3	3	3	2	2	-	-	-	-	1	-	3		
C102	15PH12	3	2	2	-	-	-	-	-	3	2	-	1		
C103	15ME13	3	1	3	-	3	2	1	-	-	3	-	1		
C104	15CIV14	3	3	3	-	-	-	-	-	-	-	-	-		
C105	15EEE15	3	3	2	1	-	-	-	-	-	2	2	-		
C106	15HB16	-	-	-	-	-	-	-	3	2	3	-	3		
C107	15MAT21	3	3	3	3	3	-	-	-	1	3		3		
C108	15CH22	3	3	-	-	-	-	3	-	-	-	-	3		
C109	15CS23	3	3	3	1	3	-	-	-	3	1	-	1		
C110	15ME24	2	-	2	2	1	-	-	-	-	2	-	2		
C111	15EC25	3	2	2	-	-	-	-	-	-	-	-	-		
C112	15HP26	-	-	-	-	-	2	-	3	2	3	-	3		
C201	MEE331/431	3	3	2	-	2	-	-	-	-	1	-	1	3	2
C202	MEE341/441	3	1	-	1	2	-	-	-	-	-	-	-	3	3
C203	MEE351/451	1	3	3	1	-	1	-	-	-	1	-	1	2	3
C204	MEE361/461	2	2	2	-	-	2	-	-	-	2	-	2	3	3
C205	MEE332/432	3	3	2	-	-	-	-	-	-	-	-	1	2	2
C206	MEE342/442	3	3	2	-	1	-	-	-	-	-	-	1	3	3
C207	MEE352/452	2	2	3	-	1	3	-	-	-	3	-	3	2	3
C208	MEE362/462	3	3	1	1	1	-	-	-	-	-	-	-	-	3

C209	16HSS322/422	2	3	3	2	3	2	2	3	1	2	2	2		
C210	16HSS321/421	2	3	2	2	2	1	2	1	2	2	2	2		
C211	16MAT31	3	3	3	3	3	1	3	-	-	1	3	3		
C212	16MAT41	3	3	3	3	3	3	2	-	2	-	3	3		
C301	MEE51	2	3	2	2	2	-	-	-	-	-	-	-	3	3
C302	MEE52	1	1	3	3	-	1	3	-	2	-	-	2	3	1
C303	MEE53	1	2	2	1	1	-	-	-	1	-	-	-	-	3
C304	MEE54	3	1	-	1	-	-	2	-	-	2	-	-	3	3
C305	MEE55	1	1	2	2	2	2	2	-	1	-	3	-	3	2
C306	MEE561	3	2	1	-	-	1	-	-	2	-	-	2	3	3
C308	MEE61	1	2	3	2	2	1	1	-	-	-	-	-	-	1
C309	MEE62	2	3	2	1	-	-	-	-	-	-	-	-	-	3
C310	MEE63	3	1	3	2	1	-	1	-	-	1	-	1	-	3
C311	MEE64	3	3	1	1	3	-	-	-	-	-	-	2	3	3
C312	MEE654	3	3	3	3	2	2	2	2	2	2	-	2	2	2
C313	MEE651	3	2	2	2	0	3	0	0	0	0	0	2	2	2
C314	MEE57	1	3	3	1	1	1	1	1	3	3	2	3	1	1
C315	MEE67	1	3	3	1	1	1	1	1	3	3	2	3	1	1
C401	MEE71	3	3	3	3	2	2	1	-	1	-	1	-	-	2
C402	MEE72	1	1	1	1	2	1	1	-	-	1	-	-	-	2
C403	MEE731	3	3	3	3	-	-	-	-	-	-	1	-	-	3
C404	MEE744	1	1	1	2	1	3	-	-	3	3	-	3	1	2
C405	MEE754	1	3	1	1	-	1	-	-	-	-	-	-	3	1
C406	MEE755	2	2	-	1	2	1	-	-	-	-	2	-	3	2
C407	MEE745	3	3	3	0	3	1	1	0	0	0	0	0	2	3

C408	MEE814	1	3	1	1	3	0	1	0	0	1	0	0	3	3
C409	MEE82	3	2	-	-	2	3	-	-	-	-	2	3	3	3
C410	MEE84	3	2	1	2	1	2	-	-	-	1	-	1	-	2
C411	MEE813	1	3	1	1	3	-	1	-	-	1	-	-	3	3
C412	MEE83	2	2	2	1	2	-	2	2	2	2	2	2	3	3

### **3.1.3 Course Articulation Matrix**

Course Articulation Matrix for three batch, 2015-19 (LYG), 2014-18 (LYG M1), 2013-17 (LYG M2)

### Course Articulation Matrix for Batch 2015-2019 (LYG)

Course Coo	le: 15EME13														
Course Nar	ne: Elements of Mechanical Engineering														
	Statement	P01	P02	PO3	P04	P05	PO6	P07	PO8	P09	PO10	P011	P012	PSO1	PSO2
15ME13/ 23.1	Apply the concepts of conventional and non-conventional energy systems to design and develop alternate source of energy production.	3	-	3	-	-	-	-	-	-	-	-	-	-	2
15ME13/ 232	Analyze the different types of IC engines and refrigeration systems and solve problems related to them.	-	1	-	-	-	-	-	-	-	-	-	-	-	2

15ME13/ 23.3	Apply appropriate manufacturing techniques for product development in consequent to the professional Engineering practice in Mechanical Engineering.	3	_	3	-	-	2	-	-	-	-	-	-	-	2
15ME13/ 23.4	Apply the concepts of planes and projections and visualize the various ways to create the development of solid sheet metal Models with the aid of modern tools.	3	-	3	-	3	-	-	-	-	3	-	_	3	-
15ME13/ 23.5	Understand the impact of various systems, processes and solutions of mechanical engineering in societal and Environmental context.	-	-	-	-	-	2	1	-	-	-	-	1	3	-
15ME13/ 23.6	Analyze the different Engineering materials for their respective application in various engineering fields and study about their Joining processes.	3	1	3	-	-	-	-	-	-	-	-	-	3	-
	Average	3	1	3	-	3	2	1	-	-	3	-	1	3	2

Course Code: 1	5EME14														
Course Name:	Computer Aided Engineering Drawing														
	Statement	PO1	PO2	PO3	P04	PO5	P06	PO7	PO8	P09	P010	P011	P012	PSO1	PSO2
15ME14/24.1	Apply the knowledge of engineering fundamentals in order to understand about Dimensioning, conventions and standards related to working drawings and understand the theory of orthographic projections in order to communicate effectively with engineering community.	2	_	-	-	_	-	-	-	-	2	-	-	-	-
15ME14/24.2	Analyze the data in Organizing, demonstrating and arranging solids and planes in different positions using Modern tool usage with this contextual knowledge, complex problems can be solved.	2		2	-	1	-	-	-	Ч	-	-	-	μ	_
15ME14/24.3	Improved visualization skills which can lead to the development of sketch into orthographic views further helps in modelling of complex engineering problems.	-	-	-	-	1	_	-	-	-	-	-	-	-	2
15ME14/24.4	By interpreting the given data, design or develop the 3D models in isometric view	-	-	-	2	1	-	_	-	-	_	-	-	-	-

	with the help of modern Engineering software tools.														
15ME14/24.5	Engage in independent study as a member of a team and make an effective oral presentation or demonstration on topics related to the practical application and complex engineering problems using advanced mechanical systems or software	-	_	-	2	-	-	-	-	_	-	-	2	-	2
15ME14/24.6	Understanding physical dimensions or specifications prior to executing complex engineering problems.	-	-	2	-	-	-	-	-	-	-	-	-	2	-
	Average	2	-	2	2	1	-	-	-	-	2	-	2	2	2

Course Code: 16M Course Name: Cas	EE341/441 ting and Forging Technology														
	Statement	PO1	P02	PO3	P04	PO5	PO6	PO7	PO8	P09	P010	P011	P012	PSOI	PSO2
16MEE341/441.1	Apply the basics of manufacturing processes in uniquely identifying various casting & Forging Techniques	3	_	-	-	-	-	_	-	-	-	-	-	3	-
16MEE341/441.2	Apply the modern engineering tools of sand moulding and moulding machines in effectively making the moulds	3	-	-	-	2	-	-	-	-	-	-	-	-	3
16MEE341/441.3	Identify the specific requirements in selection of suitable cores, gates & risers implemented in a particular casting process	-	1	-	-	-	-	-	-	-	-	-	-	3	-
16MEE341/441.4	Analyze the various types of melting furnaces based on their suitability in usage to specific application.	3	1	-	-	_	-	_	_	-	-	-	-	-	3
16MEE341/441.5	Evaluate and interpret the various design parameters of each forging process.	_	-	-	1	-	-	_	-	-	-	-	-	-	3
16MEE341/441.6	Apply the inspection methods in predicting the various casting defects	3	-	-	-	2	-	-	-	-	-	-	-	-	-
	AVERAGE	3	1	-	1	2	-	-	-	-	-	-	-	3	3

Course Code: 16M	EE351/451														
Course Name: Mee	chanics of Materials														
	Statement	PO1	P02	PO3	P04	PO5	PO6	PO7	PO8	P09	P010	P011	P012	PSO1	PSO2
16MEE351/451.1	Engage as an individual to make an effective application of mechanics in real- time engineering problems	-	-	-	-	-	1	-	-	-	-	-	1	2	3
16MEE351/451.2	Apply the fundamental concepts of MOM in finding the properties of Engineering materials	1	-	-	-	-	-	I	I	-	1	-	-	2	3
16MEE351/451.3	Analyze the complex engineering components subjected to various types of load	-	3	-	-	-	-	-	-	-	-	-	-	-	3
16MEE351/451.4	Design the structural members using theory of simple bending and deflection	-	3	3	-	-	-	Ι	Ι	I	-	-	-	-	3
16MEE351/451.5	Investigate the safe stresses in pressure vessels	-	-	-	1	-	-	Ι	Ι	I	-	-	-	2	3
16MEE351/451.6	Design the shafts using the theory of torsional strength and rigidity	1	_	3	-	-	-	-	-	-	-	-	-	-	3
	AVERAGE	1	3	3	1	-	1	-	-	-	1	-	1	2	3

Course Code: MEE51

Course Nar	ne: Machine Theory and Mechanism Design														
	Statement	PO1	P02	PO3	P04	P05	P06	PO7	P08	P09	P010	P011	P012	PSO1	PSO2
MEE51.1	Apply the concepts of kinematics and dynamics to synthesise and analyse planar mechanisms	2	-	-	-	-	-	-	-	-	-	-	-	3	3
MEE51.2	Investigate the velocity and acceleration of mechanisms by Analytical and Graphical Methods.	-	3	-	2	-	-	-	-	-	-	-	-	-	3
MEE51.3	Develop the Simulations of the Mechanisms using Multi-body dynamics package MSc Adams.	-	-	2	-	2	-	-	-	-	-	-	-	3	-
MEE51.4	Realise the applications of Governors based on specific requirements.	2	-	-	2	-	-	-	-	-	-	-	-	3	-
MEE51.5	Analyse the Problems involving static and dynamic balancing and develop the solutions for the same using Graphical Method.	-	3	-	-	2	-	-	-	-	-	-	-	-	3
MEE51.6	Review the concept of Gyroscopic effect and Visualise the effect of Gyroscopic couple in Different Vehicles.	-	3	2	-	-	-	-	-	-	-	-	-	-	3
	AVERAGE	2	3	2	2	2	-	-	-	-	-	-	-	3	3
Course Coo	le: MEE61														

Course Nar	ne: Fundamentals of Heat Transfer														
	Statement	P01	P02	PO3	P04	PO5	PO6	PO7	PO8	P09	P010	P011	P012	PSO1	PSO2
MEE61.1	Apply heat transfer principles to design and evaluate the performance of thermal systems in order to minimize the heat loss	1	2	-	-	_	_	_	-	-	-	-	-	3	-
MEE61.2	Formulate the steady state conduction equations for one dimensional heat transfer systems like Fins, Lumped systems and develop the solution for the temperature distributions within the body	-	2	3	-	-	-	-	-	-	-	-	-	-	1
MEE61.3	Design and apply the concepts of radiation shield system in preventing harmful radiations in power plants.	-	-	3	-	-	1	1	-	-	-	-	-	-	1
MEE61.4	Development of enhanced thermal systems as a team by minimizing the constraints which enables the student to have continuous learning	-	-	-	-	-	-	-	-	1	-	-	1	3	-
MEE61.5	Analyze the complex engineering problems in convection heat transfer and also use computational tools to design heat exchangers.	-	-	3	2	2	-	-	-	_	-	-	-	3	_
MEE61.6	Design and develop the eco friendly Condensing and heat exchange equipment	-	-	3	-	-	1	1	-	-	-	-	-	-	1

so as to optimize the heat flow.														
AVERAGE	1	2	3	2	2	1	1	-	1	-	-	1	3	1

Course Cod	le: MEE71														
Course Nar	ne: Mechanical Vibrations														
	Statement	P01	P02	PO3	P04	PO5	PO6	P07	P08	P09	PO10	P011	P012	PSO1	PSO2
MEE71.1	Utilize the basic knowledge of physics and mechanics in understanding the theory behind free & forced vibrations, frequencies, damping, degrees of freedom and vibrations measuring instruments.	3	-	-	-	-	_	-	-	-	-	-	-	-	-
MEE71.2	Examine and identify the methods of determining the frequencies in cases of free, forced, damped, un-damped, multiple DOF and continuous systems	-	3	3	3	-	-	-	-	-	-	-	-	-	-
MEE71.3	Impart the solutions through detailed investigation & analysis of vibrations of machines and shafts under different loading conditions and evaluation of vibration of vibration measuring instruments.	-	-	-	3	2	2	_	-	-	-	-	-	-	-

MEE71.4	Use adequate theory, formula and analysis techniques to provide vibration solution for mechanical machine elements of specific application.	3	3	3	3	-	-	-	-	-	-	-	-	-	2
MEE71.5	Develop feasible engineering products with thorough vibrations investigation & analysis so as to benefit the industry and environment.	-	-	-	-	2	2	1	-	-	-	-	-	-	2
MEE71.6	Cultivate new products with the fundamental knowledge on vibrations by latest technological advancement in design of vibrating machine parts and components.	-	-	-	-	2	-	-	-	1	-	1	-	-	2

Course Code	Course Code: MEE813														
Course Name: Product Life Cycle Management															
	Statement	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	909	PO10	P011	P012	PSO1	PSO2
MEE813.1	Integrate the various stages of PLM into engineering product categories and portfolios that will evaluate into commercial success.	3	_	3	-	-	Ι	Ι	I	-	-	-	-	3	-

MEE813.2	Interpret the data with information and/or communicate the same for the supply chain and value supplier chain quotation to ensure sustainable development.	3	-	-	1	3	-	-	-	-	-	-	-	-	-
MEE813.3	Examine life cycle management strategies and knowledge to develop new and/or appropriate engineering design solutions in engineering environment.	3		3	-	-	-	-	-	1	-	-	-	-	-
MEE813.4	Translate and implement the legal, environmental and international regulatory frame works into product design, development and manufacturing requirements.	-	2	3	-	-	_	-	-	-	-	-	-	-	-
MEE813.5	assess system for corrective and preventive action to track production Quality issues through digital manufacturing.	-	-	-	-	3	-	-	-	-	-	-	-	-	3
MEE813.6	Incorporate preventive approaches concentrating on minimizing waste, hazard and risk associated with product design, development and Manufacturing.	-	-	-	-	3	-	-	-	-	-	1	-	3	-
	3	2	3	1	3	-	-	-	1	-	1	-	3	3	

#### 3.2 Attainment of Course Outcomes (75)

Describe different assessment tools (semester end examinations, mid-semester tests, laboratory examinations, student portfolios etc.) to measure the student learning and hence attainment of course outcomes. (Student portfolio is a collection of artifacts that demonstrate skills, personal characteristics and accomplishments created by the student during study period.)

The process adopted to map the assessment questions, parameters of assessment rubrics etc. to the course outcomes to be explained with examples. The process of data collection from different assessment tools and the analysis of collected data to arrive at CO attainment levels need to be explained with examples.

Assessment of the course outcome are the primary features in Outcome-Based Education (OBE). Course Outcomes (CO's) for every course is based on the NBA defined Programme Outcomes (PO's) during the earlier stage. The framed CO's are to be assessed, evaluated and check for their attainments are achieved or not. However, each course is addressed with six CO's. The Program Specific Outcomes (PSO's) are set at the department level and each course is assessed with the same.

Assessment is one of the processes to evaluate, which is carried out by the department, that identifies, collects, and prepares the data to evaluate the achievement of programme specific objectives and programme Outcomes.

Attainment is an act of achieving a set or standard result towards the accomplishment of desired goals. However, attainment is the standard of academic attainment as observed by test or examination result.

The set CO's for the respective subjects are added in the Contineo Software at the preliminary stages as shown in the figure 3.1 that indicated to Add CO'S. The CO attainment for both Continuous Internal Evaluation (CIE) and Semester End Evaluation (SEE) are determined based on these set CO's.

Dr. M S Ganesha Prasad	Home Notice-Board Pr	roctorship Change Password	Search student All Field F	leport Logout
Course coordinator	setup		Mechanical Eng	ineering 🗸
Add CO's Map CO-PO	reshold Set ISA events	Set QP pattern for ISA	Theory course SEE QP Edit	
MEE755 RAPID PROTOTYPING				



ENEW HORIZON	Dr. M S Ganesha Prasad	Home Notice-Boa	d Proctorship	Change Password	Search student	All Field Report	Logout
ourse Learning	Outcomes						Add C
CO 1. Apply the k	nowledge of physics and material	science in understanding the	vorking principle of	f additive manufacturing			Edit
CO 2. Analyze the	limitations and advantage of eac	h additive manufacturing tech	nique.				Edit
CO 3. Test the qu	ality of the products built through	additive manufacturing techn	que in soft tooling	and hard tooling applica	tions.		Edit
CO 4. Synthesize t	the information of process param	eters with adequate optimizati	on techniques using	g Internet based softwar	ne.		Edit
CO 5. Demonstrat	e the knowledge of additive man	ufacturing in the application at	Medical and produ	ct development Industri	es by executing the p	orojects.	Edit
		المراجد ومحمد وبالمراكد ومراجع ليت	e knowledge of late	est software in terms of	software and bardwa	re integration	Edit

CO attainment basically displays the student's knowledge and skills from their performance. It can be determined from the performance of the students in all the relevant assessment instruments – like internal assessments (CIE), assignments, quiz and final university examination (Semester End Examination). These methods provide a sampling of what students know and/or can do and provide strong evidence of student learning. Indirect methods such as surveys and interviews ask the stakeholders to reflect on student's learning. They assess opinions or thoughts about the graduate's knowledge or skills. Indirect measures can provide information about graduate's perception of their learning and how this learning is valued by different stakeholders.

Dr. M S Ganesha Prasad Home Notice-	Board Proctorship Cha	nge Password Search stud	ent All Field Repo	rt Logout
1 Target updated				
etup page			Mechanical Eng	ineering 🔨
Department Name	Direct Weightage %	Indirect Weightage %		
Mechanical Engineering	80.00	20.00		
emester 7 Course Name	Threshold %	ISA / IA weightage	ESE weightage	Use for calculatio
RAPID PROTOTYPING ( MEE755 )       TARGET % of students above Threshold CO wise       CD 1 : Apply the knowledge of physics and material science in       CD 2 : Analyze the limitations and advantage of each additive       CD 3 : Test the quality of the products built through additive m	68.00	50.00	50.00	
CD 3 : New one quarky of one produces that through abulity film. 70,00 CD 4 : Synthesize the information of process parameters with a 70,00 CD 5 : Demonstrate the knowledge of additive manufacturing in 70,00	00100	20100	50100	

Each CO's are set with a common threshold value which means to say that equal importance is given for all the framed CO's. In this example as shown above, the course name "Rapid Prototyping-MEE755" has five CO's with target percentage of 70 and threshold percentage of 68. In this case, it is expected that 70% of the total students score 68% and above in their CIE and SEE examinations to gain an attainment of 3 (High). The attainment becomes 2 (Medium) when 60% to 69% of the total students score 68% and above in their CIE and SEE examinations. Similarly, the attainment value would be 1 (low) when 50% to 59% of the total students score 68% and above in their CIE and SEE examinations.

Internal Assessment (CIE) and External assessment (CIE with SEE) are given 50% of weightage (equal weightage).

#### Tools used in measuring CO

- The method of assessment method includes:
  - i. Internal Assessment
- ii. Assignments

- iii. Quizzes
- iv. Internal Laboratory test
- v. Mini Projects
- vi. Project
- vii. Industry Internship
- viii. Semester End Examination

•	NEW DOBIE	2	Dr. M S Ganesha Prasad	Home	Notice-Board	Proctorship	Change Password	Search student	All Field Report	Logout	
	Click below	button to	select course and copy	current (	configuration.	VEE432 - BAS VEE63 - DESI VEE431 - COM VEEE651 - NO	IC THERMOD GN OF MACH MPUTER AIDE NN-CONVENT	Сору			

#### View Bucket for the course

Course Name	:	RAPID PROTOTYPING
Course Code	:	MEE755
L:T:P:S	:	3:0:0:0
Subject Area	:	Professional Studies Electives
CIE Maximum Marks	:	50
SEE Maximum Marks	:	50
SS Maximum Marks	:	0

Set relational equation using 'Bucket Code' for below buckets equating to CIE Marks: 50



#### Buckets

Sl No.	Bucket Code	Bucket Name	Event Short Name	No. of events in bucket	Event relation in this bucket	Bucket Max Marks	Actual CIE Marks	Downgrade/Upgrade rounding	Lab component	Option
1	A	TEST	Т	3 🗸	Average of all events	25	25	No rounding 🖌		View Event
2	B	ASSIGNME	A	2 🗸	Sum 🗸	15	15	No rounding 🖌		View Event
3	С	QUIZ	٩	2 🗸	Sum 🗸	10	10	No rounding 🖌		View Event

Assessment Tool Type	Assessment Tool Title	Tool Description
Direct Assessment Tool	Internal Assessments	<ul> <li>The Department will conduct three continuous internal evaluation (CIE), scheduled in accordance with the calendar of events to achieve the framed COs.</li> <li>Three CIE tests are scheduled per course in a semester and questions in the CIE question paper are mapped to COs.</li> <li>The teaching of at least 1.5 to 2 units would be completed before each of the respective CIE test.</li> <li>The three CIE tests will be conducted for 25 marks for the duration of 1 Hour.</li> <li>The faculty incharge(s) will prepare the Question papers for the respective course and will be submitted to CIE Internal Assessment coordinator well in advance.</li> <li>Internal Assessment coordinator will scrutinize the question paper with a team of members.</li> <li>The assessment process considers the marks scored in three Continuous Assessment Tests.</li> <li>Corrected scripts are distributed to the students, and results are declared within three working days after the completion of the internal tests.</li> </ul>
	Assignments	<ul> <li>Application based Assignment Questions are prepared for each course, based on the course objectives.</li> <li>Assignment works submitted by students are assessed towards attainment of COs by the faculty in charge concerned.</li> <li>It also helps to guide written presentation skills and improve the thinking capability of the students.</li> </ul>
	Quizzes	<ul> <li>Quiz questions are prepared for each course to test the knowledge and reasoning power of students.</li> <li>Quiz is conducted periodically as per the Calendar of Events.</li> <li>During the class students will be given test</li> </ul>

Table 3.2.1 Tools used in measuring CO

	<ul> <li>without previous announcements on any day within the week as mentioned in the Calendar of Events.</li> <li>The topics handled in the previous class or a problem relating to the topic handled will give as questions.</li> <li>Correct answers to the questions are discussed in the class after the completion of quiz.</li> <li>Quiz marks are recorded for assessing the attainment of COs.</li> </ul>
Internal Laboratory Test	<ul> <li>To evaluate student's practical knowledge with their programming level capabilities, evaluation is done for every lab session.</li> <li>The evaluation of courses done by the laboratory in-Charge(s) based on predefined rubrics.</li> <li>1. Lab record assessment: 10 marks <ul> <li>Execution: 2 marks,</li> <li>Viva voce: 2 marks,</li> <li>Record writing: 6 marks</li> </ul> </li> <li>2. Procedure write up: 5 marks</li> <li>3. Execution: 5 marks</li> <li>4. Viva-voce: 5 marks</li> </ul> <li>One Lab internal assessments are done for the lab integrated courses per semester.</li> <li>Based on the laboratory reports, practical test, and the performance of the students, the Internal assessment marks shall be awarded on the abovementioned rubrics.</li> <li>The strength of the students in using their skills and tools in the laboratory examinations.</li>
Mini Projects	• It provides an opportunity to students to demonstrate independence and originality, to plan and organize a project over a given period, and to put into practice, the techniques that have been taught and to gain hands on experience on product development. Mini project is assessed with 2

	credits
	cicuits.
Projects	<ul> <li>The total credits allotted for project is 12 credits. Projects will be selected based on the need and student's interest. Phase-I will be evaluated based on problem identification. In project phase-II students are expected to clearly define the objectives, work plan and Methodology with the support literature survey.</li> <li>Students will be divided into individual/groups; with maximum of 4 students.</li> <li>Every group will be mentored by a faculty.</li> <li>Three reviews will be conducted, and the students will be reviewed by a panel of Project coordinator and internal project guide.</li> <li>Project Batches are assigned to the internal guides based on the area of interest and research work carried by the faculties.</li> <li>The internal project guide will continuously guide and monitor the students on weekly basis and get the updates of the works done by their corresponding batch of students.</li> <li>The project batch students are asked to stay back on the assigned days so as to get guided and monitored by the faculty.</li> <li>The Internal Assessment marks in case of project shall be based on the evaluation at the end of 8<sup>th</sup> semester by the committee consisting of Head of the Department, Project Coordinator(s) and faculty members of the department whom shall be the project guide.</li> <li>For Project evaluation, assessment process considers the marks scored in Review 0, Review1, Review2, and Review3 and proportionately allotted to 50 marks.</li> <li>Final project Viva Voce is conducted by the panel of external examiners will examine the students and awarded the marks to the students.</li> <li>The department encourages the students and awarded the marks to the students.</li> </ul>

		technical paper presentations.	
Indu Interr	• The industrial internship offered at the e seventh semester is used to measure the Appropriate rubrics are used for assessin attainment of related POs.		
Semest Exami	er End nation •	At the end of each semester, Semester End Examination is conducted for all courses. Controller of Examinations (COE) will schedule and execute the Semester End Examinations for each semester which would be the metric for assessing whether the COs are attained or not. Examinations are focused on attainment of course outcomes using a descriptive exam. The questions for this examination cover entire syllabus of the courses. The questions are mapped with the COs.	

- For semester end examination, all assessments of a course will be done on marks basis. However, for the purpose of reporting the performance of a candidate, letter grades, each carrying certain number of points, will be awarded as per the range of total marks (out of 100) obtained by the candidate in each course as detailed below.
- The statement of marks for UG, Professional courses will be issued to the students on par with international standard incorporating Grade Point Average (GPA) and Cumulative Grade Point Average (CGPA).
- Revaluation of answer scripts for the current semester is permissible for all UG, Professional Courses. Students can apply for revaluation in the prescribed format within 10 days from the date of publication of results photocopy of the answer paper will be given by the university.
- A special supplementary examination will be conducted during the month of July/August for the students who have failed in not more than two subjects so as to enable the students to qualify for the course to get their degrees.

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CO Attainment	Weightage	Assessment Tools
CO attainment	100%	Continuous Internal Assessment [I, II, III], Assignments, Quizzes, Self study, Co curricular activity [50%]
		Semester End Examination (SEE) [50%]

### Table 3.2.2 Calculation of CO Attainment

The individual COs of the courses is mapped with Correlation level and is being evaluated by prescribed assessment tools. The attainment of individual CO is calculated by assigning separate weightage to the continuous assessment tests, end term examination, assignments, and quizzes. The attainment of COs is compared with the target level. The CO is said to be attained if its attainment value is greater than or equal to set target attainment level.

#### **Theory Course Evaluation**

Assignments, assessment tutorials, continuous assessment test, end term semester examinations are conducted and evaluated. The distribution of marks for theory courses is as given in table 3.2.3 below.

Assessment Tool	Maximum Marks	Marks Scaled to	Weightage	
Assignments / Quizzes / Self Study / Cocurricular Activities	25	25	50%	
Continuous Internal Evaluation – 1 (CIE)	25			
Continuous Internal Evaluation – 2 (CIE)	25	25		
Continuous Internal Evaluation – 3 (CIE)	25			
Semester End Exam	100	50	50%	

#### Table 3.2.3 Distribution of marks for theory courses evaluation

#### Laboratory Integrated Course Evaluation

Observation, individual report, laboratory integrated examination is conducted and evaluated. The distribution of marks for laboratory integrated courses is shown in the following table 3.2.4.

Component of Evaluation	Internal/External	Marks	Weightage	
Assignments / Quizzes		25	25%	
Continuous Internal Evaluation – 1 (CIE)	Laterres 1	25		
Continuous Internal Evaluation – 2 (CIE)	Internal	25	25%	
Continuous Internal Evaluation – 3 (CIE)		25		
Semester End Exam	External	100	50%	
	Theory Total	100		
Lab Continuous Internal Assessment	Laterres 1	10	500/	
Internal Lab Test	Internal	15	50%	
Lab Experiment Writeup and conduction		20	5004	
Viva by External Examiner	External	05	50%	
	Lab Total	50	- -	
Integ	rated Lab Course Total	150		
	Marks scaled to	50%		

### Table 3.2.4 Distribution of marks for lab courses evaluation

### Internship Evaluation (SEE and CIE)

### Table 3.6 Distribution of marks for internship evaluation

Assessment	COs	Rubrics	Marks Allotted	Mappe d POs	Mappe d PSOs
Internship Duration	CO1, CO2, CO3, CO4.	Excellent(S) (100%): Duration of the project is at least for 3 months. Student working on the subjects related to mechanical engineering domain latest or adequate tools. Very Good (A) (80%): Duration of the project is between 2 to 3 months. Student working on the subjects related to mechanical engineering domain latest or adequate tools. Good (B) (60%): Duration of the project is between 1 to 3 months. Student working on the subjects related to mechanical engineering domain latest or adequate tools. Fair(C) (40%): Duration of the project is for 1 to 2 months Student working on the subjects related to mechanical engineering domain latest or adequate tools.	20 15 10 05	PO1, PO2, PO3, PO4, PO5, PO8, PO9, PO11, PO12	PSO1, PSO2
		<b>Unsatisfactory (D) (0):</b> No internship work carried out.	00		
Internship yield	CO1, CO2, CO3, CO4	<b>Excellent(S)</b> (100%): Description of methods used and analysis of the data is appropriate, complete and clear.	20	PO1, PO2,	
		<b>Very Good (A) (80%):</b> Description of methods used and analysis of the data is appropriate with lacking details and analysis of the data are appropriate.	15	PO3, PO4, PO5,	PSO1, PSO2
		<b>Good (B) (60%):</b> Description of methods and analysis of the data is lacking in a repetitive number of places. However used methods and analysis of data mostly appropriate.	10	PO6, PO8, PO9,	

		Fair(C) (40%): Insufficient description of methods and analysis of the data in a repetitive number of places. However used methods and analysis of data mostly not appropriate.	05	PO10, PO11, PO12.	
		<b>Unsatisfactory (D) (0):</b> No description of methods and analysis of the data.	00		
Internship Report Co Co Co		<b>Excellent(S) (100%):</b> Student is able to defend his/her internship project, including indications how the work could have been done better. Student is able to place thesis in either scientific or practical context.	10	PO1, PO2,	
	CO1,	Very Good (A) (80%): Student is able to defend his/her internship project. He masters the contents of what he wrote, but not beyond that. Is not able to place thesis in scientific or practical context.	08	PO3, PO4, PO5,	
	CO2, CO3, CO4	<b>Good (B) (60%):</b> Student is able to defend his/her internship project. He mostly masters the contents of what he wrote, but for a limited number of items he is not able to explain what he did, or why.	05	PO6, PO7, PO8, PO9,	PSO1, PSO2
		Fair(C) (40%): Student has difficulty to explain the subject matter of the internship project.	02	PO10, PO11, PO12	
		<b>Unsatisfactory (D) (0):</b> Student is not able to defend/discuss his/her internship reports. He does not master the contents.	00	r 012.	
Individual assessment	<ul> <li>The student answering all the questions during the presentation time with satisfactory justification would be rewarded with maximum marks.</li> <li>Marks for the individual students are provided on their communication and presentation skills with three grades: Excellent, Good, and average.</li> </ul>				
#### **Evaluation Scheme for Mini-Project and Projects**

**Mini Project and Project** 

Sl no	Agenda	Description	Course Outcomes	Mark s weigh t age	Rubric	Mappe d POs and PSOs
1	Project title and Synopsis Submission	Synopsis submission and interpretation of problem statement - Synopsis Submission evaluated by Guide and Project Coordinator: Identification of Domain, specific problem statement that focuses on latest technology, summary of proposed solution with design requirements.	CO1,	40%	Excellent(S) 100%: Domain specific problem statement that focuses on latest technology relevant to Mechanical engineering with exact outcomes specified and aligned to engineering issues and societal issues. Very Good (A) 80%: There are very few or too many outcomes specified and have little impact on engineering issues and societal issues. Good (B) 60%: There are very few or too many outcomes specified and have little impact on engineering issues and societal issues. Good (B) 60%: There are very few or too many outcomes specified and have little impact on engineering issues and societal issues. Good (B) 60%: There are very few or too many outcomes specified and have no impact	PO1, PO2, PO3, PO4, PO6, PO10, PO12.

#### Table 3.7 Evaluation scheme for Mini-Project and Project

					issues and societal issues. <b>Fair (C) 40%:</b> There are no targeted outcomes specified and have no impact on engineering issues and societal issues. <b>Unsatisfactory</b> (D) 0%: Irrelevant problem statement and has no outcomes defined and no critical thinking	
2	Literature review and tentative project plan	Literature Survey with PPT presentation - Literature Survey evaluated by Guide: Literature Survey with PPT presentation. Partial report (soft copy) to be shown including Introduction, Literature survey. Design and Implementation evaluated by Guide, with adequate PPT presentation. Partial report (soft copy) to be shown including Requirements and high - level Design.	CO1, CO2, CO3, CO4, CO5	40%	involved. Excellent(S) 100%: The appropriate content is covered in depth without being redundant. Sources are cited when specific statements are made. Significance to purpose is unquestionable. Very Good (A) 80%: All major sections of the contents are included, but not covered in as much depth, or as	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10 PO11, PO12.

					explicit, as expected. Significance to	
					purpose is evident.	
					Good (B) 60%:	
					the content are	
					included, but not	
					covered in as	
					much depth, or as	
					explicit, as	
					expected.	
					significance to	
					Fair (C) 40%:	
					Few sections of	
					pertinent content	
					have been	
					omitted. The	
					significance to	
					the purpose.	
					Excellent(S)	
					100%:	PO1,
					Two papers	PO2,
		Documentation (Report			with Clearly and	PO3
		<b>Submission</b> ) - Final			effectively	DO4
	Paper	Project Report			documented	PO4,
	publications	Submission with proper			including	PO5,
	and report	certificates and bonded as	CO4,		concepts.	PO6,
3	Submission	per instructions specified	CO5	20%	Plagiarism check	PO7,
	plagiarism	within deadline (based on	CO3.		report (Less than	PO8
	check	given project guidelines).			10%).	<b>D</b> O0
		national or international			very Good (A) 80%:	FU9,
		conferences/ journals			One paper	PO10,
					published with	PO11,
					Clearly	PO12.
					aocumented	
	<u> </u>				menuumg	

	descriptions of all
	concepts.
	Plagiarism check
	report (11%-15%)
	Good (B) 60%:
	Basic
	documentation
	has been
	completed
	including
	descriptions of all
	Disciplination of the state
	Plagiarism check
	report (16%-20%)
	<b>Fair (C) 40%:</b>
	Basic
	documentation
	has been
	completed
	including
	descriptions of all
	concepts.
	Plagiarism Check
	Report (21%-
	25%)
	Unsatisfactory
	(D) <b>0%:</b>
	No
	documentation
	included No
	Plagiarism check
lividual aggaggment.	i lagiarism cheek.
The student engine all the a	mations during the presentation time
The student answering all the q	he assumed a with maximum marks
satisfactory justification would	be rewarded with maximum marks.
Marks for the individual studen	its are provided on their communication and
presentation skills with three or	cades: Excellent Good and average

Course Outcome (CO) attainment is directly measured from the performance of students in Continuous Internal Evaluation (CIE) and Semester End Examination (SEE). The subjects of Mechanical Engineering are grouped into the streams of subjects related to Manufacturing,

Thermal, Design, Management and Projects. For assessing the attainment of COs in CIE and SEE, the course outcomes are mapped to respective questions of CIE and SEE with set target for each CO of the courses.

The courses are grouped into the above said streams of Mechanical Engineering and are listed in Table 3.2.2.1

Subject Streams	Subject Code
Manufacturing	15ME24, MEE331/431, MEE351/451, MEE51, MEE54, MEE62,
	MEE63, MEE71, MEE72, MEE744, MEE84.
Thermal	MEE332/432, MEE362/462, MEE52, MEE53, MEE61, MEE654,
	MEE754
Design	15ME24, MEE331/431, MEE351/451, MEE51, MEE54, MEE62,
	MEE63, MEE71, MEE72, MEE744, MEE84
Management	MEE55, MEE731, MEE813
Project	MEE57, MEE67, MEE82, MEE83

Table 3.2.2.1: Streams of mechanical engineering subjects and associated subjects

**Manufacturing:** The threshold and the target for the COs for the respective subjects are tabulated as shown in the figure 3.2.2.1 below. The threshold for all the manufacturing subjects is **68%** of the total marks and the set target is 70%, which means to say that 70% and above % of students score greater than or equal to 68% of the total marks in both CIE and SEE.

Figure 3.2.2.1: CO targets shown of the subject code 16MEE341 under manufacturing stream



**Thermal:** The threshold and the target for the COs for the respective subjects are tabulated as shown in the figure 3.2.2.2 below. The threshold for all the manufacturing subjects is **72%** of the total marks and the set target is 65%, which means to say that 65% and above % of students score greater than or equal to 72% of the total marks in both CIE and SEE.

Course Name	Threshold %	ISA / IA weightage	ESE weightage	Use for calculation
BASIC THERMODYNAMICS ( 16MEE332 )         TARGET % of students above Threshold CO wise         CO 1 : Apply the basic concepts of thermodynamics like system         65.00         CO 2 : Apply the laws of thermodynamics to various processes         65.00         CO 3 : Evaluate and quantify the energy transfer between a the         65.00         CO 4 : Select and apply correct energy analysis for a given ther         65.00         CO 5 : Analyze the Properties of Pure substances in real thermo         65.00         CO 6 : Formulate governing equations of Ideal gas and real gas         65.00	72.00	50.00	50.00	2

Figure 3.2.2.2: CO targets shown of the subject code 16MEE332 under thermal stream

**Design:** The threshold and the target for the COs for the respective subjects are tabulated as shown in the figure 3.2.2.3 below. The threshold for all the manufacturing subjects is **64%** of the total marks and the set target is 60%, which means to say that 60% and above % of students score greater than or equal to 64% of the total marks in both CIE and SEE

Figure 3.2.2.3: CO targets shown of the subject code 16MEE351 under design stream



**Management:** The threshold and the target for the COs for the respective subjects are tabulated as shown in the figure 3.2.2.4below. The threshold for all the manufacturing subjects is **72%** of the total marks and the set target is 70%, which means to say that 70% and above % of students score greater than or equal to 64% of the total marks in both CIE and SEE



Course Name	Threshold %	ISA / IA weightage	ESE weightage	Use for calculation
PROJECT MANAGEMENT AND ENTREPRENEURSHIP ( MEES5 )         TARGET % of students above Threshold CO wise         CO 1 : Apply basic principles of project management for real ti         70.00         CO 2 : Identify the needs, roles and responsibilities of a leader f         70.00         CO 3 : Develop project execution plans for global and virtual pr         70.00         CO 4 : Apply appropriate techniques for scheduling and evaluati         70.00         CO 5 :Promote entrepreneurship as an individual or as a group         70.00         CO 6 : Develop solutions for barriers in Small scale industries	72.00	50.00	50.00	2

**Project:** The threshold and the target for the COs for the respective subjects are tabulated as shown in the figure 3.2.2.5 below. The threshold for all the manufacturing subjects is **80%** of the total marks and the set target is 85%, which means to say that 85% and above % of students score greater than or equal to 80% of the total marks in both CIE and SEE.

Figure 3.2.2.5: CO targets shown of the subject code MEE57 under Project stream

Course Name	Threshold %	ISA / IA weightage	ESE weightage	Use for calculation
MINI PROJECT ( MEE57 )         TARGET % of students above Threshold CO wise         CO 1 : Apply the concepts of engineering fundamentals to do a         85.00         CO 2 : Recognize the need based on research literature survey         85.00         CO 3 : Manage the team by allotting responsibilities by analyzin         85.00         CO 4 : Use modern tools with safety norms to solve complex pr         85.00         CO 5 : Develop the system for sustainability by green manufact	80.00	50.00	50.00	

The Target for each CO are listed from figure 3.2.2.1 to figure 3.2.2.5. However, the attainment of the Cos based on the attainment percentage. Attainment is reported only for intersection of CO-PO/PSO which has been mapped with 1/2/3.

Definition of attainment computation items

**Threshold:** Is set for a course, applies to all CO's of a course and is the minimum % age of marks that need to be obtained by a student to be considered for computation of attainment

**Target:** Is set in % age of students that will score above the threshold and Is set for each CO in a course

Attainment: Is reported in 3-2-1 format and is interpreted as

- 3: Strongly attained
- 2: Moderately attained
- 1: Nominally attained
- 0: Not attained

#### Interpretation

*Strongly attained: 3*: If the target % of students have scored greater than threshold then the attainment is 3 or strongly attained

*Moderately attained: 2*: If target for attainment is missed, then the target is reduced by 10% and then if the revised target % (original % - 10%) of students have scored greater than threshold then the attainment is considered to be 2 or Moderately attained

*Nominally attained: 1:* If target for attainment is missed for level 2 above, then the target is reduced by a further 10% and then if the revised target % (original % - 20%) of students have scored greater than threshold then the attainment is considered to be 1 or Nominally attained

*Not attained: 0:* If all the three conditions above are not met, then the attainment is considered as 0

Level for CO attainment								
	Level	3	2	2	-	1	0	
CIE and SEE Assessment	Threshold	GreaterThresholdthan ormaxequal toi		min	max	min	below	
Manufacturing subjects	68%	70%	69%	60%	59%	50%	49%	
Thermal subjects	72%	65%	64%	55%	54%	45%	44%	
Design subjects	64%	60%	59%	50%	49%	40%	39%	
Management subjects         72%         70%         69%         60%         59%         50%							49%	
Project	80%	85%	84%	75%	74%	65%	64%	

Table 3.2.2.2: Rubrics for CO attainment

The detailed calculation of CO attainment is done for all subjects and a sample of the same is shown for the subject code MEE64. In table 3.2.2.3 for CIE and table 3.2.2.4 for SEE.

			OBE CAL	CULATION	ISA ATTAINN	IENT (CIE) M	EE64		
CO's	CO Target	Threshold	Number of Students Scored Above Threshold %	Total Students Attempted	Attainment Percentage	Attainment	CO Max Marks	x	Y
								Marks weightage of total	Weighted Attainment
CO1	65.00 %	68.00 %	204	247	82.59	3	17404	0.2410	0.7230
CO2	65.00 %	68.00 %	226	247	91.5	3	9722	0.1346	0.4039
CO3	65.00 %	68.00 %	190	245	77.55	3	22791	0.3156	0.9468
CO4	65.00 %	68.00 %	151	244	61.89	2	9003	0.1246	0.2493
CO5	65.00 %	68.00 %	154	244	63.11	2	7252	0.1004	0.2008

Table 3.2.2.3: OBE calculation for CIE (Automation Engineering – MEE64)

CO6	65.00 %	68.00 %	137	244	56.15	2	6035	0.0835	0.1671
						Total Marks:	72207		
Weighted CIE attainment for one PO if all CO's are mapped is SUM of Y: 2.6							2.69		

#### Table 3.2.2.4: OBE calculation for SEE (Automation Engineering – MEE64)

OBE CALCULATION ISA ATTAINMENT (SEE) MEE64									
CO's	CO Target	Threshold	Number of Students Scored Above Threshold %	Total Students Attempted	Attainment Percentage	Attainment	CO Max Marks	X	Y
								Marks weightage of total	Weighted Attainment
CO1	65.00 %	68.00 %	64	130	49.23	1	2347	0.1171	0.1171
CO2	65.00 %	68.00 %	76	135	56.3	2	2521	0.1258	0.2517
CO3	65.00 %	68.00 %	110	227	48.46	1	7831	0.3910	0.3910
CO4	65.00 %	68.00 %	120	222	54.05	1	3415	0.1705	0.1705
CO5	65.00 %	68.00 %	49	81	60.49	2	1439	0.0718	0.1436
CO6	65.00 %	68.00 %	65	142	45.77	1	2475	0.1235	0.1235
						Total Marks:	20029		
	Weighted SEE attainment for one PO if all CO's are mapped is SUM of Y:							1.2	

Weighted average is determined by



#### Sample calculation:

Г

A sample calculation is shown for the Subject Code MEE64, where CO1 for CIE has 17404 marks out of 72207 total marks. Therefore, the marks weightage 'X' is determined by obtained

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marks divided by total marks ( $17404 \div 72207 = 0.2410$ ). Overall weighted attainment 'Y' is determined by multiplying the attainment value with 'X' ( $17404 \div 72207 \times 3 = 0.7230$ ).

Similar calculation methodology is adopted to determine the CO attainment of SEE and is shown from 3.2.2.5 to 3.2.2.8 for both CIE and SEE in terms of percentage and attained values.

	Semester End Evaluation (CIE)													
Course		Target	ed Pero	centage	of Cos			Attainn	ient Per	centage	of COs	;		
	CO1	CO2	CO3	CO4	CO5	CO6	CO1	CO2	CO3	CO4	CO5	CO6		
	•	•	•		I SEMI	ESTER								
15MA11	55	55	55	55	55	55	93.16	93.16	93.16	92.9	92.9	92.9		
15PH12	60	60	60	60	60	60	99.7	99.7	99.7	99.7	99.7	99.9		
15ME13	60	60	60	60	60	60	96.3	96.6	99.7	99.5	99.5	99.5		
15CIV14	60	60	60	60	60	60	99.9	99.9	99.9	99.4	99.4	99.4		
15EEE15	50	50	50	50	-	-	95.6	95.6	95.6	97.1	-	-		
15HB16	50	50	50	50	-	-	92.8	92.8	92.8	92.8	-	-		
					II SEM	ESTER								
15MAT21	55	55	55	55	55	55	87.33	87.33	87.33	86.85	86.85	86.85		
15CH22	60	60	60	60	60	60	99.6	99.6	99.6	99.6	99.6	99.7		
15CS23	60	60	60	60	60	60	91.1	91.2	92.8	92.7	93.2	89.7		
15ME24	60	60	60	60	60	60	92.0	92.0	92.0	91.5	91.5	91.5		
15EC25	60	60	60	60	60	60	70.1	70.8	73.6	71.0	70.8	78.3		
15HP26	65	65	65	65	-	-	81.1	81.1	80.6	81.1	-	-		
				]	III SEM	ESTER	۲.							
16MAT31	65	65	65	65	65	65	99.25	99.25	99.25	99.25	99.25	98.87		
16HSS322/422	50	50	50	50	50	50	84.05	64.58	89.93	88.21	88.88	48.58		
16MEE331/431	60	60	60	60	60	60	67.71	69.95	70.76	63.18	72.35	61.93		
16MEE341/441	70	70	70	70	70	70	89.63	90.46	89.06	90.46	88.00	85.64		
16MEE351/451	60	60	60	60	60	60	90.46	79.83	80.99	82.70	74.88	69.20		
16MEE361/461	70	70	70	70	70	70	60.11	87.95	64.84	78.86	56.89	58.87		
				]	IV SEM	ESTER	۲.							
16MAT41	65	65	65	65	65	65	84.41	84.41	84.41	84.41	84.41	84.41		
16HSS421/321	65	65	65	65	65	65	84.05	64.58	89.93	88.21	88.88	48.58		
16MEE432/332	65	65	65	65	65	65	27.30	31.64	29.93	28.44	25.59	37.48		
16MEE442/342	70	70	70	70	70	70	72.71	74.18	78.84	89.11	82.02	63.39		
16MEE452/352	70	70	70	70	70	70	76.38	77.71	75.07	90.40	86.14	61.98		
16MEE462/362	65	65	65	65	65	65	80.00	73.46	74.41	74.26	72.39	74.62		
					V SEM	ESTER	_							

Table 3.2.2.5: Semester End evaluation of CIE-CO target and attainment in percentage.

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MEE51	60	60	60	60	60	60	96.81	96.83	99.6	92.06	89.11	91.13
MEE52	65	65	65	65	65	65	86.9	89.68	85.66	76.49	78.14	85.43
MEE53	65	65	65	65	65	65	86.85	76.1	77.69	70.52	83.87	91.13
MEE54	60	60	60	60	60	60	76.71	82.66	73.49	71.37	87.1	66.27
MEE55	70	70	70	70	70	70	68.94	63.35	53.73	89.07	70.05	0
MEE561	70	70	70	70	70	70	96.4	98.39	91.27	88.89	92.74	91.94
MEE57	85	85	85	85	85	-	99.18	98.37	98.78	74.8	27.12	-
			•		VI SEM	IESTEI	2					
MEE61	65	65	65	65	65	65	86.53	79.59	92.65	72.65	27.87	27.05
MEE62	60	60	60	60	60	60	74.29	70.61	73.47	59.59	70.61	74.29
MEE63	60	60	60	60	60	60	81.56	77.46	84.02	70.49	61.07	58.2
MEE64	70	70	70	70	70	70	82.59	91.5	77.55	61.89	63.11	56.15
MEE651	70	70	70	70	70	70	97.5	95	95	72.5	70	72.5
<b>MEE654</b>	65	65	65	65	65	65	64.67	64.56	70.73	65.2	50	26.6
MEE67	85	85	85	85	85	-	91.39	91.8	90.98	88.93	34.84	-
				I	/II SEM	IESTE	R					
MEE71	60	60	60	60	60	60	80.93	97.03	100	95.76	91.95	91.53
MEE72	60	60	60	60	60	60	59.32	70.34	75.42	90.25	73.73	75
MEE731	70	70	70	70	70	70	56.36	77.97	72.46	93.22	100	100
<b>MEE744</b>	65	65	65	65	65	65	66.84	71.12	100	100	83.24	78.92
MEE745	70	70	70	70	70	70	100	85.71	100	100	95.92	91.84
<b>MEE754</b>	65	65	65	65	65	65	33.33	33.33	30.3	28.79	24.24	81.82
<b>MEE755</b>	70	70	70	70	70	70	64.12	75.29	68.82	100	82.74	36.81
				V	III SEN	<b>AESTE</b>	R					
<b>MEE813</b>	70	70	70	70	70	70	53.42	62.59	52.38	41.5	41.5	40.82
<b>MEE814</b>	70	70	70	70	70	-	86.52	82.02	87.64	85.39	85.39	-
MEE82	85	85	85	85	85	85	22.88	94.07	67.37	67.52	-	-
MEE83	85	85	85	85	85	85	90.25	88.98	92.8	90.25	80.08	-
MEE84	60	60	60	60	60	60	91.95	84.75	91.1	83.47	81.78	84.75

Table 3.2.2.6: Semester End evaluation of SEE-CO target and attainment in percentage

					Sem	nester E	nd Evalu	ation (SE	EE)				
Course		Target	ed Pero	centage	of Cos			Attain	ment Per	rcentage	of COs		
	CO1	CO2	CO3	CO4	CO5	CO6	CO1	CO2	CO3	CO4	CO5	CO6	
I SEMESTER													
15MA11	55	55	55	55	55	55	90.07	90.07	90.07	90.07	90.07	90.07	
15PH12	60	60	60	60	60	60	98.3	98.3	98.3	98.3	98.3	98.3	
15ME13	60	60	60	60	60	60	97.9	97.9	97.9	97.9	97.9	97.9	

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15CIV14	60	60	60	60	60	60	94.5	9/ 5	9/ 5	94.5	94.5	9/ 5
15EFE15	50	50	50	50			94.5	94.3	94.5	94.5	94.5	94.5
15HB16	50	50	50	50	-	-	08.3	08.3	08.3	08.3	_	-
1311010	50	50	50	50		- MESTI	70.5 FR	90.5	90.5	90.5	-	-
15MAT21	55	55	55	55	55	55	90.11	90.11	90.11	90.11	90.11	90.11
15CH22	60	60	60	60	60	60	94 7	94 7	94 7	94 7	94 7	94 7
15CS23	60	60	60	60	60	60	94.8	94.8	94.8	94.8	94.8	94.8
15ME24	60	60	60	60	60	60	95.0	95.0	95.0	95.0	95.0	95.0
15EC25	60	60	60	60	60	60	62.1	62.1	62.1	62.1	62.1	62.1
15HP26	65	65	65	65	-	-	99.4	99.4	99.4	99.4	_	-
				I	III SE	EMEST	ER	I	I		1	1
16MAT31	65	65	65	65	65	65	65.15	76.61	81.39	87.25	76.26	71.35
16HSS322/422	50	50	50	50	50	50	41.04	52.71	39.58	71.06	49.76	48.45
16MEE331/431	60	60	60	60	60	60	67.71	69.95	70.76	63.18	72.35	61.93
16MEE341/441	70	70	70	70	70	70	80.82	80.70	69.76	81.34	68.06	75.54
16MEE351/451	60	60	60	60	60	60	43.62	55.30	54.42	41.90	21.30	47.51
16MEE361/461	70	70	70	70	70	70	44.71	34.16	29.41	6.67	30.64	28.90
		1	1	n	IV SE	EMEST	ER					
16MAT41	65	65	65	65	65	65	84.94	84.94	84.94	84.94	84.94	84.94
16HSS421/321	65	65	65	65	65	65	48.18	61.85	69.49	44.00	51.27	46.23
16MEE432/332	65	65	65	65	65	65	48.92	60.88	65.10	38.39	40.48	50.99
16MEE442/342	70	70	70	70	70	70	34.79	38.34	50.44	73.78	63.14	42.52
16MEE452/342	70	70	70	70	70	70	72.35	71.81	67.50	62.40	57.37	60.05
16MEE462/362	65	65	65	65	65	65	52.11	46.07	47.76	41.28	41.45	54.46
					V SE	MESTI	ER	1	1	1	1	1
MEE51	60	60	60	60	60	60	77.29	15.56	0	64.19	52.65	44.24
MEE52	65	65	65	65	65	65	23.04	24.68	21.4	25.54	17.07	45.95
MEE53	65	65	65	65	65	65	17.71	16.92	28.71	33.5	45.92	25.37
MEE54	60	60	60	60	60	60	58.1	28.33	40.85	60.65	60.48	53.46
MEE55	70	70	70	70	70	70	76.19	78.38	52.43	11.63	26.01	17.97
MEE561	70	70	70	70	70	70	80.2	79.18	53.93	81.22	48.37	48.73
MEE57	85	85	85	85	85	85	99.18	98.37	98.78	74.8	27.12	-
		65	65	65	VI SE	EMEST	ER	00.01	0.6.1.1	2626	22.00	40.07
MEE61	65	65	65	65	65	65	46.32	32.21	26.11	36.36	23.89	40.85
MEE62	60	60	60	60	60	60	65.89	53.42	56.02	69.87	50.94	22.73
MEE63	60 70	60 70	60 70	00 70	00 70	00 70	38.96	50	32.54	50	37.21	27.4
MEE64	/0	70	70	70	70	70	49.23	56.3	48.46	54.05	60.49	45.77
MEE651	70	/0	/0	/0	/0	/0	61.54	64.1	65	21.05	62.5	12.5
MEE654	65	65	65 95	65 95	65	65	59.28	03./8	51.41	08.06	45.6	55.94
MEE67	85	85	85	85	85	-	91.39	91.8	90.98	88.93	34.84	-

					VII SI	EMEST	ER					
MEE71	60	60	60	60	60	60	61.16	48.1	30.94	46.19	33.02	10.1
MEE72	60	60	60	60	60	60	34.69	37.66	37.17	43.05	30.97	48.31
MEE731	70	70	70	70	70	70	55.7	36.7	52.38	30.18	75.55	53.7
MEE744	65	65	65	65	65	65	28.57	17.04	28.38	23.2	12.42	19.87
MEE745	70	70	70	70	70	70	85.42	77.08	47.73	0	75	72.92
MEE754	65	65	65	65	65	65	55.38	42.5	40.98	10.77	38.46	32
MEE755	70	70	70	70	70	70	42.94	18.93	7.74	17.74	44.07	53.09
					VIII S	EMEST	TER					
MEE813	70	70	70	70	70	70	46.94	16.78	32.86	41.89	12.59	5.76
MEE814	70	70	70	70	70	-	44.83	41.67	43.82	60.67	39.53	-
MEE82	85	85	85	85	-	-	22.88	94.07	67.37	67.52	-	-
MEE83	85	85	85	85	85	85	90.25	88.98	92.8	90.25	80.08	-
MEE84	60	60	60	60	60	60	53.33	64.5	61.54	43.78	31.28	28.57

Table 3.2.2.7: Semester End evaluation of CIE-CO target and attainment in values

				Se	emester	r End E	Evaluati	on (CI	E)			
Course	]	largete	ed Atta	inmen	t of Co	S		Actual	Attair	nment	of COs	
	CO1	CO2	CO3	CO4	CO5	CO6	CO1	CO2	CO3	CO4	CO5	CO6
				IS	SEMES	TER						
15MA11	3	3	3	3	3	3	3	3	3	3	3	3
15PH12	3	3	3	3	3	3	3	3	3	3	3	3
15ME13	3	3	3	3	3	3	3	3	3	3	3	3
15CIV14	3	3	3	3	3	3	3	3	3	3	3	3
15EEE15	3	3	3	3	-	-	3	3	3	3	-	-
15HB16	3	3	3	3	-	-	3	3	3	3	-	-
				II S	SEMES	STER						
15MAT21	3	3	3	3	3	3	3	3	3	3	3	3
15CH22	3	3	3	3	3	3	3	3	3	3	3	3
15CS23	3	3	3	3	3	3	3	3	3	3	3	3
15ME24	3	3	3	3	3	3	3	3	3	3	3	3
15EC25	3	3	3	3	3	3	3	3	3	3	3	3
15HP26	3	3	3	3	-	-	3	3	3	3	-	-

				III	SEMES	STER						
16MAT31	3	3	3	3	3	3	3	3	3	3	3	3
16HSS322/422	3	3	3	3	3	3	2	2	2	1.5	1	2
16MEE331/431	3	3	3	3	3	3	1.5	2	2	2.5	3	1.5
16MEE341/441	3	3	3	3	3	3	3	3	3	3	3	3
16MEE351/451	3	3	3	3	3	3	3	3	3	3	3	2.5
16MEE361/461	3	3	3	3	3	3	1.5	3	1.5	3	1.5	1.5
				IV	SEME	STER						
16MAT41	3	3	3	3	3	3	3	3	3	3	3	3
IOMAT41       3 </th												
16MEE432/332	3	3	3	3	3	3	0.5	1	0.5	0.5	0	1.5
16MEE442/342	3	3	3	3	3	3	2.5	2.5	3	3	3	1.5
16MEE452/352	3	3	3	3	3	3	2.5	3	2.5	3	3	1.5
16MEE462/362	3	3	3	3	3	3	3	3	3	3	3	3
V SEMESTER												
MEE51	3	3	3	3	3	3	3	3	3	3	3	3
MEE52	3	3	3	3	3	3	3	3	3	3	3	3
MEE53	3	3	3	3	3	3	3	3	3	3	3	3
MEE54	3	3	3	3	3	3	3	3	3	3	3	3
MEE55	3	3	3	3	3	3	2	2	1	3	3	0
MEE561	3	3	3	3	3	3	3	3	3	3	3	3
MEE57	3	3	3	3	3	3	3	3	3	1	0	-
				VI	SEME	STER						
MEE61	3	3	3	3	3	3	3	3	3	3	0	0
MEE62	3	3	3	3	3	3	3	3	3	2	3	3
MEE63	3	3	3	3	3	3	3	3	3	3	3	2
MEE64	3	3	3	3	3	3	3	3	3	2	2	2
MEE651	3	3	3	3	3	3	3	3	3	3	3	3
MEE654	3	3	3	3	3	3	2	2	3	3	1	0
MEE67	3	3	3	3	3	3	3	3	3	3	0	-

				VII	SEME	STER							
<b>MEE71</b>	3       3												
MEE72	3	3	3	3	3	3	2	3	3	3	3	3	
MEE731	3	3	3	3	3	3	2	3	3	3	3	3	
MEE744	3	3	3	3	3	3	3	3	3	3	3	3	
MEE745	3	3	3	3	3	3	3	3	3	3	3	3	
MEE754	3	3	3	3	3	3	0	0	0	0	0	3	
MEE755	3	3	3	3	3	3	2	3	2	3	3	0	
				VIII	SEME	ESTER							
MEE813	3	3	3	3	3	3	1	2	1	0	0	0	
MEE814	3	3	3	3	3	3	3	3	3	3	3	-	
MEE82	3	3	3	3	3	3	0	3	1	1	-	-	
MEE83	3	3	3	3	3	3	3	3	3	3	2	-	
MEE84	3	3	3	3	3	3	3	3	3	3	3	3	

Table 3.2.2.8: Semester End evaluation of SEE-CO target and attainment in values

					Semest	er End	Evalua	tion (SI	EE)					
Course	,	Target	ed Atta	inmen	t of Co	S		Actu	al Atta	inment	t of CO	S		
	CO1	Semester End Evaluation (SEE)         Actual Attainment of COs         CO2       CO3       CO4       CO5       CO6       CO1       CO2       CO3       CO4       CO5         I SEMESTER         3       3       3       3       3       3       3       3         3       3       3       3       3       3       3       3       3       3         3 <th< td=""><td>CO6</td></th<>			CO6									
				l	I SEME	ESTER								
15MA11	3	3	3	3	3	3	3	3	3	3	3	3		
15PH12	3	3	3	3	3	3	3	3	3	3	3	3		
15ME13	3	3	3	3	3	3	3	3	3	3	3	3		
15CIV14	3	3	3	3	3	3	3	3	3	3	3	3		
15EEE15	3	3	3	3	-	-	3	3	3	3	-	-		
15HB16	3	3     3     3     3     -     -     3     3     3     3     -     -       3     3     3     3     -     -     3     3     3     3     -     -       3     3     3     3     -     -     3     3     3     3     -     -												
				Ι	I SEME	ESTER								
15MAT21	3	3	3	3	3	3	3	3	3	3	3	3		
15CH22	3	3	3	3	3	3	3	3	3	3	3	3		
15CS23	3	3	3	3	3	3	3	3	3	3	3	3		
15ME24	3	3	3	3	3	3	3	3	3	3	3	3		
15EC25	3	3	3	3	3	3	3	3	3	3	3	3		
15HP26	3	3	3	3	-	-	3	3	3	3	-	-		
				II	I SEM	ESTER								

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16MAT31	3	3	3	3	3	3	3	3	3	3	3	3
16HSS322/422	3	3	3	3	3	3	1	1.5	1.5	3	2	1.5
16MEE331/431	3	3	3	3	3	3	1.5	2	2	2.5	3	1.5
16MEE341/441	3	3	3	3	3	3	3	3	2.5	3	2.5	2.5
16MEE351/451	3	3	3	3	3	3	1	2.5	2	1	0.5	2
16MEE361/461	3	3	3	3	3	3	0.5	0	0	0	0	0
				I	V SEM	ESTER						
16MAT41	3	3	3	3	3	3	3	3	3	3	3	3
16HSS421/321	3	3	3	3	3	3	2	2.5	3	1	2	1.5
16MEE432/332	3	3	3	3	3	3	0.5	2	2.5	0	1.5	1
16MEE442/342	3	3	3	3	3	3	0	0	0.5	3	2	0.5
16MEE452/352	3	3	3	3	3	3	3	2	2	1.5	1.5	1.5
16MEE462/362	3	3	3	3	3	3	1	0.5	0.5	0.5	0.5	1.5
		_		V	/ SEME	ESTER		-	-	_		
MEE51	3	3	3	3	3	3	3	0	0	3	2	1
MEE52	3	3	3	3	3	3	0	0	0	0	0	1
MEE53	3	3	3	3	3	3	0	0	0	0	1	0
MEE54	3	3	3	3	3	3	2	0	1	3	3	2
MEE55	3	3	3	3	3	3	3	3	1	0	0	0
MEE561	3	3	3	3	3	3	3	3	2	3	1	1
MEE57	3	3	3	3	3	3	3	3	3	1	0	-
			1	V	I SEM	ESTER		r	r		1	
MEE61	3	3	3	3	3	3	1	0	0	0	0	0
MEE62	3	3	3	3	3	3	3	2	2	3	2	0
MEE63	3	3	3	3	3	3	0	2	0	2	0	0
MEE64	3	3	3	3	3	3	1	2	1	1	2	1
MEE651	3	3	3	3	3	3	2	2	3	0	2	3
MEE654	3	3	3	3	3	3	2	2	0	3	l	0
MEE67	3	3	3	3 	3	3	3	3	3	3	0	-
140004	2		2	V.	II SEM	ESTER		1	0	1	0	0
MEE/I	3	3	3	3	3	3	3	1	0		0	0
MEE72	3	3	3	3	3	3	0	0	0	1	0	1
MEE/31	3	3	3	3	3	3	2	0	1	0	3	1
MEE/44	3	3	3	3	3	3	0		1	0		0
MEE/45	3	3	3	3	3	3	3	5			5	3
MEE / 54 MEE 755	3	3	3	3 2	3 2	3	2					1
<b>NIEE / 35</b>	3	3	3	) ) ) )				0	0	U	0	1
MEE912	2	2	2	2				0	0	0	0	0
WIEL'813	3	3	3	3	3	3	0	U	U	U	U	U

MEE814	3	3	3	3	3	3	0	0	0	2	0	-
MEE82	3	3	3	3	3	3	0	3	1	1	-	-
MEE83	3	3	3	3	3	3	3	3	3	3	2	-
MEE84	3	3	3	3	3	3	2	3	3	1	0	0

3.3 Attainment of Program Outcomes and Program Specific Outcomes (75)

Total Marks 75.00

3.3.1 Describe assessment tools and processes used for measuring the attainment of each Program Outcome and Program Specific Outcomes (10)

(Describe the assessment tools and processes used to gather the data upon which the evaluation of each of the Program Outcomes and Program Specific Outcomes is based indicating the frequency with which these processes are carried out. Describe the assessment processes that demonstrate the degree to which the Program Outcomes and Program Specific Outcomes are attained and document the attainment levels)

Assessment of Program Outcomes and Program Specific Outcome are done by considering Direct assessment and Indirect assessment methods. Weightage of 80% is provided for direct assessment and 20% weightage for indirect assessment. In Direct assessment the evaluation of POs is done in continuous internal Evaluation (CIE) and Semester End Examination (SEE).

However, to 50% weightage is provided for SEE exam and 50% weightage is given for CIE assessment. Indirect assessment is done by considering the report of Graduate survey, Alumni survey and Employer Survey for the respective batches.

Figure 3.3.1.1 represents the evaluation process of PO attainment through course outcome attainment.



Figure 3.3.1.1 PO and PSO attainment process

#### **3.3.1.1 PO and PSO Assessment Tools**

At the end of programme, the PO and PSO assessment is done from the CO attainment of all curriculum components. The various direct and indirect assessment tools used to evaluate POs & PSOs and frequency with which the assessment processes are carried out are listed in Table 3.3.1.a and 3.3.1.b

Direct Assessi	<u>nent tools</u>	<b>Description</b>	<b>Evaluation of COs</b>	<u>Related</u> <u>POs/PSOs</u>			
	Theory	Average of three internal assessment tests are considered as the final marks.	Each question in CIE theory paper is mapped against COs of respective courses. All three IA test questions are framed in such a way to cover all CO's. Entered marks are taken for measuring the CO Attainment.				
Continuous Internal	Assignment	Each subject has two assignments per semester which are often at application level.	Assignment questions are mapped against COs and marks are taken for measuring the CO attainment.				
Evaluation [CIE]	Quiz	Each subject has two Quizzes per semester that are done either by online tools or offline.	The questions are prepared for each of the courses and marks are considering for calculating CO attainment.	PO1, PO2,			
	Laboratory	During the semester, two laboratory test conduction and evaluation is done.	Lab record book, observation, and viva are assessed for every session or experiment as per the defined rubrics. Experiment wise CO is evaluated, and attainment is measured.	PO3, PO4, PO5, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12, PSO1			
	Theory / Practical	Conduction of both theory and practical examination as per the calendar of events announced.	Final marks are taken for assessing the CO attainment.	PSO2			
Semester End Examination [SEE]	Project	Project evaluation is done during 3 <sup>rd</sup> year and 4 <sup>th</sup> year to test the student's independent analysis and design skills. Phase wise project review or evaluation are conducted.	The project guide and project coordinator follow the rubrics which is set by the department for evaluation and then submit to the Head of the Department.				
	Internship	Internship evaluation is done during 8 <sup>th</sup> semester. To get the practical exposure from industries, students are encouraged to carry out Internship in reputed industries/public sectors.	The evaluation of the marks based on Presentation and Report of the Internship and the score for every student is calculated.				

#### Table 3.3.1.a Details about Direct Assessment Tools

Indirect Assessment Tools	Description	Evaluation Process
Graduate Survey	This survey provides the information about program satisfaction and asks graduates to indicate the level of preparation provided by their graduate program. This type of survey highlights the areas in which the institution should invest resources to enhance a student's learning and development experience.	This survey is conducted for the students who have passed out of the department for that year. The questionnaire consists of question which is relevant for assessing POs and PSOs. Each question is having 3 options namely, Good, Satisfactory, poor which is given the marks of 3,2,1, respectively.
Alumni Survey	This survey provides the information to identify which areas of our academic program that needs to be changed, improved, or expanded.	Collect the information from alumni after two years of graduation. The questionnaire consists of question which is relevant for assessing POs and PSOs. Each question is having 3 options namely, Good, Satisfactory, poor which is given the marks of 3,2,1 respectively.
Employer Survey	This survey helps to determine graduate skills, capabilities and Opportunities.	Collect the information from employers who had given jobs to our graduates. The questionnaire consists of question which is relevant for assessing POs and PSOs. Each question is having 3 options namely, Good, Satisfactory, poor which is given the marks of 3,2,1 respectively.

### Table 3.3.1.b Details about Indirect Assessment Tools



Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC Accredited by NAAC with 'A' Grade, Accredited by NBA

# DEPARTMENT OF

\_\_\_\_\_

# **GRADUATE SURVEY FORM**

Name : \_\_\_\_\_\_ USN : \_\_\_\_\_

Year / SEM:

Programme: \_\_\_\_\_

\_\_\_\_\_

			Very			
	Program Outcomes (POS)	Excellent	Good	Good	Satisfactory	Poor
Sl.No		(5)	(4)	(3)	(2)	(1)
	Engineering Knowledge					
	Were you able to apply the					
	knowledge of Mathematics, Science,					
	engineering fundamentals, and an					
	engineering specialization to the					
1	solution of complex engineering					
	problems.					
	Problem analysis:					
	Were you comfortable in					
	identifying, formulating reviewing,					
	research literature and analysing					
	complex engineering problems					
	reaching substantiated conclusions					
	using first principles of					
2	mathematics, natural sciences, and					
	engineering sciences?					
	Design / Development of					
	Solutions:					
	Were your able to design solutions					
	for complex engineering problems					
	and design system components or					
	processes that meet the specified					
	needs with appropriate					
3	consideration for the public health					
	and safety and the cultural, societal?					

_	υ	/	-	U	

	Couduat investigations of			
	Conduct investigations of			
	complex problems			
	Was it easy to use research - based			
	knowledge and research methods,			
	including design of experiments,			
4	analysis and interpretation of data,			
4	and synthesis of the information to			
	provide valid conclusions?			
	Modern tool usage			
	were you able to create, select, and			
	apply appropriate techniques,			
	and IT tools including prediction			
	and modelling to complex			
F	and modeling to complex			
5	understanding of the limitations			
	understanding of the mintations			
	The engineer and society			
	Did you apply reasoning informed by			
	the contextual knowledge to assess			
	societal, health, safety legal and			
	cultural issues and the consequent			
6	responsibilities relevant to the			
	professional engineering practice			
	For the second second second states in the little second sec			
	Environment and sustainability			
	Did you understand the impact of the			
	professional engineering solutions in			
	societal and environmental contexts,			
7	and demonstrate the knowledge of,			
/	development			
	Ethics			
	wore you able to apply othical			
	principles and commit to professional			
Q	othics and responsibilities and norms			
J	of engineering practice			
	Individual and team work			
	Did you function effectively as an			
	individual and as a member or leader			
٥	in diverse teams, and in			
9	multidisciplinary settings			
	Communication			
	Did you communicate effectively on			
	complex engineering activities with			
	the engineering community and with			
	society at large such as heing able to			
	comprehend and write effective			
	reports and design documentation			
10	make effective presentations and give			
TO	and receive clear instructions			
			L	

11	Project management and finance Did you demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multi			
	disciplinary environments.			
	Life - long learning How far you recognize the need for , and have the preparation and ability to engage in independent and life-			
12	long learning in the broadest context of technological change			



DEPARTMENT OF \_

# ALUMNI FEED BACK FORM

We shall be thankful to and appreciate you, if you can spare some of your valuable time to fill up this feedback form and give us your valuable suggestion for further improvement of the Institution programme. Your valuable input will be of great use to improve the quality of our academic program and enhance the credibility of the Institute.

Yours Truly,

RINCIPAL

Please give your overall assessment of the Institute academics. Please rate us on

- 1. Very Good (VG)
- 2. Good (G)
- 3. Fair (F)
- 4. Satisfactory (S)
- 5. Unsatisfactory (UN)
- 6. Not applicable (NA)

#	tails	aduate Attributes	ogram		1	Asses	sment		
			Outcome	VG	G	F	S	UN	NA
	Environment	NA	L						
	Infrastructure	Modern tool Usage	5						
	Lab facilities	Modern tool Usage	5						
	Faculty	Engineering Knowledge Ethics Communication Design and manufacturing	1, 8, 10 01 02						
	Project Guidance	Engineering Knowledge Problem Analysis Design / Development of Solutions Modern Tool usage Individual & Team Work Communication ) Design and manufacturing	1, 2, 3 5, 9, 10 01 02						
	Quality of Support Material	NA	<b>k</b>						
	Training and placement	ndividual & Teamwork	9 10						

	ii) Communication				
Library facilities	NA	P05, P012			
Canteen Facilities	NA	NA			
Hostel Facilities	NA	P09			
Overall rating of the college	NA	NA			
Alumni Association / Networking of old friends	NA	×			

# Your suggestions

1. Relevance of curriculum in your job.

2.	Need any change in curriculum and syllabi.
З	Improvement in Teaching Learning process
5.	improvement in reaching Learning process.
4.	Have you learned the basic concepts through your projects .
5.	Any other suggestions / Comments.

 		••••	••••	••••				••••					••••	••••		••••	••••	••••	••••			••••	•••	•••	•••	••••			••••	••••	•••	• • • •	••••	••••	••••		••••	••••				 		••••	• • • •	•••	••••		•
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NAME & SIGNATURE



# DEPARTMENT OF

### SURVEY QUESTIONNAIRE TO EMPLOYER

Sir,

Our Institute is falling in line with outcome based education in continuity with the international practices (as per Washington Accord). The assessment of the outcome has to be through a survey(such as Graduate survey, Alumni survey, parent feedback, employer survey etc.,). The following questions need your valued consideration. Please find some time and send in your answers to the following questions. This report will be kept confidential.

Sl. #	Questions	Graduate Attributes	Program Outcomes	Excellent	Very Good	Good	Satis- factory	Poor
				(5)	(4)	(3)	(2)	(1)
1	Your views on strengths of our	ngineering Knowledge	P01					
	graduates?	Ethics Individual & Team Work	P08					
		Communication Project Management &	P09					
		Finance Life Long Learning	P010					

4	<b>U</b>	 -20	<u> </u>

			P011			
			P012			
2	How did you find our student in applying the knowledge of maths, science in the solution of complying engineering problems?	ngineering Knowledge Design & Development of solution Conduct Investigations of complex problems Modern tool usage The engineer & Society	P01 P03 P04 P05 P06			
3	How you found our student with respect to technical skills?	roblem Analysis Design & Development of solution conduct Investigations of complex problems	PO2 PO3 PO4			
4	How you rate our student with respect to their ethical and moral values?	thics	PO8			
5	How you rate our students with respect to work?	thics ndividual & Team Work	P08 P09			
6	How you find our curriculum with respect to industry?	ife Long Learning	P012			
7	Were you happy with the support you received from the college during placement drive?	NA	NA			
8	How you rate our student with respect to communication skills?	ommunication	P010			
9	How you rate our student with respect to being open to new ideas	ifelong learning	P012			

	and learning new technologies					
10	How do you rate our student with respect overall performance in terms of percentage contribution to your organization?	Adheres to all 12 Graduate Attributes	PO1 to PO12			

#### NA: NOT APPLICABLE

List of PEO's and POs is appended for your reference

Your detailed comments on our graduate employee


#### The steps involved in PO Assessment process are as follows:

1. Course outcomes are assessed through Continuous Internal Evaluation and Semester End Examination. The analysis is done to find the level of attainments of COs.

2. The attainment of POs is being calculated based on the COs attainment.

**Attainment of POs / PSOs through a course** is calculated as *Sum of product of CO attainment and CO PO mapping by sum of weight contributed to CO PO mapping.* 

Attainment of POs through all the courses is calculated by taking the Average across all Courses Addressing that POs/PSOs

Sample calculation is shown in table 3.3.1.h

3. The PSOs attainment is calculated by the process like that used for POs attainment.

4. For indirect assessments, survey questionnaire is circulated to students, alumni and employer. The surveys are assessed and evaluated to determine the strength of attainment level of POs.

Attainment of POs based on survey = [(3\*number of students gave option 3) + (2\*number of students gave option 2) + (1\*number of students gave option 1)] / Total number of responses

5. Overall attainments of POs are calculated by taking 80% of direct attainment and 20% of indirect attainment.

#### PO attainment= [Direct Attainment \*0.8]+[Indirect Attainment \*0.2]

6. If the POs and PSOs attainment value is below the target, an essential remedial action has been taken.

Sample Calculation:

Table 3.3.1.c CO-PO	mapping of a course	– Automation	Engineering	(MEE64)
	mapping of a course	rucomation	Linginicerinig	(IIIIIIII)

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	-	-	-	-	-	-	-	-	-	-	-	3	-
CO2	3	3	-	-	-	-	-	-	-	-	-	-	3	3
CO3	-	3	1	-	-	-	-	-	-	-	-	-	-	3
CO4	3	-	-	-	3	-	-	-	-	-	-	-	3	3
CO5	3	-	-	-	3	-	-	-	-	-	-	2	-	3
CO6	3	3	-	1	-	-	-	-	-	-	-	-	-	3

		<b>X</b> = ( <b>CO I</b>	Max Marks /	Sum of all co	max marks v	vhich are map	ped to on	e PO)	
				<b>Y</b> = ( <b>X</b>	* Attainment	)			
01	BE CALC	ULATION C	TIE WEIGHT	ED ATTAIN M	MENT CALCU IAPPED	ULATION FO	R PO1 W	HERE ALL	CO ARE
CO's	CO Target	Threshold	Number of Students Scored Above Threshold %	Total Students Attempted	Attainment Percentage	Attainment	CO Max Marks	X	Y
								Marks weightage of total	Weighted Attainment
CO1	65.00 %	68.00 %	204	247	82.59	3	17404	0.2410	0.7230
CO2	65.00 %	68.00 %	226	247	91.5	3	9722	0.1346	0.4039
CO3	65.00 %	68.00 %	190	245	77.55	3	22791	0.3156	0.9468
CO4	65.00 %	68.00 %	151	244	61.89	2	9003	0.1246	0.2493
CO5	65.00 %	68.00 %	154	244	63.11	2	7252	0.1004	0.2008
CO6	65.00 %	68.00 %	137	244	56.15	2	6035	0.0835	0.1671
						Total Marks:	72207		
			Weighted	CIE attainme	nt for one PO i	f all CO's are r	napped is	SUM of Y:	2.69

### Table 3.3.1.d Attainment of PO1 for course -MEE64 (CIE)

CO's	CO Target	Threshold	Number of Students Scored Above Threshold %	Total Students Attempted	Attainment Percentage	Attainment	CO Max Marks	X	Y		
								Marks weightage of total	Weighted Attainment		
CO1	65.00 %	68.00 %	64	130	49.23	1	2347	0.1171	0.1171		
CO2	65.00 %	68.00 %	76	135	56.3	2	2521	0.1258	0.2517		
CO3	65.00 %	68.00 %	110	227	48.46	1	7831	0.3910	0.3910		
CO4	65.00 %	68.00 %	120	222	54.05	1	3415	0.1705	0.1705		
CO5	65.00 %	68.00 %	49	81	60.49	2	1439	0.0718	0.1436		
CO6	65.00 %	68.00 %	65	142	45.77	1	2475	0.1235	0.1235		
						Total Marks:	20029				
Weighted SEE attainment for one PO if all CO's are mapped is SUM of Y: 1.2											

#### Table 3.3.1.e Attainment of PO1 for course -MEE64 (SEE) Point

 Table 3.3.1.f Final Attainment of CO for course -MEE64 (CIE & SEE)

	Final Attainment of CO													
COs	ISA	ESE	Final Attainment ISA:50.00% ESE:50.00%											
CO1	3	1	2											
CO2	3	2	2.5											
CO3	3	1	2											
CO4	2	1	1.5											
CO5	2	2	2											
CO6	2	1	1.5											
Weighted Attainment	2.69	1.2	((2.69*0.5) + (1.2*0.5)) = 1.95											

COs	Attainment	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	2	3	-	-	-	-	-	-	-	-	-	-	-	3	-
CO2	2.5	3	3	-	-	-	-	-	-	-	-	-	-	3	3
CO3	2	1	3	1	1	-	-	-	1	1	1	I	-	1	3
CO4	1.5	3	-	-	I	3	-	-	I	I	-	I	-	3	3
CO5	2	3	-	-	I	3	-	-	I	I	1	I	2	I	3
CO6	1.5	3	3	-	1	-	-	-	-	-	-	-	-	-	3

Table 3.3.1.g CO-PO mapping with CO attainment -MEE64

Sample calculation:

PO1 attainment =  $[{(2*3)+(2.5*3)+(2*0)+(1.5*3)+(2*3)+(1.5*3)}/(3+3+3+3+3)] = 1.94$ 

PO2 attainment =  $[{(2.5*3)+(2*3)+(1.5*3)}/(3+3+3)] = 2.02$ 

PO3 attainment =  $[{(2*1)}/1] = 2.00$ 

PO4 attainment =  $[\{(1.5*1)\}/1] = 1.50$ 

PO5 attainment =  $[{(1.5*3)+(2*3)}/(3+3)] = 1.75$ 

PO12 attainment =  $[{(2*2)}/2] = 2.00$ 

PSO1 attainment =  $[{(2*3)+(2.5*3)+(1.5*3)}/(3+3+3)] = 2.03$ 

PSO2 attainment =  $[{(2.5*3)+(2*3)+(1.5*3)+(2*3)+(1.5*3)}/(3+3+3+3+3)] = 1.91$ 

Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
MEE64	1.94	2.02	2.00	1.50	1.75	-	-	-	-	-	-	2.00	2.03	1.91

Similarly, all POs and PSOs are calculated using above stated method.

	PO attainment														
Course	Subject Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C101	15MA11	3.00	3.00	3.00	3.00	3.00	-	-	-	-	3.00	-	3.00		
C102	15PH12	3.00	3.00	3.00	-	-	-	-	-	3.00	-	-	3.00		
C103	15ME13	3.00	3.00	3.00	-	3.00	3.00	3.00	-	-	3.00	-	3.00		
C104	15CIV14	3.00	3.00	3.00	-	-	-	-	-	-	-	-	-		
C105	15EEE15	3.00	3.00	3.00	3.00	-	-	-	-	-	3.00	3.00	-		
C106	15HB16	-	-	-	-	-	3.00	-	3.00	3.00	3.00	-	3.00		
C107	15MAT21	3.00	3.00	3.00	3.00	3.00	-	-	-	3.00	3.00	-	3.00		
C108	15CH22	3.00	3.00	-	-	-	-	3.00	-	-	-	-	3.00		
C109	15CS23	3.00	3.00	3.00	3.00	3.00	-	-	-	3.00	3.00	-	3.00		
C110	15ME24	3.00	-	3.00	3.00	3.00	-	-	-	-	3.00	-	3.00		
C111	15EC25	2.75	2.75	2.75	-	-	-	-	-	-	-	-	-		
C112	15HP26	-	-	-	-	-	-	-	3.00	3.00	3.00	-	3.00		
C201	MEE331/431	2.17	2.36	2.28	-	2.59	-	-	-	-	2.50	-	2.00	2.34	2.00
C202	MEE341/441	2.92	2.83	-	2.50	2.88	-	-	-	-	-	-	-	2.82	2.93
C203	MEE351/451	2.01	2.21	2.63	2.50	-	2.00	-	-	-	2.75	-	2.00	2.36	2.14
C204	MEE361/461	1.30	1.30	1.30	-	-	1.30	-	-	-	1.30	-	1.30	1.30	1.30
C205	MEE332/432	1.24	1.28	0.67	-	-	-	-	-	-	-	-	1.00	1.75	0.67
C206	MEE342/442	1.73	2.17	2.39	-	2.14	-	-	-	-	-	-	1.00	2.50	2.09
C207	MEE352/452	2.27	2.26	3.00	-	3.00	3.00	-	-	-	3.00	-	3.00	2.31	2.39
C208	MEE362/462	1.84	1.85	2.25	2.50	2.50	-	-	-	-	-	-	-	-	1.90
C209	16HSS322/422	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92	-	-
C210	16HSS321/421	1.72	1.72	1.98	2.04	1.98	1.72	1.72	1.72	1.81	1.81	1.64	1.98	-	-
C211	16MAT31	3.00	3.00	3.00	3.00	3.00	3.00	3.00	-	-	3.00	3.00	3.00	-	-
C212	16MAT41	3.00	3.00	3.00	3.00	3.00	3.00	3.00	-	3.00	3.00	3.00	3.00	-	-
C301	MEE51	3.00	2.16	2.00	2.62	2.50	-	-	-	-	-	-	-	3.00	2.43
C302	MEE52	3.00	3.00	1.62	3.00	-	2.00	1.89	-	3.00	-	-	3.00	3.00	1.63
C303	MEE53	3.00	3.00	3.00	3.00	3.00	-	-	-	2.00	-	-	-	-	1.55
C304	MEE54	2.48	1.85	-	2.52	-	-	3.00	-	-	2.50	-	-	2.48	2.48
C305	MEE55	2.50	2.03	0.75	3.00	3.00	1.45	3.00	-	3.00	-	2.10	-	2.03	0.75
C306	MEE561	2.62	3.00	2.74	-	-	2.96	-	-	2.00	-	-	2.07	2.71	2.70
C308	MEE61	2.00	1.78	1.86	-	-	1.81	1.81	-	3.00	-	-	3.00	1.33	2.29
C309	MEE62	2.47	2.47	2.47	2.47	-	-	-	-	-	-	-	2.47	2.41	2.50
C310	MEE63	1.68	2.50	1.66	3.00	2.50	-	3.00	-	-	3.00	-	2.00	-	1.75
C311	MEE64	1.94	2.02	2.00	1.50	1.75	-	-	-	-	-	-	2.00	2.03	1.91

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#### SELF ASSESSMENT REPORT 2019-20

C312	MEE654	1.68	1.68	1.68	1.68	0.72	3.00	3.00	3.00	1.00	1.00	-	1.42	1.87	1.37
C313	MEE651	2.56	2.56	2.56	2.56	-	2.56	-	-	-	-	-	2.56	2.56	2.47
C314	MEE57	3.00	3.00	3.00	1.00	1.00	1.00	-	-	3.00	3.00	-	3.00	1.00	1.00
C315	MEE67	3.00	3.00	3.00	3.00	3.00	3.00	-	-	3.00	3.00	3.00	3.00	3.00	3.00
C401	MEE71	2.51	2.00	2.00	1.75	3.00	3.00	3.00	-	3.00	-	3.00	-	-	1.76
C402	MEE72	2.00	3.00	3.00	3.00	2.00	2.00	2.00	-	-	3.00	-	-	-	1.58
C403	MEE731	1.91	1.91	2.00	2.17	-	-	2.00	-	-	-	3.00	-	-	2.00
C404	MEE744	3.00	3.00	3.00	3.00	3.00	3.00	-	-	3.00	3.00	-	3.00	3.00	3.00
C405	MEE754	2.00	0.07	3.00	-	-	3.00	-	-	-	-	-	-	0.61	0.26
C406	MEE755	2.00	1.58	-	3.00	1.41	3.00	-	-	-	-	3.00	-	1.11	3.00
C407	MEE745	3.00	2.77	2.77	-	2.53	3.00	3.00	-	-	-	-	-	3.00	3.00
C408	MEE814	3.00	3.00	2.50	3.00	1.77	-	3.00	-	-	3.00	-	-	3.00	2.38
C409	MEE82	1.50	3.00	-	-	1.00	1.29	-	-	-	-	1.00	1.00	1.20	1.20
C410	MEE84	2.02	2.94	2.50	2.35	2.27	3.00	-	-	-	2.00	-	3.00	-	1.78
C411	MEE813	1.33	-	0.56	2.00	0.68	-	-	-	1.00	-	-	-	0.51	-
C412	MEE83	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	2.00	3.00	2.00	2.00	2.80	2.80
	Direct assessment	2.44	2.51	2.40	2.55	2.36	2.40	2.61	2.61	2.46	2.68	2.42	2.46	2.15	2.06

For indirect attainment, Survey results from graduates, alumni, and employer are consolidated and the final PO values are calculated through 3 point scale (Good, Satisfactory, poor). After collection of survey forms, the marks for POs are calculated based on the following formula:

Condition: Good = 3 Satisfactory = 2

Poor = 1

For each Survey,

PO attainment = [(3\*number of students opting "good")+(2\* number of students opting "satisfactory")+ (1\* number of students opting "poor")]/Total number of responses

# Questionnaire form in the graduate survey, Employer and Alumni Survey are provided in survey report.

The above formula is used to calculate the marks for indirect attainment of POs and PSOs of the programme at the end of the year.

Direct assessment	2.44	2.46	2.41	2.58	2.38	2.46	2.63	2.61	2.54	2.68	2.47	2.45	2.15	2.00
Indirect assessment	2.85	2.81	2.83	2.83	2.81	2.79	2.75	2.75	2.67	2.75	2.80	2.75	2.82	2.84
Final attainment	2.52	2.53	2.50	2.63	2.47	2.53	2.65	2.64	2.56	2.70	2.54	2.51	2.28	2.17

Final PO and PSO attainment level is 80% Direct attainment + 20% Indirect attainment.



# DEPARTMENT OF MECHANICAL ENGINEERING

# **CRITERION 4**

# **STUDENTS' PERFORMANCE**
CRITERION 4	Students'	tudents' Performance				100	
Table 4.1							
	2019-	2018-19	2017-18	2016-17	2015-16	2014-15	2013-14
Item (Information to	20	CAYm1	CAYm2	(CAYm	(CAYm4	(CAYm5	(CAYm6)
be provided	CAY						
cumulatively for all							
the shifts with							
explicit headings,							
wherever applicable)							
Sanctioned intake of	180	180	180	180	180	180	180
the program (N)							
Total number of	169	187	197	195	203	203	208
students admitted in	L						
first year minus	,						
number of students							
migrated to other							
programs/institutions,							
plus no. of students							
migrated to this							
program (N1)							
Number of students	17	17	34	36	35	36	35
admitted in 2nd year							
in the same batch via							
lateral entry (N2)							
Separate division	0	0	0	0	0	0	0
students, if applicable	:						
(N3)							
Total number of	186	204	231	231	238	239	243
students admitted in							
the Program (N1 +							
<i>N</i> 2 + N3)							

CAY – Current Academic Year

CAYm1- Current Academic Year minus1= Current Assessment Year

CAYm2 - Current Academic Year minus2=Current Assessment Year minus 1

LYG – Last Year Graduate minus 1

LYGm1 – Last Year Graduate minus 1

## LYGm2 – Last Year Graduate minus 2

		2			
Year of entry	N1 + N2 + N3 (As defined above)	Number of successfully backlogs in (Without compartment semester/ye	of stude grad any seme Backlog nt or f ar of study	ents wh luated ester/year g mea failures y)	o have without of study ns no in any
		I Year	II Year	III Year	IV Year
CAY (2019-20)	169+17=186				
	187+17=204	120			
CAYm1 (2018-19)					
CAYm2(2017-18)	197+34=231	121	130		
CAYm3(2016-17)	195+36=231	138	150	121	
CAYm4 (LYG) (2015-19)	203+35=238	168	188	154	149
CAYm5 (LYGm1) (2014-18)	203+36=239	76	53	47	47
CAYm6 (LYGm2) (2013-17)	208+35=243	139	105	80	80

#### Table 4.2

### Table 4.3

Year of entry $N1 + N2 +$ N3 (As defined		Number of students who have successfully graduated (Students with backlog in stipulated period of study)			
	above)	I Year	II Year	III Year	IV Year
CAY(2019-20)	169+17=186				

CAYm1 (2018-19)	187+17=204	184			
CAYm2(2017-18)	197+34=231	192	181		
CAYm3(2016-17)	195+36=231	170	191	187	
CAYm4 (LYG) (2015-19)	203+35=238	203	238	215	210
CAYm5 (LYGm1) (2014-18)	203+36=239	203	190	190	187
CAYm6 (LYGm2) (2013-17)	208+35=243	198	210	192	175
4.1. Enrolment Rat	io (20)	•	•	•	

	N (From Table 4.1)	N1 (From Table 4.1)	Enrolment Ratio [(N1/N)*100]
2019-20 (CAY)	180	186	103.33
2018-19 (CAYm1)	180	187	103.89
2017-18 (CAYm2)	180	197	109.44

Average [ (ER1 + ER2 + ER3) / 3]: 105.55

Assessment: 20.00

**4.2.** Success Rate in the stipulated period of the program (20)

**4.2.1.** Success rate without backlogs in any semester/year of study (15)

*SI*= (*Number of students who have graduated from the program without backlog*)/(*Number of students admitted in the first year of that batch and actually admitted in 2nd year via lateral entry and separate division, if applicable*)

Average SI = Mean of Success Index (SI) for past three batches Success rate without backlogs in any semester/year of study =  $15 \times Average SI = 15x0.39 = 5.85$ 

Table 4.2.1

Item	Last Year of Graduate, LYG (2015- 19)	Last Year of Graduate minus 1, LYGm1 (2014-18)	Last Year of Graduate minus 2, LYGm2 (2013-17)
Number of students admitted in the corresponding First Year + admitted in 2nd year via lateral entry and separate division, if applicable	238	239	243
Number of students who have graduated without backlogs in the stipulated period	149	47	80
Success Index (SI)	0.63	0.20	0.33
Average Success Index	0.39		

**4.2.2.** Success rate with backlog in stipulated period of study (5)

- SI= (Number of students who graduated from the program in the stipulated period of course duration)/ (Number of students admitted in the first year of that batch and actually admitted in 2nd year via lateral entry and separate division, if applicable)
- Average SI = mean of Success Index (SI) for past three batches Success rate = 5 × Average SI = 0.79\*5=3.97

Item	Last Year of Graduate, LYG (2015- 19)	Last Year of Graduate minus 1, LYGm1 (2014- 18)	Last Year of Graduate minus 2, LYGm2 (2013- 17)
Number of students admitted in the corresponding First Year + admitted in 2nd year via lateral entry and separate division, if applicable	238	239	243
Number of students who have graduated with backlogs in the stipulated period	210	187	175

Table 4.2.2

	0.88	0.78	0.72	
Success Index (SI)				
	0.79			
Average Success Index				

Note: If 100% students clear without any backlog then also total marks scored will be 20 as both 4.2.1 & 4.2.2 will be applicable simultaneously.

**4.3.** Academic Performance in Second Year (10) Academic Performance = Average API (Academic Performance Index), where  $API = ((Mean of 2^{nd} Year Grade Point Average of all successful Students on a 10point$ scale) or (Mean of the percentage of marks of all successful students in Second Year/10))x (number of successful students/number of students appeared in the examination)Successful students are those who are permitted to proceed to the Third year.

Academic Performance	CAY <i>m1</i> (2018- 19)	CAY <i>m2</i> (2017- 18)	CAYm3 (2016- 17)	
Mean of CGPA or Mean Percentage of all successful students (X)	8.05	8.04	8.14	
Total no. of successful students (Y)	181	191	238	
Total no. of students appeared in the examination (Z)	226	206	238	
$API = X^* (Y/Z)$	6.45	7.45	8.14	
Average API = (AP1 + AP2 + AP3)/3	7.35			
Assessment: 7.35*15=11.02				

Table **B.**4.3-Academic performance

### **4.4.** Placement, Higher Studies and Entrepreneurship (30)

Assessment Points =  $30 \times \text{average placement} = 0.68*30=20.4$ 

Table B.4.4-Placements, Higher studies, and Entrepreneurship

	CAYml	CAYm2	CAYm3
Item	(2018-19)	(2017-18)	(2016-17)
Total No. of Final Year Students (N)	215	190	192
No. of students placed in companies or Government Sector (x)	88	69	67
No. of students admitted to higher studies with valid qualifying scores(GATE or equivalent State or National Level Tests, GRE, GMAT etc.) (y)	53	57	61
No. of students turned entrepreneur in engineering/technology (z)	5	4	2
x + y + z =	146	130	130
Placement Index : $(x + y + z)/N$	146/215	130/190	130/192
Average placement= $(P1 + P2 + P3)/3$	(0.68+0.68+0.68)/3=0.68		
Assessment Points = $30 \times average$ placement	0.68*30=	20.40	

Provide the placement data in the below mentioned format with the name of the program and the assessment year:

111 2010 17						
	PLACEMENTS DETAILS FOR AY-2018-19					
sl	NAME	E LISN EMPLOYED OFFER LETTER				
no	INAMIL	USIN	EWIFLOTEK	REF NO		
1	A KEERTHI	1NU15ME002	Ideas 01	NH-ME-19-		
1	PRASAD	IINTI JME002	Ideas 91	Ideas91FZCO-001		
2	ADITYA N	1NH15ME003	Ideas 91	NH-ME-19-		

AY-2018-19

				Ideas91FZCO-002
3	AJAY S	1NH15ME004	Salarpuria Sattva	NH-ME-19-SS-008
4	AKASH BIRADAR	1NH15ME005	Amara Raja Group	NH-ME-19-ARBL- 001
5	ALEKH ANIL	1NH15ME007	TresVista	NH-ME-19-TVFSPL- 001
6	ANAND SASIDHARAN	1NH15ME008	Salarpuria Sattva	NH-ME-19-SS-009
7	ANANDA P	1NH15ME009	Amara Raja Group	NH-ME-19-ARBL- 002
8	ANANDHU P S	1NH15ME010	TresVista	NH-ME-19-TVFSPL- 002
9	ANANDU B S	1NH15ME011	L & T Technologies	NH-ME-19-LTTS- 011
10	ANIL KUMAR S	1NH15ME012	Udaan	NH-ME-19-AJPL-001
11	ANIRUDH K	1NH15ME013	EmotionMotors	NH-ME-19-EMM- 001
12	ANURODH MAHAPATRA	1NH15ME016	L & T Technologies	NH-ME-19-LTTS- 012
13	ARJUN CHETRI	1NH15ME017	Udaan	NH-ME-19-AJPL-002
14	ARJUN SANTOSH	1NH15ME019	Infosys	NH-ME-19-IL-021
15	ARUN KUMAR SAH	1NH15ME021	Infosys	NH-ME-19-IL-022
16	ARUN RADHAKRISHN AN	1NH15ME022	Udaan	NH-ME-19-AJPL-003
17	AYAZ	1NH15ME027	L & T Technologies	NH-ME-19-LTTS- 013
18	B S NAGARAJ	1NH15ME028	Speridian Technologies	NH-ME-19-ST-002
19	BANDI NUTAN KUMAR	1NH15ME029	Semcon	NH-ME-19-SIPL-001
20	BATHULA SREEKAR	1NH15ME030	Infosys	NH-ME-19-IL-023
21	BISHAL KHATRI	1NH15ME034	Air Mech	NH-ME-19-AMEPL-

			Engineers Pvt.Ltd	001
22	BISHAL KUMAR	1NU115ME025	L & T	NH-ME-19-LTTS-
22	SHARMA	INHISMEUSS	Technologies	014
23	BISHAL NATH	1NH15ME036	Infosys	NH-ME-19-IL-024
24		1NU115ME020	Air Mech	NH-ME-19-AMEPL-
24	DEBAJII DAS	INHI5ME039	Engineers Pvt.Ltd	002
25	DEEPAK S	1NH15ME040	Udaan	NH-ME-19-AJPL-004
26	DHIRU THAKUR	1NH15ME041	Semcon	NH-ME-19-SIPL-002
27		1NIL15N/E042	Amara Raja	NH-ME-19-ARBL-
21	DILEEPGB	INHI5ME042	Group	003
າຍ	CAUTHAMS		L & T	NH-ME-19-LTTS-
28	UAUTTAWI S	1111131112040	Technologies	015
29	GURU PRASAD P N	1NH15ME048	Infosys	NH-ME-19-IL-025
20	μαρςμίτι ο ς	1NU15ME050	Quest Clobal	NH-ME-19-QGEPL-
30	HARSHITH B S	INHISMEUSU	Quest Global	001
21	HENRY LAARA		Air Mech	NH-ME-19-AMEPL-
51	P P	INITSWIE031	Engineers Pvt.Ltd	003
32	HIMALAYA	1NH15ME052	WEG Industries	NH-ME-19-WIIPL-
52	BHATTA	11(11151(12052	(P) Ltd	001
33	J RUSHWANTH	1NH15ME053	Wipro	NH-ME-19-WL-007
34	ΙΙΤΕΝΟΡΑ SAH	1NH15ME054	Air Mech	NH-ME-19-AMEPL-
51	JILI (DICI ) JIII		Engineers Pvt.Ltd	004
35	JOEL GEORGE	1NH15ME056	IBM	NH-ME-19-IBMIPL-
				002
36	K J THRISSUL	1NH15ME057	Air Mech	NH-ME-19-AMEPL-
			Engineers Pvt.Ltd	005
37	M SRINIVASAN	1NH15ME060	Quest Global	NH-ME-19-QGEPL-
	KIRAN		`	002
38	MANISH S NEELGAR	1NH15ME062	Infosys	NH-ME-19-IL-026
39	MANJUNATH V	1NH15ME064	Infosys	NH-ME-19-IL-027
40	MANJUNATHA	1NIL15ME065	Air Mech	NH-ME-19-AMEPL-
40	SHETTY		Engineers Pvt.Ltd	006
<u>/1</u>	MANOJ	1NH15ME066	Ildaan	NH_ME_19_A IDI _005
	PRASHAD	11111111111111000	Juaali	

	CHAURASIYA			
42	MOHAMMED NABIL YASEEN	1NH15ME070	Udaan	NH-ME-19-AJPL-006
43	MUTTUSHERY JOHNSON NIXON	1NH15ME076	L & T Technologies	NH-ME-19-LTTS- 016
44	NASRUDDIN KHAN	1NH15ME078	Speridian Technologies	NH-ME-19-ST-003
45	NILESH KUMAR JHA	1NH15ME079	Semcon	NH-ME-19-SIPL-003
46	PARDEEPAN A	1NH15ME083	Air Mech Engineers Pvt.Ltd	NH-ME-19-AMEPL- 007
47	PRAJWAL S	1NH15ME087	Air Mech Engineers Pvt.Ltd	NH-ME-19-AMEPL- 008
48	PRANAV P	1NH15ME088	L & T Technologies	NH-ME-19-LTTS- 017
49	R ADDHITI	1NH15ME091	Infosys	NH-ME-19-IL-028
50	RAHUL D	1NH15ME094	L & T Technologies	NH-ME-19-LTTS- 018
51	RAHUL SINGH M	1NH15ME097	Infosys	NH-ME-19-IL-029
52	ROSHAN JOSHI	1NH15ME104	Quest Global	NH-ME-19-QGEPL- 003
53	S SHASHANK	1NH15ME107	L & T Technologies	NH-ME-19-LTTS- 019
54	SACHIN L	1NH15ME109	Air Mech Engineers Pvt.Ltd	NH-ME-19-AMEPL- 009
55	SEEMANT MISHRA	1NH15ME115	Extra Marks	NH-ME-19-EM-001
56	SHARIQ ALI	1NH15ME117	WEG Industries (P) Ltd	NH-ME-19-WIIPL- 002
57	SOHAM PANDEY	1NH15ME122	Infosys	NH-ME-19-IL-030
58	SUHAN NARAYAN NAYAK	1NH15ME126	Udaan	NH-ME-19-AJPL-007

59	SUHAS V	1NH15ME127	Infosys	NH-ME-19-IL-031
60	SURYANSH MISHRA	1NH15ME131	Extra Marks	NH-ME-19-EM-002
61	SUSHIL KUMAR	1NH15ME132	Asahi Glass	NH-ME-19-AIGL- 001
62	SYED MOHAMMED ALI	1NH15ME134	IBM	NH-ME-19-IBMIPL- 003
63	AJINKYA SURESH SALUNKHE	1NH15ME702	Udaan	NH-ME-19-AJPL-008
64	DANIEL ISSAC	1NH15ME710	Cameo Global	NH-ME-19-CGCPL- 001
65	KEERTHI KUMAR S	1NH15ME718	Infosys	NH-ME-19-IL-032
66	KEERTHI SAGAR S REDDY	1NH15ME719	Ideas 91	NH-ME-19- Ideas91FZCO-003
67	MAHESH	1NH15ME724	Air Mech Engineers Pvt.Ltd	NH-ME-19-AMEPL- 010
68	MELVIN GEORGE	1NH15ME726	Salarpuria Sattva	NH-ME-19-SS-010
69	N S POOJA	1NH15ME731	Course5 Intelligence	NH-ME-19-C5IPL- 001
70	NITIN HOODA	1NH15ME733	Infosys	NH-ME-19-IL-033
71	R GANESH NAG	1NH15ME734	Shriram Properties	NH-ME-19-SP-004
72	ROSHAN SUHAIL	1NH15ME741	Air Mech Engineers Pvt.Ltd	NH-ME-19-AMEPL- 011
73	SAGAR KADAM	1NH15ME742	Mu Sigma	NH-ME-19-MSBSPL- 003
74	SAUBHAGYA RANJAN SAHOO	1NH15ME745	Apex Auto	NH-ME-19-AAL-001
75	SHASHANK N	1NH15ME746	Infosys	NH-ME-19-IL-034
76	SHASHANK V	1NH15ME747	Mu Sigma	NH-ME-19-MSBSPL- 004

77	SYED SAQLAIN AHMED	1NH15ME756	Extra Marks	NH-ME-19-EM-003
78	UTKARSH	1NH15ME757	Udaan	NH-ME-19-AJPL-009
79	VIVEK KHANDELWAL	1NH15ME759	Wipro	NH-ME-19-WL-008
80	ANAND REDDY.S.R	1NH16ME401	L & T Technologies	NH-ME-19-LTTS- 020
81	KAVYA.B.K	1NH16ME408	Amara Raja Group	NH-ME-19-ARBL- 004
82	LIKITH.H	1NH16ME409	Avtec Ltd	NH-ME-19-AL-001
83	PRAVEEN .R	1NH16ME417	Apex Auto	NH-ME-19-AAL-002
84	S.AKILESH	1NH16ME419	Udaan	NH-ME-19-AJPL-010
85	SANDEEP.S	1NH16ME420	Amara Raja Group	NH-ME-19-ARBL- 005
86	SHIVA KUMAR.B.R	1NH16ME422	Udaan	NH-ME-19-AJPL-011
87	SHIVARAJ KUMBAR	1NH16ME423	Apex Auto	NH-ME-19-AAL-003
88	VENKAT SURESH.S	1NH16ME427	Apex Auto	NH-ME-19-AAL-004
		AY-20	17-18	

PLACEMENTS DETAILS FOR AY-2017-18				
sl	NAME	USN	EMPLOYER	Appointment reference
No		0.511		no
1	Abhishek	1NH14ME001	Cyient	NH-ME-18-CL-001
2	Abhishek	1NH14ME003		NH_ME_18_24/7_001
2	Ajith	1111141112005	24/7	INTI-IVIE-10-24/7-001
3	Aby Mathews	1NH14ME006	Marutee Design &	NH-ME-18-MDEL-001
	Tharakan		Engg	
4	Akash G	1NH14ME013	WEG Industries	NH_ME_18_WIIPI_001
T	Dixit			111-1112-10- W III E-001
5	Akshay	1NH14ME014	Quest Global	NH-ME-18-QGEPL-
5	Kumar			001
	Ankur			
6	Bandopadhay	1NH14ME020	Triada	NH-ME-18-TTIPL-001
	ay			

7	Arpan Das	1NH14ME022	Marutee Design & Engg	NH-ME-18-MDEL-002
8	Arvind Kumar.R	1NH14ME023	Motherson Sumi	NH-ME-18-MS-001
9	Ashish Mathur	1NH14ME024	Quest Global	NH-ME-18-QGEPL- 002
10	Ashwin Kumar S	1NH14ME025	WEG Industries	NH-ME-18-WIIPL-002
11	Asif Ali U Boodihal	1NH14ME027	Godrej & Boyce	NH-ME-18-GBML-001
12	B.Mohammed Altaf	1NH14ME030	Speridian Technologies	NH-ME-18-ST-001
13	Bhujanga Saiabhishek Karri	1NH14ME032	Quest Global	NH-ME-18-QGEPL- 003
14	Challagulla Bhargav	1NH14ME035	WEG Industries	NH-ME-18-WIIPL-003
15	Chandra Kumar	1NH14ME036	24-Jul	NH-ME-18-24/7-002
16	Deepak Joshua	1NH14ME039	Cyient	NH-ME-18-CL-002
17	Dhanush A	1NH14ME040	Sona Group	NH-ME-18-SGI-001
18	Dheeraj Reddy.P	1NH14ME041	Quest Global	NH-ME-18-QGEPL- 004
19	Faisal Afsar Khan	1NH14ME042	Marutee Design & Engg	NH-ME-18-MDEL-003
20	Faisal Shariff	1NH14ME043	Motherson Sumi	NH-ME-18-MS-002
21	Farzin K P	1NH14ME044	Quest Global	NH-ME-18-QGEPL- 005
22	G.K. Balaji	1NH14ME046	WEG Industries	NH-ME-18-WIIPL-004
23	G.Ganga Sagar	1NH14ME047	24-Jul	NH-ME-18-24/7-003
24	Pruthvi Reddy.G.S	1NH14ME048	24-Jul	NH-ME-18-24/7-004
25	Girish Raveendran	1NH14ME052	24-Jul	NH-ME-18-24/7-005

26	H.Hitesh	1NH14ME053	TCS	NH-ME-18-TCS-001
27	Harsha.P	1NH14ME058	Marutee Design & Engg	NH-ME-18-MDEL-004
28	Jansen H Mathew	1NH14ME062	Sona Group	NH-ME-18-SGI-002
29	Jeevan R	1NH14ME063	Marutee Design & Engg	NH-ME-18-MDEL-005
30	Keerthi Kumar.M	1NH14ME066	Quest Global	NH-ME-18-QGEPL- 006
31	Kiran Kumar A	1NH14ME068	TCS	NH-ME-18-TCS-002
32	Likith Vignesh S	1NH14ME071	Quest Global	NH-ME-18-QGEPL- 007
33	Manish Chandrasheka r	1NH14ME074	IBM	NH-ME-18-IBMT-001
34	Mohammed Azeem	1NH14ME078	Infosys	NH-ME-18-IL-001
35	Nirmal Kumar.M.S	1NH14ME087	IBM	NH-ME-18-IBMT-002
36	Nithin R	1NH14ME088	Tecosim	NH-ME-18-TESPL- 001
37	Nitin Kumar	1NH14ME089	Sona Group	NH-ME-18-SGI-003
38	Patil Sandeep Vishnu	1NH14ME090	Cyient	NH-ME-18-CL-003
39	R.Monish	1NH14ME095	Speridian Technologies	NH-ME-18-ST-002
40	Sagar.K	1NH14ME109	Triada	NH-ME-18-TTIPL-002
41	Saif Hussain G	1NH14ME111	IBM	NH-ME-18-IBMT-003
42	Sudharshan.T. S	1NH14ME124	IBM	NH-ME-18-IBMT-004
43	Uday Kiran M	1NH14ME134	24-Jul	NH-ME-18-24/7-006
44	Sital Kumar Sah	1NH14ME161	Sona Group	NH-ME-18-SGI-004

45	Sachitanande Gupta	1NH14ME168	Quest Global	NH-ME-18-QGEPL- 008
46	Manoj Ratna Bhusal	1NH14ME169	Marutee Design & Engg	NH-ME-18-MDEL-006
47	Arjun Yadav	1NH14ME171	Motherson Sumi	NH-ME-18-MS-003
48	Mriganka Deka	1NH14ME173	Quest Global	NH-ME-18-QGEPL- 009
49	Bishwanath Kumar Yadav	1NH14ME174	WEG Industries	NH-ME-18-WIIPL-005
50	Suraj Rauniyar	1NH14ME175	24-Jul	NH-ME-18-24/7-007
51	Abhishek Mamidi	1NH14ME701	Motherson Sumi	NH-ME-18-MS-004
52	Akarsh R	1NH14ME702	WEG Industries	NH-ME-18-WIIPL-006
53	Dhanush S	1NH14ME703	Cyient	NH-ME-18-CL-004
54	Joyjit Sarkar	1NH14ME713	Triada	NH-ME-18-TTIPL-003
55	Rishav Singh	1NH14ME724	Marutee Design & Engg	NH-ME-18-MDEL-007
56	Abhishek.A	1NH14ME737	Motherson Sumi	NH-ME-18-MS-005
57	Anchit Boral	1NH14ME740	Quest Global	NH-ME-18-QGEPL- 010
58	Ganesh Kumar.C	1NH14ME743	Motherson Sumi	NH-ME-18-MS-006
59	Lakshmi Naryana.M	1NH14ME746	Motherson Sumi	NH-ME-18-MS-007
60	Prem Kumar S Banagar	1NH14ME749	TCS	NH-ME-18-TCS-003
61	Rahul.M.R	1NH14ME750	Cyient	NH-ME-18-CL-005
62	Suhas Bharadwaj.K. S	1NH14ME754	RAAM Group	NH-ME-18-RGSS-001
63	Trishul.V	1NH14ME756	TCS	NH-ME-18-TCS-004
64	Yashas Bharadhwaj	1NH14ME759	Sona Group	NH-ME-18-SGI-005
65	Akshay Kumar . K.R	1NH15ME401	24-Jul	NH-ME-18-24/7-008

66	Akshaya Sanga Reddy	1NH15ME402	Sona Group	NH-ME-18-SGI-006
67	Pramod. B	1NH15ME414	Sona Group	NH-ME-18-SGI-007
68	Sudharshana. R.S	1NH15ME422	24-Jul	NH-ME-18-24/7-009
69	Deepak . N.S	1NH15ME426	Quest Global	NH-ME-18-QGEPL- 011

# AY-2016-17

	PLACEMENTS DETAILS FOR AY-2016-17				
SL	NAME	USN	EMPLOYER	OFFER LETTER REFERENCE NUMBER	
1	Abhishek A	1NH13ME001		NH-ME-17-CLT-001	
2	Aakash Murthy	1NH13ME004	IBM Tech	NH-ME-17-IBMT-001	
3	Abhash Kumar Singh. E	1NH13ME009	Century Link	NH-ME-17-CLT-002	
4	Akshai.R	1NH13ME018	Quest Global	NH-ME-17-QGEPL- 001	
5	Ankit Singh	1NH13ME021	Tech Mahindra	NH-ME-17-ELTP-005	
6	Anwin T V Joseph	1NH13ME024	IBM Tech	NH-ME-17-IBMT-002	
7	Baldev Raj.C	1NH13ME030	IBM Tech	NH-ME-17-IBMT-003	
8	Chandan . P	1NH13ME031	Century Link	NH-ME-17-CLT-003	
9	Chandan Sah	1NH13ME032	U-Tech	NH-ME-17-U- TECH/Appt-001	
10	Lokesh Kumar. D	1NH13ME036	Century Link	NH-ME-17-CLT-004	
11	D Vijay Kumar	1NH13ME037	Punarvasu	NH-ME-17-PGL-001	
12	Deekshith. K.A	1NH13ME039	IBM Tech	NH-ME-17-IBMT-004	
13	Deepakraj	1NH13ME041	Tech Mahindra	NH-ME-17-ELTP-006	
14	Dhanush Krishna	1NH13ME042	Quest Global	NH-ME-17-QGEPL- 002	

15	Dipak Kumar Tiwari	1NH13ME044	IBM Tech	NH-ME-17-IBMT-005
16	Fawaz Mohamed Ali	1NH13ME048	U-Tech	NH-ME-17-U- TECH/Appt-002
17	Hitesh.N	1NH13ME054	Quest Global	NH-ME-17-QGEPL- 003
18	K. Bhanu Prakash Sairam	1NH13ME062	Vijay Speroidals	NH-ME-17-VSPL-001
19	Kishore D S Reddy	1NH13ME066	U-Tech	NH-ME-17-U- TECH/Appt-003
20	Kunal Mahto	1NH13ME067	Century Link	NH-ME-17-CLT-005
21	Muthamma.M. C	1NH13ME070	Punarvasu	NH-ME-17-PGL-002
22	Mahesh. S	1NH13ME072	VST Tillers	NH-ME-17-VSTTTL- 001
23	Megharaj	1NH13ME077	Century Link	NH-ME-17-CLT-006
24	Mohammed Faizal	1NH13ME081	IBM Tech	NH-ME-17-IBMT-006
25	Mohith Vijay	1NH13ME083	U-Tech	NH-ME-17-U- TECH/Appt-004
26	N.Sreevathasa	1NH13ME087	Quest Global	NH-ME-17-QGEPL- 004
27	Naveen	1NH13ME089	Galaxy Machinery	NH-ME-17-GMB-001
28	Parameshwar. S. Biradar	1NH13ME093	Century Link	NH-ME-17-CLT-007
29	Damodhar.R	1NH13ME097	VST Tillers	NH-ME-17-VSTTTL- 002
30	R Suraj Charan	1NH13ME098	IBM Tech	NH-ME-17-IBMT-007
31	Rahul Janardanan	1NH13ME099	U-Tech	NH-ME-17-U- TECH/Appt-005
32	Rakhesh.H.S	1NH13ME100	Tech Mahindra	NH-ME-17-ELTP-007
33	Ranjith Kumar	1NH13ME102	IBM Tech	NH-ME-17-IBMT-008
34	Rohit srinivasan S	1NH13ME105	U-Tech	NH-ME-17-U- TECH/Appt-006
35	Tareen S.R	1NH13ME109	Quest Global	NH-ME-17-QGEPL-

				005
36	Sachin Pamadinni	1NH13ME110	IBM Tech	NH-ME-17-IBMT-009
37	Sharana Basava Kuri	1NH13ME118	U-Tech	NH-ME-17-U- TECH/Appt-007
38	Sharath Kumar B Bennur	1NH13ME119	Century Link	NH-ME-17-CLT-008
39	Shiladitya Ghosh	1NH13ME121	Tech Mahindra	NH-ME-17-ELTP-008
40	Siddarth Kumar	1NH13ME125	Pinclick	NH-ME-17-PCB-001
41	Sunikshit Sharma	1NH13ME131	U-Tech	NH-ME-17-U- TECH/Appt-008
42	Sunil.S.V	1NH13ME132	Semcon	NH-ME-17-SIPL-001
43	Ujjwal M	1NH13ME137	IBM Tech	NH-ME-17-IBMT-010
44	Meghana Kammar	1NH13ME145	Amazon	NH-ME-17-ADC-001
45	Somesh Churasia	1NH13ME148	U-Tech	NH-ME-17-U- TECH/Appt-009
46	Chaitan. T	1NH13ME149	Century Link	NH-ME-17-CLT-009
47	Akash Aiyappa A M	1NH13ME702	U-Tech	NH-ME-17-U- TECH/Appt-010
48	Amit Singh	1NH13ME706	Century Link	NH-ME-17-CLT-010
49	Ashish	1NH13ME707	Punarvasu	NH-ME-17-PGL-003
50	Ashish	1NH13ME708	IBM Tech	NH-ME-17-IBMT-011
51	Gowtham.N.A	1NH13ME718	Galaxy Machinery	NH-ME-17-GMB-002
52	Dharma Teja. G	1NH13ME720	Quest Global	NH-ME-17-QGEPL- 006
53	John Simon	1NH13ME722	Sai Hydraulics	NH-ME-17-SILB-001
54	Keshava Prasad. B.S	1NH13ME727	Vijay Speroidals	NH-ME-17-VSPL-002
55	Likith.S	1NH13ME731	Tech Mahindra	NH-ME-17-ELTP-009
56	Maruthi . D . Avatede	1NH13ME732	VST Tillers	NH-ME-17-VSTTTL- 003
57	Neeraj Kumar	1NH13ME738	Semcon	NH-ME-17-SIPL-002

	Sah			
58	Puneeth.J	1NH13ME741	U-Tech	NH-ME-17-U- TECH/Appt-011
59	Sanjay Rajan	1NH13ME749	Speridian	NH-ME-17-ST-001
60	Sharon Abraham	1NH13ME751	Quest Global	NH-ME-17-QGEPL- 007
61	Shrey Vijay	1NH13ME753	Amazon	NH-ME-17-ADC-002
62	T.Saketh Reddy	1NH13ME756	Timken	NH-ME-17-TIL-001
63	Tarun R	1NH13ME759	Quest Global	NH-ME-17-QGEPL- 008
64	Yash Raj Choudhary	1NH13ME763	Tech Mahindra	NH-ME-17-ELTP-010
65	Arun Kumar. M	1NH14ME401	Speridian	NH-ME-17-ST-002
66	Arun. N	1NH14ME402	Semcon	NH-ME-17-SIPL-003
67	Ravi Kiran. J. B	1NH14ME408	Speridian	NH-ME-17-ST-003

4.5 professional Activities (20)

4.5.1 Professional societies/chapters and organizing engineering events (5)

No	Professional Societies/chapters
1	Indian Society for Technical Education
2	Institution of Engineers
3	Indian Institution of Production Engineers
4	The Indian Society of Heating, Refrigerating and Air Conditioning Engineers
	(ISHRAE) Bangalore Chapter
5	The American Society of Heating, Refrigerating and Air-Conditioning Engineers
	(ASHRAE) Bangalore Chapter

New Horizon College of Engineering, has ISTE, IIPE and IEI student chapters which conducts various events. Various student clubs are formed under this chapters and has the following broad objectives:

Plan & organize technical programs and activities, such as special lectures, workshops, seminars, webinars, symposia, and exhibitions etc. for benefit of students on regular basis.

- Provide a platform to students to exchange ideas and information on the topics of their interest like curriculum, job market, higher studies, emerging technologies, contemporary issues related to mechanical engineering discipline etc.
- Encourage teamwork and self-reliance among students
- Augment various aspects relating to professional development of students.

Events organized during the last 3 years are presented below:

List of Professional Societies/Chapters and Organizing Engineering Events in CAY (2019-20)

(20)	19-20)					
SL	NAME OF	ORGANIZED EVENT AND	RESOURCE	HOURS	NO OF	NO.
	PROFESSI	TITLE	PERSON	/ DATE	PARTICI	OF
Ν	ONAL		ORGANIZED		PANTS /	DAYS
0	SOCITIES /				ATTEND	
	CHAPTERS				EES	
1	ISHRAE	Webinar on Relationship	JVC Sreeram	9-5-	25	1
		Marketing		2020		
2	ISHRAE /	Webinar on Post Covid	Rohan Parikh	15-5-	25	1
	ASHRAE	HVAC Strategies: Safety		2020		
		and Cost Reduction				
3	ISHRAE /	Talk on Basics of Robotics	Mohan	16-5-	25	1
	ASHRAE		Nimbalkar	2020		
4	ISHRAE /	Indoor Environment,	Bjaren W.	16-5-	25	1
	ASHRAE	Thermal Comfort, IAQ,	Olesen	2020		
		Occupant Performance,				
		Productivity, Health				
5	ISHRAE /	Webinar on Grooved piping	Osama Al	18-5-	25	1
	ASHRAE	in HVAC System	Masri	2020		
6	ISHRAE	Webinar on Maintenance	Madhukar	18-5-	25	1
		and Services of HVAC		2020		
		system post Corona				
7	ISHRAE /	Talk on Virtual Chemistry	Dr. Vijayendra	24-5-	25	1
	ASHRAE	Lab	S Shetti	2020		
8	ISHRAE /	Webinar on Applied	Eng. Chandana	2-5-	25	1
	ASHRAE	Psychometrics for Air	N. Dalugoda	2020		
		Conditioning Systems				

9	ISHRAE /	Webinar on Fabric Ducts:	Ulhas Vatpal	13-6-	25	1
	ASHRAE	An Alternate Approach to		2020		
		Air Distribution				
10	ISHRAE /	Webinar on Drives for	Prachi Nayak	29-4-	25	1
	ASHRAE	HVAC		2020		
11	ISHRAE	Talk on Sustainability and	Dr. Rupesh S	2-5-	25	1
		Technological Advances in	Iyenger	2020		
		Green Building Design				
12	ISHRAE /	Webinar on Oil-Free	C Thilak	20-4-	25	1
	ASHRAE	Magnetic Bearing		2020		
		Technology Performance				
		Guarantee & Value				
		Proposition				
13	ISHRAE /	Webinar on Energy efficient	Anne	1-5-	25	1
	ASHRAE	cooling at no extra cost using	Lawrence	2020		
		intelligent devices and	Chevalier			
		modern data based				
		optimisation				
14	ISHRAE /	Webinar on Basics in	Geethanjali T	27-4-	25	1
	ASHRAE	Thermodynamics		2020		
15	ISHRAE /	Webinar on Precautions to	B. Gautham	30-4-	25	1
	ASHRAE	AC system for an Office &	Baliga	2020		
		Healthcare Post COVID-19				
		Lockdown				
16	ISHRAE /	Webinar on Importance of	Ravindra Rathi	13-5-	25	1
	ASHRAE	Chiller Star labelling		2020		
		Program in India				
17	ISHRAE /	Webinar on Challenges in	A.Madhukar	4-5-	25	1
	ASHRAE	maintenance & services in		2020		
		air conditioning system post				
		COVID-19				
18		Walting and Instation Descu	0 D	10.7	25	1
	ISHRAE /	webinar on Isolation Room	Samta Bajaj	18-5-	25	1
	ISHRAE / ASHRAE	Design in Health care	Samta Bajaj	18-5- 2020	25	1
	ISHRAE / ASHRAE	Design in Health care Facilities Covid-19	Samta Bajaj	2020	25	1
19	ISHRAE / ASHRAE ISHRAE /	Webinar on Isolation RoomDesign in Health careFacilities Covid-19Webinar on Understanding	A.Madhukar	18-5- 2020 12-5-	25	1

20	ISHRAE /	Webinar on Modular	Edward	20-5-	25	1
	ASHRAE	Support Systems in HVAC	Thomas	2020		
			Oommen			
21	ISHRAE /	Webinar on Tenders and	Dr. K M Soni	22-4-	25	1
	ASHRAE	Contracts		2020		
22	ISHRAE /	Webinar on Benefits of Pre	Priyank	22-5-	25	1
	ASHRAE	Insulated valves in HVAC	Shanker Garg	2020		
		System				
23	ISHRAE	Webinar on Basics of Air	Karthikeyan N	22-5-	25	1
		Conditioner	S	2020		
24	ISHRAE /	Webinar on Standards of	Arun Verma	25-5-	25	1
	ASHRAE	Filters		2020		
25	ISHRAE /	Talk on Fun with Robots	Pradeep	7-6-	25	1
	ASHRAE		Srinivasan	2020		
26	ISHRAE /	Webinar on New	Prasad Warrier	3-6-	25	1
	ASHRAE	Technologies in Cold Room		2020		
27	ISHRAE /	Webinar on importance of	Alok Bhardwaj	1-6-	25	1
	ASHRAE	Certified Air Handling Unit		2020		
		"An Overview"				
28	ISHRAE /	Webinar on Understanding	Tanmoy	30-5-	25	1
	ASHRAE	Fan System Effect	Kumar	2020		
			Choudhury			
29	ISHRAE /	Webinar on Technologies to	Dharmendra	17-6-	25	1
	ASHRAE	ensure safe returns to	Rathore	2020		
		workplace				
30	ISHRAE /	Webinar on Applications of	Gowrishankar	2-6-	25	1
	ASHRAE	Adiabatic Cooling in HVAC	М	2020		
		Systems				
31	ISHRAE	Webinar on Energy	Karthikayan N	22-6-	25	1
		Performance Assessment	S	2020		
32	ISHRAE /	Webinar on World	DR. Suneeta	26-6-	25	1
	ASHRAE	Refrigeration Day / Energy	Shriram Sane	2020		
		management for Cold				
		Storage				
33	ISHRAE /	Webinar on World	Dr. Ina	26-6-	25	1
	ASHRAE	Refrigeration Day /	Colombo	2020		
		Sustainable Cold Chain				

34	ISHDVE /	Webingr on Virtual	Dr Lakshmi	21.6	25	1
54	ISTIKAL /			21-0-	23	1
	ASHRAE	Chemistry Lab	Vellanki	2020		
35	ISHRAE	Webinar on Secrets to get	JVC Sreeram	13-6-	25	1
		success now		2020		
36	ISHRAE /	Webinar on Indoor Air	Dr.	6-6-	25	1
	ASHRAE	Quality Post Covid-19 Era	PriyabrataAdhi	2020		
			kary			
37	ISHRAE /	Webinar on An Introduction	S. Sriram	6-6-	25	1
	ASHRAE	to Seven Star Pre Insulated		2020		
		Pipes				
38	ISHRAE /	Webinar on A Methodology	Sushil K	10-6-	25	1
	ASHRAE	for Life Cycle Cost Analysis	Choudhury	2020		
		(LCCA)				
39	ISHRAE /	Webinar on How machines	Mukesh H	11-6-	25	1
	ASHRAE	become Intelligent		2020		
40	ISHRAE	Webinar on Learn the secrets	JVC Sreeram	20-6-	25	1
		of success now		2020		
41	ISHRAE /	Hands-on Session on	Banu V	12-7-	25	1
	ASHRAE	Sketching and Painting		2020		
42	ISHRAE /	Workshop on Awareness	Saurabh Diddi	20-6-	25	1
	ASHRAE	Program on ENS	S Vikash	2020		
		implementation and capacity	Ranjan			
		building program	Selvarasu	1		

#### AY-2018-2019

List	List of Professional Societies/Chapters and Organizing Engineering Events in CAY							
(201	8-19)							
SL.	NAME OF	ORGANIZED	RESOURCE	HOURS	NO. Of	NO.		
NO	PROFESSIONAL	EVENT AND TITLE	PERSON	/ DATE	PARTIC	OF		
	SOCITIES /		ORGANIZED			DAYS		
	CHAPTERS				IPENTS			
1	ISTE &	TCS Tech Bytes	TCS TEAM	29-2-	30	1		
				2019				
	MECHORIZON /							
	ROBOHORIZON							

2	IMTEX	Future Mobility	CII INDIA	26 <sup>th</sup> –		3
		Show 2019		$28^{th}$		
	MECHORIZON /			Feb		
	ROBOHORIZON			2019		
3	ISTE &	National	CLUB CO-	31-1-	25	1
		Productivity	ORDINATORS	2019		
	MECHORIZON /	Council Poster				
		Making				
	SAP next-gen /	Competition on				
	ROBOHORIZON	"Circular				
		Economy for				
		Productivity and				
		Sustainability"				
4	ISTE &	Decathlon	Decathlon	11-02-	48	1
	MECHORIZON	Innovation	Team	2018		
		Challenge				
5	SHELL INDIA	Shell Eco-	SHELL INDIA	20-10-		1
	PVT LTD	Marathon		2018		
	MECHORIZON	Promotional				
		Event				
6	IIPE &	"Laser World of	CLUB CO-	26-9-	58	1
	MECHORIZON /	photonics India"	ORDINATORS	2018		
	ROBOHORIZON	Industrial Visit –				
		BIEC				
7	ISTE &	International	CADD Centre	25-9-	15	1
		Design		2018		
	MECHORIZON/	Competition				
	ROBOHORIZON					
8	SAP INDIA PVT	Hands-on	Mithun D J	17-4-	50	1
	LTD &	Approach to		2019		
		Introduction to				
	SAP next-gen	Machine				
		Learning with				
		Python				
9	SAP INDIA PVT	Bites Project	TCS TEAM	28-2-	19	120
	LTD &	Awards 2019		2019 to		
				22-6-		

				2019		
10	SAP next-gen	Introduction to	Vidyadhar	11-05-	50	1
		Machine	Sharma	2018		
		Learning with				
		Python				
11	SAP INDIA PVT	Workshop on	SAP Experts	08-09-	10	1
	LTD &	SAP Cloud		2018		
		Platform				
12	SAP next-gen	Workshop on	SAP Experts	08-10-	10	1
		SAP Cloud		2018		
		Foundry Day				

# AY-2017-2018

List	List of Professional Societies/Chapters and Organizing Engineering Events in CAY						
(201	.7-18)						
SL	NAME OF	ORGANIZE	RESOURCE	HOUR	NO OF	NO.	
	PROFESSION	D EVENT	PERSON	<b>S</b> /	PARTICIPAN	OF	
Ν	AL SOCITIES /	AND TITLE	ORGANIZE	DATE	TS /	DAY	
0	CHAPTERS		D		ATTENDEES	S	
1	SAP INDIA	Hands-on	SAP INDIA	04-04-	34	1	
	PVT LTD &	Session on		2018			
	SAP next-gen	Machine					
		Learning					
2	SAP INDIA	Training	SAP INDIA	30-3-	25	1	
	PVT LTD &	Programme		2018			
	SAP next-gen	on Machine					
		Learning					
3	SAP INDIA	SAP-TCS	TCS	14 <sup>th</sup> -	6	2	
	PVT LTD &	Hackathon	TEAM/SAP	15 <sup>th</sup>			
	SAP next-gen		LABS	March			
				2018			
4	SAP INDIA	Hackathon	TCS	16 <sup>th</sup> -	9	2	
	PVT LTD &	at SAP	TEAM/SAP	17 <sup>th</sup>			
	SAP next-gen	Labs,	LABS	Feb			

-						
		Whitefield		2018		
5	ROBOHORIZO	SpaceX –	Dr. Prashanta	24-2-	60	1
	Ν	Guest	Kumar Panda,	2018		
		lecture on	CSIR-NAL			
		Aerospace				
		Science and				
		Technology				
6	ROBOHORIZO	Robo-Tech	CLUB CO-	04-06-	65	1
	Ν	Fair	ORDINATO	2018		
			RS			
7	ROBOHORIZO	Yantrikchitr	CLUB CO-	28-10-	66	1
	Ν	- CAD	ORDINATO	2017		
		Workshop &	RS			
		Competition				
8	MECHORIZO	3D Pop	CLUB CO-	16-11-	9	1
	Ν	Model	ORDINATO	2017		
		Making	RS			
9	MECHORIZO	Dassault	EDS	27-9-	5	1
	Ν	Systems -	Technologies	2017		
		Mobile				
		Demo				
		Center				

**4.6.2.** Publication of technical magazines, newsletters, etc.(5)

Faculty encourages the students to actively participate in writing articles for University's technical magazines and newsletters. Summary of student participation in contributing articles for in-house magazines/ newsletters during last 3 academic years is presented below:

SL. No.	Name of the Magazine/ News Letter	Volume No. / Month	Name of the Chief editor	Name of the Associate editor	Student editors
		Academ	ic Year 2019-20		
1	Yantrikruthi	Vol-8,	Dr. M S	Dr. Srinath	Mr. Sonic
		Issue-2	Ganesha prasad	M K	Somanna
		May-		Prof.	(6 <sup>th</sup> sem)
		2020		Shivaprakash	Mr. Parth (8 <sup>th</sup>

				S	sem)
				Prof. Puneeth	
				ΗV	
				Prof. Ronald	
				Reagon R	
				Prof.	
				Manjesh B C	
				Prof.	
				Santhosh A	
				Ν	
2	Yantrikruthi	Vol-7, Issue-	Dr. M S	Dr. Srinath	Mr. Sonic
		3	Ganesha prasad	ΜК	Somanna
		Aug-2019		Prof.	(5 <sup>th</sup> sem)
		_		Shivaprakash	Mr. Parth (7 <sup>th</sup>
				S	sem)
				Prof. Puneeth	
				ΗV	
				Prof. Ronald	
				Reagon R	
				Prof.	
				Manjesh B C	
				Prof.	
				Santhosh A	
				Ν	
3	Yantrikruthi	Vol-7, Issue-	Dr. M S	Dr. Srinath	Mr. Sonic
		4	Ganesha prasad	ΜК	Somanna
		Nov-2019		Prof.	(5 <sup>th</sup> sem)
				Shivaprakash	Mr. Parth (7 <sup>th</sup>
				S	sem)
				Prof. Puneeth	
				ΗV	
				Prof. Ronald	
				Reagon R	
				Prof.	
				Manjesh B C	
				Prof.	
				Santhosh A	

				Ν	
		Academic	Year 2018-19		
1. 3	Yantrikruthi	Vol-7, Issue-	Dr. M S	Prof. Rakesh	Mr. Sonic
		2	Ganesha prasad	С	Somanna
		May-2019		Prof.	(4 <sup>th</sup> sem)
				Shivaprakash	Mr.
				S	Parth
				Prof. Puneeth	(6 <sup>th</sup>
				ΗV	sem)
				Prof. Ronald	
				Reagon R	
				Prof.	
				Manjesh B C	
				Prof.	
				Santhosh A N	
2. 4	Yantrikruthi	Vol-7, Issue-	Dr. M S	Prof. Rakesh	Mr. Sonic
		1	Ganesha	С	Somanna
		Feb-2019	prasad	Prof.	(4 <sup>th</sup> sem)
				Shivaprakash	Mr.
				S	Parth
				Prof. Puneeth	(6 <sup>th</sup>
				ΗV	sem)
				Prof. Ronald	
				Reagon R	
				Prof.	
				Manjesh B C	
				Prof.	
				Santhosh A	
		Academ	ic Year 2017-18	- <u>-</u>	
3. 5	Yantrikruthi	Vol-6, Issue-	Dr. M S	Prof. Rakesh	Mr. Parth (4 <sup>th</sup>
		2	Ganesha	С	sem)
		May-2018	prasad	Prof.	Mr. Akhilesh
				Shivaprakash	$(6^{\text{m}} \text{ sem})$
				S	
				Prof.	
				Puneeth H V	
				Prof. Ronald	

				Reagon R	
				Prof.	
				Maniesh B C	
				Prof.	
				Santhosh A	
				N	
4 6 Y	antrikruthi	Vol-6 Issue-	Dr M S	Prof Rakesh	Mr. Parth (4 <sup>th</sup>
1. 0 1	untinkiutin	1	Ganesha	C	sem)
		Feb-2018	prasad	Prof	Mr Akhilesh
		100 2010	prusuu	Shiyaprakash	$(6^{\text{th}} \text{ sem})$
				S	(o sem)
				Prof	
				Puneeth H V	
				Prof Ronald	
				Reagon R	
				Prof.	
				Maniesh B C	
				Prof.	
				Santhosh A	
				Ν	
5. Y	antrikruthi	Vol-5, Issue-	Dr. M S	Prof. Rakesh	Mr. Akhilesh
		4	Ganesha	С	(4 <sup>th</sup> sem)
		Nov-2017	prasad	Prof.	× ,
			1	Shivaprakash	
				S	
				Prof.	
				Nagendra J	
				Prof. Ronald	
				Reagon R	
				Prof.	
				Manjesh B C	
				Prof.	
				Madhusudan	
6. Y	antrikruthi	Vol-5, Issue-	Dr. M S	Prof. Rakesh	Mr. Akhilesh
		3	Ganesha	С	(4 <sup>th</sup> sem)
		Aug-2017	prasad	Prof.	
				Shiverrekech	

	S	
	Prof.	
	Nagendra J	
	Prof. Ronald	
	Reagon R	
	Prof.	
	Manjesh B C	
	Prof.	
	Madhusudan	
		S Prof. Nagendra J Prof. Ronald Reagon R Prof. Manjesh B C Prof. Madhusudan

4.5.3 Participation in inter-institute events by students of the program of study (10) (The Department shall provide a table indicating those publications, which received awards in the events/conferences organized by other institutes) Participation of students in events/ conferences organized by other institutes during la

Participation of students in events/ conferences organized by other institutes during last 3 academic years and their achievements in the same is presented below:

	KSCST PRO	JECT INTER INS	STITUTE PARTICIPATI	ON AY	2-2018-2019
S	Student	Title of	Venue	Date	Remark
No.	Name	Project			
1	Arjun yadav,Manoj ratan Bhusal,ranjan jaiwal,harish	Improvisation on physical and combustion properties of fuel briqette from pongamia and glycerin mixing different	Bapuji Institute if Engineering and Technology,Davangere	11 Aug. 2018	Seminar/Exibition
		binders			
2	sital kumar	Design and	Bapuji Institute if	11	Best project of
	sah, sandeep	fabrication of	Engineering and	Aug.	the year
	chaudhary,	machine to	Technology, Davangere	2018	
	suraj	convert plastic			
	timilsina,	into oil and			
	nischal	gaseous fuel			

	bhattarai	production			
		1			
3	Akillesh,	Design and	KLE Society's Dr. M S	27-	Seminar/Exibition
	shiv kumar,	development	Sheshgiri College of	Jul-	
	shivraj,	on conversion	Engineering and	19	
	vinuth	of LDPE	Technology, Belagavi		
		plastic waste			
		into liquid fuel			
		by sequential			
		pyrolysis			
		technique			
4	Mohammed	Fabrication of	KLE Society's Dr. M S	27-	Seminar/Exibition
	Riyaz, dinesh	3 axis	Sheshgiri College of	Jul-	
	kumar,	pnewmatic	Engineering and	19	
	nagaraj,	trailer lift	Technology, Belagavi		
	Tayyab				
	masood				
5	Ganesh	Design and	Bapuji Institute if	11	Seminar/Exibition
	kumar, suhas	fabrication of	Engineering and	Aug.	
	bharadwaj,	an artificial	Technology, Davangere	2018	
	rahul M R,	leg			
	Rahul P	mechanism for			
		above knee			
		amputees			
	1				1

• GO-KART-Team HORIZONTAL, NHCE-2019

SL NO	NAME	EVENT DETAILS	VENUE	DATE
1	Mohammed Faizan			
2	Yasser Arafat M			
3	Likith R S			
4	Naveen Kumar M V			
5	Mahesh K R			
6	Hari Prasad J			
7	Sandeep			

			I	
8	Ajay Kumar V			
9	Prakash N R	Formula Kart	PCNTDA	February 9 th –11 th
10	Ajay Kumar K V	Design Challenge	Traffic	, 2019
11	Sanjay H V	-FKDC	Park, Pune	
12	Pradhyumna	TEAM ID-		
	Kosaraju	K190135		
13	S Surya Prakash			
14	Nikhil R			
15	Sonic Somanna P K			
16	Manjunath N Jayakar			
17	Manohar K Magi			
18	Iranna Keshatti			
19	Pavan Kalyan			
20	Aniruddha Jaiswal			



Fig. 4.5.3.1-FKDC Pune

sl no	Name	Event Name details	Venue	date
1	Sudarshan R	SHELL ECO	Shell	19th NOV-
2	Pranav R	MARATHON	Technology	22nd NOV,
3	Aashish Joshi	INDIA-2019	Centre	2019
4	K M Vishall somaiya		Bangalore	
5	Akash v			
6	Arni Tharakaram hariram			
7	Mubashir hussain	]		
8	Monish babu C			



Fig. 4.5.3.2-Shell Eco-Marathon 2019

Journal articles Published by students during the last 3 academic years and their achievements in the same is presented below:

S1.	Name of the Student	Paper Title	Journal	Volume	Year
No.			Name	& Issue	
					_
1	Shashank S, Vijay,	Nylon Aramid Polymer	AIP		Jan-
	Syed Ali, Venkat	as a Sliding Liner for			19
	Suresh	Lube-less Sliding			
		Bearing by Fused			
		Deposition Modelling			
2	Omar Ayaz, Seemanth	Fabrication Modelling	IJRASET	07 &	Apr-
	Misha, Shawn	and Analysis of Track		04	19
	Fernandes, Suryansh	Buggy			
	Mishra				
3	P Ronald	Simulation and Hardness	IJRASET	07 &	Apr-
	Christopher,Syed	Test of Kevlar and Glass		04	19
	Awabur	Fibre Composite for			
	Rahaman.Vaishak P	Bullet Proof and Stab			
	, , , , , , , , , , , , , , , , , , ,	resistant Vest			
4	Keerthi Kumar, Sukruth	Bird Repellent and	IJTIMES	05 &	May-
	C, Nithesh Gowda,	Deterrent System		05	19

	Madan B				
5	Tayyeb Masood, Md.	Design & Fabrication of	IJTIMES	05 &	May-
	Nagaraj S	Lift		05	17
6	Tejas, Yogesh Kumar.	Fabrication of Automatic	UTIMES	05 &	Mav-
Ū	Ranjan Sahoo, Murali	Sewage Cleaning		05	19
		Machine			
7	Alex Vincent, Anandu	Fabrication of Voice	JETIR	06 &	May-
	B S, Anirudh K, Shebeeb V K	Operated Wheelchair		05	19
0				06.0	M
8	Ragnav V Rao, Shashank, Sai Sri Rai.	Study & Fabrication of IoT Enabled VAWT	JETIK	06 & 05	May- 19
	Ashwanth Ramesh				
9	Jayasimha Reddy,	Design & Development	IJTIMES	05 &	May-
	Guruprasead P, Mahesh	of Smart Dustbin using		05	19
	Reddy P	ПоТ			
10	Shivaprasad L,	Design & Fabrication of	IJTIMES	05 &	May-
	Shreekrishna Girish C D. Shashank G	Box Transport System		05	19
	D, Shashank O	Mechanism			
11	Dilip Kumar, shashank,	Effect of Heat Treatment	IJMTE	09 &	May-
	Praveen, Sandeep	on Mechanical Properties		05	19
		of Cu30Ni5Zn Alloys			
12	Himalaya Bhatta,	Design & Fabrication of	IJTIMES	05 &	May-
	Bishal Khatri,	Step Farming Slope		05	19
	Kushwahun, Arun Kumar Sah	Creatier			
12	Abbishak Mamidi	Deview on the	ПЕТТ	50 % 2	Merr
13	Abinshek Mannul, Akarsh R, Neil George.	Comparative Study for	IJĊĬĬ	JY & Z	19 19 19
	,	Optimization Methods of			

	Yashwas B	Thermal Devices			
14	Navnath, Mahesh	Design & Fabrication of Waste Garbage Separation	IJTIMES	05 & 06	Jun- 19
15	Kuldeep J, Nitin Hooda, Utkarsh, Vivek K	Flow Analysis of Lube System of a Gas Turbine Engine	JETIR	06 & 06	Jun- 19
16	Aditya Singh, Pranish, Bwnjamin A, Mudassir A	Design & Fabrication of Magnetic Suspension for Two-Wheeler	JETIR	06 & 06	Jun- 19
17	Sachin L, Shariq Ali, Karthik Haridas, Sushil Kumar	Safety Enhancement for Four-Wheeler	ICETEISM	Special Issue- 78	Jul- 19
18	Sangye W, Roshan Joshi, Shubham K, Munna Y	Thermo-Electric Power Generation from Waste Heat	ICETEISM	Special Issue- 90	Jul- 19
19	John Paul, Yashwanth Verma, Riyaz Ahmad, Varun M	Design & Fabrication of Solar Hybrid Windmill	IJSART	05 & 07	Jul- 19
20	Rahul, Tarun, Sravya K	Investigation of Effect of Alloying Elements on Tribological & Mechanical Properties of Sintered Iron	IJSART	05 & 07	Jul- 19
21	Aswin J, Abrar,Adil A, Mahesh M	Design of Auto-Drilling Mechanism for Dynamic Balancing of Rotors used in Generators	IJSART	05 & 07	Jul- 19

			110 / 5 -	07.0	<b>.</b> .	
22	Ganesh Nag, Roshan	deign & Fabrication of	IJSART	05 &	Jul-	
	Suhail, Shashank N,	Multi-Nut Impact		07	19	
	Vishnu Tej	Wrench				
22	Manish C. Nithin D	Eshrication of Eval Flow		0.4 %	T1	
23	Manish S, Nithin K,	Fabrication of Fuel Flow	IJ I IMES	04 &	Jul-	
	Preetham G, Sandeep P	Quantity and Quality		07	19	
		Measuring Device				
24	Bishal Nath, Avishek	Design and Fabrication	ICETEISM	Special	Jul-	
	Sow, Ananda P, Bishal	of Solar Powered		Issue-	19	
	kumar Sharma	Floating Waste Collector		47		
		C C				
25	Balaji S, Karan Kumar,	Solar Photovoltaic Water	IJSART	05 <b>&amp;</b>	Jul-	
	Keerthan Shetty, Arjun	Pumping System		07	19	
26	Akshay Meti, Naveen	Design of Portable root	ICETEISM	Special	Jul-	
	Kumar, Rohan Y,	Crop Washer Machine		Issue-	19	
	Sachin M D	used in the Agriculture		05		
		Field				
27	Appaji Reddy, Basana	Iot Based Smart	ICETEISM	Special	Jul-	
	Gouda, Manoj M,	Irrigation System		Issue-	19	
	Venugopal			08		
28	Rajith R, Kevin Karan,	Design & Development	ICETEISM	Special	Jul-	
	Jagadish Babu	of Hybrid Solar Cooker		Issue-	19	
				22		
20	Symonth C. Mailhary	Design & Debriggtion of	ICETEION	Createl	Lu1	
29	Sumantn G, Valonav	Design & Fabrication of	ICETEISM	special	Jui-	
	Kaj, Naveen Kumar,	Dual Powered		Issue-	19	
	Swaroop G	Multipurpose		64		
		Agricultural Vehicle				
AY-2017-2018						
S1.	Name of the Student	Paper Title	Journal	Volum	Year	
No.			Name	e &		
				Lagua		

NO.			Name	e & Issue	
1	Nallode C,	Design & Performance	JAME	06 &	Nov-
		Analysis of a CD Nozzle			

	Ahmad J	for Evacuating Emissions from Subway Tunnels		06	17
2	Vijay Kumar, Chandan Kumar, Chetan Kumar Patil, Shashank Reddy	Reduction of Idle-Hunting in Diesel Fuel Injection Pump	IRJET	04 & 11	Nov- 17
3	Roshan Suhail, Shashank, Ganesh Nag, Vishnu Tej	Study of Inlet Guide Vanes for Centrifugal Compressor in Miniature Gas Turbines	IJSRCSE IT	04 & 05	May -18
4	Akilesh, Vinuth Kumar, Satish B	Design & Fabrication of Prosthetic Arm Prototype	IJRAT	06 & 05	May -18
5	Vignesh H N, Keerthi Sagar reddy, Anand Reddy	Design & Fabrication of Vacuum Operated Chalk Dust Collector	IJSER	09 & 05	May -18
6	Nadhan M, Jeevan R, Kiran kumar S, Chidananda K	Study of Mechanical & Physical Properties of Wood-Plastic Composites made of Low Density Polyethylene, Wood Flour & Nano Clay	JETIR	05 & 05	May -18
7	Manish S, Nithin R, Preetham G, Sandeep P	Automatic Chain Cleaning & Lubrication System	IJTIMES	04 & 06	Jun- 18
8	Vishwa I, Deepak S, Karthik Govind, Likhith	Design and Fabrication of Overhead tank Cleaning Machine	IJTIMES	04 & 06	Jun- 18
9	Kuldeep J, Nitin Hooda, Utkarsh, Vivek K	Design & Fabrication of Hydrogen Generator	IJTIMES	04 & 06	Jun- 18
10	Suraj S, Harsh V, Sandeep Patil, Nithin Kumar	Mechanical & Tribological Characterization of Sintered Iron and Aluminium based Alloys	IRJET	05 & 06	Jun- 18
11	Sefeej, Swathin, Nikith, Nidhin	Design & Fabrication of Electromagnetic Braking System	JETIR	05 & 06	Jun- 18
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12	Mahesh Reddy, B Nutan Kumar	Automatic Side Stand Retrieving System	IJTIMES	04 & 06	Jun- 18
13	Akash Mitra, Shehzar Sheriff, Sheshdhar Prakash	Trash Cleaning Boat- Design & Fabrication	IJTIMES	04 & 06	Jun- 18
14	Abdul Raheem, Abdul Ansari, Dinesh Yadav, Md Ansari	Design & Fabrication of Multipurpose Agricultural Equipment	IRJET	05 & 07	Jul- 18
15	Vikas Borkar, Sharath Kumar, Sagar P, Prashanth H N	Experimental Investigation in Power Generation using Thermo-Electric Generator	IRJET	05 & 07	Jul- 18
16	Abhijith Padhi, Sharon Abraham, Ashish, Sharma S	Microstructure & Mechanical Properties of Aluminium Metal Matrix Composites	IJTIMES	04 & 07	Jul- 18

• List of Sports students Achievements in Odd Sem-2020

Sl	Name	USN	SE	EVENT	DATE	TOUR	NO	ACHIEVE
•			Μ			NAM	•	MENTS
Ν						ENT	OF	
0							DA	
							YS	
1.	SHUBHA	1NH17M	VI	BASKETB	28 <sup>th</sup> &	DEVA	02	WINNERS
	Μ	E098		ALL (M)	29 <sup>th</sup> FEB	DAN		
	CHOUDH				2020	CUP		
	ARY							
2.	JEFFRIN	1NH17M	VI	BASKETB	28 <sup>th</sup> &	DEVA	02	WINNERS
	IMMNNU	E137		ALL (M)	29 <sup>th</sup> FEB	DAN		
	EL				2020	CUP		
3.	ABHINAY	1NH18M	IV	BASKETB	25 <sup>th</sup> JAN	Malles	10	3 <sup>rd</sup> PLACE
	A V	E702		ALL (W)	TO 3 <sup>rd</sup>	hwara	06	RUNNERS

					FEB	m Cup	03	WINNERS
					2020	SPIEL		
					10 <sup>th</sup> TO	RVCE		
					15 <sup>th</sup> FEB			
					2020			
					22 <sup>nd</sup> TO			
					24 <sup>th</sup> FEB			
					2020			
4.	AMIT K	1NH17M	VI	VOLLEYB	1 <sup>St</sup> and		02	RUNNERS
	VERNAK	E711		ALL (M)	$2^{\text{ND}}$ FEB	UMA	02	RUNNERS
	AR				2020	NG	02	RUNNERS
	(Played				23 <sup>RD</sup>	RVCE	02	II
	Nationals)				AND 24 <sup>th</sup>	VTU		RUNNERS
					FEB	(BCZ)		
					2020	VTU		
					5 <sup>th</sup> and	(IZ)		
					6 <sup>th</sup> MAR			
					2020			
					9 <sup>th</sup> and			
					1th MAR			
					2020			
5.	GIRI R	1NH18M	IV	VOLLEYB	1 <sup>St</sup> and		02	RUNNERS
		E094		ALL (M)	2 <sup>ND</sup> FEB	UMA	02	RUNNERS
					2020	NG	02	RUNNERS
					23 <sup>RD</sup>	RVCE	02	II
					AND 24 <sup>th</sup>	VTU		RUNNERS
					FEB	(BCZ)		
					2020	VTU		
					5 <sup>th</sup> and	(IZ)		
					6 <sup>th</sup> MAR			
					2020			
					9 <sup>th</sup> and			
					1th MAR			
					2020			
6.	VARUN R	1NH16M	VI	KABADDI	24 <sup>th</sup>	SJCC	02	RUNNERS
		E756	II		TO25th			
					FEB			

					2020			
7.	KARAN S	1NH17M	VI	KABADDI	24 <sup>th</sup>	SJCC	02	RUNNERS
	KUMAR	E040			TO25th			
					FEB			
					2020			
8.	WANG	1NH18M	IV	POWERLI	21 <sup>st</sup>	MUM	11	PARTICIP
	JAMDEE	E757		FTING	TO31st	BAI		ATION
	PAK				JAN			
	(Played				2020			
	Nationals)							
9.	PRADHY	1NH16M	VI	HANDBA	$28^{\mathrm{TH}}$ &	CUFE	02	RUNNERS
	UMNA	E019	II	LL	29 <sup>th</sup> FEB	Е		
	KOSARAJ				2020			
	U							
10.	ADHITYA	1NH18M	IV	HANDBA	28 <sup>TH</sup> &	CUFE	02	RUNNERS
	N J	E010		LL	29 <sup>th</sup> FEB	Е		
					2020			
11.	TARUN S	1NH18M	IV	HANDBA	28 <sup>TH</sup> &	CUFE	02	RUNNERS
		E110		LL	29 <sup>th</sup> FEB	Е		
					2020			
12.	ADVAITH	1NH18M	IV	HANDBA	28 <sup>TH</sup> &	CUFE	02	RUNNERS
	D S	E011		LL	29 <sup>th</sup> FEB	Е		
					2020			
13.	UDIT	1NH18M	IV	HANDBA	28 <sup>TH</sup> &	CUFE	02	RUNNERS
	KUMAR S	E112		LL	29 <sup>th</sup> FEB	Е		
					2020			
14.	VIGNESH	1NH18M	IV	HANDBA	28 <sup>TH</sup> &	CUFE	02	RUNNERS
	AM	E755		LL	29 <sup>th</sup> FEB	Е		
					2020			
15.	DARSHA	1NH18M	IV	HANDBA	28 <sup>TH</sup> &	CUFE	02	RUNNERS
	N P	E713		LL	29 <sup>th</sup> FEB	Е		
					2020			
16.	KAVITHA	1NH18M	IV	HANDBA	28 <sup>TH</sup> &	CUFE	02	RUNNERS
	NJAN K	E726		LL	29 <sup>th</sup> FEB	Е		
					2020			

Even Sem 2019

Sl	Name	USN	SE	EVENT	DATE	TOUR	Ν	ACHIEV
			Μ			NA	0.	EMENTS
Ν						MENT	OF	
0							DA	
							YS	
1	HUBHAM	1NH17	V	BASKE	9 <sup>th</sup> TO 11 <sup>th</sup>	RIT	03	RUNNERS
	CHOUDH	ME0988		TBALL	SEP 2019	VTU	02	RUNNERS
	ARY			(M)	$16^{\text{th}} \& 17^{\text{th}}$	(BCZ)	04	WINNERS
					SEP 2019	VTU		
					25 <sup>th</sup> TO 28 <sup>th</sup>	(IZ)		
					SEP 2019			
2	JEFFRIN	1NH17	V	BASKE	9 <sup>th</sup> TO 11 <sup>th</sup>	RIT	03	RUNNERS
	IMMANU	ME137		TBALL	SEP 2019	VTU	02	RUNNERS
	EL A			(M)	$16^{\text{th}} \& 17^{\text{th}}$	(BCZ)	04	WINNERS
					SEP 2019	VTU		
					25 <sup>th</sup> TO 28 <sup>th</sup>	(IZ)		
					SEP 2019			
3	AJAY S	1NH18	III	BASKE	9 <sup>th</sup> TO 11 <sup>th</sup>	RIT	03	RUNNERS
		ME012		TBALL	SEP 2019	VTU	02	RUNNERS
				(M)	$16^{\text{th}} \& 17^{\text{th}}$	(BCZ)	04	WINNERS
					SEP 2019	VTU		
					25 <sup>th</sup> TO 28 <sup>th</sup>	(IZ)		
					SEP 2019			
4	BHINAYA	1NH18	III	BASKE	9 <sup>th</sup> TO 11 <sup>th</sup>	RIT	03	WINNERS
	V	ME702		TBALL	SEP 2019	KREE	04	III PLACE
				(W)	1 <sup>st</sup> TO 4 <sup>th</sup>	DOST		
					OCT 2019	AVA		
	AMIT K V	1NH17	V	VOLLE	1 <sup>st</sup> TO 4 <sup>th</sup>	KREE	04	III PLACE
		ME711		YBALL	OCT 2019	DOST		
				(M)		AVA		
	GIRI R	1NH18	III	VOLLE	1 <sup>st</sup> TO 4 <sup>th</sup>	KREE	04	III PLACE
		ME094		YBALL	OCT 2019	DOST		
				(M)		AVA		
	L	1NH17	V	BADMI	$24^{\text{th}}$ & $25^{\text{th}}$	<b>VTU`</b>	02	III PLACE
	ANOOSH	ME725		NTON	AUG 2019	SPAR	02	WINNERS
				(M)	26 <sup>th</sup> & 27 <sup>th</sup>	DHA		
					SEP 2019	2019		

SARAVA	1NH17	V	BADMI	$24^{\text{th}}$ & $25^{\text{th}}$	VTU`	02	III PLACE
NA S	ME092		NTON	AUG 2019	SPAR	02	WINNERS
			(M)	$26^{th}$ & $27^{th}$	DHA		
				SEP 2019	2019		
VENKATE	1NH18	V	BEST	14 <sup>th</sup> TO 16 <sup>th</sup>	VTU(B	03	1 SILVER
SH R	ME421		PHYSIQ	OCT 2019	est		MEDAL
			UE		Physiq		
					ue)		
KAVITHA	1NH18	III	WREST	5 <sup>th</sup> TO 7 <sup>th</sup>	VTU	03	1 BRONZE
NJAN K	ME726		LING &	SEP 2019			MEDAL
			JUDO				
SHAIKH	1NH17	V	WREST	5 <sup>th</sup> TO 7 <sup>th</sup>	VTU	03	1 BRONZE
ABDUL	ME094		LING &	SEP 2019			MEDAL
ALAM			JUDO				
MOHIT	1NH16	VII	FOOTB	26 <sup>th</sup> & 27 <sup>th</sup>	SPAR	02	RUNNERS
KUMAR	ME062		ALL	SEP 2019	DHA		
MISHRA					19		
WANGJA	1NH18	III	POWER	30 <sup>th</sup> & 31 <sup>st</sup>	VTU(P	02	1 GOLD
М	ME757		LIFTIN	OCT 2019	ower		MEDAL
DEEPAK			G		Lifting)		

#### Odd Sem-2019

Sl	Name	USN	SE	EVE	DATE	TOURNA	Ν	ACHIEVE
No			Μ	NT		MENT	0.	MENTS
							OF	
							DA	
							YS	
1	VARUN	1NH16M	VI	KAB	3 <sup>rd</sup> TO 5 <sup>th</sup>	NEW	3	WINNERS
	REDDY	E756		ADDI	APR 2019	HORIZO	2	WINNERS
					10 <sup>th</sup> TO 11 <sup>th</sup>	N CUP	1	WINNERS
					APR 2019	RNSIT		
					24 <sup>th</sup> APR	SAI LIO		
					2019			
2	KARAN S	1NH17M	IV	KAB	3 <sup>rd</sup> TO 5 <sup>th</sup>	NEW	3	WINNERS
	KUMAR	E040		ADDI	APR 2019	HORIZO	2	WINNERS
					10 <sup>th</sup> TO 11 <sup>th</sup>	N CUP	1	WINNERS
					APR 2019	RNSIT		

					24 <sup>th</sup> APR	SAI LIO		
					2019			
3	AKSHAY	1NH17M	IV	VOL	28 <sup>th</sup> MAR	FISA	1	WINNERS
	Κ	MD002		LEYB	2019	AMC	2	WINNERS
	VERNEK			ALL(	29 <sup>th</sup> TO 30 <sup>th</sup>	NEW	3	WINNERS
	AR			M)	MAR 2019	HORIZO	1	WINNERS
					3 <sup>rd</sup> TO 5 <sup>th</sup>	N CUP		
					APR 2019	SAI LIO		
					24 <sup>th</sup> APR			
					2019			
4	AMIT K	1NH17M	IV	VOL	28 <sup>th</sup> MAR	FISA	1	WINNERS
	VERNEK	E711		LEYB	2019	AMC	2	WINNERS
	AR			ALL(	29 <sup>th</sup> TO 30 <sup>th</sup>	NEW	3	WINNERS
				M)	MAR 2019	HORIZO	1	WINNERS
					3 <sup>rd</sup> TO 5 <sup>th</sup>	N CUP		
					APR 2019	SAI LIO		
					24 <sup>th</sup> APR			
					2019			
5	N R	1NH17M	IV	VOL	28 <sup>th</sup> MAR	FISA	1	WINNERS
	ARJUN	E057		LEYB	2019	AMC	2	WINNERS
				ALL(	29 <sup>th</sup> TO 30 <sup>th</sup>	NEW	3	WINNERS
				M)	MAR 2019	HORIZO	1	WINNERS
					3 <sup>rd</sup> TO 5 <sup>th</sup>	N CUP		
					APR 2019	SAI LIO		
6	HARSHA	1NH16M	VI	HAN	$2^{nd}$ TO $3^{rd}$	VTU	2	WINNERS
	VARDHA	E035		DBA	APR 2019	(BCZ)		
	NA C			LL				
7	PRADHY	1NH16M	VI	HAN	$2^{nd}$ TO $3^{rd}$	VTU	2	WINNERS
	UMNA K	E077		DBA	APR 2019	(BCZ)		
				LL				
8	NIKHIL	1NH17M	IV	HAN	2 <sup>nd</sup> TO 3 <sup>rd</sup>	VTU	2	WINNERS
		E064		DBA	APR 2019	(BCZ)		
L				LL				
9	UTKARS	1NH15M	VII	BAS	28 <sup>th</sup> MAR	NEW	9	RUNNERS
	Н	E757	Ι	KETB	TO 5th	HORIZO		
	GULERIA			ALL(	APRIL	N CUP		
				M)	2019			

10	SHUBHA	1NH17M	IV	BAS	28 <sup>th</sup> MAR	NEW	9	RUNNERS
	Μ	E098		KETB	TO 5th	HORIZO		
	CHOUDH			ALL(	APRIL	N CUP		
	ARY			M)	2019			
11	JEFFRIN	1NH17M	IV	BAS	28 <sup>th</sup> MAR	NEW	9	RUNNERS
	IMMANU	E137		KETB	TO 5th	HORIZO		
	EL			ALL(	APRIL	N CUP		
				M)	2019			
12	SONIC	1NH17M	IV	HOC	$15^{\text{th}} \& 16^{\text{th}}$	VTU(BCZ	2	RUNNERS
	SOMANN	E101		KEY	APR 2019	)		
	А							
13	CHETAN	1NH117	IV	HOC	$15^{\text{th}} \& 16^{\text{th}}$	VTU(BCZ	2	RUNNERS
	HITHESH	ME060		KEY	APR 2019	)		
14	ROHAN S	1NH16M	VI	HOC	$15^{\text{th}} \& 16^{\text{th}}$	VTU(BCZ	2	RUNNERS
	YADAV	E090		KEY	APR 2019	)		

# Year-2018

Sl.	Name	USN	SE	EVE	DATE	TOURNA	NO.	ACHIE
No			Μ	NT		MENT	OF	VEME
							DA	NTS
							YS	
1	SHUBHA	1NH17	II	BAS	8 <sup>th</sup> TO 10 <sup>th</sup>	AZURA	03	RUNNE
	Μ	ME098		KETB	MAR 2018	2018	22	RS
	CHOUDH			ALL(	14 <sup>th</sup> MAR TO			RUNNE
	ARY			M)	4 <sup>th</sup> APR 2018			RS
2	AKSHAY	1NH17	II	VOL	17 <sup>th</sup> TO 19 <sup>th</sup>	RV	03	PARTI
	Κ	MMD02		LEYB	FEB 2018	MOMEN	02	CIPATI
	VERNEK			ALL	28 <sup>th</sup> FEB TO	TUM	02	ON
	AR			(M)	1 <sup>st</sup> MAR-18	DEVADA	03	WINNE
					$2^{nd}$ & $3^{rd}$	N CUP	02	RS
					MAR 2018	VTU(BCZ	22	WINNE
					4 <sup>th</sup> TO 6 <sup>th</sup>	)	01	RS
					MAR 2018	VTU(IZ)	01	RUNNE
					$7^{th} \& 8^{th}$	KREEDO		RS
					MAR 2018	STAV		WINNE
					14 <sup>th</sup> MAR	AZURA		RS
					TO 4 <sup>th</sup> APR	2018		WINNE

					2018	SAI LIO		RS
					17 <sup>th</sup> APR	AMC		WINNE
					2018			RS
					18 <sup>th</sup> APR			WINNE
					2018			RS
3	AMIT K	1NH17	II	VOL	17 <sup>th</sup> TO 19 <sup>th</sup>	RV	03	PARTI
	VERNEK	ME711		LEYB	FEB 2018	MOMEN	02	CIPATI
	AR			ALL	28 <sup>th</sup> FEB TO	TUM	02	ON
				(M)	1 <sup>st</sup> MAR-18	DEVADA	03	WINNE
					$2^{nd}$ & $3^{rd}$	N CUP	02	RS
					MAR 2018	VTU(BCZ	02	WINNE
					4 <sup>th</sup> TO 6 <sup>th</sup>	)	03	RS
					MAR 2018	VTU(IZ)	01	RUNNE
					$7^{th} \& 8^{th}$	KREEDO	01	RS
					MAR 2018	STAV		WINNE
					2 <sup>nd</sup> TO 4 <sup>th</sup>	AZURA		RS
					APR 2018	2018		WINNE
					17 <sup>th</sup> APR	SAI LIO		RS
					2018	AMC		WINNE
					18 <sup>th</sup> APR			RS
					2018			WINNE
								RS
4	N R	1NH17	II	VOL	17 <sup>th</sup> TO 19 <sup>th</sup>	RV	03	PARTI
	ARJUN	ME057		LEYB	FEB 2018	MOMEN	02	CIPATI
				ALL	28 <sup>th</sup> FEB TO	TUM	02	ON
				(M)	1 <sup>st</sup> MAR-18	DEVADA	03	WINNE
					$2^{nd}$ & $3^{rd}$	N CUP	02	RS
					MAR 2018	VTU(BCZ	03	WINNE
					4 <sup>th</sup> TO 6 <sup>th</sup>	)	01	RS
					MAR 2018	VTU(IZ)	01	RUNNE
					$7^{ m th} \& 8^{ m th}$	KREEDO		RS
					MAR 2018	STAV		WINNE
					$2^{nd} TO 4^{th}$	AZURA		RS
					APR 2018	2018		WINNE
					17 <sup>th</sup> APR	SAI LIO		RS
					2018	AMC		WINNE
					18 <sup>th</sup> APR			RS

					2018			WINNE
								RS
5	SACHIN	1NH17	II	VOL	17 <sup>th</sup> TO 19 <sup>th</sup>	RV	03	PARTI
	KUMAR	ME743		LEYB	FEB 2018	MOMEN	02	CIPATI
				ALL	28 <sup>th</sup> FEB TO	TUM	02	ON
				(M)	1 <sup>st</sup> MAR-18	DEVADA	03	WINNE
					$2^{nd}$ & $3^{rd}$	N CUP	02	RS
					MAR 2018	VTU(BCZ		WINNE
					$4^{th} TO 6^{th}$	)		RS
					MAR 2018	VTU(IZ)		RUNNE
					$7^{th} \& 8^{th}$	KREEDO		RS
					MAR 2018	STAV		WINNE
								RS
6	KARAN S	1NH17	II	KAB	13 <sup>th</sup> MARCH	VTU	01	PARTI
	KUMAR	ME040		ADDI	2018	HANDBA	02	CIPATI
				(M)	22 <sup>nd</sup> & 23 <sup>rd</sup>	LL	03	ON
					MAR 2018	BGS CUP	02	II
					2 <sup>nd</sup> TO 4 <sup>th</sup>	AZURA		RUNNE
					APR 2018	2018		R UP
					$17^{\text{th}} \& 18^{\text{th}}$	SAI LIO		RUNNE
					APR 2018			RS
								PARTI
								CIPATI
								ON
11	L	1NH17	II	BAD	2 <sup>nd</sup> TO 4 <sup>th</sup>	AZURA	03	RUNNE
	ANOOSH	ME725		MINT	APR 2018	2018		RS
				ON				
				(M)				

### Year-2017

Sl.	Name	USN	SE	EVE	DATE	TOUR	NO.	ACHIE
Ν			Μ	NT		NA	OF	VE
0						MENT	DAY	MENT
							S	S
1	NITESH	1NH13	VII	FOOT	27 <sup>th</sup> FEB TO 1 <sup>st</sup>	JNC	03	RUNNE
	SHARMA	ME092	Ι	BALL	MAR 2017			RS

2	KRISHNA	1NH13	VII	FOOT	27 <sup>th</sup> FEB TO 1 <sup>st</sup>	JNC	03	RUNNE
	SAROJ	ME729	Ι	BALL	MAR 2017			RS
3	SIDDARA	1NH13	VII	FOOT	27 <sup>th</sup> FEB TO 1 <sup>st</sup>	JNC	03	RUNNE
	TH	ME125	Ι	BALL	MAR 2017			RS
	KUMAR							
4	DAMODA	1NH13	VII	FOOT	27 <sup>th</sup> FEB TO 1 <sup>st</sup>	JNC	03	RUNNE
	R	ME097	Ι	BALL	MAR 2017			RS
5		1NU1/	VI	FOOT	27 <sup>th</sup> FEP TO 1 <sup>st</sup>	INC	03	DIINNE
5		ME016	V I		27 FED TO T MAP 2017	JINC	03	
		WILDIO		DALL	MAK 2017			КЭ
6		1NU1/	VI	FOOT	8 <sup>th</sup> TO 10 <sup>th</sup>	DD	03	DIINNE
0		11N1114 ME166	V I		8 10 10 A DD 2017	ΝŇ	03	
7	PAUDEL	111114	371	DALL	AFK 2017	חח	02	
/		INH14 ME152	VI		8 IU IU ADD 2017	KK	03	
0	SHAH	ME153	<b>X / T</b>	BALL	APR 2017	DD	02	KS
8	NISCHA	INHI4	VI	FOOT	8 <sup>th</sup> 10 10 <sup>th</sup>	KK	03	RUNNE
	BHATTAR	ME154		BALL	APR 2017			RS
0	Al	4377740	* * * * *		1st mo ard	GUEE	0.0	
9	*	INHI3	VII	VOL	1 <sup>st</sup> 10 3 <sup>tu</sup>	CUFE	03	WINNE
	AKSHAY	ME019	1	LEY	MAR 2017	BMSCE	04	R
	К			BALL	3 <sup>10</sup> TO 6 <sup>10</sup>	MIT	06	WINNE
	VERNEKA			(M)	MAR 2017	MANIP	01	R
	R				7th TO 12 <sup>th</sup>	AL	15	WINNE
					MAR 2017	NHCE(	06	R
	(SELECTE				25 <sup>th</sup> MAR	VTU)	02	WINNE
	D FOR				2017	KANTE	02	R
	VTU				9 <sup>th</sup> TO 23 <sup>rd</sup>	ERAVA	02	NANTI
	TEAM				APR 2017	PUDUC		ONAL
	AND				24 <sup>th</sup> TO 29 <sup>th</sup>	HERRY		CAMP
	REPRESEN				APR 2017	BMSIT(		PARTI
	TED				31 <sup>st</sup> MAR &	VTU)		CI
	KARNATA				1st APR 2017	SAI LIO		PATIO
	KA FOR				3 <sup>rd</sup> TO 4 <sup>th</sup>	MVJCE		Ν
	SENIOR				MAY 2017			RUNNE
	NATIONA				12 <sup>th</sup> TO 13 <sup>th</sup>			RS
	L				MAY 2017			3 <sup>rd</sup>

SELF ASSESSMENT REPORT	2019-20
SELF ASSESSMENT REFORT	2017-20

	CHAMPIO							PLAC
	NSHIP							Е
	2017.							WINNE
	BEST							R
	PLAYER							
	IN BMSCE							
	TOURNA							
	MENT)							
10	RAJAT	1NH12	VII	VOL	1 <sup>st</sup> TO 3 <sup>rd</sup>	CUFE	03	WINNE
	SHETTY	ME105	Ι	LEY	MAR 2017	BMSCE	04	R
				BALL	3 <sup>rd</sup> TO 6 <sup>th</sup>	MIT	06	WINNE
				(M)	MAR 2017	MANIP	01	R
					7th TO 12 <sup>th</sup>	AL	02	WINNE
					MAR 2017	NHCE(	02	R
					25 <sup>th</sup> MAR	VTU)	02	WINNE
					2017	BMSIT(		R
					31 <sup>st</sup> MAR &	VTU)		RUNNE
					1st APR 2017	SAI LIO		RS
					3 <sup>rd</sup> TO 4 <sup>th</sup>	MVJCE		3 <sup>rd</sup>
					MAY 2017			PLAC
					12 <sup>th</sup> TO 13 <sup>th</sup>			Е
					MAY 2017			WINNE
								R
11	RAHUL	1NH14	VI	VOL	1 <sup>st</sup> TO 3 <sup>rd</sup>	CUFE	03	WINNE
	MR	ME750		LEY	MAR 2017	BMSCE	04	R
				BALL	3 <sup>rd</sup> TO 6 <sup>th</sup>	MIT	06	WINNE
				(M)	MAR 2017	MANIP	01	R
					7th TO 12 <sup>th</sup>	AL	02	WINNE
					MAR 2017	NHCE(	02	R
					1225 <sup>th</sup> MAR	VTU)	02	WINNE
					2017	BMSIT(		R
					31 <sup>st</sup> MAR &	VTU)		RUNNE
					1st APR 2017	SAI LIO		RS
					3 <sup>rd</sup> TO 4 <sup>th</sup>	MVJCE		3 <sup>rd</sup>
					MAY 2017			PLAC
					12 <sup>th</sup> TO 13 <sup>th</sup>			E
					MAY 2017			WINNE

								R
13	DHANUSH	1NH13	VII	CRIC	4 <sup>th</sup> TO 5 <sup>th</sup>		02	WINNE
	KRISHNA	ME042	Ι	KET	MAY 2017	UVCE		R
14	AKSHYA	1NH15	VI	CRIC	4 <sup>th</sup> TO 5 <sup>th</sup>		02	WINNE
	KUMAR	ME401		KET	MAY 2017	UVCE		R
15	KIRAN M	1NH14	VI	CRIC	4 <sup>th</sup> TO 5 <sup>th</sup>		02	WINNE
	S	ME069		KET	MAY 2017	UVCE		R
16	GANGA	1NH14	VI	CRIC	4 <sup>th</sup> TO 5 <sup>th</sup>		02	WINNE
	SAGAR	ME041		KET	MAY 2017	UVCE		R
17	CHANDAN	1NH13	VII	BALL	10 <sup>th</sup> TO 11 <sup>th</sup>	RLJIT	02	PARTI
	Р	ME031	Ι	BADI	APR 2017			CI
				MINT		TOCE(	02	PATIO
				ON	12 <sup>th</sup> TO 13 <sup>th</sup>	VTU)	02	Ν
				KAB	APR 2017	SAI LIO		
				ADDI	3 <sup>rd</sup> TO 4 <sup>th</sup>			RUNNE
				(M)	MAY 2017			RS
								PARTI
								CI
								PATIO
								N
18	SUNNY	1NH14	VII	HAN	$2^{nd}$ TO $3^{rd}$	CUFE	02	PARTI
	SANTIAG	ME422	Ι	D	MARCH 2017	VET	02	CI
	0			BALL	16 <sup>th</sup> TO 17 <sup>th</sup>	BASA	01	PATIO
					MARCH 2017	WANG	02	Ν
					23 <sup>rd</sup> MARCH	UDI	02	PARTI
					2017	BMSCE		CI
					27 <sup>th</sup> TO 28 <sup>th</sup>	(VTU)		PATIO
					MARCH 2017	NCET(		N
					20 <sup>th</sup> TO 21 <sup>st</sup>	VTU)		PARTI
					APRIL 2017			CI
								PATIO
								Ν
								WINNE

								RS
								RUNNE
								RS
19	ANURAJ	1NH13	VII	HAN	23 <sup>rd</sup> MARCH		02	WINNE
	JOSHI	ME023	Ι	D	2017	BMSCE	02	RS
				BALL	27 <sup>th</sup> TO 28 <sup>th</sup>	(VTU)		RUNNE
					MARCH 2017	NCET(		RS
						VTU)		
20	AMITH	1NH13	VII	HAN	23 <sup>rd</sup> MARCH		02	WINNE
	SINGH	ME706	Ι	D	2017	BMSCE	02	RS
				BALL	27 <sup>th</sup> TO 28 <sup>th</sup>	(VTU)		RUNNE
					MARCH 2017	NCET(		RS
						VTU)		
21	JERRY	1NH13	VII	CROS	4 <sup>th</sup> TO 5 <sup>th</sup> APR	KIT	02	PARTI
	SABORE	ME058	Ι	S	2017			CI
				COU				PATIO
				NTR				Ν
				Y				
22	MADHU	1NH14	VII	KAB	12 <sup>th</sup> TO 13 <sup>th</sup>	TOCE(	02	RUNNE
	SUDHAN	ME410	Ι	ADDI	APR 2017	VTU)		R
	V			(M)				
23	UDAYA	1NH14	VI	KAB	12 <sup>th</sup> TO 13 <sup>th</sup>	TOCE(	02	RUNNE
	KIRAN	ME134		ADDI	APR 2017	VTU)		R
				(M)				
24	R MONISH	1NH14	VI	KAB	12 <sup>th</sup> TO 13 <sup>th</sup>	TOCE(	02	RUNNE
		ME095		ADDI	APR 2017	VTU)		R
				(M)				
25	RAHUL B	1NH14	VI	KAB	12 <sup>th</sup> TO 13 <sup>th</sup>	TOCE(	02	RUNNE
	Ν	ME177		ADDI	APR 2017	VTU)		R
				(M)				

S	Name	USN	SE	EVENT	DAT	TOURNA	NO.	ACHIE
l.			Μ		Ε	MENT	OF	VE
Ν							DA	MENT
0							YS	S
1	SAMVHRE	M TECH	III	KABADDI	$4^{\mathrm{TH}}$	PES-U	3	WINNE
	TH RAJ **			(M)	ТО	INFINI		R
	(selected for				$6^{\mathrm{TH}}$			
	VTU				SEP			
	kabaddi				2016			
	team and							
	participated							
	inter							
	university							
	kabbadi							
	tournament)							
2	CHANDAN	1NH13M	VII	KABADDI	$4^{\mathrm{TH}}$	PES-U	3	WINNE
	Р	E031		(M)	ТО	INFINI		R
					$6^{\mathrm{TH}}$			
					SEP			
					2016			
3	MADHUSU	1NH14M	VII	KABADDI	$4^{\mathrm{TH}}$	PES-U	3	WINNE
	DAN V	E410		(M)	TO	INFINI		R
					6 <sup>тн</sup>			
					SEP			
					2016			
4	R MONISH	1NH14M	V	KABADDI	4 <sup>'TH</sup>	PES-U	3	WINNE
		E095		(M)	TO	INFINI		R
					6 <sup>11H</sup>			
					SEP			
					2016			
5	SHARON K	1NH13M	VII	WRESTLI	20,21,	KLS	3	2
	ABRAHAM	E751		NG AND	22	,VDRIT		BRONZ
				JUDO	OCT	(HALIYAL)		E
					2016			MEDA
								L

Year-2016

6	NAVEEN	1NH14M	V	WRESTLI	20,21,	KLS	3	1
	SINGH	E748		NG AND	22	,VDRIT		SILVE
				JUDO	OCT	(HALIYAL)		R
					2016			MEDA
								L
7	ZAKI	1NH14M	V	WRESTLI	20,21,	KLS	3	1
	AAMIR	E148		NG AND	22	,VDRIT		SILVE
				JUDO	OCT	(HALIYAL)		R
					2016			
8	AKSHAYA	1NH15M	V	WRESTLI	20,21,	KLS	3	
	SANGARE	E402		NG AND	22	,VDRIT		1BRON
	DDY			JUDO	OCT	(HALIYAL)		ZE
					2016			MEDA
								L
9	HARISH H	1NH14M	V	WIGHT	11 &	VTU, IZ,	2	1
		E056		LFTING	12	GAT		BRONZ
					NOV			Е
					2016			MEDA
								L
1	RAHUL M	1NH14M	V	VOLLEYB	27 <sup>,</sup> 28	AIMSR	2	WINNE
0	R	E750		ALL (M)	SEP	RVCE	3	R
					2016			WINNE
					22,23,			R
					24			
					OCT			
					2016			
1	AKSHAY	1NH13M	VII	VOLLEYB	27 <sup>,</sup> 28	AIMSR	2	WINNE
1	VERNEKA	E019		ALL (M)	SEP	RVCE	3	R
	R				2016			WINNE
					22,23,			R
					24			
					OCT			
					2016			
1	RAJATH	1NH12M	VII	VOLLEYB	27 <sup>,</sup> 28	AIMSR	2	WINNE
2	SHETTY	E105		ALL (M)	SEP	RVCE	3	R
					2016			WINNE
					22,23,			R

					24			
					OCT			
					2016			
1	NITESH	1NH13M	VII	FOOTBAL	4,5,6	PESIT-	3	RUNN
3	SHARMA	E092		L	OCT	INFINI		ER-UP
					2016			
1	KRISHNA	1NH13M	VII	FOOTBAL	4,5,6	PESIT-	3	RUNN
4	SAROJ	E729		L	OCT	INFINI		ER-UP
					2016			
1	SIDDARTH	1NH13M	VII	FOOTBAL	4,5,6	PESIT-	3	RUNN
5	KUMAR	E175		L	OCT	INFINI		ER-UP
					2016			
1	ALWYN	1NH14M	V	FOOTBAL	4,5,6	PESIT-	3	RUNN
6	JAMES	E016		L	OCT	INFINI		ER-UP
	PAUL				2016			

Year -2015

Sl	Name	USN	SE	EVENT	DATE	TOURN	NO.	ACHIEV
•			Μ			AMENT	OF	Ε
Ν							DA	MENTS
0							YS	
1	VIKAS	1NH12M	VII	HAND	09 TO	CHRIST	03	WINNER
	YADAV	E758		BALL	11	UST		S
					SEPT			
					2015			
2	JERRY	1NH13M	V	SWIMMI	23 <sup>RD</sup>	VTU I C	01	PARTICI
	SABORE	E058		NG	SEPT	PES U	03	PATION
				BASKET	2015			RUNNER
				BALL	28 TO			S
					30			
					OCT			
					2015			
3	BOBBY	1NH12M	VII	BASKET	01 TO	ST.JOH	03	RUNNER
	SEBAN	E030		BALL	18	NS MC	03	S
	JOHN				OCT	CHRIST	03	RUNNER
					2015	UST		S
						RVCE		RUNNER

								S
4	AARON	1NH12M	VII	BASKET	01 TO	ST.JOH	03	RUNNER
	RALSTON	E001		BALL	18	NS MC	03	S
	COELHO				OCT	CHRIST	03	RUNNER
					2015	UST		S
						RVCE		RUNNER
								S
5	AMEENU	1NH12M	VII	BASKET	01 TO	ST.JOH	03	RUNNER
	DDIN	E709		BALL	18	NS MC	03	S
	KHAN				OCT	CHRIST	03	RUNNER
					2015	UST		S
						RVCE		RUNNER
								S
6	MUKESH	1NH13M	V	BASKET	01 TO	ST.JOH	03	RUNNER
	CHOYAL	E085		BALL	18	NS MC	03	S
					OCT	CHRIST	03	RUNNER
					2015	UST		S
						RVCE		RUNNER
								S
7	SUHAS	1NH14M	III	BASKET	01	ST.JOH	03	RUNNER
	BHARDW	E754		BALL	OCT	NS MC	03	S
	AJ				18	CHRIST	03	RUNNER
					OCT	UST		S
					2015	RVCE		RUNNER
								S
8	KASHYAP	1NH14M	III	BASKET	01 TO	ST.JOH	03	RUNNER
	M SHAH	E065		BALL	03	NS MC	03	S
					OCT	CHRIST	03	RUNNER
					2015	UST		S
					04 TO	RVCE		RUNNER
					06			S
					OCT			
					2015			
					16 TO			
					18			
					OCT			
					2015			

9	ABHISHE	1NH12M	VII	HAND	09 TO	CHRIST	03	WINNER
	K SINGH	E703		BALL	14	UST	02	S
	RANA			NETBAL	OCT	KLECT	03	PARTICI
				L	2015	CHIKK	06	PATION
				KABBA		ODI		WINNER
				DI		PES U		COACHI
						APSCE		NG
						(VTU)		CAMP
1	HARISH	1NH12M	VII	HAND	09 TO	CHRIST	03	WINNER
0	KUMAR	E047		BALL	30	UST	02	S
	YADAV			NETBAL	OCT	KLECT	03	PARTICI
				L	2015	CHIKK		PATION
				KABBA		ODI		WINNER
				DI		PES U		
1	KOWSHIK	1NH12M	VII	HAND	11	CHRIST	03	WINNER
1	ΚV	E059		BALL	SEPT	UST	02	S
				NETBAL	2015	KLECT		PARTICI
				L	ТО	CHIKK		PATION
					OCT	ODI		
					2015			
1	JHONSON	1NH12M	VII	HAND	09 TO	CHRIST	03	WINNER
2		E727		BALL	11	UST		S
					SEPT			
					2015			
1	SUMITH	1NH12M	VII	HAND	09 TO	CHRIST	03	WINNER
3		E151		BALL	11	UST		S
					SEPT			
					2015			
1	AMIT	1NH13M	V	HAND	09 TO	CHRIST	03	WINNER
4	SINGH	E706		BALL	30	UST	02	S
				NETBAL	OCT	KLECT	03	PARTICI
				L	2015	CHIKK		PATION
				KABBA		ODI		WINNER
				DI		PES U		
1	ANURAG	1NH13M	V	HAND	09 TO	CHRIST	03	WINNER
5	JOSHI	E023		BALL	11	UST		S
					SEPT			

					2015			
1	HARISH H	1NH14M	III	WRESTL	19 &	VTU IC	02	LOST IN
6		E056		ING	20	VTU IC	03	SEMI'S
				BEST	OCT			PARTICI
				PHYSIQ	TO 31			PATION
				UE	OCT			
					2015			
1	CHANDA	1NH13M	V	KABAD	27 TO	PES U	04	WINNER
7	N P	E031		DI	30			
					OCT			
					2015			
1	MADHU	1NH14M	V	KABAD	27 TO	PES U	04	WINNER
8	SUDHAN	E410		DI	30			
	V				OCT			
					2015			
1	SHARON	1NH13M	V	KABAD	27 TO	PES U	04	WINNER
9	Κ	E751		DI	30			
	ABRAHA				OCT			
	Μ				2015			
2	NAGESH	1NH13M	V	KABAD	27 TO	PES U	04	WINNER
0		E737		DI	30			
					OCT			
					2015			
2	SAMVHR	M TECH	Ι	KABAD	27 TO	PES U	04	WINNER
1	ETH RAJ			DI	30	APSCE	06	COACHIN
	**				OCT	(VTU)	05	G CAMP
	(selected				2015	KUVEM		INTER
	for VTU				09 TO	PU UST		UNIVERSI
	kabaddi				14	SHIMO		TY
	team and				OCT	GA (KA)		SOUTH
	participated				2015			ZONE
	inter				15 TO			TOURN
	university				19			AMENT
	kabbadi				OCT			
	tournament				2015			
	)							

# DEPARTMENT OF MECHANICAL ENGINEERING

# **CRITERION 5**

# FACULTY INFORMATION AND CONTRIBUTIONS

# **CRIETRIA – 5: Faculty Information and Contributions**

**Note:** Cumulative information for all the shifts for three assessment years in above format in Annexure II.

**Table 5.0.1 Faculty Information** 

SL. No	Name	PAN No.	University Degree	Date of Receiving Degree	Area of Specialization	Research Paper	Ph.D Guidance	Faculty receiving Ph.D	Current Designation	Date (Designated as Prof / Assoc. Prof.)	Initial Date of Joining	Association Type	At present working with the Institution (Yes / No)	Date of Leaving	IS HOD
1	D		ME/	01/07/	Mech	6	4	1	Durford	01/0	25/0	D .	V		NT
1	Dr. Moniunotho	AEL	MI. Taah	2010	Engin	0	4	1	Profes	01/0	25/0	Re	res		IN
	wanjunama	838P	and	2010	eering				501	0/20	0/20	gui			0
		0.501	PhD		cering					08	05	a			
	Dr.		ME/		Mech										1
2	Ganesha	AJK	M.	01/07/	anical	1	5	3	Profes	08/0	08/0	Re	Yes		Y
	Prasad M S	PM3	Tech	2011	Engin	2			sor	8/20	8/20	gul			es
		606	and		eering					11	11	ar			
		R	PhD												
	Dr.				Indust										
3	GopalaKris	AM	ME/	04/04/	rial	2	2		Profes	14/0	14/0	Re	Yes		N
	hnan	TPK	M.	2001	Engin	2			sor	2/20	2/20	gul			0
	Kanapathy	83/9	Tech		eering					09	09	ar			
		D													
	Dr		ME/		Mech										-
4	Viswanath	AG	M	05/07/	anical	1			Profes	23/0	23/0	Re	Yes		N
	Bellie	BPB	Tech	2010	Engin	0			sor	1/20	1/20	gul	105		0
		0240	and		eering					17	17	ar			
		J	PhD												
	Dr. Priyabrata		ME/		Rene										1
5	Adhikary	AG	M.	22/03/	wable	7			Profes	01/0	17/0	Re	Yes		N
		VPA	Tech	2018	Energ				sor	8/20	7/20	gul			0
		3504	and		у &					18	17	ar			
		G	PhD		Turbo										
					machi										
					ne,										

	Dr.Vasanth		ME/		Lean							
6	a Kumar	AFG	M.	03/07/	Manuf		Profes	01/0	26/0	Re	Yes	N
		PV6	Tech	2017	acturin		sor	8/20	7/20	gul		0
		836	and		g			19	17	ar		
		С	PhD									
	Dr. Amit		ME/		Mecha		Assoc					
7	Kumar	AM	M.	31/07/	nical		iate	01/0	14/0	Re	Yes	N
	Goudar	RPG	Tech	2019	Engine		Profes	8/20	8/20	gul		0
		5143	and		ering		sor	18	06	ar		
		Κ	PhD									
			ME/		Mech		Assoc					
8	Dr. Nagendra	AJM	M.	06/05/	anical	6	iate	01/0	25/0	Re	Yes	N
	J	PJ87	Tech	2019	Engin		Profes	8/20	7/20	gul		0
		49E	and		eering		sor	19	11	ar		
			PhD									
			ME/		Mech		Assoc					
9	Dr. Srinath M	CE	M.	04/05/	anical	4	iate	01/0	25/0	Re	Yes	
	K	MPS	Tech	2019	Engin		Profes	8/20	7/20	gul		
		7308	and		eering		sor	19	11	ar		
		D	PhD									
			ME/		Mech		Assoc					
10	Dr.	ATC	M.	01/07/	anical	3	iate	01/0	31/0	Re	Yes	N
	Manjunatha	PM7	Tech	2019	Engin		Profes	8/20	7/20	gul		0
	G	861	and		eering		sor	19	17	ar		
		L	PhD									
			ME/		Altern	1	Assoc					
11	Dr. Ashok	BFK	M.	15/04/	atie	0	iate	28/0	28/0	Re	Yes	N
	Kumar	PK7	Tech	2019	fuels		Profes	8/20	8/20	gul		0
		719	and		and		sor	18	18	ar		
		Н	PhD		greenh							
					ouse							
					gas							
	Dr. Sujin	CPL	ME/		Engg.		Assoc					
12	Jose	PS5	M.	19/03/	Materi	5	iate	27/0	27/0	Re	Yes	N
		622	Tech	2018	als		Profes	8/20	8/20	gul		0
		Е	and				sor	18	18	ar		
			PhD									
					I.C.en							
			ME/		gines,		Assoc					N
13	Dr. Gopal K	BES	M.	28/07/	Comb	9	iate	20/0	20/0	Re	Yes	0
	1	PG1	Tech	2018	ustion		Profes	8/20	8/20	gul		
		902	and				sor	18	18	ar		
		A	PhD									
			l	1	1		1	l	1		I	1

			ME/		Materi		Assoc					
14	Dr.Venugopa	AA	M.	06/05/	als		iate	16/0	16/0	Re	Yes	N
	1 S	DPV	Tech	2019	scienc		Profes	7/20	7/20	gul		0
		3241	and		e &		sor	18	18	ar		
		Р	PhD		Engg							
			ME/		Mecha		Assoc					
15	Dr.Selvam M	AMJ	M.	04/06/	nical		iate	16/0	16/0	Re	Yes	N
		PS9	Tech	2018	Engine		Profes	7/20	7/20	gul		0
		899	and		ering		sor	18	18	ar		
		Q	PhD									
			ME/		Mech		Assoc					
16	Dr.Hemanth	BAC	M.	19/07/	anical	2	iate	01/0	26/0	Re	Yes	N
	Raju	PR0	Tech	2019	Engin		Profes	8/20	7/20	gul		0
		693F	and		eering		sor	19	10	ar		
			PhD									
	Raghu Tilak				Comp	4						
17	Reddy	AOE	M.E/	01/05/	uter		Assist		26/0	Re	Yes	N
	Maramreddy	PM9	M.T	2015	Integr		ant		7/20	gul		0
		076J	ech		ated		Profes		10	ar		
					Manuf		sor					
					acturi							
					ng							
					Therm		Assist					
18	Manjesh B C	AV	M.E/	01/06/	al	4	ant		16/0	Re	Yes	N
		AP	M.T	2015	power		Profes		8/20	gul		0
		M90	ech		Engin		sor		10	ar		
		44R			eering							
							Assist					
19	Shivaprakash	CBV	M.E/	07/06/	Tool	6	ant		25/0	Re	Yes	N
	S	PS8	M.T	2010	Engin		Profes		7/20	gul		0
		802	ech		eering		sor		11	ar		
		С										
					Therm		Assist					
20	Ravikumar	BOI	M.E/	06/07/	al	5	ant		25/0	Re	Yes	N
	M.	PM6	M.T	2009	Scienc		Profes		7/20	gul		0
		416	ech		es		sor		11	ar		
		H										
	Hanamant	AD			Machi		Assist			_		N
21	Yaragudri	APY	M.E/	06/06/	ne	5	ant		25/0	Re	Yes	0
		4102	M.T	2011	Desig		Profes		7/20	gul		
		G	ech		n		sor		12	ar		
	Nagabhushan						Assist					

22	a Narasappa	AGJ	M.E/	02/06/	Manuf	9	ant	25/0	Re	Yes		N
		PN7	M.T	2008	acturi		Profes	7/20	gul			0
		478	ech		ng		sor	12	ar			
		A										
					Therm		Assist					
23	Sudarshan T	BG	M.E/	02/07/	al	8	ant	25/0	Re	Yes		N
	A	NPA	M.T	2012	Scienc		Profes	7/20	gul			0
		1241	ech		e and		sor	12	ar			
		D			Engin							
					eering							
24							Assist					
	Veeresha G	AOS	M.E/	04/07/	Machi	8	ant	25/0	Re	Yes		N
		PV9	M.T	2011	ne		Profes	7/20	gul			0
		206P	ech		design		sor	12	ar			
<u> </u>							Assist					
25	Chetan	AHP	M.E/	01/07/	Machi	6	ant	24/0	Re	Yes		N
	Kumar D S	PC4	M.T	2013	ne		Profes	7/20	gul			0
		423	ech		design		sor	13	ar			
		K			0							
26	Santhosh A N	BUP	M.E/	01/06/	Tool	3	Assist	25/0	Re	Yes		N
		PS0	M.T	2010	Engin		ant	7/20	gul			0
		336	ech		eering		Profes	16	ar			
		D					sor					
					Comp		Assist					
27	Bopanna . K.	AO	M.E/	04/07/	uter	5	ant	25/0	Re	Yes		N
 	D	RPB	M.T	2011	Integra		Profes	7/20	gul			0
		9187	ech		ted		sor	12	ar			
		G			Manuf							
					acturin							
					g							
					Tool		Assist					
28	Puneeth H V	CAE	M.E/	05/12/	Engin	6	ant	25/0	Re	Yes		N
		PP2	M.T	2011	eering		Profes	7/20	gul			0
		669	ech				sor	12	ar			
		A										
					Aeron		Assist					
29	Rajesh A	ASU	M.E/	02/07/	autical	5	ant	24/0	Re	Yes		N
		PA2	M.T	2012	engine		Profes	7/20	gul			0
		633F	ech		ering		sor	13	ar			
					Comp	3	Assist				1	
					· ·							

30	Sujeeth	DH	M.E/	02/06/	uter		ant	21/0	Re	Yes	N
	Swami	UPS	M.T	2014	Integr		Profes	7/20	gul		0
		8030	ech		ated		sor	14	ar		
		J			Manuf						
					acturi						
					ng						
					Therm		Assist				
31	Ronald	AW	M.E/	02/06/	al	5	ant	21/0	Re	Yes	N
	Reagon R	APR	M.T	2014	Power		Profes	7/20	gul		0
		8559	ech		Engg		sor	14	ar		
		D						 			
					Manuf		Assist				
32	Madhusudan	BNS	M.E/	03/06/	acturi	6	ant	21/0	Re	Yes	N
	K	PK5	M.T	2013	ng		Profes	7/20	gul		0
		794F	ech		Scienc		sor	14	ar		
					e &						
					Engin						
					eering						
							Assist		_		
33	Kemparaju C	DPF	M.E/	03/06/	Therm	5	ant	21/0	Re	Yes	N
	R	PK6	M.T	2013	al		Profes	7/20	gul		0
		119	ech		Power		sor	14	ar		
	D	M			Engg		 <b>A</b> • 4				
24	Pavan	DDE		02/06/	Machi	7	Assist	20/0	Da	Vaa	NT
34	Prabhakar	DPF		03/06/	ne Decia		ant	20/0	Re aul	res	IN
	Kadole	PK0	IVI. I	2015	Desig		Profes	1/20	gui		0
		000 D	ecn		n		sor	15	ar		
		D			Advon		 Acciet				
35	Karthik S N	קלם	ME	03/06/	Auvan	5	Assist	25/0	Po	Vac	N
55	Karunk S N	DZR PS0	M T	2013	Materi	5	Profes	23/0	ml	105	
		884	ech	2015	al		sor	16	ar		
		M			Techn		301	10	a		
					ology						
		CAL			~DJ	$\square$	Assist				
36	Megha	PS6	M.E/	06/06/	Machi	4	ant	25/0	Re	Yes	N
	Shukla	053	M.T	2016	ne		Profes	7/20	gul		0
		A	ech		design		sor	16	ar		
		BJN			Therm		Assist				
37	Kamalasish	PD6	M.E/	04/06/	al	2	ant	17/0	Re	Yes	N
	Deb	027	M.T	2012	Engin		Profes	7/20	gul		0
		K	ech		eering		sor	13	ar		

					Materi		Assist				
38	Vinod Kumar	BSJ	M.E/	06/06/	als	6	ant	23/	0 Re	Yes	N
	GS	PK9	M.T	2011	scienc		Profes	1/2	0 gul		0
		994	ech		e &		sor	17	ar		
		D			Engg						
	Vinayak				Prouct		Assist				
39	Prakash	AYT	M.E/	06/06/	design	5	ant	23/	0 Re	Yes	N
	Balehittal	PB4	M.T	2016	and		Profes	1/2	0 gul		0
		463	ech		manuf		sor	17	ar		
		Н			actuirn						
					g						
					Aeron		Assist				
40	Deepthi K.R.	BTX	M.E/	02/06/	autical		ant	21/	'0  Re	Yes	N
		PD7	M.T	2014	engine		Profes	7/2	0 gul		0
		641	ech		ering		sor	14	ar		
		Η									
	Lakshminara						Assist				
41	simha N	AQZ	M.E/	01/06/	Therm	4	ant	26/	'0 Re	Yes	N
		PN6	M.T	2015	al		Profes	7/2	0 gul		0
		299F	ech		engine		sor	17	ar		
					ering						
			ME/				Assist				
42	Dr.Aditi Raj	BOP	M.	01/06/	Mech	2	ant	29/	'0  Re	Yes	N
		PR9	Tech	2019	anical		Profes	7/2	0 gul		0
		397	and				sor	19	ar		
		Η	PhD								
					Comp		Assist				
43	Nithin	AO	M.E/	05/06/	uter		ant	16/	0 Re	Yes	N
		GPN	M.T	2017	Integra		Profes	7/2	0 gul		0
		0676	ech		ted		sor	18	ar		
		R			Manuf						
					acturin						
					g					ļ	
		AJA					Assista				
44	Naresh K S	PN0	M.E/	03/06/	Machi	6	nt	17/	0 Re	Yes	N
		856	M.T	2013	ne		Profes	7/2	0 gul		0
		G	ech		design		 sor	13	ar	ļ	
							Assista				
45	Vinay D R	AHE	M.E/	20/05/	Desig	5	nt		0 Re	Yes	N
		PV4	M.T	2013	n E		Profes	8/2	0 gul		0
		106	ech		Engin		sor	17	ar		
		H			eering						

	Dr. Prabhakar	AD	ME/									
46	Kammar	KPK	M.	11/03/	Materi	Profes	01/0	14/0	Re	No	04/	N
		6923	Tech	2013	al	sor	8/20	2/20	gul		05/	0
		В	and		Scienc		14	09	ar		201	
			PhD		e						9	
	Yashad	ADJ			Maint	Associ						
47	Kumar	PG9	M.E/	02/07/	ananc	ate	25/0	25/0	Re	No	04/	N
	Gaur	072	M.T	1984	e	Profes	7/20	7/20	gul		05/	0
		C	ech		Engg	sor	16	16	ar		201	
											9	
		AM	ME/		Aeros	Profes						
48	Dr. Pradeep	DPS	M.	09/05/	pace	sor	24/0	24/0	Re	No	26/	N
	K S	2879	Tech	2011	Engg.		7/20	7/20	gul		05/	0
		J	and				13	13	ar		201	
			PhD								8	
	Dr. B.		ME/		Operat	Assoc						
49	VittaladasaPr	AF	M.	07/01/	ions &	iate	15/0	15/0	Re	No	26/	N
	abhu	MPP	Tech	2014	Supply	Profes	6/20	6/20	gul		05/	0
		6459	and		Chain	sor	16	16	ar		201	
		F	PhD		Manag						8	
					ement							
	D 11 11 1	AM	ME/		Materi	Assoc	<b>a</b> a /a	<b>a</b> a /a	-			
50	Dr.Vadivel	TPV	M.	06/05/	als	iate	28/0	28/0	Re	No	26/	N
		8095	Tech	2013	Engine	Profes	1/20	1/20	gul		05/	0
		K	and		ering	sor	15	15	ar		201	
	<b>D</b>		PhD								8	
51	Dr.		ME/	21/02/	Mech	Assoc	20/0	20/0	п.	NT-		NT
51	Krisnnarao D		M.	21/02/		late	28/0	28/0	Ke	INO	20/	IN
	Dnuri	PD0	recn	2007	Engin	Profes	1/20	1/20	gui		05/	0
		140	DhD		eering	SOI	15	15	ai		201	
	Dr. Prabhu	Λ	ME/		Mech						0	
52	Kumar G P	ΔН	M	18/03/	anical	Profes	20/0	20/0	Re	No	21/	N
52	Kullar 0.1		Tech	1985	Engin	sor	5/20	5/20	oul	140	$\frac{21}{12}$	
		7667	and	1705	eering	501	16	16	ar		$\frac{12}{201}$	
		B	PhD		cering		10	10	a		8	
					Therm	Assist						
53	Lakshmana	AX	M.E/	02/06/	al	ant		28/0	Re	No	26/	N
	Naik	UPN	M.T	2014	Engin	Profes		7/20	gul	0	05/	0
		8829	ech		eering	sor		16	ar		201	
		P			8						8	
				I		I						

#### 5.1 Student-Faculty Ratio (SFR)

S: F ratio = N/F; F = No. of faculty = (a + b - c) for every assessment year

a: Total number of full-time regular Faculty serving fully to 2nd, 3rd and 4th year of the this program

b: Total number of full-time equivalent regular Faculty (considering fractional load) serving this program from other Program(s)c: Total number of full time equivalent regular Faculty (considering fractional load) of this program serving other program(s)

#### **Regular Faculty means:**

Full time on roll with prescribed pay scale. An employee on contract for a period of not less than two years AND drawing consolidated salary not less than applicable gross salary shall only be counted as a regular employee.

Prescribed pay scales means pay scales notified by the Regulatory Authority/ Central Government and implementation as prescribed by the Central/State Government as the case may be. In case State Government prescribes lesser consolidated salary for a particular cadre then same will be considered as reference while counting faculty as a regular faculty.

**N**=No. of students= 3x where x is (approved intake + 20% lateral entry intake+ separate division, if any)

Marks to be given proportionally from a maximum of 20 to a minimum of 10 for average SFR between 15:1 to 20:1, and zero for average SFR higher than 20:1.

#### UG

Bachelor of Engineering (BE)						
Bachelor of I	Engine	ering (BE)				
	CAY		CAYm1		CAYm2	
	(2019-2	20)	(2018-19)		(2017-18)	
Year of Study	Sanct ion Intak e	Actual admitted through lateral entry students	Sanction Intake	Actual admitted through lateral entry students	Sanction Intake	Actual admitted through lateral entry students
2nd Year	180	17	180	34	180	36
3rd Year	180	34	180	36	180	36
4th Year	180	36	180	36	180	36
Sub-Total	540	87	540	106	540	108
Total	627	1	646	1	648	
Grand	Total	627	646		648	

# Table5 1 1 No. of UG Programs in the Department

### PG

# Table5.1.2 No. of PG Programs in the Department

Master of Tech Machine Desig	nology in n		
	CAY(2019-20)	CAYm1(2018-19)	CAYm2 (2017-18)
Year of Study	Sanction Intake	Sanction Intake	Sanction Intake
1st Year	18	18	18
2nd Year	18	18	18
Total	36	36	36
Grand Total	36	36	36

#### SRF

#### No. of UG Programs in the Department: 01 No. of PG Programs in the Department: 01

Description	CAY(2019-20)	CAYm1 (2018-19)	CAYm2
			(2017-18)
Total No. of	663	682	684
Students in the			Sum
Department(S)	Sum total of all	Sum total of all	total
	(UG+PG) students	(UG+PG)	of all
		students	(UG+
			PG)
			studen
			ts
No. of Faculty in	45 <b>F1</b>	46 <b>F2</b>	46 <b>F3</b>
the Department(F)			
Student Faculty	14.73 SFR1=S1/F1	14.87 SFR2=S2/F2	14.83
Ratio(SFR)			SFR3=S3/F3
Average SFR	14.81 SFR	=(SFR1+SFR2+SFR3)/3	·
F=Total Number o	f Faculty Members in tl	ne Department (excluding	first year
faculty)			

#### Table 5.1.3 Programs in the Department

**Note:** 75% should be Regular/full time faculty and the remaining shall be Contractual Faculty/Adjust Faculty

/Resource persons from industry as per AICTE norms and standards. The contractual faculty will be considered

for assessment only if a faculty is drawing a salary as prescribed by the concerened State Government for the

contractual faculty in the respective cadre.

5.1.	1.1	Information	about the	regular and	contractual faculty.
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	Total number of regular faculty in the	Total number of contractual faculty in the department
	department	
CAY(2019-20)	45	0
CAYm1(2018-19)	46	0
CAYm2(2017-18)	46	0

Average SFR for three assessment years : 14.81

#### Assessment SFR: 20

		Qua	alificati	on			Je				
<sup>T</sup> SI.No	Dr. Mame of the Faculty Member	년 Degree (highest	A University	0105 Attaining	Per man ent	Designation Professor & Princi pal	20 55 Date of Joining the 90 - 90 - 90 - 90 - 90 - 90 - 90 - 90	Department	Decialization Lean Manufa cturing	K Currently Associated (Y/N)	Nature of Association
2	Dr. Ganesh Prasad M S	PhD	VTU	2011	Per man ent	Profes sor & Dean	08-08- 2011	ME	Mecha nical Engine ering Science	Y	Regular
3	Dr. GopalaKris hnan Kanapathy	PhD		2001	Per man ent	Profes sor & Dean R&D	14-02- 2009	ME	Industri al Engine ering	Y	Regular
4	Dr. Viswanath Bellie	PhD	Anna UV	2010	Per man ent	Profes sor	23-01- 2017	ME	Mecha nical Science s	Y	Regular
5	Dr. Priyabrata Adhikary	PhD	Jadhav apur UV	22-03- 2018	Per man ent	Profes sor	17-07- 2017	ME	Renew able Energy & Turbo machin e,	Y	Regular
6	Dr.Vasanth a Kumar	PhD	NIT- Thiruc hinapa Ili	2017	Per man ent	Profes sor	26-07- 2017	ME	Lean Manufa cturing	Y	Regular
7	Dr. Amit Kumar Goudar	PhD	VTU	2020	Per man ent	Associ ate Prof.	14.08. 06	ME	Mecha nical	Y	Regular

### Table 5.1.1.2 Faculty Information regular and contractual Academic Year 2019-2020

8	Dr. Srinath	PhD	VTU	2019	Per	Associ	25-07-	ME	surface	Y	Regular
	M K				man	ate	2011		enginee		
					ent	Profes			ring		
						sor					
0	D.			20.10	D	<b>A</b>	05.07	ME	N <b>f</b> 1	V	D1
9	Dr. Na andra I	PnD	VIU	30-10- 10	Per	ASSOC1	25-07-	ME		Y	Regular
	Nagendra J			19	man	ate	2011				
					ent	Profes			Engine		
						sor			ering		
									Science		
10	Dr.	PhD	VTU	2019	Per	Associ	31-07-	ME	Nanoco	Y	Regular
	Manjunatha				man	ate	2017		mposit		
	G				ent	Profes			es,Man		
						sor			ufacturi		
									ng		
									Science		
									&		
									Engine		
									ering		
1.1	D 4 1 1		UT.	2010	D	۰ .	07.00		A 1.	<b>N</b> 7	D 1
11	Dr. Ashok	PnD	111- D.11.:	2019	Per	Assoc1	27-08-	ME	Alterna	Y	Regular
	Kumar		Deini		man	ate	2018		tive		
					ent	Profes					
						sor			anu		
									greenn		
									ouse		
									gas		
12	Dr. Sujin	PhD	Anna	2018	Per	Associ	27-08-	ME	Engg.	Y	Regular
	Jose		UV		man	ate	2018		Materia		
					ent	Profes			ls		
						sor					
13	Dr. Gonal	Dh	Anna	28 00 2	Dor	Associ	10_08	ME	I C ang	v	Regular
13	K	и II. D	malai	20.09.2 018	n Cl	ate	2018	1112	ines	1	regulai
	12		1114141	010	ent	Profes	2010		Combu		
					ent	ror			combu		
						501			suoli,		
14	Dr.Venugo	PhD		2019	Per	Associ	16-07-	ME	Materia	Y	Regular
	pal S				man	ate	2018		ls		
					ent	Profes			science		
						sor			&		
									Engg		

Mmalaimanate ent2018nical Enginemical Engine16Dr.Hemant A ajuPhDVTU2019Per ManAssoci26-07- MEMEDesign Engine eringYRegular17Raghu Tilak Reddy Maramredd yME01-05- 2005Per man AssistSr26-07- 2010MECompu Y terRegular18Manjesh B MM.TVTU2015Per ent ant profesSr.16-08- sorMETherma Y Integrat ed ManufaRegular19Shivapraka M.SM.TVTU PU2010Per ent ant profesSr.16-08- sorMETherma Y Integrat ed ManufaRegular19Shivapraka M.SM.TVTU PU2010Per PerSr.25-07- man AssistME Engine eringTool Fingine eringYRegular20Ravikumar M.ME Pore D)Bagal 2009Per Man ProfesSr.25-07- SorME ProfesTool Science sYRegular21Hanamant M.TVTU Pore D)2011Per PerSr.25-07- Per Sr.ME ProfesTool Science sYRegular21Hanamant M.TVTU Pore Pore Sr2012Per ProfesSr.25-07- ScienceME ProfesRegular21Hanamant Profes SorM.TVTU Pore Profes	15	Dr.Selvam	PhD	Anna	2018	Per	Associ	16-07-	ME	Mecha	Y	Regular
16       Dr.Hemant       PhD       VTU       2019       Per       Associ       26-07-       ME       Design       Y       Regular         16       Dr.Hemant       PhD       VTU       2019       Per       Associ       26-07-       ME       Design       Y       Regular         17       Raghu       ME       01-05-       Per       Sr.       26-07-       ME       Compu       Y       Regular         17       Raghu       ME       01-05-       Per       Sr.       26-07-       ME       Compu       Y       Regular         18       Manjesh B       M.T       VTU       2015       Per       Sr.       16-08-       ME       ThermaY       Regular         19       Shivapraka       M.T       VTU       2010       Per       Sr.       25-07-       ME       Tool       Y       Regular         19       Shivapraka       M.T       VTU       2010       Per       Sr.       25-07-       ME       Engine       ering       Profes       sor       Sor       2011       Engine       ering       Regular         19       Shivapraka       M.T       VTU       2010       Per       Sr.		Μ		malai		man	ate	2018		nical		
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16       Dr.Hemant h Raju       PhD       VTU       2019       Per man ate ent       Associ       26-07-       ME       Design Engine ering       Y       Regular         17       Raghu Tilak Reddy Maramredd y       ME       01-05- 2005       Per man Assist       2010       Ter ering       Compu Y       Regular         18       Manjesh B       M.T       VTU       2015       Per ech       Sr.       16-08-       ME       Therma Y       Regular         18       Manjesh B       M.T       VTU       2015       Per ech       Sr.       16-08-       ME       Therma Y       Regular         19       Shivapraka       M.T       VTU       2010       Per       Sr.       16-08-       ME       Therma Y       Regular         19       Shivapraka       M.T       VTU       2010       Per       Sr.       25-07-       ME       Tool Engine ering       Poole       Per sor       Science sor       Profes       Science       Science<							sor			ering		
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20RavikumarMEBangal 2009PerSr. man25-07-METherma YRegular20RavikumarMEBangal 2009PerSr. man25-07-METherma YRegular20N.D)UVentant Profes sorProfesScienceScience21HanamantM.TVTU2011PerSr. man25-07-MEmachin designY21HanamantM.TVTU2011PerSr. profes sor25-07-MEmachin designY22NagabhushM.TVTU2008PerSr. man25-07-MEManufa YRegular22NagabhushM.TVTU2008PerSr. man25-07-MEManufa YRegular21Narasappa(Phech, manmanAssist profes2012eManufa YRegular			(				Profes			8		
20RavikumarMEBangal 2009 (PhPer ore D)Sr. man25-07- AssistMETherma Y I D11Regular21Hanamant YaragudriM.TVTU2011 VTUPer ant Profes sorSr. sor25-07- Amater Science SorMETherma Y I I Science sRegular21Hanamant YaragudriM.T echVTU2011 PerPer Sr. sorSr. 25-07- 25-07- MEmachin Y e e designRegular21Hanamant YaragudriM.T echVTU2011 PerPer Sr. sorSr. 25-07- Profes sorME E MEmachin Y e e designRegular22Nagabhush NarasappaM.T PhVTU2008 Per Sr. ent ant ProfesSr. Profes25-07- ProfesME e e e designManufa Y cturingRegular							sor					
20       Ravikumar       ME       Bangal 2009       Per       Sr.       25-07-       ME       ThermaY       Regular         M.       (Ph       ore       man       Assist       2011       I       Science       Science         D)       UV       ent       ant       Profes       sor       Science       s         21       Hanamant       M.T       VTU       2011       Per       Sr.       25-07-       ME       machin Y       Regular         Yaragudri       ech       VTU       2011       Per       Sr.       25-07-       ME       machin Y       Regular         ant       Profes       sor       2012       e       e       design       Regular         22       Nagabhush       M.T       VTU       2008       Per       Sr.       25-07-       ME       ManufaY       Regular         ana       ech,       Narasappa       (Ph       Profes       Sor       2012       E       ManufaY       Regular												
M.(Ph ore D)man Assist ent ant Profes sor2011I Science s21Hanamant M.T Yaragudri echM.T VTU2011Per Per Sr. ant Profes sorSr. 25-07- ME ent ant Profes sor25-07- ME e designMachin Y Regular e design22Nagabhush ana ech, NarasappaM.T VTUVTU 2008Per Per Sr. er sorSr. 25-07- ME ent ant Profes 2012Manufa Y Regular	20	Ravikumar	ME	Bangal	2009	Per	Sr.	25-07-	ME	Therma	Y	Regular
D)UVentantScienceProfes sorSorProfes sSorScience21Hanamant YaragudriM.TVTU2011Per man AssistSr.25-07- 2012ME e designmachin Y e designRegular21Hanamant YaragudriM.TVTU2011 Profes sorPer Sr.Sr.25-07- 25-07-ME e designmachin Y Profes sorRegular22Nagabhush ana ech, NarasappaM.T VTU2008 Per ent ant ProfesPer Sr.Sr.25-07- 25-07-ME Manufa Y cturingRegular		M.	(Ph	ore		man	Assist	2011				
21Hanamant YaragudriM.T VTU ech2011Per Sr. man Assist25-07- 2012ME e e e e emachin Y e e e eRegular21Hanamant YaragudriM.T VTU e e e2011Per man Assist profes sor25-07- e eME e e e e designmachin Y e e e eRegular22Nagabhush ana ech, NarasappaM.T VTU Ph2008 e e ent ant profesPer Sr. 25-07- 25-07- ME ent ant ProfesManufa Y e cturingRegular			D)	UV		ent	ant			Science		
21HanamantM.TVTU2011PerSr.25-07-MEmachinYRegularYaragudriechechantAssist2012edesigndesignRegular22NagabhushM.TVTU2008PerSr.25-07-MEManufaYRegular22NagabhushM.TVTU2008PerSr.25-07-MEManufaYRegularanaech,manAssist2012cturingentantProfesProfes2012cturingRegularNarasappa(PhentantProfesantProfes							Profes			S		
21HanamantM.TVTU2011PerSr.25-07-MEmachinYRegularYaragudriechmanAssist2012eedesigndesigndesign21HanamantM.TVTU2008PerSr.25-07-MEManufaYRegular22NagabhushM.TVTU2008PerSr.25-07-MEManufaYRegular22NagabhushM.TVTU2008PerSr.25-07-MEManufaYRegularanaech,manAssist2012cturingentantProfes2012cturingRegular							sor					
YaragudriechmanAssist2012e design22NagabhushM.TVTU2008PerSr.25-07-MEManufa Y cturingRegular21Narasappa(Phech, Profesentant Profes2012CturingRegular	21	Hanamant	M.T	VTU	2011	Per	Sr.	25-07-	ME	machin	Y	Regular
22NagabhushM.TVTU2008Per manSr.25-07-MEManufa cturingRegularanaech, Narasappaentant profesentant profesPorfe		Yaragudri	ech			man	Assist	2012		e		
22NagabhushM.TVTU2008PerSr.25-07-MEManufa YRegularanaech,manAssist2012cturingentantNarasappa(PhentantProfesProfesfor the second						ent	ant			design		
22NagabhushM.TVTU2008PerSr.25-07-MEManufa YRegularanaech,manAssist2012cturingNarasappa(PhentantProfesProfes							Profes					
22NagabhushM.TVTU2008PerSr.25-07-MEManufa YRegularanaech,manAssist2012cturingNarasappa(PhentantProfesImage: Comparison of the second s							sor					
anaech,man Assist2012cturingNarasappa(PhentantProfes	2.2	Nagabhush	МТ	VTU	2008	Per	Sr	25-07-	ME	Manufa	Y	Regular
Narasappa (Ph ent ant Profes		ana	ech.			man	Assist	2012		cturing	-	- toguiui
Profes		Narasappa	(Ph			ent	ant			6		
							Profes					

		D)				sor					
23	Sudarshan T A	M.T ech, (Ph. D)	Bangal ore UV	2012	Per man ent	Sr. Assist ant Profes sor	25-07- 2012	ME	Therma l Science and Engine ering	Y	Regular
24	Veeresha G	M.T ech, (Ph. D)	VTU	2011	Per man ent	Sr. Assist ant Profes sor	25-07- 2012	ME	Machin e design	Y	Regular
25	Chetan Kumar D S	M.T ech (Ph. D)	VTU	2013	Per man ent	Sr. Assist ant Profes sor	24-07- 2013	ME	Machin e design	Y	Regular
26	Santhosh A N	M.T ech, (Ph. D)	VTU	2010	Per man ent	Sr. Assist ant Profes sor	25-07- 2016	ME	Tool Engine ering	Y	Regular
27	Bopanna . K. D	M.T ech, (Ph. D)	VTU	2011	Per man ent	Assist ant Profes sor (2)	25-07- 2012	ME	Compu ter Integrat ed Manufa cturing	Y	Regular
28	Puneeth H V	M.T ech, (Ph. D)	VTU	2011	Per man ent	Assist ant Profes sor (2)	25-07- 2012	ME	Tool Engine ering	Y	Regular
29	Rajesh A	M Tec h	VTU	2012	Per man ent	Assist ant Profes sor (2)	24-07- 2013	ME	Aerona utical enginee ring	Y	Regular
30	Sujeeth	M.T	VTU	2014	Per	Assist	21-07-	ME	Compu	Y	Regular

31	Swami Ronald Reagon R	ech Mte ch	SSAH E- Tumak uru	2014	man ent Per man ent	ant Profes sor (2) Assist ant Profes sor (2)	2014 21-07- 2014	ME	ter Integrat ed Manufa cturing Therma I Power Engg	Y	Regular
32	Madhusuda n K	M.T ech	VTU	2013	Per man ent	Assist ant Profes sor (2)	21-07- 2014	ME	Manufa cturing Science & Engine ering	Y	Regular
33	Kemparaju C R	M.T ech	SSAH E- Tumak uru	2013	Per man ent	Assist ant Profes sor (2)	21-07- 2014	ME	Therma l Power Engg	Y	Regular
34	Pavan Prabhakar Kadole	M.T ech	VTU	2013	Per man ent	Assist ant Profes sor (2)	20-07- 2015	ME	Machin e Design	Y	Regular
35	Karthik S N	M.E (Ph. D)	Bangal ore UV	2013	Per man ent	Assist ant Profes sor (2)	25-07- 2016	ME	Advanc ed Materia l Techno logy	Υ	Regular
36	Megha Shukla	M.T ech	VTU	2016	Per man ent	Assist ant Profes sor (2)	25-07- 2016	ME	Machin e design	Y	Regular
37	Kamalasish Deb	M.T ech	NITS- Silchar	2012	Per man ent	Assist ant Profes sor (2)	17-07- 2013	ME	Therma l Engine ering	Y	Regular

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38	Vinod	M.T	NIT-	2011	Per	Assist	23-01-	ME	Materia	Y	Regular
	Kumar G S	ech,	Trichy		man	ant	2017		ls		-
		(Ph.			ent	Profes			science		
		D)				sor (2)			&		
									Engg		
39	Vinavak	M.T	VTU	2016	Per	Assist	23-01-	ME	Prouct	Y	Regular
	Prakash	ech			man	ant	2017		design		
	Balehittal				ent	Profes			and		
						sor(2)			manufa		
									ctuirng		
40	Deepthi	M.T	VTU	2014	Per	Asst.	21-07-	ME	Aerona	Y	Regular
	K.R.	ech			man	Prof.	2014		utical		0
		(Ph.			ent				enginee		
		D)							ring		
41	Lakshminar	мт	VTU	2015	Per	Assist	26-07-	ME	Therma	Y	Regular
	asimha N	EC	, 10	2015	man	ant	2017		1	1	regulai
		H			ent	Profes	_017		- Engine		
					•	sor $(2)$			ering		
						~ ~ ~ (_)			8		
42	Nithin	M.T	VTU	2017	Per	Asst.	16/07/	ME	Compu	Y	Regular
		ech			man	Prof.	2018		ter		
					ent				Integrat		
									ed		
									Manufa		
									cturing		
43	Dr.Aditi	Ph.		2019	Per	Asst.	29/07/	ME	Mecha	Y	Regular
	Raj	D-			man	Prof.	2019		nical		
		IIT			ent						
		Patn									
		a									
44	Naresh K S	M.T	VTU	2013	Per	Assist	17/07/	ME	Machin	Y	Regular
		ech			man	ant	2013		e		
		(Ph.			ent	Profes			design		
		D)				sor (2)					
45	Vinay D R	M.T	VTU	2013	Per	Assist	02/08/	ME	Design	Y	Regular
		ech			man	ant	2017		Engine		
					ent	Profes			ering		
						sor (2)					
	ulty	Qual	ificatio	n	the		Je				
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SI.No	<sup>7</sup> Name of the Facu Member	<sup>2</sup> Degree (highest degree)	University	Year of Attaining Higher	Association with	Designation	Date of Joining the Institution	Department	Specialization	Currently	Nature of Association
1	Dr. Maniunath	PhD		2010	Per man	Profes	25-08- 2003		Lean Manufa	Y	Regular
	a				ent	Princip	2000		cturing	-	
						al		ME			
2	Dr. Ganesh Prasad M S	PhD	VTU	2011	Per man ent	Profes sor & Dean	08-08- 2011	ME	Mechani cal Enginee ring Science	Y	Regular
3	Dr.	PhD		2001	Per	Profes	14-02-	ME	Industri	17	Regular
	GopalaKri shnan				man ent	sor & Dean	2009		al engnieer	Y	
	Kanapathy				CIIC	R&D			ing		
4	Dr. Viswanath Bellie	PhD	Anna UV	2010	Per man ent	Profes sor	23-01- 2017	ME	Mechani cal Sciences	Y	Regular
5	Dr. Prabhakar Kammar	PhD		2013	Per man ent	Profes sor	14.02.09	ME	Material Science	Y	Regular
6	Dr. Priyabrata Adhikary	PhD	Jadhav apur UV	22-03- 2018	Per man ent	Profes sor	16-07- 2017	ME	Renewa ble Energy & Turbom achine, RAC, FM	Y	Regular
7	Dr.Vasant ha Kumar	Ph.D	NIT- Thiruc hinapa Ili	2017	Per man ent	Associ ate Profes sor	26-07- 2017	ME	Lean Manufa cturing	Y	Regular

## Table 5.1.1.3 Faculty Information regular and contractual Academic Year 2018-2019

8	Dr.Venug	PhD	Satyab	2019	Per	Associ	16-07-	ME	Material		Regular
	opal S		hama		man	ate	2018		s	Y	0
	1		UV		ent	Profes			science		
					• • • •	sor			& Engo		
						501			a Lings		
9	Dr.Selvam	PhD	Anna	2018	Per	Associ	16-07-	ME	Mechani		
	Μ		mali		man	ate	2018		cal	Y	Regular
			UV		ent	Profes			Enginee		
						sor			ring		
									Ū		
10	Dr.Kumar	PhD	Anna	2013	Per	Associ	22-01-	ME	Mechani		
			mali		man	ate	2018		cal	Y	Regular
			UV		ent	Profes			Enginee		
						sor			ring		
11	Dr Asholz	DPLD	ПТ	2010	Dar	Associ	27-08	ME	Alternat		
	Kumor		Dolhi	2019	n Cl	ate	27-00-	IVIL'	ive fuele	$\mathbf{v}$	Pagular
	Numar		Dem		man	ale	2018		ive fuels	I	Regular
					ent	Profes			and		
						sor			greenho		
									use gas		
12	Dr. Sujin	PhD	Anna	2018	Per	Associ	12-11-	ME	Engg.		
	Jose		υv		man	ate	2018		Material	Y	Regular
					ent	Profes			s		
					•110	sor			5		
13	Dr. Gopal	Ph.D	Anna	28.09.20	Per	Associ	19-08-	ME	I.C.engi		Regular
	К		malai	18	man	ate	2017		nes,	Y	
					ent	Profes			Combus		
						sor			tion,		
									energy		
14	Vachad	МТ-		1094	Dom	Accori	25.07	ME	Mointon		
14	1 asliau Kumar	avi. Te		1704	rer	ASSUCI	2J-07-	IVIE	anac	v	Dogular
	Kumar				man	ate	2016		ance	Y	Regular
	Gaur	(PhD			ent	Profes			Engg.		
		)				sor					
15	Amit	PhD		2020	Per	Associ	14.08.06	ME	Mechani		
	Kumar	_			man	ate		-	cal	Y	Regular
	Goudar				ent	Profes			Enginee	-	0
	Coudur				2111	sor			ring		
						501			Science		
									Science		
16	Srinath M	PhD	VTU	2019	Per	Assista	25-07-	ME	surface		
	К				man	nt	2011		engineer	Y	Regular
									-		

					ent	Profes			ing		
						sor					
17	Nagendra	PhD	VTU	30-10-	Per	Assista	25-07-	ME	Mechani		
	J			19	man	nt	2011		cal	Y	Regular
	-			-	ent	Profes	-		Enginee		0
						sor			ring		
									Science		
10	Moniumoth			2010	Derr	Assists	21.07	ME	Namaaa		
10	Manjunau o G	Pn.D	VIU	2019	Per	Assista	51-07- 2017	NIC	manoco	v	Dogular
	a O				man	III Drofos	2017		mposite Monuf	I	Regulai
					em	rioles			s, Mailui		
						501			Science		
									æ Enginee		
									ring		
									img		
19	Raghu	ME,		01-05-	Per	Sr.	26-07-	ME	Comput		
	Tilak	(PhD		2005	man	Assista	2010		er	Y	Regular
	Reddy	)			ent	nt			Integrat		
	Maramred					Profes			ed		
	dy					sor			Manufa		
									cturing		
20	Manjesh	M.Te	VTU	2015	Per	Sr.	16-08-	ME	Thermal		
	ВC	ch			man	Assista	2010		power	Y	Regular
					ent	nt			Enginee		
						Profes			ring		
						sor					
21	Shivaprak	M.Te	VTU	2010	Per	Sr.	25-07-	ME	Tool		
	ash S	ch,			man	Assista	2011		Enginee	Y	Regular
		(Ph.			ent	nt			ring		
		D)				Profes					
						sor					
22	Ravikuma	ME	Bangal	2009	Per	Sr.	25-07-	ME	Thermal		
	r M.	(PhD	ore		man	Assista	2011		Sciences	Y	Regular
		)	UV		ent	nt					
1						Profes					
						sor					
23	Hanamant	М Те	VTI	2011	Per	Sr	25-07-	MF	machine		
	n nununnunnunn	1,1,1 C	, 10	<u> </u>	man	Assista			machine	Y	Regular
										-	O and

2	0	1	9	_	2	0	
1	v	-	-	1	-	v	

	Yaragudri	ch			ent	nt Profes	2012		design		
						sor					
24	Nagabhus hana Narasappa	M.Te ch, (PhD )	VTU	2008	Per man ent	Sr. Assista nt Profes sor	25-07- 2012	ME	Manufa cturing	Y	Regular
25	Sudarshan T A	M.Te ch, (Ph. D)	Bangal ore UV	2012	Per man ent	Sr. Assista nt Profes sor	25-07- 2012	ME	Thermal Science and Enginee ring	Y	Regular
26	Veeresha G	M.Te ch, (Ph. D)	VTU	2011	Per man ent	Sr. Assista nt Profes sor	25-07- 2012	ME	Machine design	Y	Regular
27	Chetan Kumar D S	M.Te ch (Ph. D)	VTU	2013	Per man ent	Sr. Assista nt Profes sor	24-07- 2013	ME	Machine design	Y	Regular
28	Santhosh A N	M.Te ch, (Ph. D)	VTU	2010	Per man ent	Sr. Assista nt Profes sor	25-07- 2016	ME	Tool Enginee ring	Y	Regular
29	Bopanna . K. D	M.Te ch, (Ph. D)	VTU	2011	Per man ent	Assista nt Profes sor (2)	25-07- 2012	ME	Comput er Integrat ed Manufa cturing	Y	Regular
30	Puneeth H V	M.Te ch, (Ph.	VTU	2011	Per man ent	Assista nt Profes	25-07- 2012	ME	Tool Enginee ring	Y	Regular

		D)				sor (2)					
31	Rajesh A	M Tech	VTU	2012	Per man ent	Assista nt Profes sor (2)	24-07- 2013	ME	Aeronau tical engineer ing	Y	Regular
32	Sujeeth Swami	M.Te ch	VTU	2014	Per man ent	Assista nt Profes sor (2)	21-07- 2014	ME	Comput er Integrat ed Manufa cturing	Y	Regular
33	Ronald Reagon R	Mtec h	SSAH E- Tumak uru	2014	Per man ent	Assista nt Profes sor (2)	21-07- 2014	ME	Thermal Power Engg	Y	Regular
34	Madhusud an K	M.Te ch	VTU	2013	Per man ent	Assista nt Profes sor (2)	21-07- 2014	ME	Manufa cturing Science & Enginee ring	Y	Regular
35	Kemparaj u C R	M.Te ch	SSAH E- Tumak uru	2013	Per man ent	Assista nt Profes sor (2)	21-07- 2014	ME	Thermal Power Engg	Y	Regular
36	Pavan Prabhakar Kadole	M.Te ch	VTU	2013	Per man ent	Assista nt Profes sor (2)	20-07- 2015	ME	Machine Design	Y	Regular
37	Karthik S N	M.E( Ph.D )	Bangal ore UV	2013	Per man ent	Assista nt Profes sor (2)	25-07- 2016	ME	Advanc ed Material Technol ogy	Y	Regular
38	Megha Shukla	M.Te ch	VTU	2016	Per man ent	Assista nt Prof(2)	25-07- 2016	ME	Machine design	Y	Regular

20	<b>V</b> 1	MT.	NUTC	b010	D	A	17.07	ME	T1	V	]
39	Kamalasis h Deb	M.Te ch	NITS- Silchar	2012	Per man ent	Assista nt Profes sor (2)	17-07- 2013	ME	Thermal Enginee ring	Y	Regular
40	Vinod Kumar G S	M.Te ch,(P h.D)	NIT- Trichy	2011	Per man ent	Assista nt Profes sor (2)	23-01- 2017	ME	Material s science & Engg	Y	Regular
41	Vinayak Prakash Balehittal	M.Te ch	VTU	2016	Per man ent	Assista nt Profes sor (2)	23-01- 2017	ME	Prouct design and manufac tuirng	Y	Regular
42	Deepthi K.R.	M.Te ch (Ph. D)	VTU	2014	Per man ent	Asst. Prof.	21-07- 2014	ME	Aeronau tical engineer ing	Y	Regular
43	Lakshmin arasimha N	M.T ECH	VTU	2015	Per man ent	Assista nt Profes sor (2)	26-07- 2017	ME	Thermal Enginee ring	Y	Regula r
44	Nithin	M.Te ch	VTU	2017	Per man ent	Asst. Prof.	16-07- 2018	ME	Comput er Integrat ed Manufa cturing	Y	Regular
45	Naresh K S	M.Te ch (Ph. D)	VTU	2013	Per man ent	Assista nt Profes sor (2)	17-07- 2013	ME	Machine design	Y	Regular
46	Hemanth Raju	M.Te ch (PhD )	VTU	2010	Per man ent	Assista nt Profes sor (2)	26-07- 2010	ME	Design Enginee ring	Y	Regular

	<u>A</u> Qualification			on	he		0				
SI.No	Name of the Facul Member	Degree (highest degree)	University	Year of Attaining Higher	Association with t	Designation	Date of Joining the Institution	Department	Specialization	Currently	Nature of Association
1	Manjunat ha			2010	anent	sor & Princip al	2003	ME	Manufa cturing	Y	Regulai
2	Dr. Ganesh Prasad M S	PhD	VTU	2011	Perm anent	Profes sor & Dean	08-08- 2011	ME	Mechani cal Enginee ring Science	Y	Regular
3	Dr. GopalaKr ishnan Kanapath y	PhD		2001	Perm anent	Profes sor & Dean R&D	14-02- 2009	ME	Industri al engnieer ing	Y	Regular
4	Dr. Viswanat h Bellie	PhD	Anna UV	2010	Perm anent	Profes sor	23-01- 2017	ME	Mechani cal Sciences	Y	Regular
5	Dr. Prabhakar Kammar	PhD		2013	Perm anent	Profes sor	14.02.09	ME	Material Science	Y	Regular
6	Dr. Pradeep K S	PhD	IISc	2011	Perm anent	Profes sor	24/07/1 3	ME	Aerospa ce Engg.	Y	Regular
7	Dr. B. Vittaladas aPrabhu	Ph.D			Perm anent	Associ ate Profes sor	15/06/2 016	ME	Operatio ns & Supply Chain Manage ment	Y	Regular
8	Dr.Vasant	Ph.D	NIT-	2017	Perm	Associ	26-07-	ME	Lean		

## Table 5.1.1.4 Faculty Information regular and contractual Academic Year 2017-2018

20	19	-20	

	ha Kumar		Thiru		anent	ate	17		Manufa	Y	Regular
			china			Profes			cturing		_
			palli			sor					
0	<b>D</b> 1 1		<b>T</b> 11	22.02	<b>D</b>		1 < 0 7		D.		
9	Priyabrat	PhD	Jadha	22-03-	Perm	Associ	16-07-	ME	Renewa	• 7	
	a		vapur	2018	anent	ate	17		ble	Y	Regular
	Adhikary		Uν			Profes			Energy		
						sor			& Tumb and		
									Turbom		
									$\mathbf{P} \mathbf{A} \mathbf{C}$		
									KAC, EM		
									1 111		
10	Yashad	M.Te		1984	Perm	Associ	25-07-	ME	Maintan		
	Kumar	ch			anent	ate	16		ance	Y	Regular
	Gaur	(PhD				Profes			Engg.		
		)				sor					
11	Da		UT	2007	Dame	<b>A</b> ago ai	29.01	ME	Maahani		
11	DI. Krishnere	PhD	III Rom	2007	opont	ASSOCI	28-01-	NE		$\mathbf{v}$	Dogular
	o D Dhuri		bom		anent	aic Profes	2013		Cal Enginee	1	Regulai
			Uay			sor			ring		
						501			iiig		
12	Dr.	PhD	IIT	1985	Perm	Emerit	20-05-	ME	Mechani		
	Prabhu		Madr		anent	us	2016		cal	Y	Regular
	Kumar		as			Profes			Enginee		
	G.P					sor			ring		
13	Dr Vadiy	DPD	Saty	2013	Dorm	Associ	28.01	ME	Material		
15			abha	2013	anent	ate	20-01-	IVIL	s s	v	Regular
			ma		anem	aic Profes	2013		s Enginee	T	Regulai
			Univ			sor			ring		
			ersity			501			11115		
			croncy								
14	Amit	M.Te		2020	Perm	Assista	14.08.06	ME	Mechani		
	Kumar	ch			anent	nt			cal	Y	Regular
	Goudar					Profes			Enginee		
						sor			ring		
									Science		
15	Srinath M	М Те	VTI	2019	Perm	Assista	25-07-	MF	surface		Regular
	K	ch	, 10		anent	nt	2011	171L/	engineer	Y	rtogulai
	**	~11			anont	Profes	-011		ing	T	
						sor			0		
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16	Nagendra	M.Te	VTU	30-10-	Perm	Assista	25-07-	ME	Mechani		Regular
	J	ch		19	anent	nt	2011		cal	Y	
						Profes			Enginee		
						sor			ring		
									Science		
17	Manjunat	M.Te	VTU	2019	Perm	Assista	31-07-	ME	Nanoco		Regular
	ha G	ch			anent	nt	2017		mposite	Y	
						Profes			s,Manuf		
						sor			acturing		
									Science		
									&		
									Enginee		
									ring		
18	Hemanth	M.Te	VTU	2010	Perm	Assista	26-07-	ME	Design		Regular
	Raju	ch			anent	nt	2010		Enginee	Y	
		(PhD				Profes			ring		
		)				sor (2)					
19	Raghu	ME,		38473	Perm	Sr.	26-07-	ME	Comput		
	Tilak	(PhD			anent	Assista	2010		er	Y	Regular
	Reddy	)				nt			Integrat		_
	Maramre					Profes			ed		
	ddy					sor			Manufa		
									cturing		
20	Manjesh	M.Te	VTU	2015	Perm	Sr.	16-08-	ME	Thermal		
	ВC	ch			anent	Assista	2010		power	Y	Regular
		VTU.				nt			Enginee		
						Profes			ring		
						sor					
21	Shivaprak	M.Te	VTU	2010	Perm	Sr.	25-07-	ME	Tool		
	ash S	ch,			anent	Assista	2011		Enginee	Y	Regular
		(Ph.				nt			ring		
		D)				Profes					
						sor					
22	Ravikum	ME	Bang	2009	Perm	Sr.	25-07-	ME	Thermal		
	ar M.	(PhD	alore		anent	Assista	2011		Sciences	Y	Regular
		)	UV			nt					
						Profes					
						sor					

23	Hanaman	M.Te	VTU	2011	Perm	Sr.	25-07-	ME	machine		
	t	ch			anent	Assista	2012		design	Y	Regular
	Yaragudri					nt					
						Profes					
						sor					
24	NT 1- 1	MT.		2009	D	<b>C</b>	25.07	ME	M		
24	Nagabhus	M.Te	VIU	2008	Perm	Sr.	25-07-	ME		v	D1
	nana	cn,			anent	Assista	2012		cturing	Y	Regular
	Narasapp	(PnD				nt D					
	а	)				Profes					
						sor					
25	Sudarsha	M.Te	Bang	2012	Perm	Sr.	25-07-	ME	Thermal		
	n T A	ch,	alore		anent	Assista	2012		Science	Y	Regular
		(Ph.	UV			nt			and		_
		D)				Profes			Enginee		
						sor			ring		
					_	~			-		
26	Veeresha	M.Te	VTU	2011	Perm	Sr.	25-07-	ME	Machine		
	G	ch,			anent	Assista	2012		design	Y	Regular
		(Ph.				nt					
		D)				Profes					
						sor					
27	Chetan	M.Te	VTU	2013	Perm	Sr.	24-07-	ME	Machine		Regular
	Kumar D	ch			anent	Assista	2013		design	Y	0
	S	(Ph.				nt			6		
	-	D)				Profes					
		/				sor					
28	Santhosh	M.Te	VTU	2010	Perm	Sr.	25-07-	ME	Tool		Regular
	A N	ch,			anent	Assista	2016		Enginee	Y	
		(Ph.				nt			ring		
		D)				Profes					
						sor					
29	Bopanna	M.Te	VTU	2011	Perm	Assista	25-07-	ME	Comput		Regular
	K.D	ch	, 10		anent	nt	2012		er	Y	r cogurur
		(Ph				Profes			Integrat	*	
		(1 III D)				sor $(2)$			ed		
									Manufa		
									cturing		
									B		
30	Puneeth	M.Te	VTU	2011	Perm	Assista	25-07-	ME	Tool	_	Regular
		ch,				nt			Enginee	Y	

	ΗV	(Ph.			anent	Profes	2012		ring		
		D)				sor (2)			U		
						501 (_)					
31	Rajesh A	М	VTU	2012	Perm	Assista	24-07-	ME	Aeronau		
		Tech			anent	nt	2013		tical	Y	Regular
						Profes			engineer		C
						sor(2)			ing		
						501 (_)					
32	Sujeeth	M.Te	VTU	2014	Perm	Assista	21-07-	ME	Comput		
	Swami	ch			anent	nt	2014		er	Y	Regular
						Profes			Integrat		
						sor (2)			ed		
						~ /			Manufa		
									cturing		
									ettaining		
33	Ronald	Mtec	SSA	2014	Perm	Assista	21-07-	ME	Thermal		Regular
	Reagon R	h	HE-		anent	nt	2014		Power	Y	
			Tum			Profes			Engg		
			akuru			sor (2)					
34	Madhusu	M.Te	VTU	2013	Perm	Assista	21-07-	ME	Manufa		Regular
	dan K	ch			anent	nt	2014		cturing	Y	
						Profes			Science		
						sor (2)			&		
									Enginee		
									ring		
									0		
35	Kemparaj	M.Te	SSA	2013	Perm	Assista	21-07-	ME	Thermal		Regular
	u C R	ch	HE-		anent	nt	2014		Power	Y	
			Tum			Profes			Engg		
			akuru			sor (2)					
-	_				_						
36	Pavan	M.Te	VTU	2013	Perm	Assista	20-07-	ME	Machine		Regular
	Prabhakar	ch			anent	nt	2015		Design	Y	
	Kadole					Profes					
						sor (2)					
27	Vorth 1- 0		Darri	2012	Darri	Aggist	25.07	ME	A days a s		D a avr <sup>1</sup>
57	Kartnik S		ыang	2013	rerm	Assista	23-07-	WE	Auvanc	<b>X</b> 7	Regular
	IN	Ph.D	alore		anent	nt D	2016		ed	Ŷ	
		)	Uν			Profes			Material		
						sor (2)			Technol		
									ogy		
38	Megho	МТа	VTU	2016	Dorm	Accieto	25-07	ME	Machina		Regular
50	Chul-la	uvi. 10	VIU	2010		rissista nt	23-07-	1 <b>V1L</b> 2	docier	v	regulat
	SIIUKIA	CII			anent	111	2010		uesign	1	
L	1	1			1			1	1		1

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						Profes					
						sor (2)					
39	Kamalasi sh Deb	M.Te ch	NITS Silch ar	2012	Perm anent	Assista nt Profes sor (2)	17-07- 2013	ME	Thermal Enginee ring	Y	Regular
40	Vinod Kumar G S	M.Te ch,(P h.D)	NIT- Trich y	2011	Perm anent	Assista nt Profes sor (2)	23-01- 2017	ME	Material s science & Engg	Y	Regular
41	Vinayak Prakash Balehittal	M.Te ch	VTU	2016	Perm anent	Assista nt Profes sor (2)	23-01- 2017	ME	Prouct design and manufac tuirng	Y	Regular
42	Lakshma na Naik	M.Te ch	VTU	2014	Perm anent	Assista nt Profes sor (2)	28-07- 2016	ME	Thermal Enginee ring	Y	Regular
43	Lakshmin arasimha N	M.T ECH	VTU	2015	Perm anent	Assista nt Profes sor (2)	26-07- 2017	ME	Thermal Power Enginee ring	Y	Regular
44	Naresh K S	M.Te ch (Ph. D)	VTU	2013	Perm anent	Assista nt Profes sor (2)	17-07- 2013	ME	Machine design	Y	Regula r
45	Deepthi K.R.	M.Te ch	VTU	2014	Perm anent	Asst. Prof.	21-07- 2014	ME	Aeronau tical engineer ing	Y	Regular
46	Vinay D R	M.Te ch	VTU	2013	Perm anent	Assista nt Profes sor (2)	0 <mark>2-08-</mark> 2017	ME	Design Enginee ring	Y	Regular

## **5.2 Faculty Cadre Proportion**

The reference Faculty cadre proportion is 1(F1):2(F2):6(F3)F1: Number of Professors required = 1/9 x Number of Faculty required to comply with 20:1 Student-Faculty ratio based on no. of students (N) as per 5.1 F2: Number of Associate Professors required = 2/9 x Number of Faculty required to comply with 20:1 Student-Faculty ratio based on no. of students (N) as per 5.1 F3: Number of Assistant Professors required = 6/9 x Number of Faculty required to comply with 20:1 Student-Faculty ratio based on no. of students (N) as per 5.1 Cadre Ratio Marks= [(AF1/RF1)+(AF2x0.6/RF2)+(AF3x0.4/RF3)] x 10

- If AF1 = AF2 = 0 then zero marks
- Maximum marks to be limited if it exceeds 20 Example: Intake = 60 (i.e. total no. of students= 180);; Required number of Faculty: 9; RF1= 1, RF2=2 and RF3=6 Case 1: AF1/RF1= 1; AF2/RF2 = 1; AF3/RF3 = 1; Cadre proportion marks =  $(1+0.6+0.4) \times 10 = 20$ Case 2: AF1/RF1= 1; AF2/RF2 = 3/2; AF3/RF3 = 5/6; Cadre proportion marks =  $(1+0.9+0.3) \times 10 = 1$ imited to 20 Case 3:AF1/RF1=0; AF2/RF2=1/2; AF3/RF3=8/6; Cadre proportion marks =  $(0+0.3+0.53) \times 10 = 8.3$

	Professors		Associate Pro	fessors	Assistant Professors		
Year	<b>Required F1</b>	Available	<b>Required F2</b>	Available	<b>Required F3</b>	Avail	
						able	
CAY(20	3.00	6.00	7.00	10.00	22.00	29.00	
19-20)							
CAYm1(	3.00	6.00	7.00	4.00	22.00	36.00	
2018-19)							
CAYm2(	3.00	7.00	7.00	4.00	22.00	35.00	
2017-18)							
Average	3.00	6.33	7.00	6.00	22.00	33.33	
Numbers							

#### **Table 5.2.1 Faculty Cadre Proportion**

Cadre Ratio Marks [ (AF1 / RF1) + [(AF2 / RF2) \* 0.6] + [ (AF3 / RF3) \* 0.4] ] \* 10 : 20.00

	mber	Qual	ificati	on		with on		ning on		on		
SI.No	Name of the Faculty Me	Degree	University	Year of	Attaining Hioher	Association the Instituti	Designation	Date of Joir the Instituti	Department	Specializati	Currently Associated	Nature of Association
1	Dr. Manjunatha	PhD	VTU	2010	)	Perm anent	Profes sor & Princip al	25.08. 03	M E	Lean Manufa cturing	Y	Regular
2	Dr. Ganesh Prasad M S	PhD	VTU	2011	1	Perm anent	Profes sor & Dean	08-08- 2011	ME	Mechani cal Enginee ring Science	Y	Regular
3	Dr. GopalaKrish nan Kanapathy	PhD		2001	1	Perm anent	Profes sor & Dean R&D	14-02- 2009	ME	Industri al Enginee ring	Y	Regular
4	Dr. Viswanath Bellie	PhD	Anna UV	2010	)	Perm anent	Profes sor	23-01- 2017	ME	Mechani cal Sciences	Y	Regular
5	Dr. Priyabrata Adhikary	PhD	Jadha vapur UV	22-0 2018	)3- 8	Perm anent	Profes sor	17-07- 2017	ME	Renewa ble Energy & Turbom achine, RAC, FM	Y	Regular
6	Dr.Vasantha Kumar	PhD	NIT- Thiru china palli	2017	7	Perm anent	Profes sor	26-07- 2017	ME	Lean Manufa cturing	Y	Regular
1	Dr. Amit Kumar	PhD	VTU	2020	)	Perm anent	Associ ate	14.08. 06	ME	Mechani cal	Y	Regular

Table 5.2.2 Faculty Information Faculty Cadre Proportion Academic Year 2019-2020

	Goudar					Prof.			Enginee ring Science		
2	Dr. Srinath M K	PhD	VTU	2019	Perm anent	Associ ate Profes sor	25-07- 2011	ME	surface engineer ing	Y	Regular
3	Dr. Nagendra J	PhD	VTU	30-10- 19	Perm anent	Associ ate Profes sor	25-07- 2011	ME	Mechani cal Enginee ring Science	Y	Regular
4	Dr. Manjunatha G	Ph.D	VTU	2019	Perm anent	Associ ate Profes sor	31-07- 2017	ME	Nanoco mposite s,Manuf acturing Science & Enginee ring	Y	Regular
5	Dr. Ashok Kumar	PhD	IIT- Delhi	2019	Perm anent	Associ ate Profes sor	27-08- 2018	ME	Alternat ive fuels and greenho use gas	Y	Regular
6	Dr. Sujin Jose	PhD	Anna U V	2018	Perm anent	Associ ate Profes sor	27-08- 2018	ME	Engg. Material s	Y	Regular
7	Dr. Gopal K	Ph.D	Anna malai	28.09.20 18	Perm anent	Associ ate Profes sor	19-08- 2018	ME	I.C.engi nes, Combus tion, Alternat ive Fuels,	Y	Regular
8	Dr.Venugop al S	PhD		2019	Perm anent	Associ ate	16-07- 2018	ME	Material s	Y	Regular

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						Profes			science		
						so			& Engg		
9	Dr.Selvam M	PhD	Anna malai	2018	Perm anent	Associ ate Profes	16-07- 2018	ME	Mechani cal Enginee	Y	Regular
						sor			ring		
10	Dr.Hemanth Raju	PhD	VTU	2019	Perm anent	Associ ate Profes sor	26-07- 2010	ME	Design Enginee ring	Y	Regular
1	Raghu Tilak Reddy Maramreddy	ME		01-05- 2005	Perm anent	Sr. Assista nt Profes sor	26-07- 2010	ME	Comput er Integrat ed Manufa cturing	Y	Regular
2	Manjesh B C	M.Te ch	VTU	2015	Perm anent	Sr. Assista nt Profes sor	16-08- 2010	ME	Thermal power Enginee ring	Y	Regular
3	Shivaprakas h S	M.Te ch, (Ph. D)	VTU	2010	Perm anent	Sr. Assista nt Profes sor	25-07- 2011	ME	Tool Enginee ring	Y	Regular
4	Ravikumar M.	ME (PhD )	Bang alore UV	2009	Perm anent	Sr. Assista nt Profes sor	25-07- 2011	ME	Thermal Sciences	Y	Regular
5	Hanamant Yaragudri	M.Te ch	VTU	2011	Perm anent	Sr. Assista nt Profes sor	25-07- 2012	ME	Machine Design	Y	Regular
6	Nagabhusha na	M.Te ch,	VTU	2008	Perm	Sr. Assista	25-07-	ME	Manufa	Y	Regular

	Narasappa	(PhD )			anent	nt Profes sor	2012		cturing		
7	Sudarshan T A	M.Te ch, (Ph. D)	Bang alore UV	2012	Perm anent	Sr. Assista nt Profes sor	25-07- 2012	ME	Thermal Science and Enginee ring	Y	Regular
8	Veeresha G	M.Te ch, (Ph. D)	VTU	2011	Perm anent	Sr. Assista nt Profes sor	25-07- 2012	ME	Machine design	Y	Regular
9	Chetan Kumar D S	M.Te ch (Ph. D)	VTU	2013	Perm anent	Sr. Assista nt Profes sor	24-07- 2013	ME	Machine design	Y	Regular
10	Santhosh A N	M.Te ch, (Ph. D)	VTU	2010	Perm anent	Sr. Assista nt Profes sor	25-07- 2016	ME	Tool Enginee ring	Y	Regular
11	Bopanna . K. D	M.Te ch, (Ph. D)	VTU	2011	Perm anent	Assista nt Profes sor (2)	25-07- 2012	ME	Comput er Integrat ed Manufa cturing	Υ	Regular
12	Puneeth H V	M.Te ch, (Ph. D)	VTU	2011	Perm anent	Assista nt Profes sor (2)	25-07- 2012	ME	Tool Enginee ring	Y	Regular
13	Rajesh A	M Tech	VTU	2012	Perm anent	Assista nt Profes sor (2)	24-07- 2013	ME	Aeronau tical engineer ing	Y	Regular

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14	Sujeeth	M.Te	VTU	2014	Perm	Assista	21-07-	ME	Comput	Y	Regular
	Swami	ch			anent	nt	2014		er		
						Profes			Integrat		
						sor (2)			ed		
									Manufa		
									cturing		
15	Ronald	Mtec	SSA	2014	Perm	Assista	21-07-	ME	Thermal	Y	Regular
	Reagon R	h	HE-		anent	nt	2014		Power		U
			Tum			Profes			Engg		
			akuru			sor (2)					
16	Madhusudan	M.Te	VTU	2013	Perm	Assista	21-07-	ME	Manufa	Y	Regular
	К	ch			anent	nt	2014		cturing		0
						Profes			Science		
						sor (2)			&		
									Enginee		
									ring		
17	Kemparaju	M.Te	SSA	2013	Perm	Assista	21-07-	ME	Thermal	Y	Regular
	C R	ch	HE-		anent	nt	2014		Power		-
			Tum			Profes			Engg		
			akuru			sor (2)					
18	Pavan	M.Te	VTU	2013	Perm	Assista	20-07-	ME	Machine	Y	Regular
	Prabhakar	ch			anent	nt	2015		Design		
	Kadole					Profes					
						sor (2)					
19	Karthik S N	M.E(	Bang	2013	Perm	Assista	25-07-	ME	Advanc	Y	Regular
		Ph.D	alore		anent	nt	2016		ed		
		)	UV			Profes			Material		
						sor (2)			Technol		
									ogy		
20	Megha	M.Te	VTU	2016	Perm	Assista	25-07-	ME	Machine	Y	Regular
	Shukla	ch			anent	nt	2016		design		
						Profes					
						sor (2)					
21	Kamalasish	M.Te	NITS	2012	Perm	Assista	17-07-	ME	Thermal	Y	Regular
	Deb	ch	-		anent	nt	2013		Enginee		
			Silch			Profes			ring		
			ar			sor (2)					

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22	V1nod Kumar G S	M.Te	NIT- Trich	2011	Perm	Assista nt	23-01-	ME	Material	Ŷ	Regular
	Kulliai O S	h D	v		anem	n Profes	2017		science		
		II.D)	y			sor $(2)$			& Fngg		
						501 (2)			& Lingg		
23	Vinayak	M.Te	VTU	2016	Perm	Assista	23-01-	ME	Prouct	Y	Regular
	Prakash	ch			anent	nt	2017		design		
	Balehittal					Profes			and		
						sor (2)			manufac		
									tuirng		
24	Deepthi	M.Te	VTU	2014	Perm	Asst.	21-07-	ME	Aeronau	Y	Regular
	K.R.	ch			anent	Prof.	2014		tical		U
		(Ph.							engineer		
		D)							ing		
25	Lakahminara	МТ	VTU	2015	Dorm	Accieto	26.07	МЕ	Thormal	V	Doculor
23	Laksiiiiiiata simbo N	WI. I FCH	VIU	2013	anont	Assisia	20-07-	IVIE	Enginee	I	Regulai
	511111a 1N	LCII			anem	n Profes	2017		ring		
						sor $(2)$			ring		
						501 (2)					
26	Nithin	M.Te	VTU	2017	Perm	Asst.	16/07/	ME	Comput	Y	Regular
		ch			anent	Prof.	2018		er		
									Integrat		
									ed		
									Manufa		
									cturing		
27	Dr.Aditi Raj	Ph.D		2019	Perm	Asst.	29/07/	ME	Mechani	Y	Regular
		-IIT			anent	Prof.	2019		cal		
		Patna									
28	Naresh K S	М Те	VTU	2013	Perm	Assista	17/07/	ME	Machine	Y	Regular
_0		ch	120	_010	anent	nt	2013		design	-	
		(Ph.				Profes	_010				
		D)				sor (2)					
•				2012	5		00/00/		<b>b</b> ·	• •	
29	Vinay D R	M.Te	VTU	2013	Perm	Assista	02/08/	ME	Design	Y	Regular
		cn			anent	III Ductor	2017		Enginee		
						Profes			ring		
						501 (2)					

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	a				anem	Princip al	05	M E	cturing	I	
2	Dr. Ganesh Prasad M S	PhD	VTU	2011	Perm anent	Profes sor & Dean	08-08- 2011	ME	Mechani cal Enginee ring Science	Y	Regular
3	Dr. GopalaKris hnan Kanapathy	PhD		2001	Perm anent	Profes sor & Dean R&D	14-02- 2009	ME	Industri al engnieer ing	Y	Regular
4	Dr. Viswanath Bellie	PhD	Anna UV	2010	Perm anent	Profes sor	23-01- 2017	ME	Mechani cal Sciences	Y	Regular
5	Dr. Prabhakar Kammar	PhD		2013	Perm anent	Profes sor	14.02. 09	ME	Material Science	Y	Regular
6	Dr. Priyabrata Adhikary	PhD	Jadha vapur UV	22-03- 2018	Perm anent	Profes sor	16-07- 2017	ME	Renewa ble Energy & Turbom achine, RAC, FM	Y	Regular
1	Dr.Vasanth a Kumar	Ph.D	NIT- Thiru china palli	2017	Perm anent	Associ ate Profes sor	26-07- 2017	ME	Lean Manufa cturing	Y	Regular

Table 5.2.3 Faculty Information Faculty Cadre Proportion Academic Year2018-2019

2	Dr.Venugo pal S	PhD	Saty abha ma UV	2019	Perm anent	Associ ate Profes sor	16-07- 2018	ME	Material s science & Engg	Y	Regular
3	Dr.Selvam M	PhD	Ann amali UV	2018	Perm anent	Associ ate Profes sor	16-07- 2018	ME	Mechani cal Enginee ring	Y	Regular
4	Dr.Kumar	PhD	Ann amali UV	2013	Perm anent	Associ ate Profes sor	22-01- 2018	ME	Mechani cal Enginee ring	Y	Regular
5	Dr. Ashok Kumar	PhD	IIT- Delhi	2019	Perm anent	Associ ate Profes sor	27-08- 2018	ME	Alternat ive fuels and greenho use gas	Y	Regular
6	Dr. Sujin Jose	PhD	Anna U V	2018	Perm anent	Associ ate Profes sor	12-11- 2018	ME	Engg. Material s	Y	Regular
7	Dr. Gopal K	Ph.D	Anna malai	28.09.20 18	Perm anent	Associ ate Profes sor	19-08- 2017	ME	I.C.engi nes, Combus tion, Alternat ive Fuels	Y	Regular
8	Yashad Kumar Gaur	M.Te ch (PhD )		1984	Perm anent	Associ ate Profes sor	25-07- 2016	ME	Maintan ance Engg.	Y	Regular
9	Amit Kumar Goudar	PhD		2020	Perm anent	Associ ate Profes sor	14.08. 06	ME	Mechani cal Enginee ring Science	Y	Regular

10	Sringth M	DhD	VTII	2010	Dorm	Accieto	25.07	ME	aurfaga		
10	K	PnD	VIU	2019	anent	Assista nt Profes sor	2011	ME	surface engineer ing	Y	Regular
1	Nagendra J	PhD	VTU	30-10- 19	Perm anent	Assista nt Profes sor	25-07- 2011	ME	Mechani cal Enginee ring Science	Y	Regular
2	Manjunath a G	Ph.D	VTU	2019	Perm anent	Assista nt Profes sor	31-07- 2017	ME	Nanoco mposite s,Manuf acturing Science & Enginee ring	Y	Regular
3	Raghu Tilak Reddy Maramredd y	ME, (PhD )		01-05- 2005	Perm anent	Sr. Assista nt Profes sor	26-07- 2010	ME	Comput er Integrat ed Manufa cturing	Y	Regular
4	Manjesh B C	M.Te ch	VTU	2015	Perm anent	Sr. Assista nt Profes sor	16-08- 2010	ME	Thermal power Enginee ring	Y	Regular
5	Shivapraka sh S	M.Te ch, (Ph. D)	VTU	2010	Perm anent	Sr. Assista nt Profes sor	25-07- 2011	ME	Tool Enginee ring	Y	Regular
6	Ravikumar M.	ME (PhD )	Bang alore UV	2009	Perm anent	Sr. Assista nt Profes sor	25-07- 2011	ME	Thermal Sciences	Y	Regular

7	Uonomont	МТо	VTI	2011	Dorm	Cr.	25.07	ME	Machina		
/	Na na ana dui	111.10	VIU	2011	r ei iii	SI.	23-07-	IVIL		V	D1
	r araguari	cn			anent	Assista	2012		Design	Y	Regular
						nt					
						Profes					
						sor					
8	Nagabhush	M.Te	VTU	2008	Perm	Sr.	25-07-	ME	Manufa		
	ana	ch,			anent	Assista	2012		cturing	Y	Regular
	Narasappa	(PhD				nt					
		)				Profes					
		ĺ				sor					
						501					
9	Sudarshan	M.Te	Bang	2012	Perm	Sr.	25-07-	ME	Thermal		
	ΤА	ch,	alore		anent	Assista	2012		Science	Y	Regular
		(Ph.	UV			nt			and		
		D)				Profes			Enginee		
		2)				sor			ring		
						501			iiig		
10	Veeresha	M.Te	VTU	2011	Perm	Sr.	25-07-	ME	Machine		
	G	ch.			anent	Assista	2012		design	Y	Regular
		(Ph				nt	_ 0 1 _			-	1.0000000
		רח. (1 ח.				Drofog					
		D)				FIOLES					
						sor					
11	Chetan	M.Te	VTU	2013	Perm	Sr.	24-07-	ME	Machine		
	Kumar D S	ch		_010	anent	Δecieta	2013		design	v	Regular
	Kumar D 5	(Dh			anom	2 13313tu nt	2013		uesign	1	Regulai
		(1  II.				nn Duafaa					
		D)				Profes					
						sor					
12	Santhosh A	M Te	VTU	2010	Perm	Sr	25-07-	ME	Tool		
12	N	ch	10	2010	onont	Accista	2016		Enginee	$\mathbf{v}$	Dogular
	1 9	(DL			anem	A5515ta	2010			1	Regulai
		(Pn.				nt D			ring		
		D)				Profes					
						sor					
13	Bonanna	МТо	VTI	2011	Dorm	Accieto	25_07	ME	Comput		
15		uvi. 10		2011	onont	nt	2010	IVIL	or	v	Docular
	K. D	cn,			anem	ni D	2012		er T	I	Regular
		(Ph.				Profes			Integrat		
		D)				sor $(2)$			ed		
									Manufa		
									cturing		
1.4				2011	D	<b>.</b>	05.07		T 1		
14	Puneeth H	M.Te	VTU	2011	Perm	Ass1sta	25-07-	ME	1001		<b>D</b> .
	V	ch,			anent	nt	2012		Enginee	Y	Regular

20	19	-20	

		(Ph.				Profes			ring		
		D)				sor (2)					
15	Rajesh A	M Tech	VTU	2012	Perm anent	Assista nt Profes sor (2)	24-07- 2013	ME	Aeronau tical engineer ing	Y	Regular
16	Sujeeth Swami	M.Te ch	VTU	2014	Perm anent	Assista nt Profes sor (2)	21-07- 2014	ME	Comput er Integrat ed Manufa cturing	Y	Regular
17	Ronald Reagon R	Mtec h	SSA HE- Tum akuru	2014	Perm anent	Assista nt Profes sor (2)	21-07- 2014	ME	Thermal Power Engg	Y	Regular
18	Madhusuda n K	M.Te ch	VTU	2013	Perm anent	Assista nt Profes sor (2)	21-07- 2014	ME	Manufa cturing Science & Enginee ring	Y	Regular
19	Kemparaju C R	M.Te ch	SSA HE- Tum akuru	2013	Perm anent	Assista nt Profes sor (2)	21-07- 2014	ME	Thermal Power Engg	Y	Regular
20	Pavan Prabhakar Kadole	M.Te ch	VTU	2013	Perm anent	Assista nt Profes sor (2)	20-07- 2015	ME	Machine Design	Y	Regular
21	Karthik S N	M.E( Ph.D )	Bang alore UV	2013	Perm anent	Assista nt Profes sor (2)	25-07- 2016	ME	Advanc ed Material Technol ogy	Y	Regular
22	Megha	M.Te	VTU	2016	Perm	Assista nt	25-07-	ME	Machine	Y	Regular

20	19	-20

	Shukla	ch			anent	Profes sor (2)	2016		design		
23	Kamalasish Deb	M.Te ch	NITS Silch ar	2012	Perm anent	Assista nt Profes sor (2)	.17-07- 2013	ME	Thermal Enginee ring	Y	Regular
24	Vinod Kumar G S	M.Te ch,(P h.D)	NIT- Trich y	2011	Perm anent	Assista nt Profes sor (2)	23-01- 2017	ME	Material s science & Engg	Y	Regular
25	Vinayak Prakash Balehittal	M.Te ch	VTU	2016	Perm anent	Assista nt Profes sor (2)	23-01- 2017	ME	Prouct design and manufac tuirng	Y	Regular
26	Deepthi K.R.	M.Te ch (Ph. D)	VTU	2014	Perm anent	Asst. Prof.	21-07- 2014	ME	Aeronau tical engineer ing	Y	Regular
27	Lakshmina rasimha N	M.T ECH	VTU	2015	Perm anent	Assista nt Profes sor (2)	26-07- 2017	ME	Thermal Enginee ring	Y	Regular
28	Nithin	M.Te ch	VTU	2017	Perm anent	Asst. Prof.	16-07- 2018	ME	Comput er Integrat ed Manufa cturing	Y	Regular
29	Naresh K S	M.Te ch (Ph. D)	VTU	2013	Perm anent	Assista nt Profes sor (2)	17-07- 2013	ME	Machine design	Y	Regular
30	Hemanth Raju	M.Te ch (PhD )	VTU	2010	Perm anent	Assista nt Profes sor (2)	26-07- 2010	ME	Design Enginee ring	Y	Regular

	Qualification				iii ເມັນ	ing n		u			
SI.No	Name of the Faculty Member	Degree /	University	Year of Attaining Higher	Association with the	Designation	Date of Joinir the Institutior	Department	Specialization	Curr entl	Nature of Association
1	Dr. Manjunath a	PhD		2010	Perm anent	Profes sor & Princip al	25.08. 03	M E	Lean Manufa cturing	Y	Regular
2	Dr. Ganesh Prasad M S	PhD	VTU	2011	Perm anent	Profes sor & Dean	08-08- 2011	ME	Mechani cal Enginee ring Science	Y	Regular
3	Dr. GopalaKris hnan Kanapathy	PhD		2001	Perm anent	Profes sor & Dean R&D	14-02- 2009	ME	Industri al engnieer ing	Y	Regular
4	Dr. Viswanath Bellie	PhD	Anna UV	2010	Perm anent	Profes sor	23-01- 2017	ME	Mechani cal Sciences	Y	Regular
5	Dr. Prabhakar Kammar	PhD		2013	Perm anent	Profes sor	14.02. 09	ME	Material Science	Y	Regular
6	Dr. Pradeep K S	PhD	IISc	2011	Perm anent	Profes sor	24/07/ 13	ME	Aerospa ce Engg.	Y	Regular
7	Dr. B. Vittaladasa Prabhu	Ph.D			Perm anent	Profes sor	15/06/ 2016	ME	Operatio ns & Supply Chain Manage ment	Y	Regular
1	Dr.Vasanth a Kumar	Ph.D	NIT- Thiru china	2017	Perm anent	Associ ate Prof.	26-07- 17	ME	Lean Manufa cturing	Y	Regular

Table 5.2.4 Faculty Information Faculty Cadre Proportion Academic Year2017-2018

2	Privabrata	PhD	Iadha	22-03-	Perm	Associ	16-07-	MF	Renewa		
2	Adhiltomy		Jauna	22-03-	anant	ata	10-07-	IVIL	hlo	V	Deculor
	Adhikary		vapur	2018	anem		1/		ble	I	Regular
			UV			Profes			Energy		
						sor			&		
									Turbom		
									achine,		
3	Yashad	M.Te		1984	Perm	Associ	25-07-	ME	Maintan		
	Kumar	ch			anent	ate	16		ance	Y	Regular
	Gaur	(PhD				Profes			Engg		U
	Guui					or			21188.		
		)				501					
4	Dr.	PhD	IIT	2007	Perm	Associ	28-01-	ME	Mechani		
	Krishnarao		Rom		anent	ate	2015		cal	v	Regular
			1		anem		2013			1	Regulai
	D Dhuri		bay			Profes			Enginee		
						sor			rıng		
5	Dr. Drobbu	որ	ПТ	1085	Dorm	Emorit	20.05	МЕ	Maahani		
5		FIID		1905	reim	Emerit	20-03-	IVIE		37	D 1
	Kumar G.P		Madr		anent	us	2016		cal	Y	Regular
			as			Profes			Enginee		
						sor			ring		
			~								
6	Dr.Vadivel	PhD	Saty	2013	Perm	Associ	28-01-	ME	Material		
			abha		anent	ate	2015		S	Y	Regular
			ma			Profes			Enginee		
			Univ			sor			ring		
			ersitv						U		
			crorey								
1	Amit	M.Te		2020	Perm	Assista	14.08.	ME	Mechani		
	Kumar	ch			anent	nt	06		cal	Y	Regular
	Goudar	•			anom	Profes	00		Enginee	-	Itoguiui
	Goudai					110105			L'ingiliee		
						sor			ring		
									Science		
2	Sringth M	МТа	VTI	2010	Dom	Accieta	25.07	ME	aurface		
2	STITIAUT IVI	1v1.1e	VIU	2019	renn	Assista	23-07-	IVIE	surface	17	
	К	ch			anent	nt	2011		engineer	Y	Regular
						Profes			ing		
						sor					
3	Nagendra J	M.Te	VTU	30-10-	Perm	Assista	25-07-	ME	Mechani		
		ch		19	anent	nt	2011		cal	Y	Regular
						Profes			Enginee		
1						sor			ring		
									Science		
1									Serence		

4	Maniunath	M.Te	VTU	2019	Perm	Assista	31-07-	ME	Nanoco		
	a G	ch			anent	nt	2017		mposite	Y	Regular
		•			anom	Profes	_01/		s Manuf	-	rteguiui
						sor			acturing		
						501			Soionoo		
									æ E		
									Enginee		
									rıng		
5	Hemanth	M.Te	VTU	2010	Perm	Assista	26-07-	ME	Design		
	Raju	ch			anent	nt	2010		Enginee	Y	Regular
	5	(PhD				Profes			ring		e
		ò				sor (2)			U		
		/									
6	Raghu	ME,		38473	Perm	Sr.	26-07-	ME	Comput		
	Tilak	(PhD			anent	Assista	2010		er	Y	Regular
	Reddy	)				nt			Integrat		
	Maramredd					Profes			ed		
	У					sor			Manufa		
									cturing		
7	Maniach P	МТо	VTU	2015	Dorm	<u>C</u> r	16.08	ME	Thormal		
<i>′</i>	Manjesh D	oh	VIU	2013	onont	SI. Accisto	2010	IVIL	nowor	$\mathbf{v}$	Dogular
	C				anem	nt	2010		power Enginge	1	Regulai
		v 10.				III Ductor			Linginee		
						Profes			ring		
						sor					
8	Shivapraka	M.Te	VTU	2010	Perm	Sr.	25-07-	ME	Tool		
	sh S	ch,			anent	Assista	2011		Enginee	Y	Regular
		(Ph.				nt			ring		e
		D)				Profes			U		
		/				sor					
9	Ravikumar	ME	Bang	2009	Perm	Sr.	25-07-	ME	Thermal		_
	M.	(PhD	alore		anent	Assista	2011		Sciences	Y	Regular
		)	UV			nt					
						Profes					
						sor					
10	Hanamant	МТо	VTI	2011	Perm	Sr	25-07	MF	Machino		
10	Varaqudri	cb	VIU	2011	anont	Accieto	2010	IVIL	Design	v	Romlar
					anent	rt ssisia	2012		Design	I	Regulat
						III Due C					
						Profes					
						sor					

		r							-		
11	Nagabhush ana Narasappa	M.Te ch, (PhD )	VTU	2008	Perm anent	Sr. Assista nt Profes sor	25-07- 2012	ME	Manufa cturing	Y	Regular
12	Sudarshan T A	M.Te ch, (Ph. D)	Bang alore UV	2012	Perm anent	Sr. Assista nt Profes sor	25-07- 2012	ME	Thermal Science and Enginee ring	Y	Regular
13	Veeresha G	M.Te ch, (Ph. D)	VTU	2011	Perm anent	Sr. Assista nt Profes sor	25-07- 2012	ME	Machine design	Y	Regular
14	Chetan Kumar D S	M.Te ch (Ph. D)	VTU	2013	Perm anent	Sr. Assista nt Profes sor	24-07- 2013	ME	Machine design	Y	Regular
15	Santhosh A N	M.Te ch, (Ph. D)	VTU	2010	Perm anent	Sr. Assista nt Profes sor	25-07- 2016	ME	Tool Enginee ring	Y	Regular
16	Bopanna . K. D	M.Te ch, (Ph. D)	VTU	2011	Perm anent	Assista nt Profes sor (2)	25-07- 2012	ME	Comput er Integrat ed Manufa cturing	Y	Regular
17	Puneeth H V	M.Te ch, (Ph. D)	VTU	2011	Perm anent	Assista nt Profes sor (2)	25-07- 2012	ME	Tool Enginee ring	Y	Regular
18	Rajesh A	M Tech	VTU	2012	Perm anent	Assista nt Prof(2)	24-07- 2013	ME	Aeronau tical engg	Y	Regular

19	Sujeeth Swami	M.Te ch	VTU	2014	Perm anent	Assista nt Profes sor (2)	21-07- 2014	ME	Comput er Integrat ed	Y	Regular
									Manufa cturing		
20	Ronald Reagon R	Mtec h	SSA HE- Tum akuru	2014	Perm anent	Assista nt Profes sor (2)	21-07- 2014	ME	Thermal Power Engg	Y	Regular
21	Madhusuda n K	M.Te ch	VTU	2013	Perm anent	Assista nt Profes sor (2)	21-07- 2014	ME	Manufa cturing Science & Enginee ring	Y	Regular
22	Kemparaju C R	M.Te ch	SSA HE- Tum akuru	2013	Perm anent	Assista nt Profes sor (2)	21-07- 2014	ME	Thermal Power Engg	Y	Regular
23	Pavan Prabhakar Kadole	M.Te ch	VTU	2013	Perm anent	Assista nt Profes sor (2)	20-07- 2015	ME	Machine Design	Y	Regular
24	Karthik S N	M.E( Ph.D )	Bang alore UV	2013	Perm anent	Assista nt Profes sor (2)	25-07- 2016	ME	Advanc ed Material Technol ogy	Y	Regular
25	Megha Shukla	M.Te ch	VTU	2016	Perm anent	Assista nt Profes sor (2)	25-07- 2016	ME	Machine design	Y	Regular
26	Kamalasish Deb	M.Te ch	NITS Silch ar	2012	Perm anent	Assista nt Prof (2)	17-07- 2013	ME	Thermal Enginee ring	Y	Regular
27	Vinod	M.Te ch,(P	NIT- Trich	2011	Perm	Assista nt	23-01-	ME	Material s	Y	Regular

	Kumar G S	h.D)	У		anent	Profes sor (2)	2017		science & Engg		
28	Vinayak Prakash Balehittal	M.Te ch	VTU	2016	Perm anent	Assista nt Profes sor (2)	23-01- 2017	ME	Prouct design and manufac tuirng	Y	Regular
29	Lakshmana Naik	M.Te ch	VTU	2014	Perm anent	Assista nt Profes sor (2)	28-07- 2016	ME	Thermal Enginee ring	Y	Regular
30	Lakshmina rasimha N	M.T ECH	VTU	2015	Perm anent	Assista nt Profes sor (2)	26-07- 2017	ME	Thermal Power Enginee ring	Y	Regular
31	Naresh K S	M.Te ch (Ph. D)	VTU	2013	Perm anent	Assista nt Profes sor (2)	.17-07- 2013	ME	Machine design	Y	Regular
32	Deepthi K.R.	M.Te ch	VTU	2014	Perm anent	Asst. Prof.	21-07- 2014	ME	Aeronau tical engineer ing	Y	Regular
33	Vinay D R	M.Te ch	VTU	2013	Perm anent	Assista nt Profes sor (2)	02-08- 2017	ME	Design Enginee ring	Y	Regular

# **5.3 Faculty Qualification**

FQ = 2.0 x [(10X + 6Y)/F)] where x is no. of regular faculty with Ph.D., Y is no. of regular faculty with M.Tech. F is no. of regular faculty required to comply 1:20 Faculty Student ratio (no. of faculty and no. of students required are to be calculated as per 5.1)

 Table 5.3.1 Faculty Information Faculty Qualification

	X	Y	F	FQ = 2 x [(10X + 4Y) / F)]
2019-20(CAY)	17	28	33.00	17.09
2018-19(CAYm1)	10	36	34.00	14.35
2017-18(CAYm2)	11	35	34.00	14.71

Average Assessment: 15.38

Average SFR for three assessment years : 14.81 Assessment SFR : 20

	the	Qual	lificati	on	uo	ion	Je	ent	ati	, pa	uo
SI.No	Name of Faculty Member	Degree (highest	Universi tv	Year of	Associati with the	Designat	Date of Joining th	Departme	Specializ on	Currently Associate	Nature of Associati
1	Dr.	PhD	VTU	2010	Perm	Professo	25.08	Μ	Lean		Regular
	Manjunath				anent	r &	.03	Е	Manufactur	Y	
	а					Principa			ing		
						1					
2	Dr. Ganesh	PhD	VTU	2011	Perm	Professo	08-	ME	Mechanical	Y	Regular
	Prasad M S				anent	r &	08-		Engineerin		
						Dean	2011		g Science		
3	Dr.	PhD		2001	Perm	Professo	14-	ME	Industrial	Y	Regular
	GopalaKris				anent	r &	02-		Engineerin		
	hnan					Dean	2009		g		
	Kanapathy					R&D					
4	Dr.	PhD	Anna	2010	Perm	Professo	23-	ME	Mechanical	Y	Regular
	Viswanath		UV		anent	r	01-		Sciences		
	Bellie						2017				
5	Dr.	PhD	Jadha	22-03-	Perm	Professo	17-	ME	Renewable	Y	Regular
	Priyabrata		vapur	2018	anent	r	07-		Energy &		
	Adhikary		UV				2017		Turbomach		
									ine, RAC,		
									FM		
6	Dr.Vasanth	PhD	NIT-	2017	Perm	Professo	26-	ME	Lean	Y	Regular
	a Kumar		Thiru		anent	r	07-		Manufactur		
			china				2017		ing		

<b>N1</b>	0	20	
<b>U</b>	7	-20	

7	Dr. Amit Kumar Goudar	PhD	VTU	2020	Perm anent	Associat e Prof.	14.08 .06	ME	Mechanical Engineerin g Science	Y	Regular
8	Dr. Srinath M K	PhD	VTU	2019	Perm anent	Associat e Professo r	25- 07- 2011	ME	surface engineerin g	Y	Regular
9	Dr. Nagendra J	PhD	VTU	30-10- 19	Perm anent	Associat e Professo r	25- 07- 2011	ME	Mechanical Engineerin g Science	Y	Regular
10	Dr. Manjunath a G	Ph.D	VTU	2019	Perm anent	Associat e Professo r	31- 07- 2017	ME	Nanocomp osites,Man ufacturing Science & Engineerin g	Y	Regular
11	Dr. Ashok Kumar	PhD	IIT- Delhi	2019	Perm anent	Associat e Professo r	27- 08- 2018	ME	Alternative fuels and greenhouse gas	Y	Regular
12	Dr. Sujin Jose	PhD	Anna U V	2018	Perm anent	Associat e Professo r	27- 08- 2018	ME	Engg. Materials	Y	Regular
13	Dr. Gopal K	Ph.D	Anna malai	28.09. 2018	Perm anent	Associat e Professo r	19- 08- 2018	ME	I.C.engines ,Combustio n, Alternative Fuels	Y	Regular
14	Dr.Venugo pal S	PhD		2019	Perm anent	Associat e Professo r	16- 07- 2018	ME	Materials science & Engg	Y	Regular
15	Dr.Selvam M	PhD	Anna malai	2018	Perm anent	Associat e Professo r	16- 07- 2018	ME	Mechanical Engineerin g	Y	Regular
16	Dr.Hemant h Raju	PhD	VTU	2019	Perm anent	Associat e Professo r	26- 07- 2010	ME	Design Engineerin g	Y	Regular

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17	Dr.Aditi	Ph.D		2019	Perm	Asst.	29/07	ME	Mechanical	Y	Regular
	Rai	-IIT			anent	Prof.	/2019			_	
	i tuj	Patna			unont	1011	2017				
1	Raghu	ME		01-05-	Perm	Sr	26-	ME	Computer	Y	Regular
1	Tilak	IVIL		2005	anent	Assistan	07-		Integrated	1	Regulai
	Poddy			2005	anent	1 13513tall	2010		Manufactur		
	Moromrodd					r Drofosso	2010		ing		
						r 1016550			ing		
-	y Maniaala D	MT		0015	D	r C	16	ME	TT1	V	D1
2	Manjesh B	M. 1e	VIU	2015	Perm	Sr.	10-	ME	Inermal	Y	Regular
	C	ch			anent	Assistan	08-		power		
						t	2010		Engineerin		
						Professo			g		
						r					
3	Shivapraka	M.Te	VTU	2010	Perm	Sr.	25-	ME	Tool	Y	Regular
	sh S	ch,			anent	Assistan	07-		Engineerin		
		(Ph.				t	2011		g		
		D)				Professo					
						r					
4	Ravikumar	ME	Bang	2009	Perm	Sr.	25-	ME	Thermal	Y	Regular
	M.	(PhD	alore		anent	Assistan	07-		Sciences		_
		)	UV			t	2011				
						Professo					
						r					
5	Hanamant	M.Te	VTU	2011	Perm	Sr.	25-	ME	machine	Y	Regular
	Yaragudri	ch			anent	Assistan	07-		design	_	
	1 uruguuri	•			unont	t	2012		acoign		
						r Professo	2012				
						r 1010350					
6	Nagabhuch	МТо	VTI	2008	Dorm	r Sr	25	ME	Manufactur	v	Dogular
0	inagaonusn	wi.ic	VIU	2008	reilli	SI.	23-	IVIL:	ing	1	Regulai
		CII,			anem	Assistan	07-		ing		
	Narasappa	(PnD				t D C	2012				
		)				Professo					
	a 1 -			0015	<u> </u>	r	25			• •	
7	Sudarshan	M.Te	Bang	2012	Perm	Sr.	25-	ME	Thermal	Y	Regular
	ΓА	ch,	alore		anent	Assistan	07-		Science		
		(Ph.	UV			t	2012		and		
		D)				Professo			Engineerin		
						r			g		
8	Veeresha	M.Te	VTU	2011	Perm	Sr.	25-	ME	Machine	Y	Regular
	G	ch,			anent	Assistan	07-		design		
		(Ph.				t Prof.	2012				
		D)									

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U.	ĽŸ	-20	

9	Chetan	М Те	VTU	2013	Perm	Sr	24-	ME	Machine	Y	Regular
	Kumar D S	ch	, 10	2013	anent	Accistan	07-		design	1	regulai
		(Ph			unont	t 15515tall	2013		design		
		(1 II. D)				Professo	2015				
		D)				r 1010350					
10	Courth only A	МТа		2010	Dama	1 C	25	МЕ	Taal	V	Decular
10	Santnosh A	M. 1e	VIU	2010	Perm	Sr.	23-	ME		I	Regular
	N	ch,			anent	Assistan	0/-		Engineerin		
		(Ph.				t	2016		g		
		D)				Professo					
						r					
11	Bopanna .	M.Te	VTU	2011	Perm	Assistan	25-	ME	Computer	Y	Regular
	K. D	ch,			anent	t	07-		Integrated		
		(Ph.				Professo	2012		Manufactur		
		D)				r (2)			ing		
12	Puneeth H	M.Te	VTU	2011	Perm	Assistan	25-	ME	Tool	Y	Regular
	V	ch,			anent	t	07-		Engineerin		
		(Ph.				Professo	2012		g		
		D)				r (2)					
13	Rajesh A	M	VTU	2012	Perm	Assistan	24-	ME	Aeronautic	Y	Regular
	5	Tech			anent	t	07-		al		C
						Professo	2013		engineerin		
						r (2)	_010		σ		
14	Suieeth	М Те	VTU	2014	Perm	Assistan	21-	ME	s Computer	Y	Regular
	Swami	ch			anent	t	07-		Integrated	-	rtogunui
	o wann	011			unent	r Professo	2014		Manufactur		
						r(2)	2017		ing		
15	Donald	Mtaa	66 A	2014	Dorm	I (2) Acciston	21	МЕ	IIIg Thormol	v	Dogular
15	Rollalu Deseen D	IVILEC	SSA	2014	Perm		21-	IVIE	Dowon	I	Regulai
	Reagon R	n	HE-		anent	t D C	07-		Power		
			Tum			Professo	2014		Engg		
			akuru			r (2)					
16	Madhusuda	M.Te	VTU	2013	Perm	Assistan	21-	ME	Manufactur	Y	Regular
	n K	ch			anent	t	07-		ing Science		
						Professo	2014		&		
						r (2)			Engineerin		
									g		
17	Kemparaju	M.Te	SSA	2013	Perm	Assistan	21-	ME	Thermal	Y	Regular
	C R	ch	HE-		anent	t	07-		Power		
			Tum			Professo	2014		Engg		
			akuru			r (2)					
10					1				1		
18	Pavan	M.Te	VTU	2013	Perm	Assistan	20-	ME	Machine	Y	Regular
18	Pavan Prabhakar	M.Te ch	VTU	2013	Perm anent	Assistan t Prof.	20- 07-	ME	Machine Design	Y	Regular

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19	Karthik S	M.E(	Bang	2013	Perm	Assistan	25-	ME	Advanced	Y	Regular
	Ν	Ph.D	alore		anent	t	07-		Material		
		)	UV			Professo	2016		Technolog		
						r (2)			У		
20	Megha	M.Te	VTU	2016	Perm	Assistan	25-	ME	Machine	Y	Regular
	Shukla	ch			anent	t	07-		design		
						Professo	2016				
						r (2)					
21	Kamalasish	M.Te	NITS	2012	Perm	Assistan	17-	ME	Thermal	Y	Regular
	Deb	ch	-		anent	t	07-		Engineerin		
			Silch			Professo	2013		g		
			ar			r (2)					
22	Vinod	M.Te	NIT-	2011	Perm	Assistan	23-	ME	Materials	Y	Regular
	Kumar G S	ch,(P	Trich		anent	t	01-		science &		
		h.D)	у			Professo	2017		Engg		
						r (2)					
23	Vinayak	M.Te	VTU	2016	Perm	Assistan	23-	ME	Prouct	Y	Regular
	Prakash	ch			anent	t	01-		design and		
	Balehittal					Professo	2017		manufactui		
						r (2)			rng		
24	Deepthi	M.Te	VTU	2014	Perm	Asst.	21-	ME	Aeronautic	Y	Regular
	K.R.	ch			anent	Prof.	07-		al		
		(Ph.					2014		engineerin		
		D)							g		
25	Lakshmina	M.T	VTU	2015	Perm	Assistan	26-	ME	Thermal	Y	Regular
	rasimha N	ECH			anent	t	07-		Engineerin		
						Professo	2017		g		
						r (2)					
26	Nithin	M.Te	VTU	2017	Perm	Asst.	16/07	ME	Computer	Y	Regular
		ch			anent	Prof.	/2018		Integrated		
									Manufactur		
									ing		
27	Naresh K S	M.Te	VTU	2013	Perm	Assistan	17/07	ME	Machine	Y	Regular
		ch			anent	t	/2013		design		
		(Ph.				Professo					
		D)				r (2)					
28	Vinay D R	M.Te	VTU	2013	Perm	Assistan	02/08	ME	Design	Y	Regular
		ch			anent	t Prof.	/2017		Engineerin		
						(2)			g		
		Qual	lificati	on							
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	Z Name of the Faculty Member	Degree (highest degree)	University	Year of Attaining Higher Qualification	Association with the Institution	Designation	Date of Joining the Institution	Department	Specialization	Currently Associated	Nature of Association
1	Manjunath a			2010	anent	r & Principa l	.03	ME	Manufactur ing	Y	Regular
2	Dr. Ganesh Prasad M S	PhD	VTU	2011	Perm anent	Professo r & Dean	08- 08- 2011	ME	Mechanical Engineerin g Science	Y	Regular
3	Dr. GopalaKris hnan Kanapathy	PhD		2001	Perm anent	Professo r & Dean R&D	14- 02- 2009	ME	Industrial engnieerin g	Y	Regular
4	Dr. Viswanath Bellie	PhD	Anna UV	2010	Perm anent	Professo r	23- 01- 2017	ME	Mechanical Sciences	Y	Regular
5	Dr. Prabhakar Kammar	PhD		2013	Perm anent	Professo r	14.02 .09	ME	Material Science	Y	Regular
6	Dr. Priyabrata Adhikary	PhD	Jadha vapur UV	22-03- 2018	Perm anent	Professo r	16- 07- 2017	ME	Renewable Energy & Turbomach ine, RAC, FM	Y	Regular
7	Dr.Vasanth a Kumar	Ph.D	NIT- Thiru china palli	2017	Perm anent	Associat e Professo r	26- 07- 2017	ME	Lean Manufactur ing	Y	Regular
8	Dr.Venugo pal S	PhD	Saty abha ma UV	2019	Perm anent	Associat e Professo r	16- 07- 2018	ME	Materials science & Engg	Y	Regular
9	Dr.Selvam M	PhD	Ann amali UV	2018	Perm anent	Associat e Prof.	16- 07- 2018	ME	Mechanical Engineerin g	Y	Regular

Table 5.3.3 Facult	v Information	Faculty O	Jualification	Academic	Vear 2018-2019
Table 5.5.5 Facult	y million mation	Faculty Q	zuanneauon	Acauchic	1 cai 2010-2017

10	Dr.Kumar	PhD	Ann amali UV	2013	Perm anent	Associat e Professo r	22- 01- 2018	ME	Mechanical Engineerin g	Y	Regular
11	Dr. Ashok Kumar	PhD	IIT- Delhi	2019	Perm anent	Associat e Professo r	27- 08- 2018	ME	Alternative fuels and greenhouse gas	Y	Regular
12	Dr. Sujin Jose	PhD	Anna U V	2018	Perm anent	Associat e Professo r	12- 11- 2018	ME	Engg. Materials	Y	Regular
13	Dr. Gopal K	Ph.D	Anna malai	28.09. 2018	Perm anent	Associat e Professo r	19- 08- 2017	ME	I.C.engines , Combustio n, Alternative Fuels,	Y	Regular
14	Amit Kumar Goudar	PhD		2020	Perm anent	Associat e Professo r	14.08 .06	ME	Mechanical Engineerin g Science	Y	Regular
15	Srinath M K	PhD	VTU	2019	Perm anent	Assistan t Professo r	25- 07- 2011	ME	surface engineerin g	Y	Regular
16	Nagendra J	PhD	VTU	30-10- 19	Perm anent	Assistan t Professo r	25- 07- 2011	ME	Mechanical Engineerin g Science	Y	Regular
17	Manjunath a G	Ph.D	VTU	2019	Perm anent	Assistan t Professo r	31- 07- 2017	ME	Nanocomp osites,Man ufacturing Science & Engineerin g	Y	Regular
1	Yashad Kumar Gaur	M.Te ch (PhD )		1984	Perm anent	Associat e Professo r	25- 07- 2016	ME	Maintanan ce Engg.	Y	Regular
2	Raghu Tilak	ME, (PhD		01-05- 2005	Perm anent	Sr. Assistan	26- 07-	ME	Computer Integrated	Y	Regular

	Reddy	)				t	2010		Manufactur		
	Maramredd					Professo			ing		
	V					r			C		
3	Manjesh B C	M.Te ch	VTU	2015	Perm anent	Sr. Assistan t Professo	16- 08- 2010	ME	Thermal power Engineerin g	Y	Regular
						r					
4	Shivapraka sh S	M.Te ch, (Ph. D)	VTU	2010	Perm anent	Sr. Assistan t Professo r	25- 07- 2011	ME	Tool Engineerin g	Y	Regular
5	Ravikumar	ME	Bang	2009	Perm	Sr.	25-	ME	Thermal		
	M.	(PhD )	alore UV		anent	Assistan t Professo r	07- 2011		Sciences	Y	Regular
6	Hanamant Yaragudri	M.Te ch	VTU	2011	Perm anent	Sr. Assistan t Professo r	25- 07- 2012	ME	machine design	Y	Regular
7	Nagabhush ana Narasappa	M.Te ch, (PhD )	VTU	2008	Perm anent	Sr. Assistan t Professo r	25- 07- 2012	ME	Manufactur ing	Y	Regular
8	Sudarshan T A	M.Te ch, (Ph. D)	Bang alore UV	2012	Perm anent	Sr. Assistan t Professo r	25- 07- 2012	ME	Thermal Science and Engineerin g	Y	Regular
9	Veeresha G	M.Te ch, (Ph. D)	VTU	2011	Perm anent	Sr. Assistan t Professo r	25- 07- 2012	ME	Machine design	Y	Regular
10	Chetan Kumar D S	M.Te ch (Ph. D)	VTU	2013	Perm anent	Sr. Assistan t Prof.	24- 07- 2013	ME	Machine design	Y	Regular

Nch, (Ph. D)anentAssistan07- tEngineerinYRegular12Bopanna . K. DM.TeVTU2011PermAssistan25- anentMEComputer IntegratedYRegular12Bopanna . (Ph. D)M.TeVTU2011PermAssistan25- anentMEComputer IntegratedYRegular13Puneeth H VM.TeVTU2011PermAssistan25- anentMETool EngineerinYRegular13Puneeth H (Ph. D)V2011PermAssistan25- r (2)METool EngineerinYRegular13Puneeth H (Ph. D)V2011PermAssistan25- r (2)METool EngineerinYRegular14Rajesh AMVTU2012PermAssistan24-MEAeronauticV
(Ph. D)(Ph. D)t2016 Professo rgI12 Bopanna . K. DM.Te VTU ch, D)2011Perm Assistan rAssistan O7- r25-ME Integrated Manufactur ingComputer YRegular13 Puneeth H V V (Ph. D)M.Te VTU Integrated Professo r2011Perm Assistan Professo 2012ME Integrated Integrated ingYRegular13 Puneeth H V (Ph. D)M.Te VTU Integrated Professo Integrated Integrat
D)D)ProfessoProfesso12Bopanna .M.TeVTU2011PermAssistan25-MEComputer12Bopanna .M.TeVTU2011PermAssistan25-MEComputerK. Dch,nent07-IntegratedYRegular(Ph.Professo2012ProfessoMEComputerD)PermAssistan25-MEManufacturY13Puneeth HM.TeVTU2011PermAssistan25-Vch,PermAssistan25-METoolYVch,PermAssistan25-METoolVch,PermAssistan25-gYRegularD)PermAssistan25-METoolYRegular14Rajesh AMVTU2012PermAssistan24-MEAeronauticV
Image: space of the system o
12Bopanna .M.TeVTU2011PermAssistan25-MEComputerK. Dch,ch,anent07-IntegratedYRegular(Ph.Professo2012Manufacturing13D)DPermAssistan25-METoolVch,anent07-EngineerinYRegularVch,anent07-EngineerinYRegular13Puneeth HM.TeVTU2011PermAssistan25-METoolVch,Professo2012gProfesso2012gD)rProfesso2012gPermEngineerinY14Rajesh AMVTU2012PermAssistan24-MEAeronauticI
K. Dch, (Ph. D)anent t07- Professo 2012Integrated Manufactur ingYRegular13Puneeth HM.Te VTU2011PermAssistan25- anent tMETool Engineerin gYRegular13Puneeth HM.Te VTU2011PermAssistan25- anent tMETool gYRegular14Rajesh AMVTU2012PermAssistan24-MEAeronauticY
(Ph. D)Professo<2012Manufactur ing13Puneeth HM.Te VTU2011PermAssistan25-METoolVch, (Ph. D)anentt07-Engineerin gYRegular14Rajesh AMVTU2012PermAssistan24-MEAeronautic
D)r (2)ingr13Puneeth HM.Te VTU2011PermAssistan25-METoolVch,anent07-EngineerinYRegular(Ph.Professo2012g14Rajesh AMVTU2012PermAssistan24-MEAeronauticI
13       Puneeth H       M.Te       VTU       2011       Perm       Assistan       25-       ME       Tool       Engineerin       Y       Regular         V       ch, (Ph.       Professo       2012       professo       2012       g       Y       Regular         14       Rajesh A       M       VTU       2012       Perm       Assistan       24-       ME       Aeronautic       Image: Constraint of the second seco
Vch, (Ph. D)anent t07- ProfessoEngineerin 
(Ph. D)Professo<2012 r (2)g14 Rajesh AMVTU2012PermAssistan24-MEAeronautic
D)r (2)14 Rajesh AMVTU 2012Perm Assistan 24-MEAeronautic
14 Rajesh A M VTU 2012 Perm Assistan 24- ME Aeronautic
Tech anent 07- al Y Regular
Professo 2013 engineerin
r (2) g
15 Sujeeth M.TeVTU 2014 Perm Assistan 21- ME Computer
Swami ch anent t 07- Integrated Y Regular
Professo 2014 Manufactur
r (2) ing
16 Ronald Mtec SSA 2014 Perm Assistan 21- ME Thermal
Reagon R h HE- anent t 07- Power Y Regular
Tum Professo 2014 Engg
akuru r (2)
17 Madhusuda M.TeVTU 2013 Perm Assistan 21- ME Manufactur
n K ch anent 07- ing Science Y Regular
Professo 2014 &
r (2) Engineerin
g
18 Kemparaju M.TeSSA 2013 Perm Assistan 21- ME Thermal
C R ch HE- anent t 07- Power Y Regular
Tum Professo 2014 Engg
akuru r (2)
19 Pavan M.TeVTU 2013 Perm Assistan 20- ME Machine
Prabhakar ch anent 07- Design Y Regular
Kadole Professo 2015
r (2)
20 Karthik S M.E( Bang 2013 Perm Assistan 25- ME Advanced
N Ph.D alore anent 07- Material Y Regular
UV Professo 2016 Technolog
r (2)

21	Megha	M.Te	VTU	2016	Perm	Assistan	25-	ME	Machine		
	Shukla	ch			anent	t	07-		design	Y	Regular
						Professo	2016				
						r (2)					
22	Kamalasish	M.Te	NITS	2012	Perm	Assistan	17-	ME	Thermal		
	Deb	ch	-		anent	t	07-		Engineerin	Y	Regular
			Silch			Professo	2013		g		
			ar			r (2)					
23	Vinod	M.Te	NIT-	2011	Perm	Assistan	23-	ME	Materials		
	Kumar G S	ch,(P	Trich		anent	t	01-		science &	Y	Regular
		h.D)	У			Professo	2017		Engg		
						r (2)					
24	Vinayak	M.Te	VTU	2016	Perm	Assistan	23-	ME	Prouct		
	Prakash	ch			anent	t	01-		design and	Y	Regular
	Balehittal					Professo	2017		manufactui		
						r (2)			rng		
25	Deepthi	M.Te	VTU	2014	Perm	Asst.	21-	ME	Aeronautic		
	K.R.	ch			anent	Prof.	07-		al	Y	Regular
		(Ph.					2014		engineerin		
		D)							g		
26	Lakshmina	M.T	VTU	2015	Perm	Assistan	26-	ME	Thermal		
	rasimha N	ECH			anent	t	07-		Engineerin	Y	Regular
						Professo	2017		g		
						r (2)					
27	Nithin	M.Te	VTU	2017	Perm	Asst.	16-	ME	Computer		
		ch			anent	Prof.	07-		Integrated	Y	Regular
							2018		Manufactur		
									ing		
28	Naresh K S	M.Te	VTU	2013	Perm	Assistan	17-	ME	Machine		
		ch			anent	t	07-		design	Y	Regular
		(Ph.				Professo	2013				
		D)				r (2)					
29	Hemanth	M.Te	VTU	2010	Perm	Assistan	26-	ME	Design		
1	Raju	ch			anent	t	07-		Engineerin	Y	Regular
1		(PhD				Professo	2010		g		
		)				r (2)					

		Qual	ificati	on							
S1.No	Name of the Faculty Member	Degree (highest degree)	University	Year of Attaining Higher	Association with the Institution	Designation	Date of Joining the Institution	Department	Specialization	Currently Associated	Nature of Association
1	Dr.	PhD		2010	Per	Professo	25.08		Lean		
	Manjunath a				man ent	r & Principa 1	.03	ME	Manufactur ing	Y	Regular
2	Dr. Ganesh Prasad M S	PhD	VTU	2011	Perm anent	Professo r & Dean	08- 08- 2011	ME	Mechanical Engineerin g Science	Y	Regular
3	Dr. GopalaKri shnan Kanapathy	PhD		2001	Perm anent	Professo r & Dean R&D	14- 02- 2009	ME	Industrial engnieerin g	Y	Regular
4	Dr. Viswanath Bellie	PhD	Anna UV	2010	Perm anent	Professo r	23- 01- 2017	ME	Mechanical Sciences	Y	Regular
5	Dr. Prabhakar Kammar	PhD		2013	Perm anent	Professo r	14.02 .09	ME	Material Science	Y	Regular
6	Dr. Pradeep K S	PhD	IISc	2011	Perm anent	Professo r	24/07 /13	ME	Aerospace Engg.	Y	Regular
7	Dr. B. Vittaladas aPrabhu	Ph.D			Perm anent	Associat e Professo r	15/06 /2016	ME	Operations & Supply Chain Manageme nt	Y	Regular
8	Dr.Vasant ha Kumar	Ph.D	NIT- Thiru	2017	Perm anent	Associat e	26- 07-	ME	Lean Manufactur	Y	Regular

 Table 5.3.4 Faculty Information Faculty Qualification Academic Year 2017-2018

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20	19	-20	)

			china			Professo	17		ing		
			palli			r					
9	Priyabrata Adhikary	PhD	Jadha vapur UV	22-03- 2018	Perm anent	Associat e Professo r	16- 07- 17	ME	Renewable Energy & Turbomach ine	Y	Regular
10	Dr. Krishnara o D Dhuri	PhD	IIT Bom bay	2007	Perm anent	Associat e Professo r	28- 01- 2015	ME	Mechanical Engineerin g	Y	Regular
11	Dr. Prabhu Kumar G.P	PhD	IIT Madr as	1985	Perm anent	Emeritu s Professo r	20- 05- 2016	ME	Mechanical Engineerin g	Y	Regular
12	Dr.Vadive 1	PhD	Saty abha ma Univ ersity	2013	Perm anent	Associat e Professo r	28- 01- 2015	ME	Materials Engineerin g	Y	Regular
1	Yashad Kumar Gaur	M.Te ch (PhD )		1984	Perm anent	Associat e Professo r	25- 07- 16	ME	Maintanan ce Engg.	Y	Regular
2	Amit Kumar Goudar	M.Te ch		2020	Perm anent	Assistan t Professo r	14.08 .06	ME	Mechanical Engineerin g Science	Y	Regular
3	Srinath M K	M.Te ch	VTU	2019	Perm anent	Assistan t Professo r	25- 07- 2011	ME	surface engineerin g	Y	Regular
4	Nagendra J	M.Te ch	VTU	30-10- 19	Perm anent	Assistan t Professo r	25- 07- 2011	ME	Mechanical Engineerin g Science	Y	Regular
5	Manjunath	M.Te	VTU	2019	Perm	Assistan t	31- 07-	ME	Nanocomp osites,Man	Y	Regular

	a G	ch			anent	Professo r	2017		ufacturing Science & Engineerin g		
6	Hemanth Raju	M.Te ch (PhD )	VTU	2010	Perm anent	Assistan t Professo r (2)	26- 07- 2010	ME	Design Engineerin g	Y	Regular
7	Raghu Tilak Reddy Maramred dy	ME, (PhD )		38473	Perm anent	Sr. Assistan t Professo r	26- 07- 2010	ME	Computer Integrated Manufactur ing	Y	Regular
8	Manjesh B C	M.Te ch VTU.	VTU	2015	Perm anent	Sr. Assistan t Professo r	16- 08- 2010	ME	Thermal power Engineerin g	Y	Regular
9	Shivaprak ash S	M.Te ch, (Ph. D)	VTU	2010	Perm anent	Sr. Assistan t Professo r	25- 07- 2011	ME	Tool Engineerin g	Y	Regular
10	Ravikuma r M.	ME (PhD )	Bang alore UV	2009	Perm anent	Sr. Assistan t Professo r	25- 07- 2011	ME	Thermal Sciences	Y	Regular
11	Hanamant Yaragudri	M.Te ch	VTU	2011	Perm anent	Sr. Assistan t Professo r	25- 07- 2012	ME	machine design	Y	Regular
12	Nagabhus hana Narasappa	M.Te ch, (PhD )	VTU	2008	Perm anent	Sr. Assistan t Professo r	25- 07- 2012	ME	Manufactur ing	Y	Regular

13	Sudarshan T A	M.Te ch, (Ph. D)	Bang alore UV	2012	Perm anent	Sr. Assistan t Professo r	25- 07- 2012	ME	Thermal Science and Engineerin g	Y	Regular
14	Veeresha G	M.Te ch, (Ph. D)	VTU	2011	Perm anent	Sr. Assistan t Professo r	25- 07- 2012	ME	Machine design	Y	Regular
15	Chetan Kumar D S	M.Te ch (Ph. D)	VTU	2013	Perm anent	Sr. Assistan t Professo r	24- 07- 2013	ME	Machine design	Y	Regular
16	Santhosh A N	M.Te ch, (Ph. D)	VTU	2010	Perm anent	Sr. Assistan t Professo r	25- 07- 2016	ME	Tool Engineerin g	Y	Regular
17	Bopanna . K. D	M.Te ch, (Ph. D)	VTU	2011	Perm anent	Assistan t Professo r (2)	25- 07- 2012	ME	Computer Integrated Manufactur ing	Y	Regular
18	Puneeth H V	M.Te ch, (Ph. D)	VTU	2011	Perm anent	Assistan t Professo r (2)	25- 07- 2012	ME	Tool Engineerin g	Y	Regular
19	Rajesh A	M Tech	VTU	2012	Perm anent	Assistan t Professo r (2)	24- 07- 2013	ME	Aeronautic al engineerin g	Y	Regular
20	Sujeeth Swami	M.Te ch	VTU	2014	Perm anent	Assistan t Professo r (2)	21- 07- 2014	ME	Computer Integrated Manufactur ing	Y	Regular
21	Ronald	Mtec	SSA HE-	2014	Perm	Assistan t	21- 07-	ME	Thermal Power	Y	Regular

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	Reagon R	h	Tum		anent	Professo	2014		Engg		
			akuru			r (2)					
22	Madhusud an K	M.Te ch	VTU	2013	Perm anent	Assistan t Professo r (2)	21- 07- 2014	ME	Manufactur ing Science & Engineerin g	Y	Regular
23	Kemparaj u C R	M.Te ch	SSA HE- Tum akuru	2013	Perm anent	Assistan t Professo r (2)	21- 07- 2014	ME	Thermal Power Engg	Y	Regular
24	Pavan Prabhakar Kadole	M.Te ch	VTU	2013	Perm anent	Assistan t Professo r (2)	20- 07- 2015	ME	Machine Design	Y	Regular
25	Karthik S N	M.E( Ph.D )	Bang alore UV	2013	Perm anent	Assistan t Professo r (2)	25- 07- 2016	ME	Advanced Material Technolog y	Y	Regular
26	Megha Shukla	M.Te ch	VTU	2016	Perm anent	Assistan t Professo r (2)	25- 07- 2016	ME	Machine design	Y	Regular
27	Kamalasis h Deb	M.Te ch	NITS - Silch ar	2012	Perm anent	Assistan t Professo r (2)	17- 07- 2013	ME	Thermal Engineerin g	Y	Regular
28	Vinod Kumar G S	M.Te ch,(P h.D)	NIT- Trich y	2011	Perm anent	Assistan t Professo r (2)	23- 01- 2017	ME	Materials science & Engg	Y	Regular
29	Vinayak Prakash Balehittal	M.Te ch	VTU	2016	Perm anent	Assistan t Professo r (2)	23- 01- 2017	ME	Prouct design and manufactui rng	Y	Regular
30	Lakshman	M.Te	VTU	2014	Perm	Assistan t	28- 07-	ME	Thermal Engineerin	Y	Regular

	a Naik	ch			anent	Professo r (2)	2016		g		
31	Lakshmin arasimha N	M.T ECH	VTU	2015	Perm anent	Assistan t Professo r (2)	26- 07- 2017	ME	Thermal Power Engineerin g	Y	Regular
32	Naresh K S	M.Te ch (Ph. D)	VTU	2013	Perm anent	Assistan t Professo r (2)	17- 07- 2013	ME	Machine design	Y	Regular
33	Deepthi K.R.	M.Te ch	VTU	2014	Perm anent	Asst. Prof.	21- 07- 2014	ME	Aeronautic al engineerin g	Y	Regular
34	Vinay D R	M.Te ch	VTU	2013	Perm anent	Assistan t Professo r (2)	0 <u>2</u> - 08- 2017	ME	Design Engineerin g	Y	Regular

# **5.4 Faculty Retention**

## **Table 5.4.1 Faculty Retention**

Description	2018-19 (CAYm1)	2019-20 (CAY)
No of Faculty Retained	40	38
Total No of Faculty	46	45
% of Faculty Retained	87	83

# Average: 85.00

Assessment Marks: 8.00

#### Table 5.4.2 Faculty Information Faculty Retention Academic Year 2019-2020

	lty	Qualification		the		e			ited		
SI.No	Name of the Facu Member	Degree (highest degree)	University	Year of Attaining	Association with Institution	Designation	Date of Joining th Institution	Department	Specialization	Currently Associa (Y/N)	Nature of Association
1	Dr.	PhD	VTU	2010	Perm	Prof. &	25-	Μ	Lean		Regular
	Manjunat				anent	Principa	08-	Е	Manufactur	Y	
	ha					1	03		ing		

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2	Dr.	PhD	VTU	2011	Perm	Professo	08-	ME	Mechanical	Y	Regular
	Ganesh Prasad M S				anent	r & Dean	08- 2011		Engineerin g Science	_	
3	Dr. GopalaKr ishnan Kanapath y	PhD		2001	Perm anent	Professo r & Dean R&D	14- 02- 2009	ME	Industrial Engineerin g	Y	Regular
4	Dr. Viswanat h Bellie	PhD	Anna UV	2010	Perm anent	Professo r	23- 01- 2017	ME	Mechanical Sciences	Y	Regular
5	Dr. Priyabrat a Adhikary	PhD	Jadha vapur UV	22-03- 2018	Perm anent	Professo r	17- 07- 2017	ME	Renewable Energy & Turbomach ine, RAC, FM	Y	Regular
6	Dr.Vasant ha Kumar	PhD	NIT- Thiru china palli	2017	Perm anent	Professo r	26- 07- 2017	ME	Lean Manufactur ing	Y	Regular
7	Dr. Amit Kumar Goudar	PhD	VTU	2020	Perm anent	Associat e Prof.	14.08 .06	ME	Mechanical Engineerin g Science	Y	Regular
8	Dr. Srinath M K	PhD	VTU	2019	Perm anent	Associat e Professo r	25- 07- 2011	ME	surface engineerin g	Y	Regular
9	Dr. Nagendra J	PhD	VTU	30-10- 19	Perm anent	Associat e Professo r	25- 07- 2011	ME	Mechanical Engineerin g Science	Y	Regular
10	Dr. Manjunat ha G	Ph.D	VTU	2019	Perm anent	Associat e Professo r	31- 07- 2017	ME	Nanocomp osites,Man ufacturing Science & Engineerin	Y	Regular

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11	Dr.	PhD	IIT-	2019	Perm	Associat	27-	ME	Alternative	Y	Regular
	Ashok		Delhi		anent	e	08-		fuels and		
	Kumar					Professo	2018		greenhouse		
						r			gas		
12	Dr. Sujin	PhD	Anna	2018	Perm	Associat	27-	ME	Engg.	Y	Regular
	Jose		UV		anent	e	08-		Materials		C
						Professo	2018				
						r					
13	Dr. Gonal	Ph D	Anna	28.09	Perm	Associat	19-	ME	I C engines	Y	Regular
10	K	1 11.2	malai	2018	anent	e	08-			1	regulai
						- Professo	2018		, Combustio		
						r			n,		
									Alternative		
									Fuels,		
14	Dr.Venug	PhD		2019	Perm	Associat	16-	ME	Materials	Y	Regular
	opal S				anent	e	07-		science &		
	1					Professo	2018		Engg		
						r					
15	Dr.Selva	PhD	Anna	2018	Perm	Associat	16-	ME	Mechanical	Y	Regular
	m M		malai		anent	e	07-		Engineerin		
						Professo	2018		g		
						r					
16	Dr.Hema	PhD	VTU	2019	Perm	Associat	26-	ME	Design	Y	Regular
	nth Raju				anent	e	07-		Engineerin		
						Professo	2010		g		
						r					
17	Raghu	ME		01-05-	Perm	Sr.	26-	ME	Computer	Y	Regular
	Tilak			2005	anent	Assistan	07-		Integrated		-
	Reddy					t	2010		Manufactur		
	Maramre					Professo			ing		
	ddy					r					
18	Manjesh	M.Te	VTU	2015	Perm	Sr.	16-	ME	Thermal	Y	Regular
	ВČ	ch			anent	Assistan	08-		power		-
						t	2010		Engineerin		
						Professo			g		
						r					
19	Shivaprak	M.Te	VTU	2010	Perm	Sr.	25-	ME	Tool	Y	Regular
	I.	ch,				Assistan	07-		Engineerin		C

	ash S	(Ph.			anent	t	2011		g		
		D)				Professo r					
						1					
20	Ravikum ar M.	ME (PhD )	Bang alore UV	2009	Perm anent	Sr. Assistan t Professo r	25- 07- 2011	ME	Thermal Sciences	Y	Regular
21	Hanaman t Yaragudri	M.Te ch	VTU	2011	Perm anent	Sr. Assistan t Professo r	25- 07- 2012	ME	machine design	Y	Regular
22	Nagabhus hana Narasapp a	M.Te ch, (PhD )	VTU	2008	Perm anent	Sr. Assistan t Professo r	25- 07- 2012	ME	Manufactur ing	Y	Regular
23	Sudarsha n T A	M.Te ch, (Ph. D)	Bang alore UV	2012	Perm anent	Sr. Assistan t Professo r	25- 07- 2012	ME	Thermal Science and Engineerin g	Y	Regular
24	Veeresha G	M.Te ch, (Ph. D)	VTU	2011	Perm anent	Sr. Assistan t Professo r	25- 07- 2012	ME	Machine design	Y	Regular
25	Chetan Kumar D S	M.Te ch (Ph. D)	VTU	2013	Perm anent	Sr. Assistan t Professo r	24- 07- 2013	ME	Machine design	Y	Regular
26	Santhosh A N	M.Te ch, (Ph. D)	VTU	2010	Perm anent	Sr. Assistan t Professo r	25- 07- 2016	ME	Tool Engineerin g	Y	Regular

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<b>UI</b>	<b>y</b> .	-20	

27	Bopanna . K. D	M.Te ch, (Ph. D)	VTU	2011	Perm anent	Assistan t Professo r (2)	25- 07- 2012	ME	Computer Integrated Manufactur ing	Y	Regular
28	Puneeth H V	M.Te ch, (Ph. D)	VTU	2011	Perm anent	Assistan t Professo r (2)	25- 07- 2012	ME	Tool Engineerin g	Y	Regular
29	Rajesh A	M Tech	VTU	2012	Perm anent	Assistan t Professo r (2)	24- 07- 2013	ME	Aeronautic al engineerin g	Y	Regular
30	Sujeeth Swami	M.Te ch	VTU	2014	Perm anent	Assistan t Professo r (2)	21- 07- 2014	ME	Computer Integrated Manufactur ing	Y	Regular
31	Ronald Reagon R	Mtec h	SSA HE- Tum akuru	2014	Perm anent	Assistan t Professo r (2)	21- 07- 2014	ME	Thermal Power Engg	Y	Regular
32	Madhusu dan K	M.Te ch	VTU	2013	Perm anent	Assistan t Professo r (2)	21- 07- 2014	ME	Manufactur ing Science & Engineerin g	Y	Regular
33	Kemparaj u C R	M.Te ch	SSA HE- Tum akuru	2013	Perm anent	Assistan t Professo r (2)	21- 07- 2014	ME	Thermal Power Engg	Y	Regular
34	Pavan Prabhakar Kadole	M.Te ch	VTU	2013	Perm anent	Assistan t Professo r (2)	20- 07- 2015	ME	Machine Design	Y	Regular
35	Karthik S N	M.E( Ph.D )	Bang alore UV	2013	Perm anent	Assistan t Professo r (2)	25- 07- 2016	ME	Advanced Material Technolog y	Y	Regular

36	Megha	M.Te	VTU	2016	Perm	Assistan	25-	ME	Machine	Y	Regular
	Shukla	ch			anent	t	07-		design		_
						Professo	2016				
						r (2)					
27	<b>T</b> Z 1 '			2012	D		17		<b>T</b> T1 1	<b>N</b> 7	D 1
37	Kamalası	M.Te	NITS	2012	Perm	Assistan	17- 07	ME	Thermal	Y	Regular
	sh Deb	ch	-		anent	t	07-		Engineerin		
			Silch			Professo	2013		g		
			ar			r (2)					
38	Vinod	M.Te	NIT-	2011	Perm	Assistan	23-	ME	Materials	Y	Regular
	Kumar G	ch.(P	Trich		anent	t	01-		science &		C
	S	h.D)	v			Professo	2017		Engg		
		,	5			r (2)			00		
39	Vinayak	M.Te	VTU	2016	Perm	Assistan	23-	ME	Prouct	Y	Regular
	Prakash	ch			anent	t	01-		design and		
	Balehittal					Professo	2017		manufactui		
						r (2)			rng		
40	Deepthi	M.Te	VTU	2014	Perm	Asst	21-	ME	Aeronautic	Y	Regular
	K R	ch		-011	anent	Prof	07-		al	-	regulai
		(Ph			unone	1 1011	2014		engineerin		
		(1 II. D)					2011		ø		
		2)							Ð		
41	Lakshmin	M.T	VTU	2015	Perm	Assistan	26-	ME	Thermal	Y	Regular
	arasimha	ECH			anent	t	07-		Engineerin		
	Ν					Professo	2017		g		
						r (2)					
42	Nithin	МТа	VTI	2017	Dorm	Acct	16/07	МЕ	Computor	v	Dogular
42		wi. ie	VIU	2017	onont	Assi. Drof	/2019	IVIE	Integrated	I	Regulai
		CII			anem	F101.	/2018		Monufactur		
									ing		
									ing		
43	Dr.Aditi	Ph.D		2019	Perm	Asst.	29/07	ME	Mechanical	Y	Regular
	Raj	-IIT			anent	Prof.	/2019				_
		Patna									
	<b>b r -</b>		* ****	0.010	<b></b>		4 - 10 -			* *	
44	Naresh K	M.Te	VTU	2013	Perm	Assistan	17/07	ME	Machine	Y	Regular
	S	ch			anent	t Prof.	/2013		design		
		(Ph.				(2)					
		D)									
45	Vinav D	M.Te	VTI	2013	Perm	Assistan	02/08	ME	Design	Y	Regular
						t	5_,00		Engineerin	-	- toguiui
1	1	1	1	1		r		1	Engineerin	1	1

R	ch	an	ent	Professo	/2017	g	
				r (2)			

# Table 5.4.3 Faculty Information Faculty Retention

#### Academic Year 2018-2019

		Qua	lificati	ion			Je				
<sup>-</sup> SI.No	Name of the Faculty Member	بط Degree (highest degree) degree)	University	Vear of Attaining	Association with the Institution	Designation	Date of Joining tl Institution	Department	Specialization	Currently Associate	Nature of Association
1	Manjunat			2010	anent	r & Principa	08-	MF	Manufactur	Y	itegului
	114					1 1	2003	14112	IIIg		
2	Dr. Ganesh Prasad M S	PhD	VTU	2011	Perm anent	Professo r & Dean	08- 08- 2011	ME	Mechanical Engineerin g Science	Y	Regular
3	Dr. GopalaKr ishnan Kanapath y	PhD		2001	Perm anent	Professo r & Dean R&D	14- 02- 2009	ME	Industrial engnieerin g	Y	Regular
4	Dr. Viswanat h Bellie	PhD	Anna UV	2010	Perm anent	Professo r	23- 01- 2017	ME	Mechanical Sciences	Y	Regular
5	Dr. Prabhakar Kammar	PhD		2013	Perm anent	Professo r	14.02 .09	ME	Material Science	Y	Regular
6	Dr. Priyabrat a Adhikary	PhD	Jadha vapur UV	22-03- 2018	Perm anent	Professo r	16- 07- 2017	ME	Renewable Energy & Turbomach ine,	Y	Regular
7	Dr.Vasant ha Kumar	Ph.D	NIT- Thiru chin	2017	Perm anent	Associat e Prof.	26- 07- 2017	ME	Lean Manufactur ing	Y	Regular

8	Dr.Venug	PhD	Saty	2019	Perm	Associat	16-	ME	Materials		
	opal S		abha ma		anent	e Professo	07- 2018		science & Engg	Y	Regular
			UV			r					
9	Dr.Selva m M	PhD	Ann	2018	Perm	Associat	16- 07	ME	Mechanical Engineerin	v	Dogular
	111 1 <b>VI</b>		UV		anent	c Professo r	2018		g	1	Kegulai
10	Dr.Kumar	PhD	Ann	2013	Perm	Associat	22-	ME	Mechanical		
			amali UV		anent	e Professo r	01- 2018		Engineerin g	Y	Regular
11	D.			2010	D	н 	07		A 1/ /		
11	Dr. Ashok	PhD	IIT- Delhi	2019	Perm anent	Associat e	27- 08-	ME	fuels and	Y	Regular
	Kumar					Professo r	2018		greenhouse gas		
12	Dr. Sujin	PhD	Anna	2018	Perm	Associat	12-	ME	Engg.		
	Jose		UV		anent	e Professo r	11- 2018		Materials	Y	Regular
13	Dr. Gopal	Ph.D	Anna	28.09.	Perm	Associat	19-	ME	I.C.engines		
	К		malai	2018	anent	e Drofosso	08-		, Cambuatia	Y	Regular
						Protesso r	2017		n,		
									Alternative		
									Fuels, Optimizati		
									on,Thermal		
									Science,		
									Renewable energy,		
14	Yashad	M.Te		1984	Perm	Associat	25-	ME	Maintanan		
	Kumar Gaur	ch (PhD )			anent	e Professo r	07- 2016		ce Engg.	Y	Regular
15	Amit	PhD		2020	Perm	Associat	14.08	ME	Mechanical		
	Kumar Goudar				anent	e Prof.	.06		Engineerin g Science	Y	Regular

		<b>_</b>			L			L			-
16	Srinath M	PhD	VTU	2019	Perm	Assistan	25-	ME	surface		
	К				anent	t	07-		engineerin	Y	Regular
						Professo	2011		g		
						r					
17	Nagendra	PhD	VTU	30-10-	Perm	Assistan	25-	ME	Mechanical		
	J			19	anent	t	07-		Engineerin	Y	Regular
						Professo	2011		g Science		
						r					
1.0				• • • •							
18	Manjunat	Ph.D	VTU	2019	Perm	Assistan	31-	ME	Nanocomp		
	ha G				anent	t	07-		osites,Man	Y	Regular
						Professo	2017		ufacturing		
						r			Science &		
									Engineerin		
									g		
19	Raghu	ME,		01-05-	Perm	Sr.	26-	ME	Computer		
	Tilak	(PhD		2005	anent	Assistan	07-		Integrated	Y	Regular
	Reddy	)				t	2010		Manufactur		
	Maramre					Professo			ing		
	ddy					r					
	-										
20	Manjesh	M.Te	VTU	2015	Perm	Sr.	16-	ME	Thermal		
	ВC	ch			anent	Assistan	08-		power	Y	Regular
						t	2010		Engineerin		
						Professo			g		
						r					
0.1	G1 · 1			2010	<b></b>	a	27				
21	Shivaprak	M.Te	VTU	2010	Perm	Sr.	25-	ME			~ .
	ash S	ch,			anent	Assistan	07-		Engineerin	Y	Regular
		(Ph.				t	2011		g		
		D)				Professo					
						r					
22	Dovilar	ME	Done	2000	Dom	Sr.	25	МЕ	Thormal		
<u>L</u> L	Kavikuiii		Бапд	2009	Perm		23-	NIE		V	ר ח
	ar M.	(PnD	alore		anent	Assistan	0/-		Sciences	Ŷ	Regular
		)	Uν			t	2011				
						Protesso					
						r					
23	Hanaman	М Та	VTU	2011	Perm	Sr	25-	MF	machine		
25		uvi. 10	VIU	2011	onont	A agiston	07	11117	docion	v	Dogular
	ι				anem	Assistan	07-		ucsign	T	Regulat
	Voroand					t Drof	2012				

24	Nagabhus	M.Te	VTU	2008	Perm	Sr.	25-	ME	Manufactur		
	hana	ch,			anent	Assistan	07-		ing	Y	Regular
	Narasapp	(PhD				t	2012				
	а	)				Professo					
						r					
25	Sudarsha	M.Te	Bang	2012	Perm	Sr.	25-	ME	Thermal		
	n T A	ch,	alore		anent	Assistan	07-		Science	Y	Regular
		(Ph.	UV			t	2012		and		
		D)				Professo			Engineerin		
						r			g		
26	Veeresha	M.Te	VTU	2011	Perm	Sr.	25-	ME	Machine		
	G	ch,			anent	Assistan	07-		design	Y	Regular
		(Ph.				t	2012				
		D)				Professo					
						r					
27	Chetan	M.Te	VTU	2013	Perm	Sr.	24-	ME	Machine		
	Kumar D	ch			anent	Assistan	07-		design	Y	Regular
	S	(Ph.				t	2013				
		D)				Professo					
						r					
28	Santhosh	M.Te	VTU	2010	Perm	Sr.	25-	ME	Tool		
	A N	ch,			anent	Assistan	07-		Engineerin	Y	Regular
		(Ph.				t	2016		g		
		D)				Professo					
						r					
29	Bopanna .	M.Te	VTU	2011	Perm	Assistan	25-	ME	Computer		
	K. D	ch,			anent	t	07-		Integrated	Y	Regular
		(Ph.				Professo	2012		Manufactur		
		D)				r (2)			ing		
30	Puneeth	M.Te	VTU	2011	Perm	Assistan	25-	ME	Tool		
	нν	ch,			anent	t	07-		Engineerin	Y	Regular
		(Ph.				Professo	2012		g		-
		D)				r (2)					
31	Rajesh A	М	VTU	2012	Perm	Assistan	24-	ME	Aeronautic		
		Tech			anent	t	07-		al	Y	Regular
						Professo	2013		engineerin		2
						r (2)			g		

32	Sujeeth Swami	M.Te ch	VTU	2014	Perm anent	Assistan t Professo r (2)	21- 07- 2014	ME	Computer Integrated Manufactur ing	Y	Regular
33	Ronald Reagon R	Mtec h	SSA HE- Tum akuru	2014	Perm anent	Assistan t Professo r (2)	21- 07- 2014	ME	Thermal Power Engg	Y	Regular
34	Madhusu dan K	M.Te ch	VTU	2013	Perm anent	Assistan t Professo r (2)	21- 07- 2014	ME	Manufactur ing Science & Engineerin g	Y	Regular
35	Kemparaj u C R	M.Te ch	SSA HE- Tum akuru	2013	Perm anent	Assistan t Professo r (2)	21- 07- 2014	ME	Thermal Power Engg	Y	Regular
36	Pavan Prabhakar Kadole	M.Te ch	VTU	2013	Perm anent	Assistan t Professo r (2)	20- 07- 2015	ME	Machine Design	Y	Regular
37	Karthik S N	M.E( Ph.D )	Bang alore UV	2013	Perm anent	Assistan t Professo r (2)	25- 07- 2016	ME	Advanced Material Technolog y	Y	Regular
38	Megha Shukla	M.Te ch	VTU	2016	Perm anent	Assistan t Professo r (2)	25- 07- 2016	ME	Machine design	Y	Regular
39	Kamalasi sh Deb	M.Te ch	NITS - Silch ar	2012	Perm anent	Assistan t Professo r (2)	17- 07- 2013	ME	Thermal Engineerin g	Y	Regular
40	Vinod Kumar G S	M.Te ch,(P h.D)	NIT- Trich y	2011	Perm anent	Assistan t Professo r (2)	23- 01- 2017	ME	Materials science & Engg	Y	Regular

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41 Vi	inayak	M.Te	VTU	2016	Perm	Assistan	23-	ME	Prouct		
Pr	akash	ch			anent	t	01-		design and	Y	Regular
Ba	alehittal					Professo	2017		manufactui		
						r (2)			rng		
42 De	eepthi	M.Te	VTU	2014	Perm	Asst.	21-	ME	Aeronautic		
K.	.R.	ch			anent	Prof.	07-		al	Y	Regular
		(Ph.					2014		engineerin		C
		D)							g		
40 T	1 1 1			2015	P		26		<b>T</b> 1		
43 La	akshmin	M.I	VIU	2015	Perm	Assistan	26-	ME			<b>D</b> 1
ara	asimha	ECH			anent	t	07-		Engineerin	Y	Regular
Ν						Professo	2017		g		
						r (2)					
44 Ni	ithin	M.Te	VTU	2017	Perm	Asst.	16-	ME	Computer		
		ch			anent	Prof.	07-		Integrated	Y	Regular
							2018		Manufactur		
									ing		
45 Na	aresh K	M.Te	VTU	2013	Perm	Assistan	17-	ME	Machine		
S		ch			anent	t	07-		design	Y	Regular
		(Ph.				Professo	2013		U		C
		D)				r (2)					
TT	.1			2010	D	• • •	26				
He	emanth	M.1e	VIU	2010	Perm	Assistan	26-	ME	Design	<b>N</b> 7	D 1
46 Ra	aju	ch			anent	t	0/-		Engineerin	Y	Regular
		(PhD				Protesso	2010	1	g		
1 1						$\langle \mathbf{a} \rangle$			C		

### 5.5 Faculty competencies in correlation to Program Specific Criteria

(List the program specific criteria and the competencies (specialization, research publications, course developments etc.,) of faculty to correlate the program specific criteria and competencies.)

Engineering	Relevant Courses in the Curriculum	Competent Faculty
(Specialisatio		
n Area)		
	Mechanis of Materials	Dr. Srinth M K
	Design of Machine Elements-I	Dr. Nagendra J
	Design of Machine Elements-II	Dr. Sujin Jose
	Machine Theory & Mechanism Design	Dr.Selvam M
	Computer Aided Machine Drawing	Dr.Hemanth Raju
	Finite Element Methods	Dr.Kumar
Design	Mechanical Vibrations	Dr. Krishnarao D Dhuri
Engineering	Control Engineering	Dr.Aditi Raj
	Theory of Elasticity (Elective)	Hanamant Yaragudri
	Fundamentals of Tribology (Elective)	Veeresha G
	Fracture Mechanics (Elective)	Chetan Kumar D S
	Applied Numerical Techniques And	Pavan Prabhakar Kadole
	Computing	Megha Shukla
	(Elective)	Naresh K S
	Computer Graphics (Elective)	Vinay D R
	Basic Thermodynamics	
	Fluid Mechanics	Dr. Prabhu Kumar G.P
	Heat Power Cycles	Dr. Priyabrata Adhikary
	Rotor Dynamics	Dr. Ashok Kumar
	Fundamentals of Heat Transfer	Dr. Gopal K
	Refrigeration and Air Conditioning	Manjesh B C
Thermal	(Elective)	Ravikumar M.
Engineering	Emerging Automotive Technologies	Sudarshan T A
	(Elective)	
	Computational Fluid Dynamics (Elective)	Ronald Reagon R
	Hydraulics And Pneumatics (Elective)	Kemparaju C R
	Conventional and Non- Conventional	Kamalasish Deb
	Energy Resources (Elective)	Lakshminarasimha N
	Sustainable Energy Sources (Elective)	
	Casting ,Forging & Joining Technology	Dr. Manjunatha
	Machines for Manufacturing Technology	Dr. M S Ganesha Prasad
	Automation Engineering	Dr. Gopalakrishnan K
	Fundamentals of Plastic Mold Design and	Dr.Vasantha Kumar
	Die Design (Elective)	Dr. Manjunatha

	Optimization techniques (Elective)	GDr.Venugopal
Manufacturing	Rapid Prototyping (Elective)	S Dr.Vadivel
& Production	Design For Manufacturing & Assembly	Shivaprakash S
Engineering	(Elective)	Raghu Tilak Reddy
	Foundry Technology (Elective)	Maramreddy
	Agile Manufacturing (Elective)	Bopanna. K. D
	Non-Conventional Manufacturing	Sujeeth
	Technologies (Elective)	Swami
		Madhusud
		an K
		Karthik S
		N Vinod
		Kumar G S
		Nithin
		Nagabhushana.N
	Project Management & entrepreneurship	Dr. Vishwanath B
	Product Life Cycle Management	Dr. Amit Kumar
	(Elective) Operation Research (Elective)	Goudar
	Production And Operational Management	Dr. B.
	(Elective)	VittaladasaPrabhu
	Research Methodology (Elective)	Shivaprakash S
	Organizational Behavior &	Santhosh A N
Management	Total Quality Management (Elective)	Puneeth H V
Engineering		Rajesh A
		Vinayak Prakash
		Deepthi K.R.
		Yashad Kumar Gaur
Mechatronics	Mechatronics and Microprocessors	Vinayak Prakash
Engineering	(Elective)	Balehittal Megha
	Advanced Robotics (Elective)	Shukla
	Industrial Robotics (Elective)	Dr.Aditi Raj
	IIOT Embedded Systems(Elective)	Rajesh A
		Naresh K S
		Dr. Vishwanath B
	Material Science & Metallurgy	Yashad Kumar
Material	Smart Materials (Elective)	Gaur
Science	Nanotechnology (Elective)	Shivaprakash S
Engineering	Composite Materials (Elective)	Madhusudan K
		Karthik S N
		Vinod Kumar G S

Sl.No	Course	Course title	Specialization	Faculty
	Code			
	MEE351/451	Mechanics of	M.Tech/Phd	Dr.Hemanth Raju
1	/19MEE351/	Materials	In Mechanical	Hanamant Yaragudri
	451		Engg	Pavan Prabhakar Kadole
			M.Tech/Phd In	Dr. M S Ganesha
		Design of	Mechanical	Prasad
2	MEE54/19M	Machine	Engg	Dr. Nagendra J
	EE54	Elements-I		Hanamant Yaragudri
				Naresh K S
			M.Tech/Phd In	Dr. M S Ganesha
		Design of	Mechanical	Prasad
	MEE63/19M	Machine	Engg	Dr. Nagendra J
3	EE63	Elements-II		Dr. Sujin Jose
				Hanamant Yaragudri
				Naresh K S
		Machine	M.Tech/Phd	Dr. Srinath M K
		Theory &	In Mechanical	Veeresha G
4	MEE51/19M	Mechanism	Engg	Chetan Kumar D S
	EE51	Design		Pavan Prabhakar Kadole
			M.Tech/Phd	Dr. M S Ganesha Prasad
	MEE331/431	Computer	In Mechanical	Dr.Selvam M
	/19MEE331/	Aided Machine	Engg	Megha Shukla
5	431	Drawing		Vinay D R
				Nagabhushana.N
			M.Tech/Phd In	Dr. M S Ganesha
	MEE62/19M	Finite Element	Mechanical	Prasad
	EE62	Methods	Engg	Dr. Krishnarao D Dhuri
6				Pavan Prabhakar
				Kadole
				Megha Shukla
				Dr.Kumar
	MEE71		M.Tech/Phd In	Dr. Srinath M K
7		Mechanical	Mechanical	Dr. Nagendra J
		Vibrations	Engg	Naresh K S
	MEE72		M.Tech/Phd In	Dr. Srinath M K
			Mechanical	Dr. Krishnarao D Dhuri
8		Control	Engg	Vinay D R
		Engineering		Bopanna K D
			M.Tech/Phd In	Dr. M S Ganesha
9	19MEE562	Composite	Mechanical	Prasad

 Table 5.5.2 Faculty competencies in correlation to Courses.

		Materials	Engg	Dr. Nagendra J
		(Elective		Dr. Vishwanath B
				Chetan Kumar D S
10	19MEE565	Theory of	M.Tech/Phd In	Naresh K S
		Elasticity	Mechanical	Dr. Krishnarao D Dhuri
		(Elective)	Engg	
	19MEE561	Mechatronics	M.Tech/Phd In	Megha Shukla
11		and	Mechanical	Naresh K S
		Microprocessors	Engg	Lakshminarasimha
		(Elective)		
		Fundamentals of	M.Tech/Phd In	Chetan Kumar D S
12	19MEE641	Tribology	Mechanical	Naresh K S
		(Elective)	Engg	Dr. Krishnarao D Dhuri
	19MEE651	Nanotechnology	M.Tech/Phd In	Dr.Kumar
13		(Elective)	Mechanical	Dr. Vishwanath
			Engg	B Bopanna K D
	MEE84/19M	Fracture	M.Tech/Phd In	Naresh K S
14	EE562	Mechanics	Mechanical	Chetan Kumar D S
		(Elective)	Engg	Dr. Krishnarao D Dhuri
				Pavan Prabhakar
15	19MEE564	Smart Materials	M.Tech/Phd In	Kadole
		(Elective)	Mechanical	Dr. Vishwanath B
			Engg	Bopanna K D
	19MEE645	Advanced	M.Tech/Phd In	Dr.Hemanth Raju
16		Robotics	Mechanical	Rajesh
		(Elective)	Engg	Veeresha
				Dr. Prabhu Kumar G.P
	MEE332/432	Basic	M.Tech/Phd In	Dr. Ashok Kumar
17	/19MEE332/	Thermodynamic	Mechanical	Ravikumar M
	432	8	Engg	Kamalasish Deb
	MEE362/462		M.Tech/Phd In	Dr. Priyabrata Adhikary
	/19MEE362/	Fluid Mechanics	Mechanical	Kemparaju C R
18	462		Engg	Ronald Reagon R
				Sudarshan T A
			M.Tech/Phd In	Dr. Gopal K
			Mechanical	Manjesh B C
			Engg	Ravikumar M.
19	MEE52/19M	Heat Power		Lakshminarasimha
	EE52	Cycles		Dr. Priyabrata Adhikary
				Dr. Ashok Kumar
		Rotor Dynamics	M.Tech/Phd	Ravikumar M
20	MEE53/19M		In Mechanical	Kamalasish Deb

	EE5	EE5		Dr. Priyabrata Adhikary	
				Manjesh B C	
			M.Tech/Phd	Ravikumar M.	
	MEE61/19M	Fundamentals	In Mechanical	Lakshminarasimha	
21	EE61	of Heat	Engg	Kemparaju C R	
		Transfer		Ronald Reagon R	
		Refrigeration	M.Tech/Phd	Dr. Priyabrata	
		and Air	In Mechanical	Adhikary Dr. Gopal K	
22	MEE563	Conditioning	Engg	Manjesh B C	
		(Elective)		Ravikumar M	
		Emerging	M.Tech/Phd	Kemparaju C R	
23	MEE744	Automotive	In Mechanical	Dr. Priyabrata	
		Technologies	Engg	Adhikary	
		(Elective)		Dr. Gopal K	
		Computatio	M.Tech/Phd	Kamalasish Deb	
24	MEE785	nal Fluid	In Mechanical	Deepthi k R	
		Dynamics	Engg	Dr. Amit Kumar Goudar	
		(Elective)			
		Hydraulics And	M.Tech/Phd	Lakshminarasimha	
25	MEE754	Pneumatics	In Mechanical	Dr. Nagendra J	
		(Elective)	Engg	Bopanna K D	
		Conventional		Sudarshan T A	
26	MEE654	and Non-	M.Tech/Phd	Dr. Gopal K	
		Conventional	In Mechanical	Dr. Priyabrata Adhikary	
		Energy	Engg		
		Resources			
		(Elective)			
		Sustainable	M.Tech/Phd	Dr. Gopal K Sudarshan T A	
27	MEE656	Energy	In Mechanical	Dr. Priyabrata Adhikary	
		Sources	Engg		
		(Elective)			
		Casting &		Dr. Manjunatha	
	MEE341/441	Forging	M.Tech/Phd	Dr. Manjunatha G	
	/19MEE341/	Technology/	In Mechanical	Raghu Tilak Reddy	
28	441	Casting ,Forging	Engg	Maramreddy Sujeeth	
		& Joining		Swami	
		Technology		Nagabhushana.N	
		Material		Dr. M S Ganesha	
	MEE361/461	Science &	M.Tech/Phd	Prasad Dr.	
	/19MEE361/	Metallurgy	In Mechanical	Gopalakrishnan K	
29	461		Engg	Dr. Vishwanath B	
				Madhusudan K	

				Karthik S N
				Dr.Vasantha Kumar
	MEE342/442	Machines for	M.Tech/Phd	Dr.Venugopal S
	/19MEE342/	Manufacturing	In Mechanical	Vinod Kumar G
30	442	Technology	Engg	S Nithin
				Shivaprakash S
				Dr.Vasantha Kumar
	MEE64	Automation	M.Tech/Phd	Sujeeth Swami
31		Engineering	In Mechanical	Karthik S N
			Engg	Puneeth H V
		Computer	M.Tech/Phd	Raghu Tilak Reddy
32	MEE742	Graphics	In Mechanical	Dr. Vishwanath B
		(Elective)	Engg	Dr. Nagendra J
		Fundamentals	M.Tech/Phd	Dr.Vadivel
33	MEE743	of Plastic	In Mechanical	Dr. Nagendra J
		Mold Design	Engg	Puneeth H V
		and Die		
		Design		
		(Elective)		
	MEE755	Rapid	M.Tech/Phd	Dr. M S Ganesha
34		Prototypin	In Mechanical	Prasad
		g	Engg	Puneeth H V
		(Elective)		Dr. Nagendra J
25		Design For	M.Tech/Phd	Dr. Manjunatha G
33	MEE/51	Manufacturing	In Mechanical	Dr. Vishwanath B
		& Assembly (Elective)	Engg	Dr. Amit Kumar Goudar
		Foundry	M.Tech/Phd	Madhusudan
36	MEE652	Technology	In Mechanical	Shivaprakash S
		(Elective)	Engg	Vinay
		Agile	M.Tech/Phd	Vinod Kumar G S
37	MEE653	Manufacturi	In Mechanical	Dr. Vishwanath B
		ng	Engg	Dr. Manjunatha
		(Elective)		
		Non-	M.Tech/Phd	Madhusudan K
38	MEE654	Conventional	In Mechanical	Shivaprakash S
		Manufacturing	Engg	Rajesh
		Technologies		
		(Elective)		
		Project	M.Tech/Phd	Dr. Vishwanath B
	MEE55	Management	In Mechanical	Santhosh A N
39		&	Engg	Rajesh A

		entrepreneurs		Yashad Kumar Gaur
		hip		
		Product Life	M.Tech/Phd	Dr. M S Ganesha Prasad
	MEE813	Cycle	In Mechanical	Dr. Amit Kumar
40		Management	Engg	Goudar
		(Elective)		Puneeth H V
				Deepthi K.R.
		Operation	M.Tech/Phd	Shivaprakash S
41	MEE731	Research	In Mechanical	Santhosh A N
		(Elective)	Engg	Puneeth H V
		Production And	M.Tech/Phd	Dr. Vishwanath B
42	MEE732	Operational	In Mechanical	Shivaprakash S
		Management	Engg	Vinay D R
		(Elective)		
		Research	M.Tech/Phd	Dr. M S Ganesha
43	MEE733	Methodology	In Mechanical	Prasad
		(Elective)	Engg	Dr. Amit Kumar
				Goudar
				Dr.Ashok
		Organizational		Puneeth H V
44	MEE734	Behavior &	M.Tech/Phd	Shivaprakash S
		Professional	In Mechanical	Vinay D R
		Ethics	Engg	
		(Elective)		
	MEE566	IIOT	M.Tech/Phd	Deepthi K.R.
45		Embedded	In Mechanical	Dr.Aditi Raj
		Systems(E	Engg	Lakshminarasimha
		lective)		
		Applied		Dr. Amit Kumar
46	MEE752	Numerical	M.Tech/Phd	Goudar
		Techniques And	In Mechanical	Dr. Krishnarao D
		Computing	Engg	Dhuri
		(Elective)		Dr. Amit Kumar Goudar
		Total Quality	M.Tech/Phd	Yashad Kumar Gaur
47	MEE753	Management	In Mechanical	Shivaprakash S
		(Elective)	Engg	Dr. Amit Kumar Goudar

SI.	Name of the		Research Pub	olications with respect to
No	Faculty	Compete	specialization	l
		ncy	Title	Name of Journal
	Dr.		Influence of Two Stage Stir	International Journal of
	Manjunatha		Casting and 6 wt.% Boron	Scientific Research in
			Carbide Particulates	Computer Science,
			Addition on Mechanical	Engineering and
			Characterization and Wear	Information
			Behaviour of Al2618 Alloy	Technology/ISSN:2456-
			Composites	3307
			Influence Of 44 And 63	International Journal of
1		Lean	Micron Varying Sized B4c	Mechanical and
		Manufact	Particles Addition On The	Production Engineering
		uring	Tensile Behaviour And	Research and
			Fractography Of Al2618	Development (IJMPERD)
			Alloy Metal Composites	
			Mechanical	IOSR Journal of
			Characterization of 63	Engineering (IOSRJEN)
			Micron Sized B4C	ISSN (e): 2250-3021, ISSN
			Particulates Reinforced	(p): 2278-8719 Vol. 08,
			Al2618Alloy Composites	Issue 12
			Fabrication Of Automatic	IJTIMES/ e-ISSN: 2455-
			Sewage Cleaning	2585 Volume 5, Issue 05
			Machine	
2	Dr.M S		Wear and corrosion	Bulletin of Materials
	Ganesha	Mechani	resistance of titanium	Science/(2020) 43:108
	Prasad	cal	carbo-nitride coated Al-	https://scholar.google.co.i
		Engineer	7075 produced through	n/citations?
		ing	PVD.	user=Er3huLAAAAAJ&hl
		Science		=en
			FDM Process Parameter	Journal of The Institution of
			Optimization by Taguchi	Engineers (India): Series C
			Technique for	Mechanical, Production,
			Augmenting the	Aerospace and Marine
			Mechanical Properties of	Engineering/313–322(2020
			Nylon–Aramid	
			Composite Used as	
			Filament Material	
			FDM Process Parameter	Journal of The Institution
			Optimization by Taguchi	of Engineers (India):
			Technique for Augmenting	Series C/101(2):313–322

Table 5.5.3 Faculty competencies in correlation to research publication

01	9.	-20

the Mechanical Properties	
of Nylon–Aramid	
Composite Used as	
Filament Material	
Nylon-aramid polymer	AIP Conference
composite as sliding liner	10.1063/1.5085618
for lube-less sliding	https://scholar.google.co.i
bearing by fused deposition	n/citations?
modeling	user=Er3huLAAAAAJ&h
	l=en
Design And Fabrication Of	International Journal of
Electric Powered Roller	Mechanical and Production
Operated Fruit Dehydrator	Engineering Research and
For Uniform Drying	Development (IJMPERD)
	https://scholar.google.co.in/
	citations?
	user=Er3huLAAAAAJ&hl
	=en
Process Optimization of	9th International
Friction Stir Welded	Conference of Materials
AA7XXX and Steel With	Processing and
Different Preheating	Characterization, ICMPC-
Conditions	2019
Design And Analysis Of	International Journal of
OD Chamfering Machine	Scientific Research in
wheel Assembly For	Computer Science,
Helical Springs	Engineering and
	Information Technology/
	ISSN : 2456-3307
Static & Dynamic	IOP Conference Series:
Performance analysis and	Materials Science and
modal Simulation of single	Engineering, Vol-872
point cutting tool	
Comparison of tribological	International Journal of
behavior of nylon aramid	Mechanical Engineering and
polymer composite	Technology/ISSN Online
fabricated buy fused	0976-6359, Volume 9, Issue
deposition modeling and	13
injection molding	
Biological factors	Sustainable Water
influencing the degradation	Resources Management,
of water- soluble metal	Springer/ ISSN: 2363-
working fluids	5045

			Thermal Characterization	Springer/ISSN:2250-0553
			of Aluminum-Based	https://scholar.google.co.in/
			Composite Structures	citations?
			Using Laser Flash	user=Er3huLAAAAAJ&hl=
			Analysis	en
			Study of velocity and	International Journal of
			temperature distribution	Technical Innovation in
			inside the fruit dryer using	Modern Engineering &
			CFD	Science (IJTIMES) vol
				4,issue 6 e-ISSN: 2455-
				2585
				Anveshan National
			Design Issues of wearable	Conference
			Medical Devices- A	https://scholar.google.com/c
			review	itations?
				hl=en&user=l46GnPYAAA
	Dr.Viswanath Bellie	Mechanic al Sciences		AJ
			Synthesis and	First International
			characterization of fused	Conference on
			mullite nano powder	Intelligent Digital
				Transformation ( ICIDT
				2019)
				East West Institute of
			Internet of things based	Technology, Bangalore,
			on smart irrigation	National Conference
			system	https://scholar.google.com/c
3				itations?
				hl=en&user=l46GnPYAAA
				AJ
				Cambridge Institute of
			Modular Fixture for key	Technology, Bangalore,
			way slot milling on gear	National Conference
			shaft	https://scholar.google.com/c
				itations?
				hl=en&user=l46GnPYAAA
				AJ
			Influence of cryogenic	Materials and
			treatment on the	Manufacturing Processes,
			metallurgy of terrous	155N: 1042-6914 (Print)
			alloys: A review	1532-2475, Taylor and $\Gamma$
				Francis

		Effect of Slow Cooling on the Microstructure and Mechanical Properties of near Eutectic (4%C) High Chrome White Cast Iron Wear Behavior of Aluminum Alloys under Low Stress Three Body Dry Sliding Abrasion Conditions	Indian Foundry Journal, ISSN: 0379-5446, Volume- 63, Issue 11, page no's: 29 to 38, November, 2017. International Journal of Scientific Research in Computer Science, Engineering and Information Technology © 2018 IJSRCSEIT   Volume 4   Issue 5   ISSN : 2456-3307
		Analysis of flow over a wing with feather like winglets	Journal of Emerging Technologies and Innovative Research, ISSN 2349-5162, Volume 5,Issue 7, July, 2018
		Jet Signature Reduction	Technologies and Innovative Research, ISSN: 2349-5162, Volume 5, Issue 7, July, 2018
		Modular Fixture for Key Way Slot Milling on Gear Shaft	International Journal of Innovative Science and Research Technology ISSN No:-2456-2165, Volume 4, Issue 4, April – 2019
		HVOF sprayed mullite coatings for use in extreme envy.	International Journal of Recent Technology and Engineering (IJRTE)' at Volume-8 Issue-2, July 2019.
		Electrophoretic Deposition of Mullite Nano Coating by using Low Voltage DC	Adv. Mater. App. 3 (2019) 1-5 https://scholar.google.com/c itations? hl=en&user=l46GnPYAAA AJ
		Novel greener synthesis and characterization of mixed metal oxides using Cyathianil giriens isholttum plant extract	Adv. Mater. App. 3 (2019) 6-9 https://scholar.google.com/c itations? hl=en&user=l46GnPYAAA AJ

			HVOF sprayed mullite	Journal of Thermal Spray
			coatings for use in extreme	Technology,2 (1), 43-49,
			envy.	ISSN code 2582-1474
			Green synthesized copper	Wutan Huatan Jisuan Jishu
			oxide nanoparticles using	ISSN:1001-1749, Volume
			pisonia grandis r.br. plant	XVI, Issue V, May/2020
			extract and its antibacterial	Pages 534 to 543
			activity	
			A Novel Machine	International Journal of
			Learning Technique	Psychosocial Rehabilitation,
			towards Predicting the	Vol. 24, Issue 05, 2020
			Sale of Washing Machines	ISSN: 1475-7192
			in a Small Organization	
			Using machine learning	International Journal of
			techniques towards	Engineering Trends and
			predicting the number of	Technology (IJETT- Scopus
			dengue deaths in India – A	Indexed) – Special Issues -
			case study	ICT 2020
4	Dr	Renewabl	Chilled Water Pump	ARPN Journal of
	Priyabrata	e Energy	Trouble-Shooting By A.I.:	Engineering and Applied
	Adhikary	& Turbo	ACase Study +3	Sciences ISSN 1819-6608
		machine,		https://scholar.google.co.in/c
		RAC, FM		itations?
				user=v6Rj_8kAAAAJ&hl=e
				n
			HVAC Chilled Water	International Journal of
			Pump Performance	Mechanical and Production
			Analysis: A Case Study	Engineering Research and
				Development/ ISSN(P):
				2249–6890; ISSN(E):
				2249–8001, Vol-10, Special
				Issue June 2020
			Performance Analysis of	International Journal of
			Bank Conference Room	Scientific Research in
			AC Design:	Computer Science,
			A Case Study	Engineering and
				Information Technology/
				ISSN : 2456-3307
			C.F.D analysis of air-	ARPN Journal of
			cooled HVAC chiller	Engineering and Applied
			compressors	Sciences, 2018, 13(23), pp.
			_	9222-9228 (SCOPUS)
I.	1	I	L	. ,

			Application of artificial	ARPN Journal of
			intelligencein energy	Engineering and Applied
			efficient	Sciences, 2017, 12(21), pp.
			H.V.A.C. system design:	6154-6158 (SCOPUS)
			A case study	
			C.F.D. analysis of micro	ARPN Journal of
			hydro turbine unit: A	Engineering and Applied
			case	Sciences, 2016, 11(7), pp.
			study	4346-4352 (SCOPUS)
			Surface Morphology and	Journal of The Institution of
			Hardness Analysis of TiCN	Engineers (India): Series C,
			Coated AA7075	1-8, 2017
			Aluminum Alloy	https://scholar.google.co
				.in/citations?view_op=li
				st_works&hl=en&user=
				_A3Ov5cAAAAJ
			Wear and corrosion	Bulletin of Materials
			resistance of titanium	Science 43 (1), 2020
			carbon- nitride coated Al-	https://scholar.google.co
			7075 produced through	.in/citations?view_op=li
			PVD	st_works&hl=en&user=
5	Dr. Srinath M	surface		_A3Ov5cAAAAJ
	K	engineerin	Analysis of Drillability of	Imperial Journal of
		g	Carbon Nano	Interdisciplinary Research 2
			powder/Vinyl ester/Basalt	(9), 2016
			Fiber	https://scholar.google.co
				.in/citations?view_op=li
				st_works&hl=en&user=
				_A3Ov5cAAAAJ
			Static & dynamic	IOP Conference Series:
			performance analysis and	Materials Science and
			modal simulations of	Engineering 872 (1), 012073,
			single point cutting tool	2020
			Mathematical Modeling on	Materials Science Forum
			the Residual Stresses in	978, 514-521, 2020
			Coatings Due to Heat	https://scholar.google.co
			Treatments	.in/citations?view_op=li
				st_works&hl=en&user=
				_A3Ov5cAAAAJ
			Numerical analysis of heat	AIP Conference Proceedings
			treatment of TiCN coated	1943 (1), 020039, 2018
			AA7075 aluminium alloy	
L	1	1	5	1

			Corrosion Analysis of	Journal of The Institution of
			TiCN Coated Al-7075	Engineers (India): Series C,
			Alloy for Marine	1-7, 2017
			Applications: A Case	
			Study	
6	Dr. Ashok	Alterna	Chilled Water Pump	ARPN Journal of
	Kumar	tive	Trouble-Shooting By A.I.:	Engineering and Applied
		fuels	A Case Study	Sciences ISSN 1819-6608
		and	Analysis Of CNG-Diesel	IJMPERD ISSN: 2249-
		greenh	Powered Diesel Engine	6890, Vol-9, issue-4
		ouse	Combustion Performance	https://scholar.google.co.in/c
		gas	And Exhaust Emission	itations?user=fm
		-	Characteristics	1mIAAAAJ&hl=en
			To Study the Effects of	United States American
			(CNG+Diesel) Under Dual	Scientific Publisher, Vol-7,
			Fuel Mode on Engine	1-5,2019
			Performance and	https://scholar.google.co.in/
			Emissions Characteristic	citations?user=fm
				1mIAAAAJ&hl=en
			Study Potential Of	JETIR
			Microalgae For Biodiesel	https://scholar.google.co.in/c
			Production	itations?user=fm
				1mIAAAAJ&hl=en
			Use of CNG in Diesel	International Journal of
			Fuelled Compression	Engineering & Science
			Ignition Engine to Study its	Research ISSN 2277-2685
			Effects on The	
			Performance and Carbon-	
			Based Exhaust Emission	
			Effective Utilization of	Asian Journal Of
			Algae Biomass from	Chemistry, Vol-31, No-
			Wastewater for Biodiesel	9(2019), 2065-2068
			Production by Direct Trans	https://scholar.google.co.in/
			esterification: A Promising	citations?user=fm
			Approach for Sustainable	1mIAAAAJ&hl=en
			Bioenergy Production	
7	Dr. Gopal K	I.C.engin	Experimental Assesment of	Elsevier,
		es,	performance, combustion	https://scholar.google.co.in/
		Combusti	and emission of a	citations?
		on,	compression ignition	user=TtX65wUAAAAJ&hl
		Alternativ	engine fuelled with	=en
		e Fuels,	Spirulina platensis	
		Optimizat	biodiesel	
	ion,	Effective utilization of	Energy Sources, Part A:	
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	Thermal	waste plastic oil/n-hexanol	Recovery, Utilization, and	
	Science,	in an off road, unmodified	Environmental Effects.	
	Renewabl	DI diesel engine and	(Taylor and Francis) Print	
	e energy,	evaluating its performance,	ISSN: 1556-7036 Online	
		emission and combustion	ISSN: 1556-7230, Vol-42,	
		characteristics	No-11	
		Effect of retarded injection	Fuel - Publisher - Elsevier,	
		timing and EGR on	ISSN: 0016-2361,	
		performance, combustion	https://scholar.google.co.i	
		and emission	n/citations?	
		characteristics of a CRDi	user=TtX65wUAAAAJ&h	
		diesel engine fueled with	l=en	
		WHDPE oil/diesel blends		
		Effect of anisole addition	Fuel - Publisher - Elsevier,	
		to waste cooking oil methyl	ISSN: 0016-2361	
		ester on combustion,	https://scholar.google.co.i	
		emission and performance	n/citations?	
		characteristics of a DI	user=TtX65wUAAAAJ&h	
		diesel engine without any	l=en	
		modifications		
		Collective influence of 1-	Fuel - Publisher - Elsevier,	
		decanol addition, injection	ISSN: 0016-2361	
		pressure and EGR on	https://scholar.google.co.i	
		diesel engine	n/citations?	
		characteristics fueled with	user=TtX65wUAAAAJ&h	
		diesel/LDPE oil blends	l=en	
		Utilization of waste plastic	Reviews in Environmental	
		oil in diesel engines: a	Science and	
		review	Bio/Technology, Publisher -	
			Springer Netherlands,	
			ISSN: 1569-1705 (Print)	
			1572-9826 (Online)	
		Comparative analysis on	Energy Sources, Part A:	
		the effect of 1-decanol and	Recovery, Utilization, and	
		di-n-butyl ether as additive	Environmental Effects,	
		with diesel/LDPE blends in	Publisher - Taylor &	
		compression ignition	Francis, Print ISSN: 1556-	
		engine	7036 Online ISSN: 1556-	
			7230	
		Utilization of waste plastic	Reviews in Environmental	
		oil in diesel engines: a	Science and Bio/Technology	
		review	/ ISSN: 1569-1705 (Print)	

				1572-9826 (Online)
			Comparative account of the	Taylor & Francis, Vol-42,
			effects of two high carbon	No-14,
			alcohols (C5 & C6) on	https://scholar.google.co.i
			combustion, performance	n/citations?
			and emission characteristics	user=TtX65wUAAAAJ&h
			of a DI diesel engine	l=en 1772-1784
			Preparation and	IJSRCSEIT / ISSN : 2456-
			Characterization of Heat	3307, vol-4, Issue-9
			Treated Nickel Silver for	https://scholar.google.co.in/c
			Marine Applications	itations?hl=en&user=Vo8t-
				OIAAAA
			Development Of E-Glass	IJTIMES/ISSN:2455-2586,
			Fiber Reinforced & Sisal	e-ISSN: 2455-2585 Volume
8	Santhosh A N	Tool	Epoxy Composite For	5, Issue05
		Engineeri	Structural Applications:	https://scholar.google.co.in/c
		ng	A Case Study	itations?hl=en&user=Vo8t-
				OIAAAA
			An extensive review of	Journal of Materials &
			characterisation of Cu-Ni	Metallurgical
			alloys	Engineering(JoMME), vol
				8,issue 2, ISSN: 2231-3818
				https://scholar.google.co.in/
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		Engg	analysis of a CD nozzle	Mechanical
			for evacuating emissions	Engineering( JAME)
			from the subway tunnels	vol 6,issue 6 ISSN:
				2168-9873
			Design and Fabrication	
			of Multi-Nut impact	IJSART/2395-
			wrench	1052
	F		Flow analysis of lube	
1				

			system of a gas turbine	JETIR/2349-
			engine	5162
39	Ronald	Thermal	Study of inlet guide	International Journal of
	Reagon	Power	vanes for centrifugal	Scientific Research in
		Engg	compressor in miniature	Computer Science,
			gas turbine	Engineering and Information
				Technology(IJSRCSEIT) vol
				4,issue 6 ISSN 2456-3307
			Design and fabrication	International Journal of
			of hydrogen generator	Technical Innovation in
				Modern Engineering
				&Science (IJTIMES) vol
				4,issue 6 e-ISSN: 2455-
				2585

## Table 5.5.4 Faculty competencies in correlation to Books/ Book chapter publications.

Sl	Name of the	Competency	Book Publications with respect
No	Faculty		to specialization
		Basics, Advanced	Kinematics of Machines, Skyward
	Dr. Srinath M K	Kinematics in	Publishers, Chamrajpet, Bengaluru-
1.		Machines	18, 2017
	Lakshminarasimh	Basics to Modern	Modern Elements of Mechanical
	a N &	Mechanical	Engineering, Subhas Stores, Bengaluru,
	Megha Shukla	Engineering	2019
		I.C.engines,	Alcohol Contribution over
		Combustion,	Conventional Fuel, IntechOpen
		Alternative Fuels,	Publications, 2019
3	Dr. Gopal K	Optimization, Therm	Utilization of Jatropha Biodiesel in
		al Science,	Agricultural Diesel engine, LAMBERT
		Renewable energy,	Academic Publishing, 2020
		Mechanical	Techorizon-2017: Exhibiting Innovative
		Engineering	Ideas, NHCE Publication, 2017
		Science	Techorizon-2018: Exhibiting Innovative
4	Dr. Ganesh Prasad	l	Ideas, NHCE Publication, 2018
.	M S		Techorizon-2019: Exhibiting Innovative
			Ideas, NHCE Publication, 2019
		Composite	Contemporary Research in Engineering
		material	and Technology /Evaluation of Water
5.	Dr. Sujin Jose	characterisation	Absorption Characteristics of Banana
			Fiber reinforcedPolyester Composites,
			ANVI Publishers, Delhi, India, 2019

6.	Dr.	Industrial	Step by Step Guide for Building CanSat
	K.Gopalakrishnan	Engineering, Space	and Launching with ParachutesFlip Book
		science, Research &	by TSC Digital Publications2019
		Development	
		Policies, Projects	
			Step by Step Guide for Building Rocket
			for CanSat Launching
			Flip Book by TSC Digital Publications
			2019
			Era of Small Satellites: Pico, Nano and
			Micro Satellites (PNM Sat)-An Over View
			and Frugal Way to Access Low Earth
			Orbit
			Flip Book by TSC Digital Publications
			2019
			Wire Rope Vibration Isolators for
			Applications in Space Engineering
			Flip Book by TSC Digital Publications
			2020
			Systems Engineering for NanoSatellite
			Building
			Flip Book by TSC Digital Publications
			2020
			Satellites and the Dawn of New Space
			Dermission by
			Dr. K. Gonalakrishnan, Daan (R&D)
			$D_1$ . K. Oopalakiisiilali, Deali (K&D)
			09/04/2019
			New Space Fra: Small Satellites-Big
			Applications
			INISEC India Publication09/04/2019
			CanSats to CubeSats: An Introduction to
			Nano Satellites
			UNISEC India Publication09/04/2019
			Compendium of Students' Satellites
			-

WFEO-CIC and ITCA
Publication09/05/2018
Compendium of R&D Projects-NHCE
Airwalk Publications 21/12/2015
12/07/2018
Hand Book on Opportunities of R&D
Funding Airwalk Publications 21/12/2015
12/07/2018
Successful Startups and R&D Projects of
NHCE Airwalk Publications 21/12/2015
12/07/2018
R&D @ NHCEAirwalk Publications
07/11/2018
Compendium on Technology Rusiness
Incubation @ NHCF: Success Stories
Airwalk Publications 21/12/2015
12/07/2018
IPP Policy of NHCE Airwelk
Publications 07/11/2018
P &D @ NUCE
K&D @ NHCE
Airwalk Publications 07/11/2018
Compendium on Technology Business
Incubation @ NHCE: Success Stories
Airwalk Publications 21/12/2015
IPR Policy of NHCE Airwalk
Publications 07/11/2018
Operational Guidelines for Sponsored
Research Projects @ NHCE
Airwalk Publications 07/11/2018
Business Incubation Policy of NHCE:
Trends & Technology Timeline 2010-2050
Airwalk Publications 07/11/2018
Business Incubation Policy of NHCE:
Incubator Services Provided at NHCE for
Stratups
Airwalk Publications 07/11/2018
R&D Policy and Vision of NHCE: R&D
Performance Evaluation Matrix at
NHCE
Airwalk Publications 07/11/2018
Road Less Travelled! Research@New

	Horizon: Achievements, Since 2015
	04/19/2020
	Flip Book by TSC Digital Publications
	Systems Engineering for NanoSatellite
	Building 05/14/2020
	Flip Book by TSC Digital Publications
	Golden Jubilee celebrations of NHEI:
	Achievements of Students of R&D cell,
	Successful Satrt-ups and Institutions
	Innovation Council of NHCE 07/07/2020
	Flip Book by TSC Digital Publications
	ISBN:9789354078217
	Evolution of The Space Company: TSC
	Technologies Private Limited-Beyond
	Horizon- Sky is not the Limit!
	08/15/2020
	Flip Book by TSC Digital Publications
	ISBN: 9789354084669
	World CanSat/Rocketry Championship:
	International Webinar Report 22-26 June
	2020 08/15/2020
	Flip Book by TSC Digital Publications

SI.	Name of the	Competency	E- Content Web Links
No	Faculty		
			https://www.youtube.com/watch?
			v=OKnlTx3hkSc&feature=emb_logo
1.	Dr. Manjunatha	Lean	https://www.youtube.com/watch?v=vk
		Manufacturing	_Rqc0dk&feature=emb_logo
			https://www.youtube.com/watch?
	Dr. Ganesh Prasad	Mechanical	v=37huR3er63Y&feature=emb_logo
2.	M S	Engineering	https://www.youtube.com/watch?v=ofYb-
		Science	6BUvZs&feature=emb_logo
			https://www.youtube.com/watch?
	Dr.		v=DZVcmWf2FRo&feature=emb_logo
3.	GopalaKrishnan	Industrial	https://www.youtube.com/watch?
	Kanapathy	Engineering	v=VFIF7RnTT3M&feature=emb_logo
			https://www.youtube.com/watch?
			v=IFLl3qpEsTo&feature=emb_logo
4.	Dr. Viswanath	Mechanical	https://www.youtube.com/watch?
	Bellie	Sciences	v=rT7y1i-WP7Q&feature=emb_logo

 Table 5.5.5 Faculty competencies in correlation to the courses

	Dr. Priyabrata	Renewable Energy	https://www.youtube.com/watch?	
5.	Adhikary	& Turbomachine,	v=9zQwA21oAUY&feature=emb_logo	
		RAC, FM	https://www.youtube.com/watch?	
			v=ymETXYbwsZw&feature=emb_logo	
6.	Dr.Vasantha	Lean	https://www.youtube.com/watch?v=z4oI-	
	Kumar	Manufacturing	1J4YCA&feature=emb_logo	
			https://www.youtube.com/watch?	
	Dr. Amit Kumar	Mechanical	v=2EgLO8T7pX4&feature=emb_logo	
7.	Goudar	Engineering	https://www.youtube.com/watch?	
		Science	v=9Nu7GO9NYDQ&feature=emb_logo	
			https://www.youtube.com/watch?	
			v=HjvJ8oxix6g&feature=emb_logo	
			https://www.youtube.com/watch?	
	Dr. Srinath M K	surface	v=BpHOSM9tZVI&feature=emb_logo	
8.		engineering	https://www.youtube.com/watch?	
			v=7911C2DY6fM&feature=emb_logo	
		Mechanical	https://www.youtube.com/watch?	
		Engineering	v=s1IYmoY5mA4&feature=emb_logo	
9.	Dr. Nagendra J	Science	https://www.youtube.com/watch?v=-	
			fGhSvn5hVM&feature=emb_logo	
		Nanocomposites,M	https://www.youtube.com/watch?	
		anufacturing	v=OCGdAaMjTlE&feature=emb_logo	
10.	Dr. Manjunatha G	Science &	https://www.youtube.com/watch?	
		Engineering	v=RHE8ndnlWQ0&feature=emb_logo	
			https://www.youtube.com/watch?	
		Alternative fuels	v=I78IITBWzXA&feature=emb_logo	
11.	Dr. Ashok Kumar	and greenhouse	https://www.youtube.com/watch?	
		gas	v=YWZsiuAe2n0&feature=emb_logo	
			https://www.youtube.com/watch?	
12.	Dr. Sujin Jose	Engg. Materials	v=DlTr25pEiig&feature=emb_logo	
			https://www.youtube.com/watch?	
		Thermal	v=2wI9zbc8I-M&feature=emb_logo	
13.	Dr. Gopal K	Science and	https://www.youtube.com/watch?	
		Engineering	v=ymETXYbwsZw&feature=emb_logo	
14.	Dr.Venugopal S	Materials science	https://www.youtube.com/watch?	
		& Engg	v=FuApdMAw-rk&feature=emb_logo	
			https://www.youtube.com/watch?	
	Dr.Selvam M	Mechanical	v=s87UiCncICM&feature=emb_logo	
15.		Engineering	https://www.youtube.com/watch?	
			v=mEwSfqyuI8o&feature=emb_logo	
16.       Dr.Hemanth Raju       Design Engineering       v=Ccrjxa-6fTY&feature=emb_logo https://www.youtube.com/watch?         17.       Maramreddy       Maufacturi ng       v=Vz7F1DV0PpU&feature=emb_logo         17.       Maramreddy       Manufacturi ng       v=kL6f52BYrM&feature=emb_logo         18.       Manjesh B C       Thermal power Engineering       v=kM0tRINZ9J8&feature=emb_logo https://www.youtube.com/watch?         19.       Shivaprakash S       Tool Engineering       https://www.youtube.com/watch?         19.       Nagabhushana       AconNWPM- GA&feature=emb_logo       https://www.youtube.com/watch?         10.       Machine design				https://www.youtube.com/watch?
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16.       Dr.Hemanth Raju       Design Engineering       https://www.youtube.com/watch? y=VZ7EIDV0PpU&feature=emb_logo         17.       Maramreddy       Manufacturi ng       https://www.youtube.com/watch? y=RAGNENZ9J8&feature=emb_logo         17.       Maramreddy       Manufacturi ng       https://www.youtube.com/watch? y=eM0tRINZ9J8&feature=emb_logo         18.       Manjesh B C       Thermal power Engineering       https://www.youtube.com/watch? y=SRJUCnclCM&feature=emb_logo         19.       Shivaprakash S       Tool Engineering       https://www.youtube.com/watch? y=&SJG_tdVeA&feature=emb_logo         19.       Shivaprakash S       Tool Engineering       https://www.youtube.com/watch? y=acSJG_tdVeA&feature=emb_logo         19.       Rawikumar M.       Thermal Sciences       https://www.youtube.com/watch? y=acSJG_tdVeA&feature=emb_logo         19.       Nagabhushana       YeretJSY,Www.youtube.com/watc				v=Ccrjxa-6fTY&feature=emb_logo
Image: second	16.	Dr.Hemanth Raju	Design	https://www.youtube.com/watch?
Raghu Tilak ReddyComputerhttps://www.youtube.com/watch?MaramreddyManufacturintps://www.youtube.com/watch?Maramreddymgy=eM0tRINZ9J&kfeature=emb_logohttps://www.youtube.com/watch?y=eM0tRINZ9J&feature=emb_logonghttps://www.youtube.com/watch?ngy=eM0tRINZ9J&feature=emb_logohttps://www.youtube.com/watch?y=eKuoP-TJ1HM&feature=emb_logohttps://www.youtube.com/watch?y=SugX7D5Y&feature=emb_logohttps://www.youtube.com/watch?y=acSJG_idVeA&feature=emb_logo19.Shivaprakash STool Engineering19.Shivaprakash STool Engineering19.Shivaprakash STool Engineering19.Shivaprakash STool Engineering19.Shivaprakash STool Engineering19.Shivaprakash STool Engineering19.ManimantThermal Sciences19.HanamantMachine design11.YaragudriMachine design12.YaragudriMachine design13.Masappa14.Maufacturing14.Yaragudri15.Thermal15.Sudarshan T A16.Thermal17.Thermal17.Thermal17.Thermal17.Thermal18.Manufacturing19.Yaragudri19.Manufacturing19.Yaragudri19.Thermal19.Thermal19.Thermal <t< td=""><td></td><td></td><td>Engineering</td><td>v=Vz7F1DV0PpU&amp;feature=emb_logo</td></t<>			Engineering	v=Vz7F1DV0PpU&feature=emb_logo
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17.       Maramreddy ng       Manufacturi y=eM0RINZ9J8&feature=emb_logo         18.       Manjesh B C       Thermal power Engineering       https://www.youtube.com/watch? v=SmgX7D5Y&feature=emb_logo         18.       Manjesh B C       Thermal power Engineering       v=9psusgX7D5Y&feature=emb_logo         19.       Shivaprakash S       Tool Engineering       https://www.youtube.com/watch? v=s87UiCncICM&feature=emb_logo         19.       Shivaprakash S       Tool Engineering       https://www.youtube.com/watch? v=eKu2fsfUMU4&feature=emb_logo         20.       Ravikumar M.       Thermal Sciences       https://www.youtube.com/watch? v=eKu2fsfUMU4&feature=emb_logo         11.       Yaragudri       Machine design       https://www.youtube.com/watch?v=- TGO_EC4Ek&feature=emb_logo         12.       Yaragudri       Machine design       https://www.youtube.com/watch?v=- TGO_EC4Ek&feature=emb_logo         13.       Nagabhushana       Maunfacturing       v=vStzT-GEKY&feature=emb_logo         14.       Manufacturing       v=vStzT-GEKY&feature=emb_logo         14.       Thermal       https://www.youtube.com/watch?v=- TGO_EC4Ek&feature=emb_logo         14.       Manufacturing       v=vStzT-GEKY&feature=emb_logo         14.       Manufacturing       v=lo55xx5qpA&feature=emb_logo         14.       Thermal       https://www.youtube.com/watch?		Raghu Tilak Reddy	Integrated	v=lxL6f52BYrM&feature=emb_logo
ingv=eM0tRINZ9J8&feature=emb_logo18.Manjesh B CThermal power Engineeringhttps://www.youtube.com/watch? v=KcmOP-TJ1HM&feature=emb_logo https://www.youtube.com/watch? v=87UiCncICM&feature=emb_logo https://www.youtube.com/watch? v=887UiCncICM&feature=emb_logo19.Shivaprakash STool Engineeringhttps://www.youtube.com/watch? v=acSJG_tdVeA&feature=emb_logo https://www.youtube.com/watch? v=eKu2fsfUMU4&feature=emb_logo20.Ravikumar M.Thermal Sciences https://www.youtube.com/watch? v=eL2fsfUMU4&feature=emb_logo21.YaragudriMachine designhttps://www.youtube.com/watch?v=- TGO_EC4cEk&feature=emb_logo https://www.youtube.com/watch?v=-22.NagabhushanaManufacturingv=vSRtzT-GEKY&feature=emb_logo https://www.youtube.com/watch? v=HOSyxx5qpA&feature=emb_logo https://www.youtube.com/watch? v=ipvZQwffA0&feature=emb_logo23.Sudarshan T A Science and EngineeringThermal v=frvdIKxwNYs&feature=emb_logo https://www.youtube.com/watch? v=ipvZZOwffA0&feature=emb_logo https://www.youtube.com/watch? v=QHxNYQHrNdw&feature=emb_logo https://www.youtube.com/watch? v=RCXD1d78NE&feature=emb_logo24.Veeresha GMachine designhttps://www.youtube.com/watch? v=RCXD1d78NE&feature=emb_logo https://www.youtube.com/watch? v=RCXD1d78NE&feature=emb_logo25.Chatan Kumar D SMachine designhttps://www.youtube.com/watch? v=RCXD1d78NE&feature=emb_logo25.Chatan Kumar D SMachine designhttps://www.youtube.com/watch? v=RCXD1d78NE&feature=emb_logo26.Veeresha GMachine designhttps://www.youtube.com/watch? v	17.	Maramreddy	Manufacturi	https://www.youtube.com/watch?
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	Sujeeth Swami	Integrated	v=TPdQOH4kZ9E&feature=emb_logo
30.		Manufacturi	https://www.youtube.com/watch?
		ng	v=YBnFu-K5UOc&feature=emb_logo
			https://www.youtube.com/watch?v=NxM-
			AfJKlyo&feature=emb_logo
			https://www.youtube.com/watch?
31.	Ronald Reagon R	Thermal Power	v=aZh_ZrWfvRM&feature=emb_logo
		Engg	https://www.youtube.com/watch?
			v=M3mg79Kg-GQ&feature=emb_logo
			https://www.youtube.com/watch?
		Manufacturing	v=QRwWifp5HaA&feature=emb_logo
32.	Madhusudan K	Science &	https://www.youtube.com/watch?
		Engineering	v=1mTkhtsEyls&feature=emb_logo
			https://www.youtube.com/watch?
			v=M3mg79Kg-GQ&feature=emb_logo
			https://www.youtube.com/watch?
33.	Kemparaju C R	Thermal Power	v=9psusgX7D5Y&feature=emb_logo
		Eng.	https://www.youtube.com/watch?
			v=mEwSfqyuI8o&feature=emb_logo

			https://www.youtube.com/watch?
			v=dLSMeUvbGa4&feature=emb_logo
			https://www.youtube.com/watch?
34.	Pavan Prabhakar	Machine Design	v=oRgIMsCNEC8&feature=emb_logo
	Kadole		https://www.youtube.com/watch?
			v=jmsWvBSCAjI&feature=emb_logo
			https://www.youtube.com/watch?
			v=GekUTWbkvwU&feature=emb_logo
35.	Karthik S N	Advanced Material	https://www.youtube.com/watch?v=c6Q
		Technology	k3VLKU&feature=emb_logo
			https://www.youtube.com/watch?
			v=7SID2LSn9K8&feature=emb_logo
			https://www.youtube.com/watch?
36.	Megha Shukla	Machine design	v=xLiwJbXVifE&feature=emb_logo
			https://www.youtube.com/watch?
			v=IUig_z4gSXA&feature=emb_logo
			https://www.youtube.com/watch?
			v=reiUXjkX9OU&feature=emb_logo
			https://www.youtube.com/watch?
37.	Kamalasish Deb	Thermal	v=PGN2Mk6MEq0&feature=emb_logo
		Engineering	https://www.youtube.com/watch?
			v=hWSbQgx9NmU&feature=emb_logo
			https://www.youtube.com/watch?
			v=yd5NRIPXZ24&feature=emb_logo
38.	Vinod Kumar G S	Materials science	https://www.youtube.com/watch?
		& Eng.	v=xSYlbfJeYXQ&feature=emb_logo
		Product	https://www.youtube.com/watch?
	Vinayak Prakash	design and	v=fvbtNOPA6TQ&feature=emb_logo
39.	Balehittal	manufactur	https://www.youtube.com/watch?
		ing	v=7WwcjbPUeEM&feature=emb_logo
			https://www.youtube.com/watch?
			v=hWSbQgx9NmU&feature=emb_logo
40.	Deepthi K.R.	Aeronautical	https://www.youtube.com/watch?
		engineering	v=cFcSJMRSz1c&feature=emb_logo
			https://www.youtube.com/watch?v=JY-
	Lakshminarasimh		1JZxlVmw&feature=emb_logo
41.	a N	Thermal	https://www.youtube.com/watch?
		engineering	v=QHxNYQHrNdw&feature=emb_logo
		Computer	https://www.youtube.com/watch?
		Integrated	v=JPYiS4aZruw&feature=emb_logo
42.	Nithin	Manufacturing	https://www.youtube.com/watch?v=v-g9-
			5hbECs&feature=emb_logo

			https://www.youtube.com/watch?
			v=Abwok00eVbU&feature=emb_logo
43.	Dr.Aditi Raj	Mechanical	https://www.youtube.com/watch?v=mR-
			pixaJt-I&feature=emb_logo
			https://www.youtube.com/watch?
			v=O9wK1otj6sw&feature=emb_logo
44.	Naresh K S	Machine design	https://www.youtube.com/watch?
			v=noWKh9eVL0U&feature=emb_logo
			https://www.youtube.com/watch?
			v=3qJQnoLlDLM&feature=emb_logo
45.	Vinay D R	Design	https://www.youtube.com/watch?
		Engineering	v=QnYAuH33uew&feature=emb_logo

## Table 5.5.6 Faculty competencies in correlation to the Reviewed/ Editorialship of Journals

SI.	Name of the	Competency	Reviewed Journals with respect to		
No	Faculty		specialization		
			1. International Journal of Mechanical		
			and Materials Engineering, University		
1.	Dr. Viswanath		of Malaysia.		
	Bellie	Nano Materials,	2. Journal of Tribology, Springer and		
		Tribology	IE.		
			3. Journal of Nanoparticle Research,		
			Springer publications.		
			4. International Journal of Nano		
			science. World Scientific publisher.		

#### Table 5.5.7 Faculty competencies in guidance of projects

<b>S.</b>	Name of the	Competency Project Guidance provided to students				
No	Faculty		and made them to publish the works			
1	Dr. Ganesh Prasad	Mechanical	Wear and corrosion resistance of			
	M S	Engineering	titanium carbo-nitride coated Al-7075			
		Science produced through PVD				
		Static & dynamic performance analysis				
		and modal simulations of single point				
		cutting tool				
		Mathematical Modeling on the Residual				
		Stresses in Coatings Due to Heat				
		Treatments				
		FDM Process Parameter Optimization				
		by Taguchi Technique for Augmenting				
			the Mechanical Properties of Nylon-			

		Aramid Composite Used as Filament Material				
			Nylon-aramid polymer composite as sliding liner for lube-less sliding bearing by fused deposition modeling			
			Melanoma Skin Cancer Classification Using Deep Learning Convolutional Neural Network			
2	Dr.	Industrial	Skin Cancer Diagnostic using Machine Learning Techniques – Shearlet Transform and Naïve Bayes Classifier			
	GopalaKrishnan Kanapathy	Engineering	Skin Cancer Diagnostic using Machine Learning Techniques – Stationary Wavelet Transform and Random Forest Classifier			
3.	Dr. Viswanath Bellie	Mechanical Sciences	HVOF Sprayed Mullite Coatings for Use In Extreme Environments			
4	Dr. Priyabrata Adhikary	Renewable Energy & Turbomachine,	Performance Analysis of Axial Flow Pump: A Case Study Analysis on HVAC chilled water pump performance			
		RAC, FM	Analysis on propeller pump performance Eabrication Modelling and Analysis of			
5	Mr. Shivaprakash S	Manufacturing	Track Buggy Simulation and Hardness Test of Kevlar and Glass Fibre Composite for Bullet Proof and Stab resistant Vest			
6.	Mr. Sudarshan T A	Thermal Science and Engineering	Fabrication of Voice Operated Wheelchair using Android Phone			
7.	Mr. Hanamant Yaragudri	Machine Design	Study & Fabrication of IoT Enabled VAWT			
8.	Mr. Karthik S N	Advanced Material Technology	Effect of Heat Treatment on Mechanical Properties of Cu30Ni5Zn Alloys			
9.	Mr. Bopanna K D	Computer Integrated Manufacturing	Review on the Comparative Study for Optimization Methods of Thermal Devices			
10	Mr. Ronald Reagon R	Thermal Power Engg	Flow Analysis of Lube System of a Gas Turbine Engine			

	Mr. Kemparaju C	Thermal Power	Design & Fabrication of Magnetic	
11.	R	Engg	Suspension for Two-Wheeler	
12	Nagabhushana N	Manufacturing	Safety Enhancement for Four-Wheeler	
13	Mr. Puneeth	Tool	Design of Auto-Drilling Mechanism for	
	HV	Engineering	Dynamic Balancing of Rotors used in	
			Generators	

### Table 5.5.8 Faculty competencies in correlation to Research Patents

		Patent details				
SI.	Name of Authors	Title of patent	Applica	Date of	Publication	
No			tion No	Publica	Reference	
				tion		
	Dr. Manjunatha,					
	Dr. M S Ganesha	Design and Fabrication of				
	Prasad, Rakesh C, Vikas	Autonomous Lubrication				
	Kumar, Utkarsh Singh,	of Chain			E-	
1.	PappuSaha, Saroj		2017410	23.05.	2/1422/201	
	Kumar,		18085	2017	7- CHE	
	Dr.ShirdharKurse,					
	Puneeth.H.V,					
	Bopanna. K.D					
	Dr. Manjunatha					
	Dr. M S Ganesha Prasad					
	Ronald R Reagon	Design and Development			E-	
	Arshad Ayub, Khaiser	of Electric Powerless	2017410	23.05.	2/1423/201	
	Ahmed	Refrigerator	18086	2017	7- CHE	
2.	Mohammed Sufiyan S					
	Abdul Samadh M.N,					
	Lohith. N					
	Madhusudhan,					
	Santhosh					
	Lokesh,					
	Priyanka Sairam					
	Dr. M. S. Ganesha					
	Prasad	Glass Cleaning				
	Dr. Manjunatha,	Automated Robot for			E-	
3.	Dr. ShirdharKurse,	High Rise Building	2017410	23.05.	2/1417/201	
	Dr. BellieViswanath	Applications	18080	2017	7- CHE	
	Chetan Kumar. D.S,					
	Veeresha. G,					
	Manjesh.B.C					

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<b>U</b>	/	-2	U

	Dr. BellieViswanath	Mullite ceramic Coating			
	Dr. Manjunatha, Dr. M S	on cast aluminum pistons			
	Ganesha Prasad,	and cylinder heads for IC			
	Nagabhushana. N	Engine applications			E-
4.	Ravikumar. M,		2017410	23.05.	2/1420/201
	Nagendra		18083	2017	7- CHE
	Srinath. M.K,				
	Kemparaju				
	Dr. Manjunatha				
	Dr. M S Ganesha				
	Prasad				
	Shivaprakash. S,				
	Francis Evans,	Combined Solar and			
	Kumar Ankit, Deepti,	Wind Energy Water			E-
5.	S. Vishanth,	Pumping System	2017410	23.05.	2/1419/201
	Hanamanth. Y		18082	2017	7- CHE
	Rajesh. A,				
	Kamalashish Deb				
	Dr. Manjunatha,				
	Dr. M S Ganesha				
	Prasad,	Design and Fabrication of			
	Bopanna K.D,	Solar Powered Bicycle			E-
6.	Jebin Koshy Sabu,		2017410	23.05.	2/1418/201
	DilshadDavood,		18081	2017	7- CHE
	ShabazZaheer,				
	Joby James,				
	Ronald Regan,				
	Raghu Tilak Reddy				
	Dr. Manjunatha,				
	Dr. M S Ganesha				
	Prasad,				
	Rakesh C	Novel Method for			E-
7.	Siddarth Dinesh,	Conversion of Waste	2017410	23.05.	2/1416/201
	Mohnish Raj D,	Plastic into Fuel	18079	2017	7- CHE
	Markose, Sandeep				
	Ramesh, Puneeth. H.V				
	Karthik, Megha Shukla				
	Dr. K. Gopalakrishnan	System and Method for			
	Dr. Manjunatha, Dr.	Smart Sustainable and			E-
	M.S. Ganesha Prasad,	Expandable Helmet with	2017410	23.05.	2/1413/201
8.		IoT Capabilities	18076	2017	7- CHE

9.	Dr. Manjunatha, Dr. M S Ganesha Prasad, Rakesh C S.M.Danish, Shivam, Harish Kumar Yadav, Atinder Pal Singh, Puneeth. H.V,	System and Method for Exo Skeleton for Lower Limb	2017410 18077	23.05. 2017	E- 2/1414/201 7- CHE
	Bopanna.KD, Nagabhushana.N				
10.	Dr. Manjunatha, Dr. M S Ganesha Prasad, Shivaprakash. S Chetan Kumar S,Tarihal Nandeesh P, Naveen M Vineet K Gokhale, Suigeth	Multi Purpose Agricultural Robot	2017410 18087	23.05. 2017	E- 2/1424/201 7- CHE
11.	Dr. Kanapathy Gopalakrishnan Dr. Manjunatha	Novel Arrangement of Apparatus, System and Method for evolving the Raja's Winning Basketball Pentagon Model	2017410 32324	13.09. 2017	E- 2/2707/201 7- CHE
12.	Dr. Manjunatha, Dr. M S Ganesha Prasad, Manjesh B C, RaghuramMacharaja, Mohith Vijay, Navdeep S, Rohit Srinivasan S, CharanNallode	Novel Method of Carbon Dioxide Sequestration from Exhaust Using Zeolites	2017410 32344	13.09. 2017	E- 2/2726/201 7- CHE
13.	Dr. Manjunatha Dr. M S Ganesha Prasad Rakesh C, Baldev Raj C Aakash Murthy, Anwin TV Joseph, JerrySabore	Design of CNC Based Maintenance and Safety System for High Rise Buildings	2017410 32343	13.09. 2017	E- 2/2725/201 7- CHE
14.	Dr. Manjunatha Dr. M S Ganesha Prasad Srinath M.K, Mahesh S Praveen Kumar H.M, Satish.M	Development of Three Wheel Handicapped Steering Propulsion Cycle	2017410 32347	13.09. 2017	E- 2/2729/201 7- CHE

	Dr. Manjunatha,				
	Dr. M S Ganesha Prasad				
	Shivaprakash S				
	Mohammed Sabir				
	ChitwadgiNurul Islam,	GSM Controlled Multi-			E-
	Mohan Sharma	Purpose Agricultural	2017410	13.09.	2/2731/201
15.	Sandeep Sharma	Robot	32347	2017	7- CHE
	Dr. Manjunatha				
	Dr. M S Ganesha	Fresnel Lens and			
	Prasad	Thermoelectric Module			
	Rakesh C,	Aided Solar Desalination			E-
16.	CharanNallode	Unit	2017410	13.09.	2/2732/201
	Adhvaith M,		32350	2017	7- CHE
	AH.Akshay Krishna				
	Dr. Manjunatha				
	Dr. M S Ganesha				
	Prasad	Novel Ergonomic			
	Puneeth H V,	Industrial Seating Support			E-
17.	SachinPamadinni, N		2017410	13.09.	2/2728/201
	Sreevathasa		32346	2017	7- CHE
	CharanNallode				
	Dr. Manjunatha				
	Dr. M S Ganesha Prasad	Design and Optimization			
	Ronald Reagon, Abhash	of Lever Propelled All-			
	Singh, Anuraj Joshi,	Terrain Wheel Chair			E-
18.	AbhinavAnand,		2017410	13.09.	2/2724/201
	CharanNallode		32342	2017	7- CHE
	Dr. Manjunatha				
	Dr. M S Ganesha				
	Prasad				
	Ravikumar M,	Automatic Drain Cleaning			E-
19.	BrijKishor Yadav,	Machine	2017410	13.09.	2/2734/201
	Tariq Hussain		32350	2017	7- CHE
	Gaurishankar,				
	Suresh V B				
	Dr. Manjunatha				
	Dr. M S Ganesha				
	Prasad				
	Nagendra J,	Flexible Fixture for			
	Parameshwar	Towing			E-
20.	ChandanSah, Dipak	-	2017410	13.09.	2/2730/201
	TiwariKeshav Raj		32348	2017	7- CHE
		1			

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	Dr. Manjunatha				
	Dr. M S Ganesha				
	Prasad				
	Nagendra J,	Pedal Powered			E-
21.	Bachu Ravi Tejaswar	Reciprocating Pump	2017410	13.09.	2/2704/201
	Reddy, Bharath N		32321	2017	7- CHE
	Likith S, Nagesh K M				
	Dr. Manjunatha				
	Dr. M S Ganesha				
	Prasad,				
	Bopanna,				
	Aghil Babu,	Improved Lead Acid			E-
22.	Jefferey JosephStephen,	Battery	2017410	13.09.	2/2727/201
	Joemine Gerald Joshy,		32345	2017	7- CHE
	BhanuprakashSairam				
		Novel Arrangement of			
		Apparatus, System and			
	Dr. Kanapathy	Method for Experiential			E-
	Gopalakrishnan	Learning System (ELS)			2/2715/201
23.	Dr. Manjunatha	and Method for Smart	2017410	13.09.	7- CHE
		Coaching Team Game	32332	2017	
		(MSCTG)			
	Dr. Kanapathy	Novel Arrangement of			
24.	Gopalakrishnan	Apparatus, System and			E-
	Dr. Manjunatha	Method for Evolving			2/2712/201
		Winning Trilogy of Team	2017410	13.09.	7- CHE
		Game (WTTG)	32329	2017	
		Novel Arrangement of			
	Dr. Kanapathy	Apparatus, System and			
25.	Gopalakrishnan	Method for evaluating			
	Dr. Manjunatha	the major factors to be			E-
		considered for the	2017410	13.09.	2/2714/201
		Basketball Winning	32331	2017	7- CHE
		Strategy (BWS)			
		Novel Arrangement of			
	Dr. Kanapathy	Apparatus, System and			
26.	Gopalakrishnan	Method for evolving the			
	Dr. Manjunatha	Research Tool with			E-
		Methodology and the	2017410	13.09.	2/2713/201
		Sequence of Study	32330	2017	7- CHE
		(RTMSS)			

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		Novel Arrangement of			
		Apparatus, System and			
		Method for identifying			
	Dr. Kanapathy	effective tools and			
	Gopalakrishnan	techniques for the			E-
27.	Dr. Manjunatha	Improvement of	2017410	13.09.	2/2710/201
		Performance of an	32327	2017	7- CHE
		Individual Player/Team			
		(IPIPT)			
	Dr. Kanapathy	Novel Arrangement of			
	Gopalakrishnan	Apparatus, System and			
	Dr. Manjunatha	Method for developing			E-
28.		Process Approach to	2017410	13.09.	2/2708/201
		Coaching Basketball	32325	2017	7- CHE
		(PACB)			
	Dr. Kanapathy	Novel Arrangement of			
	Gopalakrishnan	Apparatus, System and			
	Dr. Manjunatha	Method for developing the			E-
29.		Winning Trilogy and	2017410	13.09.	2/2703/201
		Winning Metrics	32320	2017	7- CHE
		(WTWM)			
	Dr. Kanapathy	Novel Arrangement of			
30.	Gopalakrishnan	Apparatus, System and			
	Dr. Manjunatha	Method for developing the			E-
		Raja's Taxonomy of	2017410	13.09.	2/2721/201
		Winning Strategies	32338	2017	7- CHE
		(RTWS)			
	Dr. Kanapathy	Novel Arrangement of			
31.	Gopalakrishnan	Apparatus, System and			E-
	Dr. Manjunatha	Method for evolving			2/2705/201
		Winning Competency	2017410	13.09.	7- CHE
		Model (WCM)	32322	2017	
		Novel Arrangement of			
	Dr. Kanapathy	Apparatus, System and			
32.	Gopalakrishnan	Method for evolving			
	Dr. Manjunatha	Model to Indentify the			
		Parameters Influencing the			E-
		Winning/Loosing	2017410	13.09.	2/2706/201
		(MIPIW/L) of any team	32323	2017	7- CHE
		game			

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Apparatus, System and Dr. Kanapathy GopalakrishnanApparatus, System and Method for ensuring for Better TeamE-33.Dr. Manjunathafor Better Team201741013.09.2/2702/201Performance (ECCBTP)3231920177- CHENovel Arrangement of Apparatus, System and Dr. Kanapathy GopalakrishnanNovel Arrangement of Apparatus, System and for Better PerformanceE-34.Dr. Manjunathafor Better Performance for Better Performance201741013.09.2/2701/20134.Dr. Manjunathafor Better Performance during the Play (CAEDBP)3231820177- CHENovel Arrangement of Apparatus, System and Dr. Kanapathy GopalakrishnanNovel Arrangement of Apparatus, System and Method for Analyzing GopalakrishnanE-35.Dr. Manjunathafor Winning Basketball for Winning Basketball (CAEDWB)201741013.09.2/2709/201 (Z2709/201 (CAEDWB)36.Dr. ManjunathaTwo In One Wheel Spanner Cum Jack HandleE-36.Dr. ManjunathaTwo In One Wheel Spanner Cum Jack Handle201741003.10.2/2924/201			Novel Arrangement of			
Dr. Kanapathy GopalakrishnanMethod for ensuring Expected Cultural ChangeE.33. Dr. Manjunathafor Better Team for Better Team201741013.09.2/2702/201Performance (ECCBTP)3231920177- CHENovel Arrangement of Apparatus, System and GopalakrishnanNovel Arrangement of Apparatus, System and for Better PerformanceE-34. Dr. Manjunathafor Better Performance for Better Performance201741013.09.2/2701/201Juring the Play (CAEDBP)3231820177- CHENovel Arrangement of Apparatus, System and for Better Performance201741013.09.2/2701/201Juring the Play (CAEDBP)3231820177- CHENovel Arrangement of Apparatus, System and Dr. Kanapathy GopalakrishnanMethod for Analyzing Cause and Effect DiagramE-35. Dr. Manjunathafor Winning Basketball for Winning Basketball (CAEDWB)201741013.09.2/2709/20136. Dr. ManjunathaTwo In One Wheel Spanner Cum Jack HandleE-201741003.10.2/2924/2013491520177- CHE10.03.10.10.10.10.10.10.			Apparatus, System and			
GopalakrishnanExpected Cultural Change for Better TeamE-33.Dr. Manjunathafor Better Team201741013.09.2/2702/201Performance (ECCBTP)3231920177- CHENovel Arrangement of Apparatus, System and Dr. KanapathyNovel Arrangement of Apparatus, System and for Better PerformanceE-34.Dr. Manjunathafor Better Performance during the Play (CAEDBP)20177- CHENovel Arrangement of Apparatus, System and Dr. KanapathyE-201741013.09.2/2701/20135.Dr. Manjunathafor Winning Basketball (CAEDWB)201741013.09.2/2709/20136.Dr. ManjunathaTwo In One Wheel Spanner Cum Jack HandleE-E-36.Dr. ManjunathaTwo In One Wheel Spanner Cum Jack Handle201741003.10.2/2924/2013491520177- CHE3491520177- CHE		Dr. Kanapathy	Method for ensuring			
33.Dr. Manjunathafor Better Team Performance (ECCBTP)201741013.09.2/2702/2013231920177- CHENovel Arrangement of Apparatus, System and GopalakrishnanNethod for Analyzing Cause and Effect DiagramE-34.Dr. Manjunathafor Better Performance during the Play (CAEDBP)20177- CHENovel Arrangement of Apparatus, System and Dr. Kanapathy GopalakrishnanFereing Apparatus, System and during the Play (CAEDBP)201741013.09.2/2701/20135.Dr. Manjunathafor Winning Basketball (CAEDWB)201741013.09.2/2709/20135.Dr. Manjunathafor Winning Basketball (CAEDWB)201741013.09.2/2709/20136.Dr. ManjunathaTwo In One Wheel Spanner Cum Jack Handle 2017410E-E-36.Dr. ManjunathaTwo In One Wheel Spanner Cum Jack Handle 201741020177- CHE		Gopalakrishnan	Expected Cultural Change			E-
Image: Novel Arrangement of Apparatus, System and Dr. Kanapathy GopalakrishnanNovel Arrangement of Apparatus, System and Cause and Effect DiagramE-34.Dr. Manjunathafor Better Performance during the Play (CAEDBP)20177 - CHE34.Dr. Manjunathafor Better Performance during the Play (CAEDBP)20177 - CHE35.Dr. ManjunathaMethod for Analyzing GopalakrishnanE-E-35.Dr. Manjunathafor Winning Basketball for Winning Basketball (CAEDWB)201741013.09.2/2709/20136.Dr. ManjunathaTwo In One Wheel Spanner Cum Jack HandleE-E-E-36.Dr. ManjunathaTwo In One Wheel Spanner Cum Jack Handle201741003.10.2/2924/2013491520177 - CHEE-E-E-36.Dr. ManjunathaTwo In One Wheel Spanner Cum Jack Handle201741003.10.2/2924/2013491520177 - CHEE-E-36.Dr. ManjunathaTwo In One Wheel Spanner Cum Jack Handle201741003.10.2/2924/2013491520177 - CHEE-36.Dr. ManjunathaSpanner Cum Jack Handle201741003.10.2/2924/201	33.	Dr. Manjunatha	for Better Team	2017410	13.09.	2/2702/201
Novel Arrangement of Apparatus, System and Dr. Kanapathy GopalakrishnanNovel Arrangement of Apparatus, System and Method for Analyzing Cause and Effect DiagramE-34. Dr. Manjunathafor Better Performance during the Play (CAEDBP)201741013.09.2/2701/20134. Dr. Manjunathafor Better Performance during the Play (CAEDBP)20177- CHEDr. Kanapathy GopalakrishnanNovel Arrangement of Apparatus, System and Method for Analyzing Cause and Effect DiagramE-35. Dr. Manjunathafor Winning Basketball (CAEDWB)201741013.09.2/2709/20136. Dr. ManjunathaTwo In One Wheel Spanner Cum Jack Handle 2017410E-E-36. Dr. ManjunathaTwo In One Wheel Spanner Cum Jack Handle 2017410E-201741003.10.			Performance (ECCBTP)	32319	2017	7- CHE
Apparatus, System and Dr. Kanapathy GopalakrishnanApparatus, System and Method for Analyzing Cause and Effect Diagram for Better PerformanceE-34.Dr. Manjunathafor Better Performance during the Play (CAEDBP)2017410 3231813.09. 2/2701/201 7- CHE34.Dr. Manjunathafor Better Performance Apparatus, System and Method for Analyzing Gopalakrishnan2017410 Apparatus, System and Method for Analyzing Cause and Effect DiagramE-35.Dr. Kanapathy Gopalakrishnanfor Winning Basketball (CAEDWB)2017410 3232613.09. 2/2709/201 7- CHE36.Dr. ManjunathaTwo In One Wheel Spanner Cum Jack HandleE-36.Dr. ManjunathaTwo In One Wheel Spanner Cum Jack HandleE-			Novel Arrangement of			
Dr. Kanapathy GopalakrishnanMethod for Analyzing Cause and Effect Diagram for Better Performance during the Play (CAEDBP)E-34.Dr. Manjunathafor Better Performance during the Play (CAEDBP)2017410 3231813.09. 20172/2701/201 7- CHE4.Dr. ManjunathaNovel Arrangement of Apparatus, System and Method for Analyzing GopalakrishnanE-E-35.Dr. ManjunathaCause and Effect Diagram for Winning Basketball (CAEDWB)2017410 3232613.09. 2/2709/201 2/2709/20136.Dr. ManjunathaTwo In One Wheel Spanner Cum Jack Handle 34915E-			Apparatus, System and			
GopalakrishnanCause and Effect Diagram for Better Performance during the Play (CAEDBP)E-34.Dr. Manjunathafor Better Performance during the Play (CAEDBP)2017410 3231813.09. 20172/2701/201 7- CHEApparatus, System and Dr. Kanapathy GopalakrishnanNovel Arrangement of Apparatus, System and Cause and Effect Diagram for Winning Basketball (CAEDWB)E-35.Dr. Manjunathafor Winning Basketball (CAEDWB)2017410 3232613.09. 2/2709/201 2/2709/20136.Dr. ManjunathaTwo In One Wheel Spanner Cum Jack HandleE-36.Dr. ManjunathaFwo In One Wheel Spanner Cum Jack HandleE-3491520177- CHE		Dr. Kanapathy	Method for Analyzing			
34.Dr. Manjunathafor Better Performance during the Play (CAEDBP)2017410 3231813.09. 20172/2701/201 7- CHE34.Dr. ManjunathaNovel Arrangement of Apparatus, System and Method for Analyzing Cause and Effect Diagram for Winning Basketball (CAEDWB)Novel Arrangement of 2017410Image: Cause and Effect Diagram 32326Image: Cause and Effe		Gopalakrishnan	Cause and Effect Diagram			E-
during the Play (CAEDBP)3231820177- CHENovel Arrangement of Apparatus, System and Dr. Kanapathy GopalakrishnanNovel Arrangement of Apparatus, System and Cause and Effect Diagram for Winning Basketball (CAEDWB)E-35.Dr. ManjunathaFor Winning Basketball (CAEDWB)201741036.Dr. ManjunathaTwo In One Wheel Spanner Cum Jack HandleE-36.Dr. ManjunathaFor Winning Cum Jack Handle (CAEDWB)20174103491520177- CHE	34.	Dr. Manjunatha	for Better Performance	2017410	13.09.	2/2701/201
Novel Arrangement of Apparatus, System and Dr. Kanapathy GopalakrishnanNovel Arrangement of Apparatus, System and Method for Analyzing Cause and Effect Diagram for Winning Basketball (CAEDWB)E-35. Dr. Manjunathafor Winning Basketball (CAEDWB)2017410 3232613.09. 2/2709/201 7- CHE36. Dr. ManjunathaTwo In One Wheel Spanner Cum Jack Handle 34915E-			during the Play (CAEDBP)	32318	2017	7- CHE
Apparatus, System and Dr. Kanapathy GopalakrishnanApparatus, System and Method for Analyzing Cause and Effect Diagram for Winning Basketball (CAEDWB)Let 2017410E-36.Dr. ManjunathaTwo In One Wheel Spanner Cum Jack HandleE-E-36.Dr. ManjunathaTwo In One Wheel Spanner Cum Jack HandleE-			Novel Arrangement of			
Dr. Kanapathy GopalakrishnanMethod for Analyzing Cause and Effect Diagram for Winning Basketball (CAEDWB)E-35. Dr. Manjunathafor Winning Basketball (CAEDWB)2017410 3232613.09. 20172/2709/201 7- CHE36. Dr. ManjunathaTwo In One Wheel Spanner Cum Jack HandleE-36. Dr. ManjunathaTwo In One Wheel 34915E-			Apparatus, System and			
GopalakrishnanCause and Effect Diagram for Winning Basketball (CAEDWB)E-35.Dr. Manjunathafor Winning Basketball (CAEDWB)2017410 3232613.09. 20172/2709/201 7- CHE36.Dr. ManjunathaTwo In One Wheel Spanner Cum Jack HandleE-36.Dr. ManjunathaSpanner Cum Jack Handle 349152017410 201703.10. 7- CHE		Dr. Kanapathy	Method for Analyzing			
35.       Dr. Manjunatha       for Winning Basketball (CAEDWB)       2017410       13.09.       2/2709/201         36.       Dr. Manjunatha       Two In One Wheel       E-         36.       Dr. Manjunatha       Spanner Cum Jack Handle       2017410       03.10.       2/2924/201         34915       2017       7- CHE		Gopalakrishnan	Cause and Effect Diagram			E-
(CAEDWB)         32326         2017         7- CHE           36. Dr. Manjunatha         Two In One Wheel         E-           36. Dr. Manjunatha         Spanner Cum Jack Handle         2017410         03.10.         2/2924/201           34915         2017         7- CHE	35.	Dr. Manjunatha	for Winning Basketball	2017410	13.09.	2/2709/201
36. Dr. ManjunathaTwo In One Wheel Spanner Cum Jack HandleE-201741003.10.2/2924/2013491520177- CHE			(CAEDWB)	32326	2017	7- CHE
36.         Dr. Manjunatha         Spanner Cum Jack Handle         2017410         03.10.         2/2924/201           34915         2017         7- CHE			Two In One Wheel			E-
34915 2017 7- CHE	36.	Dr. Manjunatha	Spanner Cum Jack Handle	2017410	03.10.	2/2924/201
				34915	2017	7- CHE
Dr. K. Goplakarishnan Straight Drive Signal E-		Dr. K. Goplakarishnan	Straight Drive Signal			E-
37. Dr. Manjunatha Indicator' for Automobiles 2017410 03.10. 2/2934/201	37.	Dr. Manjunatha	Indicator' for Automobiles	2017410	03.10.	2/2934/201
34936 2017 7- CHE				34936	2017	7- CHE
Firefighting with Low Cost E-			Firefighting with Low Cost			E-
38. Dr. Manjunatha         CO2 Canister         2017410         03.10.         2/2928/201	38.	Dr. Manjunatha	CO2 Canister	2017410	03.10.	2/2928/201
34919 2017 7- CHE				34919	2017	7- CHE
Improved Windscreen E-			Improved Windscreen			E-
39. Dr. Manjunatha Wiper 2017410 03.10. 2/2920/201	39.	Dr. Manjunatha	Wiper	2017410	03.10.	2/2920/201
34911 2017 7- CHE				34911	2017	7- CHE
Replacing External Jack in E-			Replacing External Jack in			E-
40. Dr. Manjunatha Vehicles with Built-in 2017410 03.10. 2/2915/201	40.	Dr. Manjunatha	Vehicles with Built-in	2017410	03.10.	2/2915/201
Pillar Jacks 34905 2017 7- CHE			Pillar Jacks	34905	2017	7- CHE
LED Panel to Replace E-			LED Panel to Replace			E-
41. Dr. Manjunatha Individual Tail Lamps in 2017410 03.10. 2/2927/201	41.	Dr. Manjunatha	Individual Tail Lamps in	2017410	03.10.	2/2927/201
Automobiles 34918 2017 7- CHE			Automobiles	34918	2017	7- CHE
Refrigerator with Warmer E-			Refrigerator with Warmer			E-
42. Dr. Manjunatha Compartment 2017410 03.10. 2/2926/201	42.	Dr. Manjunatha	Compartment	2017410	03.10.	2/2926/201
34917 2017 7- CHE				34917	2017	7- CHE

		New Column Box that will			
		be Suitable for Reinforced			E-
43.	Dr. Manjunatha	Walls Integrated with	2017410	03.10.	2/2925/201
		Columns	34916	2017	7- CHE
	Amarnath	Bubble Jet Bottle Cap			E-
44.	Karthick	Opener	2017410	03.10.	2/2922/201
	Dr. Manjunatha		34913	2017	7- CHE
	Amarnath	A Collapsible Bubble Jet			E-
45.	Karthick	Bottle	2017410	03.10.	2/2914/201
	Dr. Manjunatha		34904	2017	7- CHE
	Amarnath Karthick	Multiple Choices Pillow			E-
46.	Dr. Manjunatha	with Adjustable Height	2017410		2/2932/201
			34934	03.10.	7- CHE
				2017	
	Amarnath	A Hand Tool with			E-
47.	Karthick	Detachable	2017410	03.10.	2/2918/201
	Dr. Manjunatha	Griping/Serrated Jaw	34908	2017	7- CHE
	Amarnath	Novel Fool Proof Flow			E-
	Karthick	Indicator with No Rotating	2017410	03.10.	2/2921/201
48.	Dr.Manjunatha	Parts such as Blades or	34912	2017	7- CHE
		Wanes			
		Novel Arrangement of			
		Apparatus, System and			
		Method of Process			
		Approach Learning Model			
		(PALM) for Overall			
		Development of Students			E-
49.	Dr. K. Gopalakrishnan	at Engineering Educational	2017410	03.10.	2/2910/201
		Institutions (EEIs) Using	34900	2017	7- CHE
		an Efficient Cloud			
		Platform			
		Novel Arrangement of			
		Apparatus, System and			
		Method of Institutional			
		Transformation for			
		Excellence in Corporate			5
50		Education (ITECE) Model	2017410	02.10	E-
50.	Dr. K. Gopalakrishnan	for Engineering	2017410	03.10.	2/2911/201
		Educational Institutions	54901	2017	/- CHE
		(EEIS) Using an Efficient			
		Cloud Platform			

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		Novel Arrangement of			
		Apparatus, System and			
		Method of Learning			
		Network Growth Model			
	Dr. K. Gopalakrishnan	for Engineering			E-
51		Educational Institutions	2017410	03.10	2/2912/201
		(EEIs) Using an Efficient	34902	2017	7- CHE
		Cloud Platform	0.1902	2017	
		Novel Arrangement of			
		Apparatus System and			
		Method for Enhancing the			
		Competitiveness of			
		Institute-Industry-			
	Dr. K. Gonalakrishnan	Collaboration (IIC) at			F-
52		Engineering Educational	2017/10	03 10	2/2013/201
52.		Institutions (EEIs) Using	3/003	2017	7- CHE
		an Efficient Cloud	54705	2017	
		Platform			
		Noval System			
		Arrengement of Apperatus			
		Arrangement of Apparatus, Mathad and Matrice for			
	Dr. Kononothy	Evoluting the D &D			
52	DI. Kallapatly	Evaluating the K&D			E
55.	Gopalakrishnan	Individual Continuously at	2017410	1711	E-
		Higher Educational	2017410	1/.11.	2/3301/201
			41149	2017	/- CHE
		Institutions (HEIS)			
		Novel System,			
		Arrangement of Apparatus,			
		Method and Metrics for			
		Evaluating the Progress of			
		Academic Research			
		(PhD/MS Thesis) Work as			<b>F</b>
- 1	Dr. Kanapatny	per the Calendar of an	2017410	1711	E-
54.	Gopalakrishnan	Individual Research	2017410	1/.11.	2/3497/201
		Scholar, Continuously at	41145	2017	/- CHE
		Higher Educational			
		Institutions (HEIS)			
		Novel System and Method			<b>F</b>
	Dr. K. Goplakarishnan	of Expanding Self-powered	0017440	00.11	E-
55.		Multi- purpose Auditorium	2017410	23.11.	2/3622/201
		on Low Bed Trailer	41983	2017	7- CHE

	Dr. Kanapathy	Novel System and Method			
	Gopalakrishnan	of Multi- purpose Loader			E-
56.	Dr. L.V. Muralikrishna	on Wheels	2017410	23.11.	2/3629/201
	Reddy		41990	2017	7- CHE
	Dr. Kanapathy	Novel System and Method			E-
57.	Gopalakrishnan	of Multi- purpose Elevator	2017410	23.11.	2/3631/201
		on Wheels	41992	2017	7- CHE
		Novel System and Method			E-
58.	Dr. K. Goplakarishnan	of Self- Breathable	2017410	23.11.	2/3623/201
		Improved Anti-Snoring	41984	2017	7- CHE
		Strap			
	Dr. K. Goplakarishnan	Novel System, Method and			E-
	Dr. M.S. Ganesha	Arrangement of Improved			2/3630/201
59.	Prasad	Anti- Snoring Pillow	2017410	23.11.	7- CHE
			41991	2017	
		Novel System, Design and			
60.	Mr. Nagabhushana. N	Method of Hybrid Solar	2018410	12.02.	E-
		Water Heating System	05151	2018	2/450/20
					18- CHE
	Dr. M S Ganesha	Novel System and Method			
	Prasad	of Fabrication of Small			
	Mr. Ravi Kumar M	Scale Sugarcane			
	Mr. Kishore K Reddy	Harvesting Machine			
61.	Mr. Narayana Swamy		2018410	12.02.	E-
	Mr. Sagar M H		05152	2018	2/451/20
	Mr. Siddaling				18- CHE
	Mr. Rakesh C Mr.	Novel System, Design and			
	Abhijith N	Method of Vertical Stack			
	Mr. Harshavardhan V S	Exhaust System to Control			
62.	Mr. Nagesha N	Direct Emission	2018410	12.02.	E-
	Mr. Sharanakumar		05153	2018	2/452/20
					18- CHE
	Mr. Ronald Reagon R	Novel System, Design and			
	Mr. VenkatSujith	Method of Design and			
	Krishna	Development of Power			E-
	Mr. Reddy Mohan Posa	Generating Revolving	2018410	12.02.	2/453/20
63.	Mr. Vinaya Prasad M.V	Door	05154	2018	18- CHE
	Mr. V.Avinash				
	Mr. Ravi Kumar M Mr.	Novel System, Design and			
	Tejas.K.M	Method of Design and			
	Mr. Sharif.M.Nadaf	Development of Smart		10.05	-
	Mr. Chowdeshwar.B	Wheel to Two Wheeler for	2018410	12.02.	E

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64.	Mr. Pramoda.G.K	Physically Challenged.	05155	2018	2/454/20
					18- CHE
	Dr. M.S. Ganesha Prasad	Novel System Design and			
	Mr. Subaas P	Method of Water Injection			
	Mr. Akshav K S	for Two Wheeler Engines			F-
	Mr. RijinPavithran	for 1 wo whether Engines.	2018410	12.02	2/456/20
65	Mr. ChinnaThamhi M		05157	12.02. 2018	18- CHE
05.	Dr. M.S. Ganesha	Novel System Design and	03137	2010	
	Dr. W 5 Gallesha	Method of Design and			
	Mr. Sringth M.V.	Development of Georless			
66	Mr MonoiD	Development of Gearless			
00.	Mr. Konthonoi N	Power Transmission Using			
	M D W	Scotch Yoke Mechanism.	2010410	10.00	F
	Mr. Praveen Kumar A		2018410	12.02.	E-
	Mr. Karhik L		05158	2018	2/457/20
					18- CHE
	Dr. M S Ganesha Prasad	Novel System, Design and			
	Mr. Ravi Kumar M Mr.	Method of Design and			
	Mandeep Singh	Development of Bladeless			
	Mr. Aditya Kumar	Vertical Wind Mill	2018410		E-
67.	Gupta Mr. Sumit Kumar		05159	12.02.	2/458/20
	Mr. Amir Sohil			2018	18- CHE
	Mr. Ravi Kumar M	Novel System, Method and			
	Mr. Aneesh Gopal	Design and Fabrication of			E-
	Mr. Krishna Maruthi	Manual and Automated			2/1141/201
	Mr. Naga Chowdary	System for Hydroponic			8- CHE
68.	Mr. Umakanth B S	Fodder	2018410	11.04.	
			13785	2018	
	Mr. Ronald Reagon R	Novel System, Method of			
	Mr. Karthigayan R M	Design and Development			
	Mr. Mahiboobu	of Eco-Friendly			E-
69.	Mr. ManjunathYelde	Refrigeration System.	2018410	11.04.	2/1142/201
	Mr. Manoj		13786	2018	8- CHE
	Mr. Rakesh C	A Study on Power			
	Mr. Abhishek V Reddy	Generation from Fluid			
	Mr. Anuj M Thomas,	Flowing Through Pipes.	2018410		E-
70.	Mr.Arun R		13787	11.04.	2/1143/201
	Mr. Hafiz Kassim			2018	8- CHE
		Novel System, Method and			
	Dr. M S Ganesha	Design of Compressed Air			E-
	Prasad	Generation from			2/2463/201
L	1	-			

	Ravi Kumar M	Suspension of	2018410	16.08.	8- CHE
71.		Automobiles for	30652	2018	
		Pneumatic Applications			
	Rakesh C	Novel System, Method and			
	Aditya Pradhan	Design and Optimization			E-
	Sumit Kumar	of Blades for Solar Grass	2018410	16.08.	2/2464/201
72.	Ansuman Dalai	Cutter	30653	2018	8- CHE
	Ravi Kumar Md.	Novel System, Method and			E-
	AsadullaShariff	Design and Development	2018410		2/2465/201
73.	Akshay Kumar Rathor	of Magnetic Elevator.	30654	16.08.	8- CHE
	AbhayPratap Singh			2018	
	Ronald Reagon R	Novel System and Method			
	Dhanush H N Kaushik	of Design and Fabrication			E-
	K N Maharaj S B	of Solar Dryer withVapor			2/3823/201
74.	Mani Kumar R	Absorption Refrigeration	2019410	28/11/	9- CHE
			48773	2019	
	Dr. M.S. Ganesha	A Handkerchief To Fight			E-
	Prasad	Against Viral Infections			1/18719/202
75.		and a Method of	2020410		0- CHE
		Fabricating the	17169	21/04/	
		Handkerchief		2020	

•/	Ta	ble	5.	5.	9.	1	Fa	acult	y con	npet	encies	in	correlat	tion	to	MC	000	courses
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Name of the Faculty	2019-20	2018-19	2017-18	Total Number of MOOC courses
Dr Ganesha Prasad	-	2		2
Dr Priyabrata Adhikary	2	2	-	4
DR. Viswanath	-	1	1	2
Dr. Ashok Kumar	2	1	-	3
Dr. Gopal	3	-	-	3
Nagendra J	2	1	1	4
Manjesh B C	2	3	1	6
Shivaprakash S	2	3	2	7
Raghu tilak reddy M	1	1	1	3
Ravikumar M	2	2	2	6
Nagabhushana N	-	2	1	3
Chetan kumar D S	2	2	1	5
Santosh A N	-	1	2	3
Rakesh C	-	3	1	4
Veeresha G	1	2	1	4
Sudarshan T A	2	2	1	5
Hanamanth yaragudri	4	2	2	8

SELF ASSESSMENT REPORT 2019-20

Puneeth H V	3	4	3	10
Bopanna K D	2	1	1	4
Ronald reagon R	1	6	2	9
Kemparaju C R	1	2	1	4
Megha shukla	1	2	2	5
Naresh K S	2	2	1	5
Vinay D R	1	2	1	4
Karthik S N	1	1	2	4
KAmalasish deb	1	2	1	4
Sujeeth swami	1	1	1	3
Madhusudan K	-	3	1	4
Lakshminarasimha N	-	2	1	3
Lakshman Naik	-	-	1	1
Vinayak Balehittal	1	2	-	3
Manjunatha G	-	2	-	2
Pavan Kadole	2	-	-	2
Vinod Kumar GS	-	2	-	2

 Table 5.5.9.2 Faculty competencies in correlation to MOOC courses 2019-20

Sl	Name of	Numb	Name of the course	<b>Duration/We</b>	Per	Certificate
No	the Faculty	er of		ek	cen	Туре
		course			tag	
		s			e	
			Inspection and quality	Feb-Mar		Successfully
1	Karthik S N	1	control in	2020/ 4week	44	completed
			manufacturing			
			Inspection and quality	Feb-Mar		Successfully
2	Sujeeth Swami	1	control in	2020/ 4week	96	completed
			manufacturing			
			Inspection and quality	Feb-Mar		Successfully
3	Megha Shukla	1	control in	2020/ 4week	95	completed
			manufacturing			
4	Dr. Ashok	2	Laws of	Jan-Feb 2020	78	Successfully
	Kumar		Thermodynamics			completed
			Engineering	Jul-Oct	62	Elite
			metrology	2019/12 week		
			Inspection and quality	Feb-Mar		Successfully
5			control in	2020/ 4week	96	completed
			manufacturing			
			Fundamentals of	Jan-Apr		Successfully
6			Automotive Systems	2020/ 12week	87	completed

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	Puneeth H V	3	Computer Integrated	Jan-Apr		Successfully
7			manufacturing	2020/ 12week	93	completed
8			Roadmap for Patent	Jan-mar 2020/	67	Successfully
			Creation	8week		completed
	Naresh K S	2	Inspection and quality	Feb-Mar		Successfully
9			control in	2020/ 4week	96	completed
			manufacturing			
			Effective			
10			Engineering	Jan-Feb 2020/	75	Successfully
	Dr		Teaching in	4week		completed
	Priyabrata	2	Practice			
11	Adhikary	Fluid Mechanics Aug-C		Aug-Oct	75	Elite
				2020/ 8week		
12			Steam and Gas Power	Feb-Apr	76	Successfully
			Systems	2020/ 8week		completed
13	Dr Gopal K	3	Systems2020/ 8weekPower plantJan-Mar		91	Successfully
			Engineering	2020/ 8week		completed
14	-		Electric Vehicles part-	Feb-Mar	82	Successfully
			1	2020/ 4week		completed
15	Vinay D R	1	Material Science and	Jan-Mar	91	Successfully
			Engineering	2020/ 8week		completed
16	Hanamanth	1	Python for Data	Jan-Feb 2020/	8	Successfully
	Yaragudri		Science	4week	5	completed
17	Manjesh B C	2	Laws of	Jan-Feb 2020/	7	Successfully
	5		Thermodynamics	4week	8	completed
18	-		Power Plant	Jan-Mar	91	Successfully
			Engineering	2020/ 8week		completed
19	Vinay	1	Python for Data	Jan-Feb 2020/	76	Successfully
	Balehittal		Science	4week		completed
			Fundamentals of	Jan-Apr		Successfully
20	Kemparaju c R	1	Automotive Systems	2020/12week	47	completed
21	Kamalashis	1	Two Phase Flow and	Jan-Feb 2020/	83	Successfully
	Deb		Heta Transfer	4week		completed
			Inspection and Quality	Feb-Mar		Successfully
22			Control in	2020/ 4week	87	completed
	Chetan Kumar		manufacturing			
		2	Theory and Practice of	Jan-Mar		Successfully
23			Non Destructive Testing	2020/ 8week	53	completed
24			Understanding	Feb-mar	80	Successfully
			Design	2020/ 4week		completed
L	1	1	1	1	1	1

	Kadole Pavan         Inspection and Quality         Feb-Mar					Successfully
25	Prabhakar		Control in	2020/ 4week	98	completed
			manufacturing			
			Technologies for Clean	Jul-Sep 2019/		
26	Ronald	3	and Renewable Energy	8week	75	Elite
	Reagon R		Production			
27	Raghu Tilak	1	Manufacturing of	Aug-Oct	81	Elite
	Reddy		Composites	2019/ 8week		
			Nature and	Feb-Apr		Successfully
28			Properties of	2020/ 8week	95	completed
	Sudarshan T A	2	Materials			
29	_		Steam and Gas Power	Feb-Apr	73	Successfully
			Systems	2020/ 8week		completed
30			Python for data	Jan-Feb 2020/	85	Successfully
			science	4 week		completed
			Basic 3D Animation	Sep-Dec 2019	Gr	Successfully
			using Blender	-	ad	completed
	Hanamanth	4			e	_
	Yaragudri				Α	
31	-		Fundamentals of 3D	Sep-Dec 2019	Gr	Successfully
			Visualisation		Α	completed
32	-		Basic 3D Modeling	Sep-Dec 2019	Gr	Successfully
			using Blender		ad	completed
					e	
					Α	
	Shivaprakash S	2	Inspection and Quality	Feb-Mar		Successfully
33			Control in	2020/ 4week	98	completed
			manufacturing			
	-		Theory and Practice of	Jan-Mar		Successfully
34			Non Destructive Testing	2020/ 8week	58	completed
35			Laws of	Jan-Feb 2020/	73	Successfully
			Thermodynamics	4week		completed
36	Ravi Kumar M	2	Convective Heat	Feb-Mar	40	Successfully
			Transfer	2020/ 4week		completed
			Inspection and quality	Feb-Mar		Successfully
37	Bopanna K D	2	control in	2020/ 4week	96	completed
			manufcturing			
			Computer Integrated	Jan-Apr		Successfully
38			manufacturing	2020/ 12week	68	completed
			Computer Integrated	Jan-Apr		Successfully
39	Nagendra J	2	manufacturing	2020/ 12week	79	completed
			Inspection and quality	Feb-Mar		Successfully

40			control in	2020/ 4week	93	completed
			manufcturing			
41	Veeresha G		Computer Integrated	Jan-Apr		Successfully
		1	manufacturing	2020/ 12week	44	completed

Table	5.	5.9.	3	Faculty	comp	etencies	in	correlation	to	MOO	С	courses	201	8-1	9
				•	1										

SI N	oName of the	Numb	Name of the course	Duration/	Per	Certificate
	Faculty	er of		Week	cen	Туре
		course			tag	
		S			e	
1			Business Statistics	Jan-Apr 2019	51	Successfully
	VINAYAK			/ 12Week		completed
	BALEHITT	2	Product Design and	Jan-Apr 2019		
2	AL		Manufacturing	/ 12Week	79	Elite+ Silver
3			IC Engines and Gas	Jan-Apr 2019	45	Successfully
			Turbines	/ 12Week		completed
			Non- Conventional	Jan-Apr 2019		Successfully
4			Energy Resources	/ 12Week	53	completed
5	MANJESH B	3	Roadmap for patent	Jan-Mar 2019	62	Elite
	С		creation	/ 8Week		
6	DR.	2	Leadership	Aug-Sep 2018	78	Elite
	GANESHA			/ 4Week		
7	PRASAD		Design thinking-	Jan-Apr 2019	79	Elite+Silver
			A primer			
	DR.VISWANA		Fundamentals of	Jul-Oct 2018		
	ТН	1	Surface Engineering	/ 12week	83	Elite
	DR		Non- Conventional	Jan-Apr 2019		
8	PRIYABRATA		Energy Resources	/ 12Week	60	Elite
9	ADHIKARY		Laws of	Aug-Sep 2018	54	Successfully
		2	Thermodynamics	/ 4Week		completed
10	ASHOK	1	IC Engines and Gas	Jan-Apr 2019	58	Successfully
	KUMAR		Turbines	/ 12Week		completed
			Principles of Casting	Jan-Mar 2019		
11			Technology	/ 8Week	73	Elite
	SHIVAPRAK		Outcome based	Aug-Sep 2018		Successfully
12	ASH S		pedagogic principles	/ 4Week	57	completed
		3	Rapid Manufacturing	Jan-Apr 2019	60	Elite
				/ 12Week		
	RAGHU		Principles of Casting	Jan-Apr 2019		
14	TILAK	1	Technology	/ 12Week	85	Elite+ Silver
	REDDY M					

15			IC Engines and Gas	Jan-Apr 2019	50	Successfully
			Turbines	/ 12Week		completed
	RAVIKUMAR		Non- Conventional	Jan-Apr 2019		
16	Μ	2	Energy Resources	/ 12Week	70	Elite
17			Nanotechnology in	Aug/Oct	64	Elite
			agriculture	2019/ 8weeks		
	NAGABHUSH	2	Inspection and Quality	Feb/Mar	62	Elite
18	ANA N		Control in	2019/ 4week		
			Manufacturing			
			Principles of Casting	Jan-Mar 2019		Successfully
19			Technology	/ 8Week	55	completed
20	CHETAN	2	Rapid Manufacturing	Jan-Apr 2019	56	Successfully
	KUMAR D S			/ 12Week		completed
			Teaching And Learning	Feb/Mar	42	Successfully
21			in Engineering (TALE)	2019/ 4week		completed
	MANJUNATH		Inspection and Quality	Feb/Mar		
22	AG	2	Control in	2019/ 4week	70	Elite
			Manufacturing			
	SANTOSH A		Outcome based	Aug-Sep 2018		Successfully
23	Ν	1	pedagogy principles for	/ 4Week	57	completed
			effective teaching			
24			IC Engines and Gas	Jan-Apr 2019	60	Elite
			Turbines	/ 12Week		
			Non- Conventional	Jan-Apr 2019		
25			Energy Resources	/ 12Week	68	Elite
26	RAKESH C	3	Roadmap for patent	Jan-Mar 2019	66	Elite
			creation	/ 8Week		
27			Rapid Manufacturing	Jan-Apr 2019	66	Elite
				/ 12Week		
	VEERESHA G	2	Principles of Casting	Jan-Mar 2019		
28			Technology	/ 8Week	63	Elite
			Inspection and Quality	Feb/Mar		
29			Control in	2019/ 4week	67	Elite
	SUDARSHAN		Manufacturing			
	ТА	2	Non- Conventional	Jan-Apr 2019		
30			Energy Resources	/ 12Week	68	Elite
31			Leadership	Aug-Sep	71	Elite
	HANAM			2018/4 week		
	ANTH		Processing of polymer	Aug-Sep		
32	YARAG	2	and polymer	2018/ 8week	88	Elite
	UDRI		composites			

	PUNEETH H	4	Introduction to	Feb-Apr		
33	V		Machining and	2018/ 8week	91	Elite+ gold
			Machining Fluids			
			Introduction to	Aug-Sep		Successfully
34			operation research	2018/ 8week	56	completed
35	-		Engineering	Jul-Aug	85	Elite
			Metrology	2018/ 8week		
36	-		Rapid Manufacturing	Jan-Apr	71	Elite
	DODANNIA			2018/ 12week		G 6 11
	BOPANNA		Manufacturing Process	Jan-Apr		Successfully
37	K D	1	Technology	2018/ 12week	41	completed
38			Introduction to	Aug-Sep	70	Elite
	_		research	2018/ 8week		
39			Patent drafting for	Jan-Feb 2019/	57	Successfully
	_		beginners	4week		completed
			Outcome based	Aug-Sep 2018		
			pedagogy principles for	/ 4Week		Elite
40	_		effective teaching		63	
			Non- Conventional	Jul-Oct 2018/	86	Elite
41	_		Energy Resources	12week		
42			IC Engines and Gas	Jan-Apr2019/	65	Elite
			Turbines	12week		
	RONALD	6	Teaching And Learning	Feb-Mar		
43	REAGON K		in Engineering (TALE)	2019/ 4week	82	Elite+ Silver
			Inspection and Quality	Feb-Mar		
44			Control in	2019/ 4week	72	Elite
	KEMPARAJU		Manufacturing			
	C R	2	Non- Conventional	Jan-Apr2019/		Successfully
45			Energy Resources	12week	53	completed
			Non- Conventional	Jan-Apr2019/		
46	_		Energy Resources	12week	69	Elite
47	MEGHA		Effective	Jan-Feb2019/		
	SHUKLA	2	Engineering	4week	67	Elite
			Teaching In Practice			
		2	Principles of Casting	Jan-Mar	66	Elite
48	NARESH K S		Technology	2019/ 8week		
49			Introduction To	Jan-Apr2019/	52	Successfully
			Composites	12week		completed
50	VINOD	2	Inspection and Quality	Feb-Mar	73	Elite
	KUMAR G S		Control in	2019/ 4week		
			Manufacturing			

51			Surface Engineering of	Jan-Mar		Successfully
			Nanomaterials	2019/ 8week	57	completed
			Principles of Casting	Jan-Mar		Elite
52	VINAY D R	2	Technology	2019/ 8week	73	
			Inspection and Quality	Feb-Mar		
53			Control in	2019/ 4week	68	Elite
			Manufacturing			
			Principles of Casting	Jan-Mar	55	Successfully
54	KARTHIK S N	1	Technology	2019/ 8week		completed
			Non-			
55	KAMALASIS		Conventional Energy	Jan-Apr	86	Elite+ Silver
	H DEB		Resources	2019/12week		
		2				
56			Steam and Gas Power	Feb-Mar	68	Elite
			Systems	2019/ 8week		
	SUJEETH		Manufacturing	Jan-Apr		Successfully
57	SWAMI	1	Process Technology	2019/12week	58	completed
			Nature and Properties	Aug-Sep		
58			of Materials	2018/ 8week	64	Elite
	MADHUSUD	3	Manufacturing Process	Jan-Apr		
59	AN K		Technology	2019/ 12week	84	Elite+ Silver
60			Material Science and	Jan-Mar	64	Elite
			Engineering	2019/ 8week		
			Non- Conventional	Jan-Apr		
61	LAKSHMINA		Energy Resources	2019/12week	75	Elite+ Silver
	RASIMHA N		Effective	Jan-Feb 2019/	83	Elite+ Silver
62			Engineering	4week		
		2	Teaching In			
			Practice			
63	NAGENDRA J	1	Rapid	Jan-Apr 2019/	59	Successfully
			Manufacturing	12week		

Sl	Name of the	Numb	Name of the course	<b>Duration/We</b>	Per	Certificate
No	Faculty	er of		ek	cen	Туре
		course			tag	
		s			e	
			Energy conservation and	Jul-Oct 2017/	61	Elite
1	MANJESH B	1	heat recovery	12week		
	С					

2	DR.	1	Manufacturing of	Jul-Sep 2017/	80	Elite
	VISWANATH		composites	8week		
			-			
	SHIVAPRAK		Fundamentals of	Jul-Oct 2017/	69	Elite
3	ASH S	2	Manufacturing process	12week		
4	-		Manufacturing of	Jul-Sep 2017/	51	Successfully
			composites	8week		completed
	RAGHU		Fundamentals of	Jul-Oct 2017/		
5	TILAK	1	Manufacturing process	12week	62	Elite
	REDDY					
	Μ					
6	RAVIKUMAR	2	Law of thermodynamics	Jul-Aug	76	Elite
	Μ			2017/ 4week		
7			Refrigeration and air	Jul-Sep 2017/	75	Elite
			conditioning	8week		
	NAGABHUSH		Fundamentals of	Jul-Oct 2017/		Successfully
8	ANA N	1	Manufacturing process	12week	59	completed
9	CHETAN	1	Manufacturing of	Jul-Sep 2017/	53	Successfully
	KUMAR D S		composites Processing	8week		completed
10	SANTOSH A	2	polymers and	Jul-Sep 2017/	73	Elite
	Ν		polymer composites	8week		
			Fundamentals of	Jul-Oct 2017/		
11			Manufacturing process	12week	61	Elite
			Energy conservation	Jul-Oct 2017/		
12	RAKESH C	1	and heat recovery	12week	68	Elite
13	VEERESHA G	1	Manufacturing of	Jul-Sep 2017/	46	Successfully
			composites	8week		completed
			Refrigeration and air	Jul-Sep 2017/		Successfully
14	SUDARSHAN	1	conditioning	8week	56	completed
	ТА					
15	HANAMANT	2	Manufacturing of	Jul-Sep 2017/	67	Elite
	Н		composites	8week		
	YARAGUDRI		Fundamentals of	Jul-Oct 2017/		
16			Manufacturing process	12week	68	Elite
17			Manufacturing of	Jul-Sep 2017/	79	Elite
	PUNEETH H	3	composites	8week		
	V		Fundamentals of	Jul-Oct 2017/		
18			Manufacturing process	12week	77	Elite
			Introduction to materials	Jan-Apr		Successfully
19			science and engineering	2018/12week	52	completed
20	BOPANNA K	1	Manufacturing of	Jul-Sep 2017/	41	Successfully
	D		composites	8week		completed

21	RONALD	2	Law of thermodynamics	Jul-Aug	43	Successfully
	REAGON R			2017/ 4week		completed
22			Refrigeration and air	Jul-Sep 2017/	53	Successfully
			conditioning	8week		completed
23	KEMPARAJU	1	Engineering	Feb-Mar	54	Successfully
	C R		thermodynamics	2018/ 8week		completed
24			Technical English for	Jul-Sep 2017/	58	Successfully
	MEGHA		engineers	8week		completed
	SHUKLA	2	Nature and properties	Jul-Sep 2017/		Successfully
25			of materials	8week	52	completed
			Manufacturing of	Jul-Sep 2017/		Successfully
26	NARESH K S	1	composites	8week	47	completed
27	VINAY D R	1	Product design and	Feb-Mar	68	Elite
			development	2018/ 4week		
28	KARTHIK S N		Manufacturing of	Jul-Sep 2017/	45	Successfully
			composites	8week		completed
29		2	Fundamentals of	Jul-Oct 2017/	54	Successfully
			manufacturing	12week		completed
	KAMALASIS		Energy conservation and	Jul-Oct 2017/		
30	H DEB	1	waste heat recovery	12week	73	Elite
31	SUJEETH	1	Manufacturing of	Jul-Sep 2017/	48	Successfully
	SWAMI		composites	8week		completed
32	MADHUSUD	1	Manufacturing of	Jul-Sep 2017/	71	Elite
	AN K		composites	8week		
33	LAKSHMINA	1	Two phase flow and	Feb-Mar	69	Elite
	RASIMHA N		heat transfer	2018/ 4week		
34	NAGENDRA J	1	Manufacturing of	Jul-Sep 2017/	61	Elite
			composites	8week		
35	Lakshman Naik	1	Laws of	Jul-Aug	4	Successfully
			thermodynamic	2018/ 4week	2	completed

#### 5.6 Innovations by faculty in teaching and learning

Innovations by the Faculty in teaching and learning shall be summarized as per the following description. Contributions to teaching and learning are activities that contribute to the improvement of student learning. These activities may include innovations not limited to, use of ICT, instruction delivery, instructional methods, assessment, evaluation and inclusive class rooms that lead to effective, efficient and engaging instruction. Any contributions to teaching and learning should satisfy the following criteria:

- The work must be made available on Institute website
- The work must be available for peer review and critique
- The work must be reproducible and developed further by other scholars The Department/Institution may set up appropriate processes for making the contributions available to the public, getting them reviewed and for rewarding. These may typically include statement of clear goals, adequate preparation and use of appropriate methods and significance of results, effective presentation and reflective critique.

Teaching Effectiveness and innovation can be achieved by practicing best way to create, delineate and transfer the knowledge from Faculty members to the students. These activities may include innovations not limited to, use of ICT, course delivery methods, assessment, evaluation, inclusive class rooms and Industry sponsored Laboratories that lead to effective, efficient and engaging Teaching learning process. Innovation by faculty in teaching and learning are expected to satisfy the following criteria.

- Availability of course related resources on Institute website
- Availability of course related resources for peer review and critique
- Availability of course related resources to be reproducible and developed further by other scholars.

The department/institution stick to appropriate processes for making the contributions available to the public, getting them reviewed and ensures the future development. The above objective can be achieved by setting statementof clear goals, efficient preparation, use of appropriate methods, and significance of results, effective presentation and reflective critique.

S.I.No	Facilities	Remark
		The intitution class rooms are equipped with
		interactive smart boards.Smart boards make learning
		more dynamic since it facilitates different form of
	2222	presenting information. In Smart classes all
		interactive modules like videos and presentations are
	Smart Board	used. This visually attractive method of teaching
	The second	becomes appealing to students. In fact, smart classes
	7. 10	help students to easily relate the concepts with the
1.		animated visuals.
	TEST.	Here the audio-visual senses of students are targeted
	Smart Classroom	and it helps the students to grab the information
	Fig.5.6.1 Sample image of	effectively
	classroom with smart board	
		Demonstration method when combined with a well-
		directed discussion is a successful teaching
		technique. The Department curriculum is framed in
2.		such a way that the courses include both theory and
	Theory and laboratory	laboratory components.
	courses	Theory cum laboratory courses ensures students
		understanding the concepts effectively through
		theory classes and laboratory sessions.
		Faculty members and students undergo online
		courses from the sources like Coursera, NPTEL,
		Spoken tutorial, etc. in their area of interest. This
3.	Online	helps them to enrich their knowledge on current
	courses	trends and also to equip themselves with inter-
		domain expertise. They are certified by the National
		and International universities and are motivated
		towards lifelong learning.
		Online courses also provide forum for discussion
		among the experts and students worldwide.
		Google Classroom is an application designed to
		enhance the learning experience which is
		incorporated in our teaching learning process. It
		helps to interact with students 24 X 7, by posting
4.		technical contents, PP1, Notes and assignments and
	Google	also facilitates to conduct and evaluate online
	classroom	quizzes.
		The tools offer opportunities for collaboration in
		real time and the ability to work remotely.

#### Table 5.6.1 Innovations by faculty in teaching and learning

		Assignments are given based on the real-time
		engineering problems, to help students to
5.	Innovative	understand and come out with the solutions. Group
	Assignments and	assignments are also given to improve the self-
	Real-time problems	learning and team work of students.
		Students are encouraged to give presentation on any
		technical topic in their area of interest which will
		serve for knowledge transfer and to overcome stage
6.	Technical presentation	fear. It will also improve their communication skills
		which is significant in their career growth.
		Industrial visits and trainings are organized for
		students to bridge the gap between theoretical
		learning and practical training in a real-life
		environment. Students understand the industrial
7.	Industrial Visit / Trainings	practices and organizational hierarchy during
		industrial visits.
		Industrial visits provide opportunities for
		active/interactive learning experiences outside
		classroom environment in addition to usual
		classroom learning.
		Students are motivated to present a topic of their
8.	Student's club	own interest for 5 minutes during class hours for
		improving communication skills and to overcome
		stage fear.
		The Department frames its curriculum in such a way
		that students acquire the skills to design and create
		complex Mechanical systems through various
9.		activities including projects.Since these projects are
	Project Based Learning	usually too large and complex for one student to do
		alone, project-based learning also tends to
		encourage teamwork. Project Exhibitions are
		conducted in the department every year to enrich the
		project developing skills of the students.
10.		Certification courses like CAD CAM, CNC
		Simulator, and 3-D Modelling & Analysis are
	Value Added Courses	conducted by Department to give key knowledge to
		students in a specific field. It improves the
		employability skills and promotes professional and
		life-oriented skills of the students. Hands on
		workshops had been conducted.
11.	Industry Sponsored Lab –	Internet of Things SAP,PLM
	Centre of Excellence	Advance Manufacturing Laboratory

## Resources available in the institutional website to promote research-based learning

• Free Book Bank facility for SC/ST students and book bank facility for other category of students at the Nominal price is also provided to fulfill their academic needs.

• Reprography and printing facility is available in the college premises.

• Books are arranged subject wise and department wise and personal attention is given for fulfilling their Library related needs.

• Open access facility is available. Library Staff motivate the students for open access to aware them about the latest arrivals.

• Separate Reference, Periodical, Circulation, Digital Library section and reading room facility is available in the Library.

• In addition to the central Library, each department has its own Departmental Library to facilitate easy access to the faculty, students and research scholars.

• The Department library has 491 titles.

Sl.NO	Data Base	Website
1	IEEE Xplore Digital Library	http://ieeexplore.ieee.org/
		(http://ieeexplore.ieee.org/)
2	Science Direct	http://www.sciencedirect.com/
		(http://www.sciencedirect.com/)
3	Taylor & Francis (E-Journals)	http://www.tandfonline.com/
		(http://www.tandfonline.com/)
4	Springer Nature	https://link.springer.com/
		https://www.emer
5	Emerald	(http://www.emerald.com/insight/)ald.com/in
		sight/ (http://www.emerald.com/insight/)
6	Knimbus Digital Library	http://www.new.knimbus.com/
		(http://www.new.knimbus.com/)

Table 5.6.2 List of E-Journals

Table 5.6.3 List of E-Books

Sl. No	Database Name	Website
1.	McGraw Hill Education	https://www.expresslibrary.mheducation.com/
		(https://www.expresslibrary.mheducation.com/)
2.	Taylor & Francis (E-	https://www.taylorfrancis.com/
	Books)	(https://www.taylorfrancis.com/)
3.	New Age Publishers	https://digital.elib4u.com/
		(https://digital.elib4u.com/)
4.	Springer Nature	https://link.springer.com/
		(https://link.springer.com/)
5.	Packt	https://www.packtpub.com/in/
		(https://www.packtpub.com/in/)
6.	Elseveir	https://www.sciencedirect.com/

Sl.No	Database Name	Website
1	Turnitin (Similarity Check)	https://www.turnitin.com/
		(http://www.turnitin.com/)
2	Knimbus Digital Library	http://www.new.knimbus.com/
		(http://www.new.knimbus.com/)
3	Netanalytiks (Writing Tool)	https://sententia.online

 Table 5.6.4 List of Research Search Platforms

Sl. No	Database Name	Website
1	IIT Bombay	https://www.library.iitb.ac.in/
		(https://www.library.iitb.ac.in/)
2	IIT Delhi	http://library.iitd.ac.in/ (http://library.iitd.ac.in/)
3	IIT Varanasi	https://www.iitbhu.ac.in/library/
		(https://www.iitbhu.ac.in/library/)
4	IIT Bhubaneshwar	https://library.iitbbs.ac.in/ (https://library.iitbbs.ac.in/)
5	IIT Gandhinagar	http://www.iitgn.ac.in/research/library
		(http://www.iitgn.ac.in/research/library)
6	IIT Guwahati	http://www.iitg.ac.in/lib/ (http://www.iitg.ac.in/lib/)
7	IIT Hyderabad	http://library.iith.ac.in/ (http://library.iith.ac.in/)
8	IIT Indore	http://library.iiti.ac.in/ (http://library.iiti.ac.in/)
9	IIT Kanpur	http://pkklib.iitk.ac.in/ (http://pkklib.iitk.ac.in/)
10	IIT mandi	http://library.iitmandi.ac.in/
		(http://library.iitmandi.ac.in/)
11	IIT Madras	https://www.cenlib.iitm.ac.in/
		(https://www.cenlib.iitm.ac.in/)
12	IIT Patna	https://library.iitp.ac.in/ (https://library.iitp.ac.in/)
13	IIT Jodhpur	http://library.iitj.ac.in/ (http://library.iitj.ac.in/)
14	IIT Roorkee	http://mgcl.iitr.ac.in/ (http://mgcl.iitr.ac.in/)
15	IIT Ropar	http://www.iitrpr.ac.in/library/
		(http://www.iitrpr.ac.in/library/)
16	IISC Bangalore	https://www.library.iisc.ernet.in/
		(https://www.library.iisc.ernet.in/)

# 5.7 Faculty as participants in Faculty development/training activities/STTPs

- A Faculty scores maximum five points for participation
- Participation in 2 to 5 days Faculty/faculty development program: 3 Points
- Participation>5 days Faculty/faculty development program:5 points

	Max 5 Per Faculty			
Name of the faculty	2018- 19(CAYm1)	2017- 18(CAYm2)	2016- 17(CAYm3)	
Dr. Manjunatha	3.00	3.00	3.00	
Dr. Ganesh Prasad M S	3.00	3.00	3.00	
Dr. GopalaKrishnan Kanapathy	3.00	3.00	3.00	
Dr. Viswanath Bellie	3.00	3.00	3.00	
Dr. Priyabrata Adhikary	3.00	3.00	0.00	
Dr. Srinath M K	3.00	3.00	3.00	
Dr. Nagendra J	3.00	3.00	3.00	
Dr. Manjunatha G	3.00	3.00	3.00	
Dr. Ashok Kumar	3.00	0.00	0.00	
Dr. Sujin Jose	3.00	3.00	0.00	
Dr. Gopal K	3.00	0.00	0.00	
Raghu Tilak Reddy Maramreddy	3.00	3.00	5.00	
Manjesh B C	3.00	5.00	3.00	
Shivaprakash S	3.00	5.00	3.00	
Ravikumar M	3.00	3.00	3.00	
Hanamant Yaragudri	3.00	3.00	3.00	
Nagabhushana Narasappa	3.00	5.00	3.00	
Sudarshan T A	3.00	3.00	3.00	
Veeresha G	3.00	5.00	3.00	
Chetan Kumar D S	3.00	5.00	3.00	
Santhosh A N	3.00	3.00	3.00	

<b>Table 5.7.1</b>	FDP/	training	activities	/STTPs
1 abic 5.7.1	$\Gamma D I /$	u anning	activities	

SELF ASSESSMENT REPORT

•	•		•	•	^
2	"	14	/_	21	11
	<b>·</b> ·	- /			

Bopanna. K. D	3.00	3.00	3.00
Puneeth H V	3.00	5.00	3.00
Rajesh A	3.00	3.00	3.00
Sujeeth Swami	3.00	3.00	3.00
Ronald Reagon R	3.00	3.00	3.00
Madhusudan K	3.00	3.00	3.00
Kemparaju C R	3.00	5.00	3.00
Pavan Prabhakar Kadole	3.00	3.00	3.00
Karthik S N	3.00	3.00	3.00
Megha Shukla	3.00	3.00	3.00
Kamalasish Deb	3.00	3.00	3.00
Vinod Kumar G S	3.00	3.00	3.00
Vinayak Prakash Balehittal	3.00	3.00	3.00
Deepthi K.R.	3.00	3.00	3.00
Lakshminarasimha N	3.00	3.00	3.00
Naresh K S	3.00	5.00	3.00
Vinay D R	3.00	5.00	3.00
Sum	120.00	132.00	116.00
RF = Number of Faculty required to comply with 20:1 Student Faculty			
Ratioas per 5.1	33.00	34.00	34.00
Assessment [3*(Sum / 0.5RF)]		.82 23.29	20.47

Average assessment over 3 years: 21.86

Sl.	Event name	Date and	Event	Faculty
No		year	organized by	members who
				attended the
				event
1	Advancements in	17 <sup>th</sup> to	JNTUK –	Dr.M S
	Manufacturing &	22 <sup>nd</sup> June	Kakinada	Ganesha Prasad
	Welding	2019		

0	19	-20	

	Workshop- Advances in	$27^{\text{th}}\&28^{\text{th}}$	New	Mr. Hanmanth
2	Neural networking,	May 2019	Horizon	Yaragudri
	Deep Learning &		College of	
	Machine Learning		Engineering	
	Using MAT Lab		Bengaluru	
3	FDP-Innovations in	$10^{\text{th}}$ to	MVJ	Mr. Santhosh A
	Mechanical Engineering	12 <sup>th</sup> Jan	College of	Ν
	& Technology	2019	Engineering	
			Bengaluru	
4	FDP-Promoting Varied	$9^{\text{th}}$ to $18^{\text{th}}$	New Horizon	Mr. Santhosh
	Approaches for	Jan 2019	College of	A N
	Teaching Learning		Engineering	
	Process		Bengaluru	
5	Workshop- Advances in	$27^{\text{th}}\&28^{\text{th}}$	New	Mr. Santhosh A
	Neural networking,	May 2019	Horizon	Ν
	Deep Learning &		College of	
	Machine Learning		Engineering	
	Using MAT Lab		Bengaluru	
6	Workshop- Advances in	$27^{\text{th}}\&28^{\text{th}}$	New	Mr. Sudarshan
	Neural networking,	May 2019	Horizon	ΤА
	Deep Learning &		College of	
	Machine Learning		Engineering	
	Using MAT Lab		Bengaluru	
7	FDP- Performance	16 <sup>th</sup> to	New Horizon	Mr. Sudarshan
	Enhancement	18 <sup>th</sup> July	College of	ΤА
		2018	Engineering	
			Bengaluru	
8	FDP-Promoting Varied	$9^{\text{th}}$ to $18^{\text{th}}$	New Horizon	Mr. Sudarshan
	Approaches for	Jan 2019	College of	ΤА
	Teaching Learning		Engineering	
	Process		Bengaluru	
9	FDP-Innovations in	$10^{\text{th}}$ to	MVJ	Mr. Karthik S N
	Mechanical Engineering	12 <sup>th</sup> Jan	College of	
	& Technology	2019	Engineering	
			Bengaluru	
10	Workshop- Internet of	$26^{\text{th}} \& 27^{\text{th}}$	PISTRON	Mr. Karthik S N
	Things using AWS	Jan 2019	Technologie	
	Cloud Platform		s,	
			Bengaluru	
11	FDP- Product Design	$3^{\rm rd}$ to $7^{\rm th}$	NMIT,	Mr. Karthik S N
	Engineering Using	Jan 2019	Bengaluru	
	Fusion 360			

12	Workshop- Advances in	$27^{\text{th}}\&28^{\text{th}}$	New Horizon	Mr. Karthik S N
	Neural networking,	May 2019	College of	
	Deep Learning &		Engineering	
	Machine Learning		Bengaluru	
	Using MAT Lab		U	
13	FDP-Promoting Varied	$9^{\text{th}}$ to $18^{\text{th}}$	New Horizon	Mr. Rajesh A
	Approaches for	Jan 2019	College of	
	Teaching Learning		Engineering	
	Process		Bengaluru	
14	Workshop- Advances in	$27^{\text{th}}\&28^{\text{th}}$	New	Mr. Rajesh A
	Neural networking,	May 2019	Horizon	
	Deep Learning &		College of	
	Machine Learning		Engineering	
	Using MAT Lab		Bengaluru	
15	FDP-Promoting Varied	$9^{\text{th}}$ to $18^{\text{th}}$	New Horizon	Mr. Pavan P
	Approaches for	Jan 2019	College of	Kadole
	Teaching Learning		Engineering	
	Process		Bengaluru	
16	Workshop- Advances in	$27^{\text{th}}\&28^{\text{th}}$	New Horizon	Mr. Pavan P
	Neural networking,	May 2019	College of	Kadole
	Deep Learning &		Engineering	
	Machine Learning		Bengaluru	
	Using MAT Lab			
17	FDP- Fundamentals of	30 <sup>th</sup> July	RIT,	Mr. Veeresha G
	Material Science for	to 4 <sup>th</sup> Aug	Bengaluru	
	Research Scholars	2018		
18	FDP-Promoting Varied	$9^{\text{th}}$ to $18^{\text{th}}$	New Horizon	Mr. Veeresha G
	Approaches for	Jan 2019	College of	
	Teaching Learning		Engineering	
	Process		Bengaluru	
19	Workshop- Advances in	$27^{\text{th}}\&28^{\text{th}}$	New Horizon	Mr. Veeresha G
	Neural networking,	May 2019	College of	
	Deep Learning &		Engineering	
	Machine Learning		Bengaluru	
	Using MAT Lab			
20	FDP- Performance	$16^{\text{th}}$ to	New Horizon	Mr. Chetan
	Enhancement	18 <sup>th</sup> July	College of	Kumar DS
		2018	Engineering	
			Bengaluru	
21	Workshop- New Model	6 <sup>th</sup> Aug	BNMIT,	Mr. Chetan
	Curriculum for PG	2018	Bengaluru	Kumar DS
	course			

22	FDP- Data Acquisition	17 <sup>th</sup> to	New Horizon	Mr. Chetan
	& Control Systems for	20 <sup>th</sup> Dec	College of	Kumar DS
	Space Applications	2018	Engineering	
			Bengaluru	
23	FDP- Data Acquisition	17 <sup>th</sup> to	New Horizon	Mr. Raghu Tilak
	& Control Systems for	20 <sup>th</sup> Dec	College of	Reddy M
	Space Applications	2018	Engineering	
			Bengaluru	
24	FDP-Innovations in	$10^{\text{th}}$ to	MVJ College of	Mr. Raghu Tilak
	Mechanical Engineering	12 <sup>th</sup> Jan	Engineering	Reddy M
	& Technology	2019	Bengaluru	
25	Workshop- Advances in	$27^{\text{th}}\&28^{\text{th}}$	New	Mr. Manjesh B C
	Neural networking,	May 2019	Horizon	
	Deep Learning &		College of	
	Machine Learning		Engineering	
	Using MAT Lab		Bengaluru	
26	FDP-Promoting Varied	$9^{\text{th}}$ to $18^{\text{th}}$	New Horizon	Mr. Manjesh B C
	Approaches for	Jan 2019	College of	
	Teaching Learning		Engineering	
	Process		Bengaluru	
27	FDP- Advances in CAD	17 <sup>th</sup> & 18	New Horizon	Mr. Manjesh B C
	modeling techniques	Dec	College of	
	using CATIA		Engineering	
			Bengaluru	
28	Workshop- National	$28^{\text{th}}\&29^{\text{th}}$	Shri Mata	Mr. Manjesh B C
	Workshop on	Nov 2019	Vaishno Devi	
	Thermoelectric Energy		University, J &	
	Conversion Devices &		К	
	its Applications			
29	Work shop- Access to	$5^{\text{th}}$ to $7^{\text{th}}$	SRM Institute of	Dr. Gopal K
	Affordable Clean	Dec 2019	Science &	
	Energy to Humanity		Technology,	
			Tamilnadu	
30	FDP- Product Design	$3^{\rm rd}$ to $7^{\rm th}$	NMIT,	Mr. Vinod
	Engineering Using	Jan 2019	Bengaluru	Kumar G S
	Fusion 360			
31	Workshop- Machine	$2^{nd} \& 3^{rd}$	Pistron	Mr. Vinayak B
	learning Using the AWS	Mar 2019	Technologie	
	Cloud Platform		S	
32	FDP-Innovations in	$10^{\text{th}}$ to	MVJ	Mr. Kemparaju
	Mechanical Engineering	12 <sup>th</sup> Jan	College of	C R
	& Technology	2019	Engineering	
			Bengaluru	
33	FDP- Product Design	$3^{\rm rd}$ to $7^{\rm th}$	NMIT,	Mr. Kemparaju
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	Engineering Using	Jan 2019	Bengaluru	C R
	Fusion 360			
34	Seminar- Understanding	16 <sup>th</sup> April	ISHRE,	Dr. Ashok
	HVAC Projects	2019	Bengaluru	Kumar
	Estimation, Planning &			
	Execution			
35	FDP- Futuristic	$25^{\text{th}}$ to	RNSIT,	Mr. Vinay D R
	Materials & Their	27 <sup>th</sup> July	Bengaluru	
	Applications	2018		
36	FDP- Student Induction	$17^{\text{th}}$ to	Cambridge	Mr. Vinay D R
		19 <sup>th</sup> June	Institute of	
		2019	Technology,	
			Bengaluru	
37	Workshop-	4 <sup>th</sup> April	ISHRE,	Dr. Vishwanath
	Refrigeration System	2019	Bengaluru	В
	Design for Cold room &			
	Wear houses			
38	FDP- Performance	16 <sup>th</sup> to	New Horizon	Dr. Vishwanath
	Enhancement	18 <sup>th</sup> July	College of	В
		2018	Engineering	
			Bengaluru	
39	FDP- Advances in CAD	$17^{\text{th}}\&18$	New Horizon	Dr. Vishwanath
	modeling techniques	Dec	College of	В
	using CATIA		Engineering	
			Bengaluru	
40	FDP- Performance	$16^{\text{th}}$ to	New Horizon	Mr.
	Enhancement	18 <sup>th</sup> July	College of	Shivaprakash S
		2018	Engineering	
			Bengaluru	
41	FDP- Advances in CAD	17 <sup>th</sup> & 18	New Horizon	Mr.
	modeling	Dec	College of	Shivaprakash S
	techniques using		Engineering	
	CATIA		Bengaluru	
42	FDP- Performance	$16^{\text{th}}$ to	New Horizon	Mr.
	Enhancement	18 <sup>th</sup> July	College of	Nagabhushana N
		2018	Engineering	
			Bengaluru	
43	FDP- Advances in CAD	$17^{\text{th}} \& 18$	New Horizon	Mr.
	modeling	Dec	College of	Nagabhushana N
	techniques using		Engineering	
	CATIA		Bengaluru	

SL.	Event name	Date and	Event	Faculty
No		year	organized by	members who
				attended the
				event
1	Work Shop- New Model	$9^{\text{th}}$	BNMIT,	Dr. M S
	Curriculum for First year	May 2018	Bengaluru	Ganesha
	students			Prasad
2	FDP-	17 <sup>th</sup> to	University	Dr. M S
		22 <sup>nd</sup> June	College of	Ganesha
		2018	Engineering,	Prasad
			Bengaluru	
3	FDP-Engineering Design	$7 \& 8^{\text{th}}$	New Horizon	Mr. Hanmanth
	& Analysis using CATIA	Oct 2017	College of	Yaragudri
			Engineering	
			Bengaluru	
4	FDP- Andragogical	$27^{\text{th}}$	New Horizon	Mr. Hanmanth
	Approaches to Teaching	July to 19 <sup>th</sup>	College of	Yaragudri
	Process	August	Engineering	
		2017	Bengaluru	
5	FDP-Advanced Industrial	1 <sup>st</sup> Jan	CMR Institute	Mr. Hanmanth
	Automation	to 12 <sup>th</sup> Jan	of Technology,	Yaragudri
		2018	Bengaluru	
6	FDP-Computational Fluid	$22^{nd}$	SJB Institute of	Mr. Santhosh
	Dynamics	Jan 27 <sup>th</sup>	Technology	A N
		Jan 2018	Bengaluru	
7	FDP-Preparation of	$8^{ m th}$ &	New Horizon	Mr. Santhosh
	Rubrics an Assessment	9 <sup>th</sup> Jan	College of	A N
	Tool	2018	Engineering	
			Bengaluru	
8	FDP-Engineering Design	$7 \& 8^{\text{th}}$	New Horizon	Mr. Santhosh
	& Analysis using CATIA	Oct 2017	College of	A N
			Engineering	
			Bengaluru	
9	FDP-Advanced Industrial	1 <sup>st</sup> Jan	CMR Institute o	Mr. Sudarshan
	Automation	to 12 <sup>th</sup> Jan	Technology,	ТА
		2018	Bengaluru	
10	FDP- Data Acquisition &	$17^{\text{th}}$ to	New Horizon	Mr. Sudarshan
	Control Systems for the	20 <sup>th</sup> Dec	College of	ТА
	Space Applications	2018	Engineering	
			Bengaluru	
11	FDP-Engineering Design	$7 \& 8^{\text{th}}$	New Horizon	Mr. Sudarshan
	& Analysis using CATIA	Oct 2017	College of	ТА

Table 5.7.3 FDP/ training activities/STTPs Academic Year 2017-2018

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			Engineering	
			Bengaluru	
12	FDP- Andragogical	27 <sup>th</sup>	New Horizon	Mr. Sudarshan
	Approaches to Teaching	July to 19 <sup>th</sup>	College of	ТА
	Process	August	Engineering	
		2017	Bengaluru	
13	FDP- Andragogical	27 <sup>th</sup>	New Horizon	Mr. Karthik S
	Approaches to Teaching	July to 19 <sup>th</sup>	College of	Ν
	Process	August	Engineering	
		2017	Bengaluru	
14	FDP-Preparation of	$8^{ m th}\&$	New Horizon	Mr. Karthik S
	Rubrics an Assessment	9 <sup>th</sup> Jan	College of	Ν
	Tool	2018	Engineering	
			Bengaluru	
15	FDP-Advanced Industrial	1 <sup>st</sup> Jan	CMR	Mr. Karthik S
	Automation	to 12 <sup>th</sup> Jan	Institute of	Ν
		2018	Technology	
			, Bengaluru	
16	FDP-Computational Fluid	22 <sup>nd</sup>	SJB	Mr. Karthik S
	Dynamics	Jan 27 <sup>th</sup>	Institute of	Ν
		Jan 2018	Technology	
			Bengaluru	
17	Workshop- Auto CAD	$20^{\text{th}}$ &	Prevaga –	Mr. Karthik S
		21 <sup>st</sup> Jan	IISc	Ν
		2018	Bengaluru	
18	FDP-Engineering Design	$7 \& 8^{\text{th}}$	New Horizon	Mr. Karthik S
	& Analysis using CATIA	Oct 2017	College of	Ν
			Engineering	
			Bengaluru	
19	FDP- Andragogical	27 <sup>th</sup>	New Horizon	Mr.
	Approaches to Teaching	July to 19 <sup>th</sup>	College of	Rajesh A
	Process	August	Engineering	
		2017	Bengaluru	
20	FDP-Preparation of	$8^{ m th}$ &	New Horizon	Mr. Rajesh A
	Rubrics an Assessment	9 <sup>th</sup> Jan	College of	
	Tool	2018	Engineering	
			Bengaluru	
21	FDP-Advanced Industrial	1 <sup>st</sup> Jan	CMR Institute	Mr. Pavan P
	Automation	to 12 <sup>th</sup> Jan	of Technology,	Kadole
		2018	Bengaluru	
22	Workshop- Android	30 <sup>th</sup>	Codefrux	Mr. Pavan P
		June 2018	Technology,	Kadole
			Bengalluru	
1	1	1		·

23	FDP- Andragogical	$27^{\text{th}}$	New Horizon	Mr. Pavan P
	Approaches to Teaching	July to 19 <sup>th</sup>	College of	Kadole
	Process	August	Engineering	
		2017	Bengaluru	
24	FDP-Preparation of	$8^{ m th}$ &	New Horizon	Mr. Pavan P
	Rubrics an Assessment	9 <sup>th</sup> Jan	College of	Kadole
	Tool	2018	Engineering	
			Bengaluru	
25	FDP-Advanced Industrial	1 <sup>st</sup> Jan	CMR Institute	Mr. Veeresha G
	Automation	to 12 <sup>th</sup> Jan	of Technology,	
		2018	Bengaluru	
26	FDP- Andragogical	27 <sup>th</sup>	New Horizon	Mr. Veeresha G
	Approaches to Teaching	July to 19 <sup>th</sup>	College of	
	Process	August	Engineering	
		2017	Bengaluru	
27	FDP-Preparation of	$8^{ m th}\&$	New Horizon	Mr. Veeresha G
	Rubrics an Assessment	9 <sup>th</sup> Jan	College of	
	Tool	2018	Engineering	
			Bengaluru	
28	FDP- Andragogical	27 <sup>th</sup>	New Horizon	Mr. Chetan
	Approaches to Teaching	July to 19 <sup>th</sup>	College of	Kumar D S
	Process	August	Engineering	
		2017	Bengaluru	
29	FDP-Preparation of	$8^{\text{th}}\&$	New Horizon	Mr. Chetan
	Rubrics an Assessment	9 <sup>th</sup> Jan	College of	Kumar D S
	Tool	2018	Engineering	
			Bengaluru	
30	FDP-Engineering Design	$7 \& 8^{th}$	New Horizon	Mr. Chetan
	& Analysis using CATIA	Oct 2017	College of	Kumar D S
			Engineering	
			Bengaluru	
31	FDP- Cloud Based	$15^{\text{tn}}$ to	RIT,	Mr. Chetan
	CAD/CAM tools for	29 <sup>th</sup> Dec	Bengaluru	Kumar D S
	Product Design	2017		
32	FDP-Computational Fluid	$22^{nd}$	SJB Institute of	Ms.Megha
	Dynamics	Jan 27 <sup>th</sup>	Technology	Shukla
		Jan 2018	Bengaluru	
33	FDP- Andragogical	27 <sup>th</sup>	New Horizon	Ms.Megha
	Approaches to Teaching	July to 19 <sup>th</sup>	College of	Shukla
	Process	August	Engineering	
		2017	Bengaluru	

34	FDP-Preparation of	$8^{ m th}\&$	New Horizon	Ms.Megha
	Rubrics an Assessment	9 <sup>th</sup> Jan	College of	Shukla
	Tool	2018	Engineering	
			Bengaluru	
35	FDP-Engineering Design	7 & 8 <sup>th</sup>	New Horizon	Ms.Megha
	& Analysis using CATIA	Oct 2017	College of	Shukla
			Engineering	
			Bengaluru	
36	FDP- Cloud Based	15 <sup>th</sup> to	RIT,	Mr. Raghu Tilak
	CAD/CAM tools for	29 <sup>th</sup> Dec	Bengaluru	Reddy M
	Product Design	2017		
37	FDP- An overview on	22 <sup>nd</sup> to	VTU-	Mr. Manjesh B C
	teaching Techniques in	26 <sup>th</sup> Jan	Muddenaha	
	Applied Thermodynamics	2018	11i	
38	FDP- Andragogical	27 <sup>th</sup>	New Horizon	Mr. Manjesh B C
	Approaches to Teaching	July to 19 <sup>th</sup>	College of	
	Process	August	Engineering	
		2017	Bengaluru	
39	FDP- Cloud Based	15 <sup>th</sup> to	RIT,	Mr. Manjesh B C
	CAD/CAM tools for	29 <sup>th</sup> Dec	Bengaluru	
	Product Design	2017		
40	Workshop- New Model	9 <sup>th</sup> May	BNMIT,	Mr. Manjesh B C
	Curriculum for I	2018	Bengaluru	
	year course			
41	Workshop- Auto CAD	$20^{\text{th}}$ &	Prevaga –	Mr. Vinod
		21 <sup>st</sup> Jan	IISc	Kumar G S
		2018	Bengaluru	
42	FDP- Andragogical	27 <sup>th</sup>	New Horizon	Mr. Vinod
	Approaches to Teaching	July to 19 <sup>th</sup>	College of	Kumar G S
	Process	August	Engineering	
		2017	Bengaluru	
43	FDP-Engineering Design	$7 \& 8^{\text{th}}$	New Horizon	Mr. Vinod
	& Analysis using CATIA	Oct 2017	College of	Kumar G S
			Engineering	
			Bengaluru	
44	FDP-Computational Fluid	$22^{nd}$	SJB Institute of	Mr. Vinod
	Dynamics	Jan 27 <sup>th</sup>	Technology	Kumar G S
		Jan 2018	Bengaluru	
45	FDP- Entrepreneurship	$10^{\text{th}}$ to	DSCE,	Mr. Vinod
	Faculty Educator	$14^{\text{th}}$	Bengaluru	Kumar G S
	Programme	October		
		2017		

46	FDP- Python Application	$25^{\text{th}}$ &	Jain College of	Mr. Vinayak B
	Development	26 <sup>th</sup> Nov	Engineering,	
		2017	Belagavi	
47	FDP- Machine Learning	$21^{st}$ to	IIM-	Mr. Vinayak B
	with Business applications	25 <sup>th</sup> May	Bengaluru	
		2018		
48	Workshop- Machine	$20^{\text{th}}$ &	Prevaga –	Mr. Vinayak B
	Learning & Artificial	21 <sup>st</sup> Jan	IISc	
	Intellegence	2018	Bengaluru	
49	FDP-Computational Fluid	$22^{nd}$	SJB Institute of	Mr. Kemparaju
	Dynamics	Jan 27 <sup>th</sup>	Technology	C R
		Jan 2018	Bengaluru	
50	Workshop- Auto CAD	$20^{\text{th}}$ &	Prevaga –	Mr. Kemparaju
		21 <sup>st</sup> Jan	IISc	C R
		2018	Bengaluru	
51	FDP- Cloud Based	15 <sup>th</sup> to	RIT,	Mr. Kemparaju
	CAD/CAM tools for	29 <sup>th</sup> Dec	Bengaluru	C R
	Product Design	2017		
52	FDP- Cloud Based	15 <sup>th</sup> to	RIT,	Mr. Vinay D R
	CAD/CAM tools for	29 <sup>th</sup> Dec	Bengaluru	
	Product Design	2017		
53	Workshop- Machine	$20^{\text{th}}$ &	Prevaga –	Dr. Vishwanath
	Learning & Artificial	21 <sup>st</sup> Jan	IISc	В
	Intellegence	2018	Bengaluru	
54	FDP- Cloud Based	15 <sup>th</sup> to	RIT,	Mr.
	CAD/CAM tools for	29 <sup>th</sup> Dec	Bengaluru	Shivaprakash S
	Product Design	2017		
55	FDP- Andragogical	$27^{\text{th}}$	New Horizon	Mr.
	Approaches to Teaching	July to 19 <sup>th</sup>	College of	Shivaprakash S
	Process	August	Engineering	
		2017	Bengaluru	
56	FDP-Engineering Design	$7 \& 8^{\text{th}}$	New Horizon	Mr.
	& Analysis using CATIA	Oct 2017	College of	Nagabhushana N
			Engineering	
			Bengaluru	
57	FDP- Andragogical	27 <sup>th</sup> July to	New Horizon	Mr.
	Approaches to Teaching	19 <sup>th</sup>	College of	Nagabhushana N
	Process	August	Engineering	
		2017	Bengaluru	
58	FDP- Cloud Based	$15^{\text{th}}$ to	RIT,	
	CAD/CAM tools for	29 <sup>th</sup> Dec	Bengaluru	
				Mr.

	Product Design	2017		Nagabhushana N
59	FDP- DATA Acquisition & control systems for space applications	17-20 Dec2018	NHCE, Bengaluru	Dr. Sujin Jose

## Table 5.7.4 FDP/ training activities/STTPs Academic Year 2016-2017

SL.	Event name	Date and	Event	Faculty
No		year	organized by	members who
				attended the
				event
1	Fundementals of Material	30 <sup>th</sup>	RIT,Bengaluru	Dr. Manjunatha
	Science for Research	July t0 4 <sup>th</sup>		
	Scholars	Aug 2016		
2	Fundementals of Material	30 <sup>th</sup>	RIT,Bengaluru	Dr. Ganesh
	Science for Research	July t0 4 <sup>th</sup>		Prasad M S
	Scholars	Aug 2016		
3	Fundementals of Material	30 <sup>th</sup>	RIT,Bengaluru	Dr.
	Science for Research	July t0 4 <sup>th</sup>		GopalaKrishnan
	Scholars	Aug 2016		Kanapathy
4	High Temperature	14 <sup>th</sup> April	Ducom	Dr. Viswanath
	Tribology Conference	& 15 <sup>th</sup>	Instruments	Bellie
		April		
		2017		
5	Fundementals of Material	30 <sup>th</sup>	RIT,Bengaluru	Dr. Srinath M K
	Science for Research	July t0 4 <sup>th</sup>		
	Scholars	Aug 2016		
6	Work Shop- Back to	$24^{\text{th}}$ to	RIT,	Dr. Nagendra J
	nature-Nature friendly	26 <sup>th</sup> June	Bengaluru	
	attitudes, sciences and	2017		
	Technologies			
7	Work Shop-Tribology	$24^{\text{th}}$ to	NITK,	Dr. Manjunatha
	frontiers in design and	$25^{\text{th}}$	Surathkal	G
	maqnufacturing	October		
		2016		
8	Work Shop- Back to	$24^{\text{th}}$ to	RIT,	Raghu Tilak
	nature-Nature friendly	26 <sup>th</sup> June	Bengaluru	Reddy
	attitudes, sciences and	2017		Maramreddy
	Technologies			
9	Work Shop- Back to	$24^{\text{th}}$ to	RIT,	Manjesh B C
	nature-Nature friendly	26 <sup>th</sup> June	Bengaluru	
	attitudes, sciences and	2017		

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	Technologies			
10	Work Shop- Back to	24 <sup>th</sup> to	RIT,	Shivaprakash S
	nature-Nature friendly	26 <sup>th</sup> June	Bengaluru	-
	attitudes, sciences and	2017		
	Technologies			
11	High Temperature	14 <sup>th</sup>	Ducom	Ravikumar M
	Tribology Conference	April &	Instruments	
		15 <sup>th</sup> April		
		2017		
12	Fundementals of Material	30 <sup>th</sup>	RIT,Bengaluru	Hanamant
	Science for Research	July t0 4 <sup>th</sup>		Yaragudri
	Scholars	Aug 2016		
13	Work Shop- Back to	$24^{\text{th}}$ to	RIT,	Nagabhushana
	nature-Nature friendly	26 <sup>th</sup> June	Bengaluru	Narasappa
	attitudes, sciences and	2017		
	Technologies			
14	High Temperature	14 <sup>th</sup>	Ducom	Sudarshan T A
	Tribology Conference	April &	Instruments	
		15 <sup>m</sup> April		
		2017		
15	Work Shop- Back to	$24^{\text{un}}$ to	RIT,	Veeresha G
	nature-Nature friendly	26 <sup>th</sup> June	Bengaluru	
	attitudes, sciences and	2017		
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17	Scholars	Aug 2016		
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10	Tribology Conference	14 April &	Instruments	Dopanna. K. D
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19	Fundementals of Material	30 <sup>th</sup>	RIT Rengaluru	Puneeth H V
17	Science for Research	July t0 $4^{\text{th}}$		
	Scholars	Aug 2016		
20	High Temperature	14 <sup>th</sup>	Ducom	Raiesh A
	Tribology Conference	April &	Instruments	
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SELF ASSESSMENT REPORT 2019-20

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28Work Shop-Tribology frontiers in design and maqnufacturing24th to 25thNITK, SurathkalKamalasish Deb29Work Shop-Tribology frontiers in design and maqnufacturing24th to 2016NITK, SurathkalVinod Kumar G S29Work Shop-Tribology frontiers in design and maqnufacturing25th October 2016NITK, SurathkalVinod Kumar G S30Work Shop- Back to nature-Nature friendly attitudes, sciences and nature-Nature friendly attitudes, sciences and Technologies24th to 2017RIT, BengaluruVinayak Prakash Balehittal31Work Shop- Back to nature-Nature friendly attitudes, sciences and Technologies24th to 2017RIT, BengaluruDeepthi K.R.31Work Shop- Back to nature-Nature friendly attitudes, sciences and Technologies2017Deepthi K.R.		maqnufacturing	October		
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29Work Shop-Tribology frontiers in design and maqnufacturing24th to 25thNITK, 		maqnuracturing	2016		
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30Work Shop- Back to nature-Nature friendly attitudes, sciences and nature-Nature friendly24th to 26th June 2017RIT, BengaluruVinayak Prakash Balehittal31Work Shop- Back to nature-Nature friendly attitudes, sciences and rechnologies24th to 2017RIT, BengaluruDeepthi K.R.31Work Shop- Back to nature-Nature friendly attitudes, sciences and Technologies2017Deepthi K.R.		magnufacturing	25 October	Suratlikai	5
30Work Shop- Back to nature-Nature friendly attitudes, sciences and Technologies24th to 		maqnutacturing	2016		
30       Work bhop 'back to'       21' to'       Init,       Vindyak         nature-Nature friendly attitudes, sciences and Technologies       26 <sup>th</sup> June       Bengaluru       Prakash         31       Work Shop- Back to nature-Nature friendly attitudes, sciences and Technologies       24 <sup>th</sup> to       RIT,       Deepthi K.R.         2017       26 <sup>th</sup> June       Bengaluru       2017       Deepthi K.R.	30	Work Shon- Back to	$2010$ $24^{\text{th}}$ to	RIT	Vinavak
attitudes, sciences and Technologies2017Balehittal31Work Shop- Back to nature-Nature friendly attitudes, sciences and Technologies24th to 26th June 2017RIT, BengaluruDeepthi K.R.	20	nature-Nature friendly	26 <sup>th</sup> June	Bengaluru	Prakash
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nature-Nature friendly attitudes, sciences and Technologies26th June 2017Bengaluru	31	Work Shop- Back to	24 <sup>th</sup> to	RIT,	Deepthi K.R.
attitudes, sciences and 2017 Technologies		nature-Nature friendly	26 <sup>th</sup> June	Bengaluru	1
Technologies		attitudes, sciences and	2017		
-		Technologies			

32	Work Shop- Back to	$24^{\text{th}}$ to	RIT,	Lakshminarasi
	nature-Nature friendly	26 <sup>th</sup> June	Bengaluru	mha N
	attitudes, sciences and	2017		
	Technologies			
33	Work Shop- Back to	24 <sup>th</sup> to	RIT,	Naresh K S
	nature-Nature friendly	26 <sup>th</sup> June	Bengaluru	
	attitudes, sciences and	2017		
	Technologies			
34	Work Shop- Back to	24 <sup>th</sup> to	RIT,	Vinay D R
	nature-Nature friendly	26 <sup>th</sup> June	Bengaluru	
	attitudes, sciences and	2017		
	Technologies			

#### **5.8.1 Research and Development**

Academic research includes research paper publications, Ph.D. guidance, and faculty receiving Ph.D. during the assessment period.

- Number of quality publications in refereed/SCI Journals, citations, Books/Book Chapters etc. (15)
- Ph.D. guided /Ph.D. awarded during the assessment period while working in the institute (5)
- All relevant details shall be mentioned •

Year	Journals	Total
2019-20	90	90
2018-19	94	94
2017-18	63	63

#### **Table 5.8.1.1 Consolidated list of Publications**

Table 5 8 1 2	Consolidated	list of Pr	hlications	vearwise
1 abit 5.0.1.2	Consonuateu	Inst OF Fu	ioncations	ycar wisc

Name of the Faculty	2019-20	2018-19	2017-18	Total Number of
				Publication
Dr. Manjunatha	2	2	2	6
Dr. Ganesh Prasad M S	8	3	1	12
Dr. GopalaKrishnan	3	19		22
Kanapathy				
Dr. Viswanath Bellie	7	2	1	10
Dr. Priyabrata Adhikary	4	3		7
Dr. Srinath M K	2	1	1	4
Dr. Nagendra J	2	2	2	6

Dr. Manjunatha G	1	2	1	3
Dr. Ashok Kumar	7	3		10
Dr. Sujin Jose	3		2	5
Dr. Gopal K	8	1		9
Raghu Tilak Reddy	1	2	1	4
Maramreddy				
Manjesh B C	2	1	1	4
Shivaprakash S	2	2	2	6
Ravikumar M.	1	3	1	5
Hanamant Yaragudri	1	2	2	5
Nagabhushana Narasappa	4	3	2	9
Sudarshan T A	3	2	2	7
Veeresha G	2	2	4	8
Chetan Kumar D S	3	1	2	6
Santhosh A N	1	1	1	3
Bopanna. K. D	1	3	1	5
Puneeth H V	2	2	2	6
Rajesh A	3	1	1	5
Sujeeth Swami	1	1	1	3
Ronald Reagon R	2	1	2	5
Madhusudan K	1	3	2	6
Kemparaju C R	1	2	2	5
Pavan Prabhakar Kadole	2		5	7
Karthik S N	1	2	2	5
Megha Shukla	2	1	1	4
Kamalasish Deb	1		1	2
Vinod Kumar G S	2	2	2	6
Vinayak Prakash Balehittal	1	2	2	5
Lakshminarasimha N	1	1	2	4
Naresh K S	2	2	2	6
Vinay D R	1	2	2	5
Dr.Aditi Raj	1	2	-	3
Hemanth raju	1	1	-	2

# Table 5.8.1.3 Total number of Publications (2019-2020)

SI.	Authors	Title	Name of the	DOI	Citation
No			Journal/ISSN		Index
1	Dr.Manju	Influence of Two	International		
	natha	Stage Stir Casting	Journal of		
		and 6 wt.% Boron	Scientific Research	http://ijsrcseit.c	
		Carbide Particulates	in Computer	om/CSEIT1949	UGC

		Addition on	Science,	1125	
		Mechanical	Engineering and		
		Characterization and	Information		
		Wear Behaviour of	Technology/ISSN:		
		Al2618 Alloy	2456-3307,2020		
		Composites			
		Influence Of 44 And	International	http://www.tiprc	
		63 Micron Varving	Journal of	org/conference-	Scopus
		Sized B4c Particles	Mechanical and	archives php?pa	o o o p us
		Addition On The	Production	ge=113	
		Tensile Behaviour	Fngineering	50-115	
		And Fractography Of	Research and		
		Al2618 Alloy Metal	Development		
		Compositos			
		Ween and compasion	(DIVIFERD),2020	https://doi.org/1	
		wear and corrosion	Duffetin Of	nups://doi.org/1	Commo
				0.1007/\$12034-	Scopus
		carbo-nitride coated	Science/(2020	020-2069-9	
		AI-7075 produced	) 43:108		
		through PVD.			
		FDM Process	Journal of The	DOI	
	Dr.M S	Parameter	Institution of	10.1007/s40032	
2	Ganesha	Optimization by	Engineers	-019-00538-6	
	Prasad	Taguchi Technique	(India): Series C	https://doi.org/1	Scopus
		for Augmenting the	Mechanical,	0.1007/s40032-	
		Mechanical	Production,	019-00538-6	
		Properties of Nylon-	Aerospace and		
		Aramid Composite	Marine		
		Used as Filament	Engineering/313–		
		Material	322(2020		
		Nylon-aramid	AIP		
		polymer composite	Conferenc	https://doi.org/1	Scopus
		as sliding liner for	e/	0.1063/1.50856	
		lube-less sliding	10.1063/1.	18	
		bearing by fused	5085618		
		deposition			
		modeling			
		Design And	International	https://www.sci	
		Fabrication Of	Journal of	magojr.com/iou	UGC
		Electric Powered	Mechanical and	rnalsearch.php?	
		Roller Operated	Production	a=21100814505	
		Fruit Dehvdrator	Engineering	&tip=sid&clean	
		For Uniform Drving	Research and		
			Development		
1					

		Process Optimization	9th International		
		of Friction Stir	Conference of	https://doi.org/1	Scopus
		Welded AA7XXX	Materials	0.1016/j.matpr.2	-
		and Steel With	Processing and	019.07.286	
		Different Preheating	Characterization,		
		Conditions	ICMPC-2019		
		Design And	International		
		Analysis Of OD	Journal of		UGC
		Chamfering	Scientific Research	http://ijsrcseit.c	
		Machine wheel	in Computer	om/CSEIT1949	
		Assembly For	Science,	1153	
		Helical Springs	Engineering and		
			Information		
			Technology/ ISSN		
			: 2456-3307		
		Static & Dynamic	IOP		
		Performance	Conference	doi:10.1088/175	Scopus
		analysis and modal	Series:	7-	
		Simulation of single	Materials	899X/872/1/012	
		point cutting tool	Science and	073	
			Engineering,		
			Vol-872		
3	Dr.Viswa	Electrophoretic	Adv. Mater. App. 3	https://www.mad	
	nath	Deposition of	(2019) 1-5	rasjournalseries.c	UGC
	Bellie	Mullite Nano		om/	
		Coating by using			
		Low Voltage DC			
		Novel greener	Adv. Mater. App. 3	https://833d058	
		synthesis and	(2019) 6-9	7-f3f3-4cd8-	UGC
		characterization of		bcc5-	
		mixed metal oxides		4a30f07cfade.fil	
		using Cyathia		esusr.com/ugd/5	
		nilgiriensis holttum		a09b5_e3172c9	
		plant extract		814864dfda797	
				7a7f0490d947.p	
				df	
		HVOF sprayed	Journal of Indian	Indian Thermal	Scopus
		mullite coatings for	Thermal Spray	Spray Society	
		use in extreme	Technology/ ISSN:	(ITSS)	
		environments	2582-1474	https://scholar.go	
				ogle.com/citation	
				s?hl=en&user=l4	
1				6GnPYAAAAJ	

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SELF ASSESSMENT REPORT 20

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		Green Synthesized			
		Copper Oxide	Wutan Huatan	https://www.sci	
		Nanoparticles	Jisuan Jishu	magojr.com/jou	Scopus
		Using Pisonia	ISSN:1001-1749,	rnalsearch.php?	-
		Grandis R.Br. Plant	Vol-16, issue- 5	q=87584&tip=si	
		Extract And Its		d	
		Antibacterial			
		Activity			
		A Novel Machine	International	10.37200/IJPR/	
		Learning Technique	Journal of	V24I5/PR20206	UGC
		towards Predicting	Psychosocial	97	
		the Sale of Washing	Rehabilitation/		
		Machines in a Small	ISSN: 1475-7192		
		Organization			
		Electrophoretic	Adv. Mater App	https://www.ma	Sconus
		Deposition of	3 (2019) 1-5	drasiournalserie	Scopus
		Mullite Nano	5 (2017) 1 5	s com/	
		Coating by using		5.0011/	
		Low Voltage DC			
		Low Voltage DC	International	https://www.ijott	
		Loorning techniques	International	iournal org/soora	Scopus
		towards predicting	Engineering Trends	b?	scopus
		the number of dengue	and Technology /	aarahward-Usi	
		dooths in India	ISSN: 2221 5281	searchivolu-Usi	
		access study	$V_{0} = 14$ Isoup 16	ning toobniquos	
		case study	v 01-14, 188ue-10	towarda   madia	
				+towards+predic	
		Ch'lle 1 Weter		u 1	
		Chilled water	ARPN Journal of	http://www.arpnj	c
		Pump Trouble-	Engineering and	ournals.org/jeas/r	Scopus
		Shooting By A.I.: A	Applied Sciences	esearch_papers/r	
		Case Study	ISSN 1819-6608	p_2019/jeas_081	
		+3		9_7880.pdf	
			International		
			Journal of	https://www.sci	
		HVAC Chilled	Mechanical and	magojr.com/jou	
	Dr	Water Pump	Production	rnalsearch.php?	Scopus
1	Priyabrat	Performance	Engineering	q=21100814505	
	a	Analysis: A Case	Research and	&tip=sid&clean	
	Adhikary	Study	Development/	=0	
			ISSN(P): 2249–		
			6890; ISSN(E):		
			2249–8001,		
			Vol-10, Special		

	7				
			Issue June 2020		
		Performance	International		
		Analysis of Bank	Journal of Scientific		
		Conference Room	Research in	http://ijsrcseit.c	UGC
		AC Design: A	Computer Science,	om/search_resul	
		Case Study	Engineering and	t.php	
			Information		
			Technology/ ISSN :		
			2456-3307		
		Chilled Water	ARPN Journal of	http://www.arpn	
		Pump Trouble-	Engineering and	journals.org/jeas	
		Shooting By A.I.: A	Applied Sciences	/research_paper	
		Case Study	ISSN 1819-6608	s/rp_2019/jeas_	UGC
		+3		0819_7880.pdf	
		Wear and corrosion	Bulletin of	https://doi.org/1	
		resistance of titanium	Materials	0.1007/s12034-	Scopus
		carbo-nitride coated	Science/(202	020-2069-9	
5	Dr.	Al-7075 produced	0) 43:108		
	Srinath	through PVD			
	M K	Static & dynamic	IOP		Scopus
		performance analysis	Conference	doi:10.1088/175	1
		and modal	Series:	7-	
		simulations of single	Materials	899X/872/1/012	
		point cutting tool	Science and	073	
			Engineering		
6	Dr.	Chilled Water Pump	ARPN Journal of	http://www.arpnj	
	Ashok	Trouble- Shooting	Engineering and	ournals.org/jeas/r	UGC
	Kumar	By A.I.: A Case	Applied Sciences	esearch_papers/r	
		Study	ISSN 1819-6608	p_2019/jeas_081	
				9 7880.pdf	
		Analysis Of CNG-	IJMPERD ISSN:	https://www.sci	
		Diesel Powered	2249-6890.	magojr.com/jou	Scopus
		Diesel Engine	Vol-9, issue-4	rnalsearch.php?	1
		Combustion	,	q=2249-6890	
		Performance And		1	
		Exhaust Emission			
		Characteristics			
		To Study the	United States	http://www.asnh	
		Effects of	American	s.com/	Sconus
		(CNG+Diesel)	Scientific	https://scholar.g	Pao
		Under Dual Fuel	Publisher Vol-7	oogle co in/citat	
		Mode on Engine	1- 5.2019	ions?user=0wc6	
		Performance and		RvYAAAAI&h	
		Under Dual Fuel Mode on Engine	Publisher, Vol-7, 1- 5,2019	oogle.co.in/citat ions?user=0wc6	
		Performance and		RvYAAAAJ&h	

		Emissions		l=en	
		Characteristic			
		Study Potential Of		http://www.jetir	
		Microalgae For	JETIR	.org/	UGC
		<b>Biodiesel Production</b>		https://scholar.g	
				oogle.co.in/citat	
				ions?hl=en&use	
				r=fm	
				1mIAAAAJ	
		Use of CNG in	International		
		Diesel Fuelled	Journal of	https://journals.i	
		Compression	Engineering &	ndexcopernicus.	Scopus
		Ignition Engine to	Science	com/search/deta	_
		Study its Effects on	Research ISSN	ils?id=33370	
		The Performance	2277-2685		
		and Carbon- Based			
		Exhaust Emission			
		Effective Utilization			
		of Algae Biomass	Asian Journal Of		
		from Wastewater for	Chemistry, Vol- 31,	https://journals.i	
		<b>Biodiesel Production</b>	No-9(2019), 2065-	ndexcopernicus.	Scopus
		by Direct	2068	com/search/deta	-
		Transesterification: A		ils?id=33370	
		Promising Approach			
		for Sustainable			
		Bioenergy			
		Production			
		Experimental			
	Dr.	Assesment of	Elsevier, volume	https://doi.org/1	Scopus
	Ashok	performance,	193,2020	0.1.16/j.energy.	-
	Kumar	combustion and		2019116861	
		emission of a			
		compression			
		ignition engine			
		fuelled with			
		Spirulina platensis			
		biodiesel			
7	Dr.	Effective	Energy Sources,		
	Gopal K	utilization of	Part A: Recovery,	https://link.sprin	
		waste plastic	Utilization, and	ger.com/article/	
		oil/n-hexanol in	Environmental	10.1007/s11157	Scopus
		an off road,	Effects. (Taylor	-019-09516-x	
		unmodified DI	and Francis) Print		

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	dieser engine and	155IN: 1550- 7050		
	evaluating its	Online ISSN:		
	performance,	1556-7230, Vol-		
	emission and	42, No-11		
	combustion			
	characteristics			
	Effect of retarded			
	injection timing and	Fuel - Publisher -		
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	emission		20.110504	
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	rueled with WHDPE			
	oil/diesel blends			
	Effect of anisole			
	addition to waste	Fuel - Publisher -		
	cooking oil methyl	Elsevier, ISSN:	https://doi.org/1	Scopus
	ester on combustion,	0016-2361	0.1016/j.fuel.20	
	emission and		20.118315	
	performance			
	characteristics of a DI			
	diesel engine without			
	any modifications			
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	of 1-decanol addition	Flsevier ISSN		
	injection pressure and	0016-2361	https://doi.org/1	Sconus
	EGP on discal angina	0010 2301	0 1016/i fuel 20	Scopus
	abore staristics fueled		0.1010/j.1ue1.20	
			20.118100	
	with diesel/LDPE off			
	Diends			
	Utilization of waste	Reviews in		
	plastic oil in diesel	Environmental		
	engines: a review	Science and	https://link.sprin	Scopus
		Bio/Technology,	ger.com/article/	
		Publisher - Springer	10.1007/s11157	
		Netherlands, ISSN:	-019-09516-x	
		1569-1705		
		(Print) 1572-9826		
		(Online)		
	Comparative	Energy Sources.		
	analysis on the	Part A: Recovery.		
		,		

		effect of 1-decanol	Utilization, and	https://doi.org/10	
		and di-n- butyl	Environmental	.1080/15567036.	Scopus
		ether as additive	Effects, Publisher -	2020.1773967	
		with diesel/LDPE	Taylor & Francis,		
		blends in	Print ISSN: 1556-		
		compression	7036 Online ISSN:		
		ignition engine	1556-7230		
			Reviews in		
		Utilization of waste	Environmental	https://link.sprin	Scopus
		plastic oil in diesel	Science and	ger.com/article/	
		engines: a review	Bio/Technology /	10.1007/s11157	
			ISSN: 1569-1705	-019-09516-x	
			(Print) 1572-		
			9826 (Online)		
		Comparative account			
		of the effects of two			
		high carbon alcohols		https://doi.org/10	
		(C5 & C6) on	Taylor & Francis,	.1080/15567036.	Scopus
		combustion,	Vol-42, No- 14,	2019.1604888	
		performance and	1772-1784		
		emission			
		characteristics of a			
		DI diesel engine			
		Preparation and	IJSRCSEIT / ISSN		
8	Santhosh	Characterization of	: 2456-3307,	http://ijsrcseit.c	UGC
	A N	Heat Treated Nickel	vol-4, Issue-9	om/search_resul	
		Silver for Marine		t.php	
		Applications			
		Work Hardening	IJSRCSEIT/ISSN:2		
9	Karthik S	Characteristics of	456-3307, vol-	http://ijsrcseit.c	UGC
	Ν	Non-Heat Treatable	4, Issue-9	om/CSEIT1949	
		Aluminium Alloys		1141	
		Influence of Two	International		
		Stage Stir Casting	Journal of		
		and 6 wt.% Boron	Scientific Research		
		Carbide Particulates	in Computer		UGC
		Addition on	Science,	http://ijsrcseit.c	
		Mechanical	Engineering and	om/CSEIT1949	
10	Veeresha	Characterization and	Information	1125	
	G	Wear Behaviour of	Technology/ISSN:		
		Al2618 Alloy	2456-3307, Vol-4,		
		Composites	Issue-9		

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		Influence Of 44 And 63 Micron Varying Sized B4c Particles Addition On The Tensile Behavior And Fractography Of Al2618 Alloy Metal Composites	International Journal of Mechanical and Production Engineering Research and Development (IJMPERD), ISSN:2249-8001, Vol-10,Special Issue- Jun-2020	http://www.tjprc .org/conference- archives.php?pa ge=113	Scopus
11	Chetan	Mold Fill analysis of injection mold Tool	International Journal of Scientific Research in Computer Science, Engineering and Information Technology/Volum e 4  Issue 9 ISSN : 2456-3307	http://ijsrcseit.c om/CSEIT1949 1139	UGC
11 Kumar D S	Design of Injection Molding Tool for the Component	International Journal of Scientific Research in Computer Science, Engineering and Information Technology/ISSN: 2456- 3307/Volume 4   Issue 9   ISSN : 2456-3307	http://ijsrcseit.c om/CSEIT1949 1138	UGC	
		Structural Analysis Of E-House Bracket	International Journal of Mechanical and Production Engineering Research and Development (IJMPERD), Vol- 10, Special Issue- jun-2020	http://www.tjprc .org/conference- archives.php?pa ge=113	Scopus

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12	Shivaprak ash S	Mold Fill analysis of injection mold Tool	International Journal of Scientific Research in Computer Science, Engineering and Information Technology/Volum e 4 Issue 9 ISSN : 2456-3307	http://ijsrcseit.c om/CSEIT1949 1138	UGC
		Design of Injection Molding Tool for the Component	International Journal of Scientific Research in Computer Science, Engineering and Information Technology/Volum e 4  Issue 9 ISSN : 2456-3307	http://ijsrcseit.c om/CSEIT1949 1138	UGC
13	Kamala sish Deb	To Study the Effects of (CNG+Diesel) Under Dual Fuel Mode on Engine Performance and Emissions Characteristic	United States American Scientific Publisher	http://www.aspb s.com/	Scopus
		Evaluation of Thermal properties of Rapeseed Biofuel	IJSRCSE & IT, ISSN:2456-3307, Vol-4 Issue-9	https://scholar.g oogle.com/citati ons?hl=en&user =vANF2jgAAA AJ	UGC
14	RaghuTi lakRedd y. M	Study & Experimentation about machinability of Al-7075 composite	International Journal of Scientific Research in Computer Science, Engineering and Information Technology/ ISSN : 2456-3307	http://ijsrcseit.c om/CSEIT1949 1121	UGC

15	Sudarsha		International		
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	IIIA	Experimental Investigation On	Journal of		
		Machanical	Production	http://www.tingo	Saamua
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		Aluminium 2285	Research and	archives.php?pa	
		Metal Matrix	Development/	ge=113	
		Composite	ISSN(P): 2249–		
		Reinforced With	6890; ISSN(E):		
		Silicon Nitride	2249-		
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		Irrigation	Volume-7,		
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		Analysis of Fixed and	Scientific Research	http://ijsrcseit.c	UGC
		Tracking Flat Plate	in Computer	om/CSEIT1949	
		Collectors	Science,	1142	
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			Information		
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			International	<u> </u>	
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16	Vinod	characterization of	Scientific Research	http://iisrcseit.c	UGC
	Kumar G	electroless Ni-Mo-P	in Computer	om/CSEIT1949	
	S	allov coating	Science	1132	
			Engineering and	1152	
			Information		
			Technology/ ISSN		
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		Chamfering	in Computer	om/CSEIT1949	
		Machine Wheel	Science,	1153	
		Assembly for	Engineering and		
17	Naresh K	Helical Springs	Information		
	S		Technology/ ISSN		
			: 2456-3307, Vol-		
			4, Issue-9		
			International	tps://ieeexplore.i	
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		Smart Traffic	Science Technology	document/82613	
		management	Engineering &	08	Scopus
		system using IOT	Management	10.1109/ICONS	
			(ICONSTEM)	TEM.2017.8261	
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		Biological factors		https://link.sprin	
		influencing the	Springer	ger.com/article/	~
		degradation of		10.1007/s40899	Scopus
		water-soluble metal		-019-00317-2	
		working fluids			
		Progressive Damage	International		
10		Simulation of a	Journal of	1	uga
18	Puneeth	Composite Double	Scientific Research	http://ijsrcseit.c	UGC
	ΗV	Cantilever Beam	in Science,	om/CSEIT1949	
		using Virtual Crack	Engineering and	1124	
		Closure Technique	l echnology,		
		and Conesive Zone	VOIUME 4   ISSUE 9		
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		Machine Learning	International		
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19	halehittal	Predicting	Scientific Research	om/CSFIT10/10	UGC
		Roughness of	in Science	1137	
		Prototype built using	Engineering and	1157	

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		Rapid Prototyping	Technology, Volume 4   Issue 9   ISSN : 2456- 3307		
20	Nagabhus hana N	Influence of substrate roughness on the wear behaviour of kinetic spray coating	Materilas Today, Publisher Elsveir, Volume 27, Part 3, 2020, Pages 2498-2502	https://www.sci encedirect.com/ science/article/p ii/S2214785319 334686	Scopus
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		Characterization of Aluminum-E- Glass Fibre - Epoxy Reinforced Fibre Metal Laminates Composites	Internationalrnal of Scientific Research in Computer Science, Engineering and Information Techno, Volume 4   Issue 9   ISSN : 2456-3307	http://ijsrcseit.c om/CSEIT1949 1136	UGC
21	Hanaman t Yaragudri	Design and Development of Chalk Dust Cleaning Equipment	International Journal of Scientific Research in Computer Science, Engineering and Information Technology, Volume 4   Issue 9   ISSN : 2456-3307	http://ijsrcseit.c om/CSEIT1949 1151	UGC
22	Vinay D R	Design and Development of Universal Seeding,	International Journal of Scientific Research in		

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		Spraying Equipment	Engineering and	om/CSEIT1949	
			Information	1133	
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			2456-3307, Vol-4,		
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		influence of	Journal of		
23	Kemparaj	graphene in natural	Scientific Research	http://ijsrcseit.c	UGC
	u C R	rubber latex	in Computer	om/CSEIT1949	
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			Engineering and		
			Information		
			Technology, Vol-4,		
			Issue-9,		
			ISSN:2456-3307		
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		Analysis on Typical	Journal of		
		T- Structural Frame	Scientific Research	http://ijsrcseit.c	UGC
		Subjected to Varied	in Computer	om/CSEIT1949	
24	Megha	Loading Angle using	Science,	1130	
	shukla	MATLAB	Engineering and		
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			Technology/ ISSN		
			: 2456-3307, Vol-		
			7, Issue-2		
		Analysis of A	International	<b>1</b> // <b>··</b>	
		Cable Loaded	Journal of	http://ijsrcseit.c	UGC
		Uniformly Along	Scientific Research	om/CSEIT1949	
		the Horizontal	in Science,	1130	
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25	Dovikum	Fabrication Of	Machanical and	http://www.tipro	Sconus
23	or M	Poller Operated	Production	org/conference	scopus
		Fruit Dehydrator	Engineering	archives nhn?na	
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26 Manj ha G	Manjunat ha G	Study of hardness and wear properties of graphene based polyester resin composites	International Journal of Scientific Research in Computer Science, Engineering and Information Technology/ ISSN :	http://ijsrcseit.c om/CSEIT1949 1128	UGC
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Lakshmi 27 narasimh a N	Lakshmi narasimh a N	Analysis on safety bumper placed at the end of race-track using MATLAB	Journal of Scientific Research in Computer Science, Engineering and Information Technology/ ISSN : 2456-3307, Vol-	http://ijsrcseit.c om/CSEIT1949 1129	UGC
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28	Madhusu dan K	Fabrication And Study Of The Effect Of Flyash On Aluminium 2024 Composite	International Journal of Scientific Research in Computer Science, Engineering and Information Technology/ ISSN : 2456-3307, Vol-	http://ijsrcseit.c om/CSEIT1949 145	UGC
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		Optimization Of A Aircraft's Fuselage Using Topology	International Journal of Scientific Research in Computer Science,	http://ijsrcseit.c om/CSEIT1949 1145	UGC
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29	Mr. Raiech A	Comparativa	4, Issue-9		
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30	Dr. Nagendra J	FDM Process Parameter Optimization by Taguchi Technique for Augmenting the Mechanical Properties of Nylon– Aramid Composite Used as Filament Material	Journal of The Institution of Engineers (India): Series C	https://link.sprin ger.com/article/ 10.1007/s40032 -019-00538-6	Scopus
31	Mr.	Design and Fabrication of hybrid solar windmill	International journal for science and advance research in technology	http://ijsart.com/ Home/IssueDet ail/33020	UGC
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32	Bopanna K D	Modification of Milling and Turning Tool Inserts Plant	International Journal of Scientific Research in Computer	http://ijsrcseit.c om/CSEIT1949	UGC

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		Company	Information		
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			International		
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33	Sujeeth	Fabrication Of Solar	Scientific Research	http://ijsrcseit.co	UGC
	Swami	Still	in Computer	m/CSEIT194911	
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			Engineering and		
			Information		
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		Evaluation of	Loading'	Vol.10, special	
		Mechanical	International	issue, Jun2020,.	
		Properties of	Journal of	https://scholar.go	Scopus
		Epoxy Matrix	Mechanical and	ogle.com/citation	
		Composites for	Production	s?hl=en&user=3	
		various Filler	Engineering	q3rwrsAAAAJ	
	Dr.	Loading'	Research and	-	
	SujinJose		Development		
34			ISSN(P):2249-		
			6890;		
			ISSN(E):2249-		
			8001		
		Theoretical and	International	Volume-8 Issue-	
		Experimental	Journal of Recent	4, November	
		analysis of tensile	Technology and	2019	Scopus
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		Prosopis Juliflora	2277-3878	ogle.com/citation	
		Fiber Reinforced		s?hl=en&user=3	
		Phenol		q3rwrsAAAAJ	
		Formaldehyde			
		Composites			
		Mechanical Behavior	International	Volume-8 Issue-	
		of Coir and Wood	Journal of	12, October 2019	
		Dust Particulate	Innovative	https://scholar.go	UGC
		Reinforced Hybrid	Technology and	ogle.com/citation	
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		Method and Design	CHE and	18/10/2019	
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		Deployment	201841013792, E-	ogle.co.in/citatio	
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		Bayer Classifer	ISSN:2249-8958,		
			Vol-9, Issue-2		
		Melanoma Skin	Medico-legal	DOI:https://doi.o	
		Cancer Classification	Update, July-	rg/10.375/mlu.v2	Scopus
		using Deep Learning	September 2020,	0i3.1421	
		Convolution Neural	Vol.20, No. 3		
		Network			
	Kadole	Vibration	International	http://ijsrcseit.co	
	Pavan	Charrcteristics &	Conference on	m/PDF.php?	
36	Prabhakar	parametric Analysis	Innovative	pid=CSEIT1949	UGC
		of Inflamable	Research in	1146&v=4&i=9	
		Membranes	Engineering,	&y=2019&m=N	
			Management and	ovember-	
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	T7 1 1		2456-3307	DOI	
	Kadole	Design and	International		
	Pavan	Fabrication of	Journal of	nttps://doi.org/10	
	Prabhakar	Automatic Sorting	Scientific Research	.32628/IJSRSET	
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		Arduino	Engineering and		
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	A did D - '	Uridao damani -	: 2394-4099	http://limly.com	
	Aditi Raj	Hydrodynamic	Springer, Journal of	https://link.sprin	

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		Estimation for an	Robotic Systems	0.1007/s10846-	_
		Anguilliform-	volume 99,	020-01154-8	
		inspired Robot	pages837–		
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38	raju	Landing Gears in	Journal JETIR	s?hl=en&user=	
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39	Pavan	Pneumatic	research in		
	Prabhakar	Braking System	science, engineering		
		with speed control	and		
			technology(IJSRSE		
			T)VOL 7,ISSUE		
40		<b>.</b>	3,ISSN-2395-1900		a
40	Gopal	Emission	Energy and	https://scholar.go	Scopus
	Kaliyaper	profiling of a	environment	ogle.com/citation	
	umai	common rail	DOI:10.11///09583	s?nl=en&user=1t	
		direct injection	05X20942873	X65WUAAAAJ	
		diesel engine			
		hudro corbon			
		fueled with			
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		poryethylene as a			
		replacement for			
		diesel with some			
		modifications			
		Prediction and	Taylor and	https://scholar.go	Scopus
		optimization of	Francis.2020	ogle.com/citation	P.
		engine	Volume 42.No.16.	s?hl=en&user=Tt	
		characteristics of	https://doi.0rg/10.10	X65wUAAAAJ	
		a DI diesel engine	80/15567036.2019.		
		fueled with	1607923		

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		cyclohexanol/dies		
10	A 1 1	el blends	T ( ( 1	
42	ASNOK	Effects of	International	nttps://scholar.go/Scopus
	Kumar	compression		ogle.com/citation
		ratios on	mechanical and	s?nl=en&user=f
		performance and	production	m1mIAAAAJ
		regulated	engineering	
		emission of CI	research and	
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		with diesel and	ERD)vol 10,special	
		biodiesel(B100)	issue,Jan 2020,177-	
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			ISSN 2249-6890	
43	Pritabrata	Chilled water	ARPN Journal of	https://scholar.go
	Adhikary	pump trouble-	engineering and	ogle.com/citation
		shooting by A.I. :	applied sciences	s?hl=en&user=v
		case study	VOL 14,NO	6Rj_8kAAAAJ
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		Analysis on	International	https://scholar.go Scopus
		propeller pump	Journal of	ogle.com/citation
		performance	mechanical and	s?hl=en&user=v
			production	6Rj_8kAAAAJ
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			development(IJMP	
			ERD)vol 10,special	
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			135	
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		Analysis on data	International	https://scholar.go Scopus
		center cooling	Journal of	ogle.com/citation
		performance	mechanical and	s?hl=en&user=v
			production	6Rj_8kAAAAJ
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No			Journal name		on
					Index
		Mechanical	IOSR Journal of	http://www.iosr	
		Characterization of 63	Engineering	jen.org/Papers/	
		Micron Sized B4C	(IOSRJEN)	vol8_issue12/V	Scopus
		Particulates Reinforced	ISSN (e): 2250-	ersion-	
		Al2618Alloy	3021, ISSN (p):	2/H081202475	
1	Dr.Manju	Composites	2278-8719 Vol.	3.pdf	
	natha		08, Issue 12		
		Fabrication Of	IJTIMES/ e-ISSN:	http://ijtimes.co	
		Automatic Sewage	2455-2585	m/papers/finish	
		Cleaning Machine	Volume 5, Issue	ed_papers/IJTI	UGC
			05	MESV05I0515	
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		Comparison of	International	https://www.res	
		tribological behaviour	Journal of	earchgate.net/p	
		of nylon aramid	Mechanical	ublication/3301	Scopus
		polymer composite	Engineering and	05241	
		fabricated bu fused	Technology/ISSN		
	Dr. M S	deposition modeling	Online 0976-6359,		
	Gane	and injection molding	Volume 9, Issue		
	sha		13		
	Prasa	Biological factors	Sustainable Water	https://link.spri	
	d	influencing the	Resources	nger.com/articl	Scopus
		degradation of water-	Management,	e/10.1007/s408	
		soluble metal working	Springer/ ISSN:	99-019-00317-	
2		fluids	2363-5045	2	
		Thermal	Springer/ISSN:22	https://link.spri	
		Characterization of	50-0553	nger.com/articl	Scopus
		Aluminium-Based		e/10.1007/s400	
		Composite Structures		32-019-00507-	
		Using Laser Flash		z	
		analysis			
3	Mr.Nage	Comparison of	International	https://www.res	
	ndra J	tribological behaviour	Journal of	earchgate.net/p	
		of nylon aramid	Mechanical	ublication/3301	Scopus
		polymer composite	Engineering and	05241	
		fabricated by fused	Tech/ISSN 0976-		
		deposition modeling	6359, Volume 9,		
		and injection molding	Issue 13		

### Table 5.8.1.4 Total no. of Publication (2018-2019)

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Image: sliding liner for lube-less sliding bearing by fused deposition modeling201918Image: sliding bearing by fused deposition modeling18Image: sliding bearing by fused deposition modelingSustainablehttps://link.spri nger.com/articl ger.com/articl sluble metal working fluidsImage: sliding bearing by fuidsBiological factors fluidsSustainablehttps://link.spri nger.com/articl ger.com/articlImage: sliding bearing by fuidsManagement, springer/2363-e/10.1007/s408Image: sliding bearing by fluidsSpringer/2363- 504599-019-00317- 2Image: sliding bearing by fluidsSoluble metal working fluidsSpringer/2363- 22Image: sliding bearing by fluidsSoluble metal working fluidsSpringer/2363- 22Image: sliding bearing by fluidsSoluble metal working springer/2363-Scopus ger/2363-Image: sliding bearing by fluidsSoluble metal working springer/2363-Scopus ger/2363-Image: sliding bearing by fluidsScopus springer/2363-Scopus ger/2363-Image: sliding bearing by fluidsScopus springer/2363-Scopus ger/2363-Image: sliding by fluidsScopus springer/2363-Scopus ger/2363-Image: sliding by fluidsScopus springer/2363-Scopus ger/2363-Image: sliding by fluidsScopus springer/2363-Scopus ger/2363-Image: sliding by fluidsScopus springer/2363-Scopus springer/2363-Ima			polymer composite as	Proceedings,	0.1063/1.50856	Scopus
less sliding bearing by fused deposition modelingless sliding bearing by fused deposition modelingless sliding bearing by fused deposition modelingBiological factors influencing the degradation of water- soluble metal working fluidsSustainable Water Resources Management, Springer/2363- 5045https://link.spri Scopus e/10.1007/s408Mr. Puneeth HVDesign of Auto Drilling Mechanism HVIJSART/ ISSN [ONLINE]: 2395-1052, -http://ijsart.com tail/33008Botto journal			sliding liner for lube-	2019	18	_
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		Performance evaluation of four stroke CI engine operated on home and diethyl ether blends	International Journal of Recent Trends in Engineering and Research(IJRTER) Volume 04, Issue 03; March- 2018 [ISSN: 2455-1457]	https://www.ijr ter.com/papers /volume- 4/issue- 3/performance -evaluation-of- four-stroke-ci- engine- operated-on- home-and-di- ethyl-ether- blends.pdf	UGC
26	Srinath MK	Surface morphology and hardness analysis of TiCN coated AA7075 aluminium alloy	Springer, 2019	https://link.sprin ger.com/article/ 10.1007/s40032 -017-0427-1	Scopus
27	Manjuna tha G	Effect of sonicatedgraph ene interface in the bi- woven fabric glass fiber reinforced polymer composites	International Conference on Composite Materials and Structures	https://scholar.g oogle.co.in/citati ons?hl=en&user =fSKb7WMAA AAJ	Scopus
28	Vinodku mar	Implementation of CPV cell for electricity and water heating using dish concentrator	International Journal of Emerging Technologies in Engineering Research(IJETER) ISSN: 2454-6410, Volume 6, Issue 1	https://www.ijete r.everscience.org /Manuscripts/Vol ume-6/Issue- 1/Vol-6-issue-1- M-12.pdf	UGC
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	Shukla				
		Utilization of Jatropha		LAMBERT	
		Biodiesel in Agricultural		Academic	
3	Dr. Gopal K	Diesel engine	Book	Publishing	2020
		Alcohol Contribution over			
	Dr. Gopal K	Conventional Fuel	Book	IntechOpen	2019
4			Chapter		
		Techorizon-2017:		NHCE	
5	Dr. Ganesh	Exhibiting Innovative Ideas	Book	Publication	
	Prasad M S			ISBN 978-93-	2017
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hnan Low Earth Orbit	
Dr. K. Wire Rope Vibration Flip Be	ook by
11 Gopalakris Isolators for Applications in TSC D	Digital
hnan Space Engineering Book Public	eations 2020
Dr. K. Systems Engineering for Flip Be	ook by
12 Gopalakris NanoSatellite Building Book TSC D	Digital 2020
hnan Public	ations
Dr. K. Satellites and the Dawn of Ltd Ed	lition
13 Gopalakris New Space Book Publish	hed 09/04/2019
hnan with S	pecial
Permis	ssion by
Dr. K. New Space Era: Small UNISH	EC
14 Gopalakris Satellites-Big Applications Book India	09/04/2019
hnan Public	ation
Dr. K. CanSats to CubeSats: An UNISE	EC
15 Gopalakris Introduction to Nano India	
hnan Satellites Book Public	ation 09/04/2019
16 Dr. K. Compendium of Students' Book WFEC	D-CIC
Gopalakris Satellites and IT	CA 09/05/2018
hnan Publi	ication
17Dr. K.Compendium of R&DAirwal	lk 21/12/2015
Gopalakris Projects-NHCE Book Public	eations 12/07/2018
hnan	
Dr. K. Hand Book on Opportunities Airwa	lk 21/12/2015
Gopalakris of R&D Funding Book Public	cations 12/07/2018
18 hnan	
Dr. K. Successful Startups and Airwal	lk
Gopalakris R&D Projects of NHCE Public	cations 21/12/2015
19 hnan Book	12/07/2018
Dr. K. R&D @ NHCE Airwal	lk 07/11/2018
20 Gopalakris Book Public	ations
hnan	
Dr. K. Compendium on Airwal	lk
21 Gopalakris Technology Business Public	cations 21/12/2015
hnan Incubation @ NHCE: Book	12/07/2018
Success Stories	
22 Dr. K. IPR Policy of NHCE	07/11/2018

	Gopalakris		Book	Airwalk	
	hnan			Publications	
23	Dr. K.	R&D @ NHCE	Book	Airwalk	07/11/2018
	Gopalakris			Publications	
	hnan				
	Dr. K.	Compendium on		Airwalk	
24	Gopalakris	Technology Business		Publications	
	hnan	Incubation @ NHCE:	Book		21/12/2015
		Success Stories			
25	Dr. K.	IPR Policy of NHCE		Airwalk	07/11/2018
	Gopalakris		Book	Publications	
	hnan				
	Dr. K.	Operational Guidelines for		Airwalk	
	Gopalakris	Sponsored Research Projects		Publications	
26	hnan	@ NHCE	Book		07/11/2018
	Dr. K.	Business Incubation Policy		Airwalk	
	Gopalakris	of NHCE: Trends &		Publications	
27	hnan	Technology Timeline	Book		07/11/2018
		2010-2050			
	Dr. K.	Business Incubation Policy		Airwalk	
	Gopalakris	of NHCE: Incubator		Publications	
28	hnan	Services Provided at	Book		07/11/2018
		NHCE for Stratups			
	Dr. K.	R&D Policy and Vision of		Airwalk	
	Gopalakris	NHCE: R&D Performance		Publications	
29	hnan	Evaluation Matrix at NHCE	Book		07/11/2018
		Road Less Travelled!			Flip Book
		Research@New Horizon:			by TSC
30	Dr. K.	Achievements, Since 2015	Book	04/19/2020	Digital
	Gopalakris				Publications
	hnan				
	Dr. K.	Systems Engineering for	Book		Flip Book
	Gopalakris	NanoSatellite Building			by TSC
31	hnan	Book		05/14/2020	Digital
					Publication
		Golden Jubilee			Flip Book
		celebrations of NHEI:			by TSC
	Dr. K.	Achievements of Students			Digital
	Gopalakris	of R&D cell, Successful			Publication
32	hnan	Satrt-ups and Institutions	Book	07/07/2020	ISBN:
		Innovation Council of			9789354078
		NHCE			217

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		Evolution of The Space	Book		Flip Book
33		Company: TSC			by TSC
		Technologies Private			Digital
	Dr. K.	Limited-Beyond Horizon-		08/15/2020	Publication
	Gopalakris	Sky is not the Limit Book			s
	hnan				ISBN:
					978935408
					4669
		World CanSat/Rocketry			Flip Book
	Dr. K.	Championship: International			by TSC
	Gopalakris	Webinar Report 22-26 June			Digital
34	hnan	2020	Book	08/15/2020	Publication
					S
		Contemporary Research in			
		Engineering and			
		Technology			
		/Evaluation of Water		ANVI	
35	Dr. Sujin	Absorption Char- acteristics	BookC	Publisher	2019
	Jose	of Banana	hapter	s, Delhi,	
		Fiber reinforced		India	
		Polyester Composites			

## Table 5.8.1.7 Patents Filed by Faculty Members

Sl.No	Title of	Jurisdiction/	Inventors' Name	Department
	Patent/Discovery/Pate	Published in	Faculty Members/	/ Year of
	nt Pending No./Patent	Indian Patent	Students/Emeritus	Applicati
	No./ Patent	Journal/	Professors	on
	Application Number	Published		
		Date		
	Design and Fabrication	India No.	Dr. Manjunatha,	
1.	of Autonomous	48/2018	Dr. M S Ganesha	Mechanic
	Lubrication of Chain	Dt. 30/11/2018	Prasad,	al 2017
	E-2/1422/2017-CHE		Rakesh C,	
	and Application No.		Vikas Kumar,	
	201741018085		Utkarsh Singh,	
	Dt.23.05.2017		appuSaha,	
			Saroj Kumar,	
			Dr. ShirdharKurse,	
			Puneeth. H.V,	
			Bopanna.K.D	
	Design and	India No.	Dr. Manjunatha	
	Development of	48/2018	Dr. M S Ganesha	
	Electric Powerless	Dt. 30/11/2018	Prasad Ronald R	

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	Refrigerator		Reagon	
	E-2/1423/2017-CHE		Arshad Ayub, Khaiser	Mechanic
2.	and Application No.		Ahmed Mohammed	al 2017
	201741018086		Sufiyan S	
	Dt.23.05.2017		Abdul Samadh M.N,	
			Lohith. N	
			Madhusudhan, Santhosh	
			Lokesh, Priyanka	
	Glass Cleaning	India No.	Sairam Dr. M. S.	Mechanic
	Automated Robot	48/2018	GaneshaPrasad	al Auto
3.	for High Rise	Dt. 30/11/2018	Dr. Manjunatha, Dr.	2017
	Building		ShirdharKurse,	
	Applications		Dr.BellieViswanath	
	E-2/1417/2017-CHE		Chetan Kumar. D.S,	
	and Application No.		Veeresha. G, Manjesh.	
	201741018080		B.C	
	Dt.23.05.2017			
	Mullite ceramic Coating	India No.	Dr. BellieViswanath	
	on cast aluminum	48/2018	Dr. Manjunatha,	
	pistons and cylinder	Dt. 30/11/2018	Dr. M S Ganesha Prasad,	Mechanical
4.	heads for IC Engine		Nagabhushana. N	2017
	applications		Ravikumar. M,	
	E-2/1420/2017-CHE		Nagendra	
	and Application No.		Srinath. M.K,	
	201741018083		Kemparaju	
	Dt.23.05.2017			
		IndiaNo	Dr. Manjunatha	
		48/2018Dt.	Dr. M S Ganesha Prasad	
	Combined Solar and	30/11/2018	Shivaprakash. S,	Mechanic
5.	Wind Energy Water		Francis Evans,	al 2017
	Pumping System		Kumar Ankit,	
	E-2/1419/2017-CHE		Deepti,	
	and Application No.		S. Vishanth,	
	201741018082		Hanamanth. Y	
	Dt.23.05.2017		Rajesh. A,	
			Kamalashish Deb	
	Design and Fabrication	India No.	Dr. Manjunatha,	
6.	of Solar Powered	48/2018Dt.	Dr. M S Ganesha Prasad,	Mechanic
	Bicycle	30/11/2018	Bopanna K.D,	al 2017
	E-2/1418/2017-CHE		Jebin Koshy Sabu,	
	and Application No.		DilshadDavood,	
	201741018081		ShabazZaheer,	
	Dt.23.05.2017		Joby James,	

			Ronald Regan, Raghu Tilak Reddy	
7.	Novel Method for Conversion of Waste Plastic into Fuel E- 2/1416/2017-CHE and Application No. 201741018079 Dt.23.05.2017	India No. 48/2018Dt. 30/11/2018	Dr. Manjunatha, Dr. M S Ganesha Prasad, Rakesh C Siddarth Dinesh, Mohnish Raj D, Markose, Sandeep Ramesh, Puneeth. H.V Karthik, Megha Shukla	Mechanic al 2017
3.	System and Method for Smart Sustainable and Expandable Helmet with IoT Capabilities E-2/1413/2017-CHE and Application No. 201741018076 Dt.23.05.2017	India No. 48/2018Dt. 30/11/2018	Dr. K. Gopalakrishnan Dr. Manjunatha, Dr. M.S. Ganesha Prasad,	Mechanic al 2017
).	System and Method for Exo Skeleton for Lower Limb E- 2/1414/2017-CHE and Application No. 201741018077 Dt.23.05.2017	India No. 48/2018Dt. 30/11/2018	Dr. Manjunatha, Dr. M S Ganesha Prasad, Rakesh C S.M.Danish, Shivam, Harish Kumar Yadav, Atinder Pal Singh, Puneeth. H.V, Bopanna.KD, Nagabhushana.N	Mechanic al 2017
0.	Multi Purpose Agricultural Robot E-2/1424/2017-CHE and Application No. 201741018087 Dt.23.05.2017	India No. 48/2018Dt. 30/11/2018	Dr. Manjunatha, Dr. M S Ganesha Prasad, Shivaprakash. S Chetan Kumar S, Tarihal Nandeesh P, Naveen M Vineet K Gokhale, Sujeeth	Mechanic al 2017
1.	Novel Arrangement of Apparatus, System and Method for evolving the Raja's Winning	India No. 11/2019 Dt. 15/03/2019	Dr. Kanapathy Gopalakrishnan Dr. Manjunatha	Mechanic al 2017

	Basketball Pentagon Model			
	E-2/2707/2017-CHE			
	and Application No.			
	201741032324			
	Dt.13.09.2017			
	Novel Method of		Dr. Manjunatha,	
	Carbon Dioxide	India	Dr. M S Ganesha	Mechanic
12.	Sequestration from	No. 11/2019	Prasad, Manjesh B C,	al 2017
	Exhaust Using Zeolites	Dt.	Raghuram Macharaja,	
	E-2/2726/2017-CHE	15/03/2019	Mohith Vijay,	
	and Application No.		Navdeep S,	
	201741032344		Rohit Srinivasan S,	
	Dt.13.09.2017		CharanNallode	
	Design of CNC Based		Dr. Manjunatha	
	Maintenance and	India	Dr. M S Ganesha	Mechanic
13.	Safety System for High	No. 11/2019	Prasad Rakesh C,	al 2017
	Rise Buildings	Dt.	Baldev Raj C	
	E-2/2725/2017-CHE	15/03/2019	Aakash Murthy,	
	and Application No.		Anwin TV Joseph,	
	201741032343		Jerry Sabore	
	Dt.13.09.2017			
	Development of Three		Dr. Manjunatha	
	Wheel Handicapped	India	Dr. M S Ganesha	Mechanic
14.	Steering Propulsion	No. 11/2019	Prasad Srinath	al 2017
	Cycle	Dt.	М.К,	
	E-2/2729/2017-CHE	15/03/2019	Mahesh S Praveen Kumar	
	and Application No.		H.M, Satish.M	
	201741032347			
	Dt.13.09.2017			
			Dr. Manjunatha,	
	GSM Controlled		Dr. M S Ganesha	
	Multi-Purpose	India	Prasad	
	Agricultural Robot	No. 11/2019	Shivaprakash S	Mechanic
15.	E-2/2731/2017-CHE	Dt.	Mohammed Sabir	al 2017
	and Application No.	15/03/2019	Chitwadgi Nurul	
	201741032347		Islam, Mohan	
	Dt.13.09.2017		Sharma Sandeep	
			Sharma	
	Fresnel Lens and		Dr. Manjunatha	
	Thermoelectric Module	India	Dr. M S Ganesha	Mechanic
16.	Aided Solar	No. 11/2019	Prasad Rakesh C,	al 2017
	Desalination Unit	Dt.	CharanNallode	

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	E-2/2732/2017-CHE	15/03/2019	Adhvaith M,	
	and Application No.		AH.Akshay	
	201741032350		krishna	
	Dt.13.09.2017			
	Novel Ergonomic	India	Dr. Manjunatha	
	Industrial Seating	No. 11/2019	Dr. M S Ganesha Prasad	Mechanic
17.	Support	Dt.	Puneeth H V,	al 2017
	E-2/2728/2017-CHE	15/03/2019	SachinPamadinni,	
	and Application No.		N Sreevathasa	
	201741032346		CharanNallode	
	Dt.13.09.2017			
	Design and		Dr. Manjunatha	
	Optimization of Lever	India	Dr. M S Ganesha Prasad	Mechanic
18.	Propelled All-Terrain	No. 11/2019	Ronald Reagon,	al 2017
	Wheel Chair	Dt.	Abhash Singh,	
	E-2/2724/2017-CHE	15/03/2019	Anuraj Joshi,	
	and Application No.		AbhinavAnand,	
	201741032342		CharanNallode	
	Dt.13.09.2017			
			Dr. Manjunatha	
	Automatic Drain	India	Dr. M S Ganesha	Mechanic
19.	Cleaning Machine	No. 11/2019	Prasad Ravikumar M,	al 2017
	E-2/2734/2017-CHE	Dt.	BrijKishor Yadav,	
	and Application No.	15/03/2019	Tariq Hussain	
	201741032350		Gaurishankar,	
	Dt.13.09.2017		Suresh V B	
			Dr. Manjunatha	
	Flexible Fixture for		Dr. M S Ganesha Prasad	
	Towing	India	Nagendra J,	Mechanic
20.	E-2/2730/2017-CHE	No. 11/2019	Parameshwar	al 2017
	and Application No.	Dt.	ChandanSah,	
	201741032348	15/03/2019	Dipak Tiwari	
	Dt.13.09.2017		Keshav Raj	
			Dr. Manjunatha	
	Pedal Powered	India	Dr. M S Ganesha Prasad	Mechanic
21.	Reciprocating Pump	No. 11/2019	Nagendra J,	al 2017
	E-2/2704/2017-CHE	Dt.	Bachu Ravi Tejaswar	
	and Application No.	15/03/2019	Reddy, Bharath N Likith	
	201741032321		S,	
	Dt.13.09.2017		Nagesh K M	

22.	Improved Lead Acid Battery E-2/2727/2017-CHE and Application No. 201741032345 Dt.13.09.2017	India No. 11/2019 Dt. 15/03/2019	Dr. Manjunatha Dr. M S Ganesha Prasad Bopanna, Aghil Babu Jefferey Joseph Stephen Joemine Gerald Joshy BhanuprakashSai	Mechanic al 2017
			ram	
23.	Novel Arrangement of Apparatus, System and Method for Experiential Learning System (ELS) and Method for Smart Coaching Team Game (MSCTG) E-2/2715/2017-CHE and Application No. 201741032332 Dt 13 09 2017	India No. 11/2019 Dt. 15/03/2019	Dr. Kanapathy Gopalakrishnan Dr. Manjunatha	Mechanic al 2017
	Novel Arrangement of		Dr. Kanapathy	
24.	Apparatus, System and Method for Evolving Winning Trilogy of Team Game (WTTG) E-2/2712/2017-CHE and Application No. 201741032329 Dt.13.09.2017	India No. 11/2019 Dt. 15/03/2019	Gopalakrishnan Dr. Manjunatha	Mechanic al 2017
25.	Novel Arrangement of Apparatus, System and Method for evaluating the major factors to be considered for the Basketball Winning Strategy (BWS) E-2/2714/2017-CHE and Application No. 201741032331 Dt.13.09.2017	India No. 11/2019 Dt. 15/03/2019	Dr. Kanapathy Gopalakrishnan Dr. Manjunatha	Mechanic al 2017

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	Novel Arrangement of			
26.	Apparatus, System and Method for evolving the Research Tool with Methodology and the Sequence of Study (RTMSS) E-2/2713/2017-CHE and Application No. 201741032330 Dt.13.09.2017	India No. 11/2019 Dt. 15/03/2019	Dr. Kanapathy Gopalakrishnan Dr. Manjunatha	Mechanic al 2017
27.	Novel Arrangement of Apparatus, System and Method for identifying effective tools and techniques for the Improvement of Performance of an Individual Player/Team (IPIPT) E-2/2710/2017-CHE and Application No. 201741032327 Dt.13.09.2017	India No. 11/2019 Dt. 15/03/2019	Dr. Kanapathy Gopalakrishnan Dr. Manjunatha	Mechanic al 2017
28.	Novel Arrangement of Apparatus, System and Method for developing Process Approach to Coaching Basketball (PACB) E-2/2708/2017-CHE and Application No. 201741032325 Dt.13.09.2017	India No. 11/2019 Dt. 15/03/2019	Dr. Kanapathy Gopalakrishnan Dr. Manjunatha	Mechanic al 2017
29.	Novel Arrangement of Apparatus, System and Method for developing the Winning Trilogy and Winning Metrics (WTWM) E-2/2703/2017-CHE and Application No. 201741032320	India No. 11/2019 Dt. 15/03/2019	Dr. Kanapathy Gopalakrishnan Dr. Manjunatha	Mechanic al 2017

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	Dt.13.09.2017			
30.	<ul> <li>Novel Arrangement of Apparatus,</li> <li>System and Method for developing the Raja's Taxonomy o Winning Strategies (RTWS)</li> <li>E-2/2721/2017-CHE and Application No. 201741032338</li> <li>Dt.13.09.2017</li> </ul>	t India I No. 11/2019 Dt. of 15/03/2019	Dr. Kanapathy Gopalakrishnan Dr. Manjunatha	Mechanic al 2017
31.	Novel Arrangement of Apparatus, System and Method for evolving Winning Competency Model (WCM) E-2/2705/2017-CHE and Application No. 201741032322 Dt.13.09.2017	India No. 11/2019 Dt. 15/03/2019	Dr. Kanapathy Gopalakrishnan Dr. Manjunatha	Mechanic al 2017
32.	Novel Arrangement of Apparatus, System and Method for evolving Model to Indentify the Parameters Influencing the Winning/Loosing (MIPIW/L) of any team game E-2/2706/2017-CHE and Application No. 201741032323 Dt.13.09.2017	India No. 11/2019 Dt. 15/03/2019	Dr. Kanapathy Gopalakrishnan Dr. Manjunatha	Mechanic al 2017
33.	Novel Arrangement of Apparatus, System and Method for ensuring Expected Cultural Change for	India No. 11/2019 Dt. 15/03/2019	Dr. Kanapathy Gopalakrishnan Dr. Manjunatha	Mechanic al 2017

	Better Team			
	Performance			
	(ECCBTP)			
	E-2/2702/2017-CHE			
	and Application No.			
	201741032319			
	Dt.13.09.2017			
	Novel Arrangement			
	of Apparatus, System	India	Dr. Kanapathy	Mechanic
34.	and Method for	No. 11/2019 Dt.	Gopalakrishnan	al 2017
-	Analyzing Cause and	15/03/2019	Dr. Maniunatha	
	Effect Diagram for			
	Better Performance			
	during the Play			
	(CAEDBP)			
	E-2/2701/2017-CHE			
	and Application No.			
	201741032318			
	Dt 13 09 2017			
	Novel Arrangement			
	of Apparatus.	India	Dr. Kanapathy	Mechanic
35.	System and Method	No. 11/2019 Dt.	Gopalakrishnan Dr.	al 2017
	for Analyzing Cause	15/03/2019	Maniunatha	
	and Effect Diagram			
	for Winning			
	Basketball			
	(CAEDWB)			
	E-2/2709/2017-CHE			
	and Application No.			
	201741032326			
	Dt.13.09.2017			
	Two In One Wheel	India		Mechanic
36.	Spanner Cum Jack	Dt.03.10.2017	Dr. Manjunatha	al 2017
	Handle			
	E-2/2924/2017-CHE			
	and Application No.			
	201741034915			
	Dt.03.10.2017			
	Straight Drive Signal	India	Dr. K. Goplakarishnan	Mechanic
37.	Indicator' for	Dt.03.10.2017	Dr. Manjunatha	al 2017
	Automobiles			
	E-2/2934/2017-CHE			
	and Application No.			
	11			

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	201741034936			
	Dt.03.10.2017			
	Firefighting with Low	India		Mechanic
38.	Cost CO2 Canister		Dr. Manjunatha	al 2017
	E-2/2928/2017-CHE			
	and Application No.			
	201741034919			
	Dt.03.10.2017			
	Improved			Mechanic
39.	Windscreen Wiper	India	Dr.	al 2017
	E-2/2920/2017-CHE		Manjunatha	
	and Application No.			
	201741034911			
	Dt.03.10.2017			
	Replacing External			
40.	Jack in Vehicles	India	Dr. Manjunatha	Mechanic
	with Built-in Pillar			al 2017
	Jacks E-			
	2/2915/2017-CHE			
	and Application No.			
	201741034905			
	Dt.03.10.2017			
41.	LED Panel to			Mechanic
	Replace Individual	India	Dr. Manjunatha	al 2017
	Tail Lamps in			
	Automobiles			
	E-2/2927/2017-CHE			
	and Application No.			
	201741034918			
	Dt.03.10.2017			
10	Retrigerator with	T., 11-	Dr. Manian (1	Mechanic
42.	w armer	India	Dr. Manjunatha	ai 2017
	E 2/2026/2017 CUE			
	E-2/2920/201/-CHE			
	2017/103/017			
	$\begin{array}{c} 2017 + 103 + 917 \\ Dt 03 10 2017 \end{array}$			
	New Column Roy			
	that will be Suitable	India		Mechanic
<u>⊿</u> 3	for Reinforced Walls	India	Dr Maniunatha	al 2017
-5.	Integrated with			ui 2017
	Columns			
	E-2/2925/2017-CHF			
			1	

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	and Application No.			
	201741034916			
	Dt.03.10.2017			
	Bubble Jet Bottle Cap	India		Mechanic
44.	Opener			al 2017
	E-2/2922/2017-CHE		Dr. Manjunatha	
	and Application No.			
	201741034913			
	Dt.03.10.2017			
	A Collapsible Bubble			Mechanic
45.	Jet Bottle	India		al 2017
	E-2/2914/2017-CHE		Dr. Manjunatha	
	and Application No.			
	201741034904			
	Dt.03.10.2017			
1.6	Multiple Choices	<b>T</b> 1'		Mechanic
46.	Pillow with	India		al 2017
	Adjustable Height		Dr. Manjunatha	
	E-2/2932/2017-CHE			
	and Application No.			
	201741054954 Dt 03 10 2017			
	A Hand Tool with			Mechanic
<i>4</i> 7	Detachable	India		al 2017
ч/.	Grining/Serrated Jaw	mana	Dr Maniunatha	ui 2017
	E-2/2918/2017-CHE		Di. Manjunana	
	and Application No.			
	201741034908			
	Dt.03.10.2017			
	Novel Fool Proof			
	Flow Indicator with			Mechanic
48.	No Rotating Parts	India	Dr. Manjunatha	al 2017
	such as Blades or			
	Wanes			
	E-2/2921/2017-CHE			
	and Application No.			
	201741034912			
	Dt.03.10.2017			
	Novel Arrangement			
	of Apparatus, System			
	and Method of		Dr. K. Gopalakrishnan	Mechanic
49.	Process Approach	India		al 2017
	Learning Model			
	(PALM) for Overall			
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	Development of			
	Students at			
	Engineering			
	Educational			
	Institutions (EEIs)			
	Using an Efficient			
	Cloud Platform			
	E-2/2910/2017-CHE			
	and Application No.			
	201741034900			
	Dt.03.10.2017			
	Novel Arrangement			
	of Apparatus,			
	System and Method		Dr. K. Gopalakrishnan	Mechanic
50.	of Institutional	India	1	al 2017
	Transformation for			
	Excellence in			
	Corporate Education			
	(ITECE) Model for			
	Engineering			
	Educational			
	Institutions (EEIs)			
	Using an Efficient			
	Cloud Platform			
	E-2/2911/2017-CHE			
	and Application No.			
	201741034901			
	Dt.03.10.2017			
	Novel Arrangement			
	of Apparatus, System		Dr. K. Gopalakrishnan	Mechanic
51.	and Method of	India		al 2017
	Learning Network			
	Growth Model for			
	Engineering			
	Educational			
	Institutions (EEIs)			
	Using an Efficient			
	Cloud Platform			
	E-2/2912/2017-CHE			
	and Application No.			
	201741034902			
	Dt.03.10.2017			

	Novel Arrangement			
	of Apparatus, System			
	and Method for		Dr. K. Gopalakrishnan	Mechanic
52.	Enhancing the	India	-	al 2017
	Competitiveness of			
	Institute-Industry-			
	Collaboration (IIC) at			
	Engineering			
	Educational			
	Institutions (EEIs)			
	Using an Efficient			
	Cloud Platform			
	E-2/2913/2017-CHE			
	and Application No.			
	201741034903			
	Dt.03.10.2017			
	Novel System,			
	Arrangement of	India	Dr. Kanapathy	Mechanic
53.	Apparatus, Method	No. 21/2019 Dt.	Gopalakrishnan	al 2017
	and Metrics for	24/05/2019		
	Evaluating the R&D			
	Performance of an			
	Individual			
	Continuously at			
	Higher Educational			
	Institutions (HEIs)			
	E-2/3501/2017-CHE			
	and Application No.			
	201741041149			
	Dt.17.11.2017			
	Novel System,			
	Arrangement of			Mechanic
	Apparatus, Method	India	Dr. Kanapathy	al
54.	and Metrics for	No. 21/2019 Dt.	Gopalakrishnan	2017
	Evaluating the	24/05/2019		
	Progress of Academic			
	Research (PhD/MS			
	Thesis) Work as per			
	the Calendar of an			
	Individual Research			
	Scholar,			
	Continuously at			
	Higher Educational			

# SELF ASSESSMENT REPORT 2019-20

	Institutions (HEIs)			
	E-2/3497/2017-CHE			
	and Application No.			
	201741041145			
	Dt.17.11.2017			
	Novel System and			
	Method of Expanding		Dr. K. Goplakarishnan	Mechanic
55.	Self-powered Multi-	India		al 2017
	purpose Auditorium			
	on Low Bed Trailer			
	E-2/3622/2017-CHE			
	and Application No.			
	201741041983			
	Dt.23.11.2017			
	Novel System and		Dr. Kanapathy	Mechanic
56.	Method of Multi-	India	Gopalakrishnan	al R&D
	purpose Loader on		Dr. L.V. Muralikrishna	2017
	Wheels		Reddy	
	E-2/3629/2017-CHE			
	and Application No.			
	201741041990			
	Dt.23.11.2017			
	Novel System and		Dr. Kanapathy	Mechanic
57.	Method of Multi-	India	Gopalakrishnan	al 2017
	purpose Elevator on			
	Wheels			
	E-2/3631/2017-CHE			
	and Application No.			
	201741041992			
	Dt.23.11.2017			
	Novel System and			
	Method of Self-		Dr. K. Goplakarishnan	Mechanic
58.	Breathable Improved	India		al 2017
	Anti- Snoring Strap			
	E-2/3623/2017-CHE			
	and Application No.			
	201741041984			
	Dt.23.11.2017			
	Novel System,		Dr. K. Goplakarishnan	
	Method and		Dr. M.S. Ganesha Prasad	Mechanic
59.	Arrangement of	India		al 2017
	Improved Anti-			

# SELF ASSESSMENT REPORT 2019-20

	E-2/3630/2017-CHE			
	and Application No.			
	201741041991			
	Dt.23.11.2017			
	Novel System,	India No.		
	Design and Method	33/2019Dt.16/08/2		Mechanic
60.	of Hybrid Solar	019	Mr. Nagabhushana. N	al 2018
	Water Heating			
	System			
	E-2/450/2018-CHE			
	and Application No.			
	201841005151			
	Dt.12.02.2018			
	Novel System and	India No.	Dr. M S	
	Method of	33/2019Dt.16/08/2	GaneshaPrasad	
	Fabrication of Small	019	Mr. Ravi Kumar	
	Scale Sugarcane		Μ	Mechanic
61.	Harvesting Machine		Mr. Kishore K Reddy Mr.	al 2018
	E-2/451/2018-CHE		Narayana Swamy Mr.	
	and Application No.		Sagar M H	
	201841005152		Mr. Siddaling	
	Dt.12.02.2018			
	Novel System,	India No.	Mr. Rakesh C Mr.	
	Design and Method	33/2019Dt.16/08/2	Abhijith N	
	of Vertical Stack	019	Mr. Harshavardhan V S	Mechanic
62.	Exhaust System to		Mr. Nagesha N	al 2018
	Control Direct		Mr. Sharanakumar	
	Emission			
	E-2/452/2018-CHE			
	and Application No.			
	201841005153			
	Dt.12.02.2018			
	Novel System,	India No.	Mr. Ronald Reagon R Mr.	
	Design and Method	33/2019Dt.16/08/2	VenkatSujith Krishna Mr.	
	of Design and	019	Reddy Mohan Posa Mr.	Mechanic
63.	Development of		Vinaya Prasad M.V	al 2018
	Power Generating		Mr. V.Avinash	
	Revolving Door			
	E-2/453/2018-CHE			
	and Application No.			
	201841005154			
	Dt.12.02.2018			

	Novel System,	India No.	Mr. Ravi Kumar M Mr.	
	Design and Method	33/2019Dt.16/08/2	Tejas.K.M	
	of Design and	019	Mr. Sharif.M.Nadaf	Mechanic
64.	Development of		Mr.	al 2018
	Smart Wheel to Two		howdeshwar.B	
	Wheeler for		Mr.	
	Physically		Pramoda.G.K	
	Challenged.			
	E-2/454/2018-CHE			
	and Application No.			
	201841005155			
	Dt.12.02.2018			
	Novel System,	India No.	Dr. M S Ganesha Prasad	
	Design and Method	33/2019Dt.16/08/2	Mr. Suhaas.P	
	of Water Injection for	019	Mr. Akshay.K.S Mr.	Mechanic
65.	Two Wheeler		RijinPavithran	al 2018
	Engines.		Mr. ChinnaThambi.M	
	E-2/456/2018-CHE			
	and Application No.			
	201841005157			
	Dt.12.02.2018			
	Novel System, Design	India No.	Dr. M S Ganesha Prasad	
	and Method of Design	33/2019Dt.16/08/2	Mr. Srinath M k	
	and Development of	019	Mr. Manoj R	
	Gearless Power		Mr. Kantharaj N	Mechanic
66.	Transmission Using		Mr. Praveen umarA	al 2018
	Scotch Yoke		Mr. Karhik L	
	Mechanism.			
	E-2/457/2018-CHE			
	and Application No.			
	201841005158			
	Dt.12.02.2018			
	Novel System, Design	India No.	Dr. M S Ganesha Prasad	
	and Method of Design	33/2019Dt.16/08/2	Mr. Ravi Kumar M	
	and Development of	019	Mr. Mandeep Singh Mr.	
	Bladeless Vertical		Aditya Kumar Gupta	Mechanic
67.	Wind Mill		Mr. Sumit Kumar	al 2018
	E-2/458/2018-CHE		Mr. Amir Sohil	
	and Application No.			
	201841005159			
	Dt.12.02.2018			
	Novel System, Method	India 42/2019	Mr. Ravi Kumar M Mr.	
	and Design and	Dt 18/10/2019	Aneesh Gopal Mr.	Mechanic

"	2019-20	

	Fabrication of Manual		Krishna Maruthi Mr.	al Auto
68.	and Automated System		Naga Chowdary	018
	for Hydroponic		Mr. Umakanth B S	
	FodderE-2/1141/2018-			
	CHE and Application			
	No. 201841013785 Dt			
	11.04.2018			
	Novel System, Method	India 42/2019	Mr. Ronald Reagon R Mr.	
	of Design and	Dt 18/10/2019	Karthigayan R M Mr.	
	Development of Eco-		Mahiboobu	Mechanic
69.	Friendly Refrigeration		Mr. ManjunathYelde	al 2018
	System.		Mr. Manoj	
	E-2/1142/2018-			
	CHE and			
	Application No.			
	201841013786 Dt			
	11.04.2018			
	A Study on Power	India 42/2019	Mr. Rakesh C	
	Generation from Fluid	Dt 18/10/2019	Mr. Abhishek V Reddy	Mechanic
70.	Flowing Through		Mr. Anuj M Thomas, Mr.	al 2018
	Pipes.		Arun R Mr. Hafiz Kassim	
	E-2/1143/2018-			
	CHE			
	andApplication No.			
	201841013787 Dt			
	11.04.2018			
	Nove System, Method	India 08/2020		
	and Design of	Dt 21/02/2020	Dr. M S Ganesha Prasad	Mechanic
71.	Compressed ir		Ravi Kumar M	al 2018
	Generation from			
	Suspension of			
	Automobiles for			
	Pneumatic			
	Applications			
	E-2/2463/2018-CHE			
	and Application No.			
	201841030652			
	Dt 16.08.2018			
	Novel System, Method	India 08/2020	Rakesh C Aditya Pradhan	
	and Design and	Dt 21/02/2020	Sumit Kumar	Mechanic
72.	Optimization of Blades		Ansuman Dalai	al 2018
	for Solar Grass Cutter			
	E-2/2464/2018-			

	CHE and			
	Application No.			
	201841030653 Dt			
	16.08.2018			
	Novel System, Method	India 08/2020	Ravi Kumar Md.	
	and Design and	Dt 21/02/2020	AsadullaShariff	Mechanic
73.	Development of		Akshay Kumar Rathor	al 2018
	Magnetic Elevator.E-		AbhayPratap Singh	
	2/2465/2018-CHE and			
	Application No.			
	201841030654 Dt			
	16.08.2018			
	Novel System and		Ronald Reagon R	
	Method of Design and	India	Dhanush H N Kaushik K	Mechanic
	Fabrication of Solar		Ν	al
74.	Dryer withVapor		Maharaj S B	2019
	Absorption		Mani Kumar R	
	Refrigeration			
	E-2/3823/2019-			
	CHE and			
	Application			
	No.201941048773			
	Dt 28/11/2019			
	A Handkerchief To		Dr. M.S. Ganesha Prasad	Mechanical
75.	Fight Against Viral	India		2020
	Infections and a			
	Method of Fabricating			
	the Handkerchief			
	Application No.			
	202041017169 Dt			
	21/04/2020			

## Table 5.8.1.8 Ph.D guided during the assessment periods while working in the institute.

SI. No	Facult y Name	Stude nt Name	Research Area	Research Title	Year of Regis trati	Unive rsity Name	Year of Compl etion
					on		
				Studies on the surface			
			Mechanical	modification of Al-			
	Dr. M S		Engineering	7075plates using wear			
	Ganesha	Srinath	Science	augmenting metals	2012	VTU	2019
1	Prasad	M K		through numerical &			

				experimental			
				techniques			
	Dr. M S		Mechanical	Studies on			
	Ganesha		Engineering	Process			
	Prasad	Nagendr	Science	Parameter			
2		a J		Optimization for	2012	VTU	2019
				augmenting the			
				strength of RP			
				components			
				Studies on Process			
			Mechanical	optimization of solid			
	Dr. M S		Engineering	state welding of			
	Ganesha	Prashant	Science	Aluminum 7075 and			
	Prasad	SH		steel SS316L material			
3				with different	2011	VTU	2019
				preheating condition			
			Mechanical	Numerical study of			
	Dr.Manjun	Amith	Engineering	turbulent flow over a			
4	atha	kumar	Science	bluff body using			
		Goudar		hybrid LES/RANS	2010	VTU	2020
				and PANS			

Sl.	Faculty	Guide	Research	<b>Research Title</b>	Year	Unive	Year
No	Name	Name	Area		of	rsity	of
					Regis	Name	Compl
					tratio		etion
					n		
				Studies on the surface			
			Mechanical	modification of Al-			
		Dr. M S	Engineering	7075plates using wear			
01	Srinath M	Ganesh	Science	augmenting metals			
	K	a		through numerical &	2012		
		Prasad		experimental		VTU	2019
				techniques			
			Mechanical	Studies on Process			
		Dr. M S	Engineering	Parameter			
02	Nagendra	Ganesh	Science	Optimization for			
	J	a		augmenting the			
		Prasad		strength of RP	201	VTU	2019
				components	2		

## **5.8.2 Sponsored Research**

Funded research from outside: (Provide a list with Project Title, Funding Agency, Amount and Duration) Funding Amount (Cumulative for Assessment years): Amount > 50 Lacs - 20 Marks, Amount > 40 and < 50 Lacs -15 Marks, Amount >30 and < 40 Lacs -10 Marks, Amount > 15 and < 30 Lacs- 5 Marks, Amount< 15 Lacs – 0 Marks Cumulative amount =(X+Y+Z)

If cumulative amount > 50 lacs, 20 and accordingly as mentioned above

Project Title	Name Of The	Duration	Funding	Amount(In
	Guide/Student		Agency	Rupees)
Design And Fabrication Of	Mr. Vinod Kumar G	3 Months	KSCST	8000.00
Human Exoskeleton To	S			
Achieve Ease During	Mr. Vijay Surya V			
Movement				
To Design And Fabricate A	Prof. Kamalashish	3 Months	KSCST	7000.00
Machine To Clean The Slope	Deb			
Surfaces In Step Farming	Mr. Himalaya			
With Proper Finish.	Bhatta			
Design And Fabrication Of	Prof. Vinay D R	3 Months	KSCST	7000.00
Solar Powered Floating	Mr. Bishak Nath			
Waste Collector				
Insulin Storage Freezer	Prof. Ronald	3 Months	KSCST	6000.00
Using Thermoelectric	Reagon			
Devices And Water Cooling	Mr. Avinash			
	Vishwakarma			
Effect Of Heat Treatment On	Mr. Karthik S.N	3 Months	KSCST	6000.00
Mechanical Properties Of	Mr. Dilip Kumar T			
Cu30ni5zn (Copper, Nickel				
(30%) And Zinc (5%) Alloys				
Design And Fabrication Of	Prof.	3 Months	KSCST	6500.00
Multipurpose Machine For	Pavan.P.Kadole			
Agricultural Purpose	Mr. Sure Srinivasulu			
Design And Fabrication Of	Mr. Hanamath Y	3 Months	KSCST	6000.00
Automatic Vacuum Operated	Mr. Keerthisagar S			
Chalk Dust Collector.	Reddy			
Fabrication Of 3 Axis	Prof. Raghu Tilak	3 Months	KSCST	6000.00
Pneumatic Trailer Lift	Reddy M.			
	Mr. Mohammed			

## Table 5.8.2.1 Sponsored Research 2018-19 (CAYm1)

<b>r</b>	2019-20	

	Riyaz			
Design And Fabrication Of	Prof. Chetan Kumar	3 Months	KSCST	5000.00
Sepration Of Waste Garbage	D.S.			
Using Smart Crusher	Mr. Navnath			
Hybrid Solar Windmill	Mr. Manjesh	3 Months	KSCST	6000.00
	Mr. John Paul Raj S			
Fabrication Of Automatic	Prof. Veeresha G.	3 Months	KSCST	7000.00
Sewage Cleaning Machine	Mr. Tejas M.			
Design, Analysis And Rapid	Mr. Puneeth H V	3 Months	KSCST	5500.00
Prototyping Of	Mr. Rohith			
Instrumentation Probe For	Chandrasekar			
Aero Engine Application				
Design And Utilization Of	Prof. Bopanna K D	3 Months	KSCST	6000.00
Solar Induced Convective	Mr. Abhay A Pai			
Flow For Power Generation				
Using Solar Updraft Tower				
Development Of "Single Card	Dr. Kanapathy	2.5 Years	Itca,	500000.00
Satellite-Bus (Sics-B)": 10	Gopalakrishnan		Unisec	
Cm X10 Cm (Timeline: 30			India,	
Months). Indo-Israel Joint			Drl, Tsc	
Development(Mech: Design			P Ltd	
And Development Of Satellite				
Monolithic Structure,				
Machining, Orbital				
Mechanics-Calculation-				
Simulation)				
Design And Development Of	Dr. Kanapathy	2 Years	Itca	500000.00
Cubesat 2u: Adsb Including	Gopalakrishnan	2 10015	Unisec.	20000000
Launch Cost: Indo-Israel Joint	C of manifestion		Drl. Tsc	
Development Under Unisec			P Ltd	
India.(Mech: Design And				
Development Of Satellite				
Monolithic Structure,				
Machining, Orbital				
Mechanics-Calculation-				
Simulation				
				Total
				Amount(X):
				1082000.00

Project Title	Name Of The	Duration	Funding	Amount(In
	Guide/Student		Agency	Rupees)
Agumenting The Life Of	Dr. M.S. Ganesha	3 Months	KSCST	6000.00
Polymer Material Used In 3d	Prasad			
Printers By Using	Mr. Samrat Banerjee			
Reinforced Polymer Material				
In Fdm Technology				
Smart Conveyance For	Prof. Nagendra	3 Months	KSCST	6000.00
Physically Challenged People	Jayaram			
	Mr. Sudharshan T S			
Design And Fabrication Of	Prof. Bopanna K D	3 Months	KSCST	7000.00
An Artificial Leg Mechanism	Mr. Ganesh Kumar			
For Above Knee Amputees	С			
Design And Fabrication Of	Mr. Sujeeth Swami	3 Months	KSCST	7000.00
Portable Solar Operated	Mr. H. Hitesh			
Water Purification Unit				
Design And Fabrication Of A	Prof. Vinayak B	3 Months	KSCST	7000.00
Tadpole Model Solar	Mr. Dijin Mathew			
Powered Tricycle	5			
Design And Development Of	Prof. Vinod Kumar	3 Months	KSCST	6000.00
Human Arm Exoskeleton	GS			
	Mr. Raman Sharma			
Experimental Study Of	Dr. M S Ganesh	3 Months	KSCST	11000.00
Acetylene And Alcohol As	Prasad			
An Alternative Fuel For	Mr. Zaki Amer			
Gasoline Engine				
A Comparative Study Of The	Mr. Kamalasish Deb	3 Months	KSCST	7000.00
Properties And Effects Of	Mr. Amar Kumar			
Different Blends Of	Bhatt			
Biodiesel On Crankcase				
Lubricant And Perform				
Exhaust Gas Analysis For				
The Same				
Design And Fabrication Of	Prof. Lakshmana	3 Months	KSCST	11000.00
Machine To Convert Plastic	Naik			
Into Oil And Gaseous Fuel	Mr. Sital Kumar Sah			
Production				
Improvisation On Physical	Mr.	3 Months	KSCST	5000.00
And Combustion Properties	Lakshminarasimha			
Of Fuel Briquette From	N			
Pongamia And Glycerin	Mr. Arjun Yadav			
Mining Different Divident	5			

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<b>r</b>	2019-20
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Multipurpose Compact Solar	Dr. M S Ganesh	3 Years	Aicte	1326853.00
Fruit Dryer	Prasad			
Design Of Structure For	Dr. Kanapathy	6 Months	Tsc	375000.00
Pocketqube Satellite: Testing	Gopalakrishnan		Technol	
And Validation			ogies P	
4 Variants			Ltd	
Design And Development Of	Dr. Kanapathy	6 Months	Tsc	350000.00
Cansat/Rocketry	Gopalakrishnan		Technol	
4 Variants-Prototype			ogies P	
			Ltd	
Unitysat/Slimsat 0.33u	Dr. Kanapathy	2 Years	Itca,	300000.00
Satellite (Engineering Model	Gopalakrishnan		Unisec	
Prototype For Qualification			India, Tsc	
Testing & Flight Model) X 3			P Ltd,	
=1u With Deployer For Itca			Cspd,	
Consortium/Cspd Serbia And			Serbia	
Unisec India: (Mech: Design				
And Development Of Satellite				
Monolithic Structure,				
Machining, Orbital				
Mechanics-Calculation-				
Simulation)				
,				
Design And Development Of	Dr. Kanapathy	2 Years	Itca,	400000.00
Cubesat 2u; Adsb Including	Gopalakrishnan		Unisec,	
Launch Cost; Indo-Israel Joint			Drl, Tsc	
Development Under Unisec			P Ltd	
India.(Mech: Design And				
Development Of Satellite				
Monolithic Structure,				
Machining, Orbital				
Mechanics-Calculation-				
Simulation)				
				Total
				Amount(Y):
				2824853.00

Project Title Name Of The		Duration	Funding	Amount(In
	Guide/Student		Agency	Rupees)
Design And Optimization Of	Dr. M S Ganesha	3 Months	KSCST	5000.00
Water Tanker For Reducing	Prasad, Prof. Trupti			
The Spillage Under Dynamic	P Wani			
Conditions	Mr. Gowtham N A			
Portable Water Turbine	Prof. Kadole Pavan	3 Months	KSCST	5000.00
	Prabhakar			
	Mr. Rakhesh H S			
Carbon - Di - Oxide Powered	Prof. Sujeeth Swami	3 Months	KSCST	5000.00
Solar Desalination Unit	Mr. Nithin			
	Berchmans			
Improvisation Of Solar	Prof. Ronald	3 Months	KSCST	6000.00
Portable All Terrain	Reagon R			
Wheelchair With Crank And	Mr. A Ramesh			
Shaft Mechanism				
Hardness And Wear Analysis	Prof. Srinath M K,	3 Months	KSCST	4000.00
Of Dlc Coated Alalloy Plates	Dr. M S Ganesha			
With And Without Heat	Prasad			
Treatment	Mr. Aswin A Kurup			
Enhancing The Life Of	Mr. Bopanna K D	3 Months	KSCST	4000.00
Portable Battery Using Fin	Mr. K			
Structure	Bhanuprakash			
	Sairam			
Design Of Expandable Motion	Dr. Kanapathy	9 Months	7dplus	925000.00
Simulator On Wheels	Gopalakrishnan		Network	
			Company	
Design Of Cubesat	Dr. Kanapathy	6 Months	Tsc	150000.00
Deployment Parachute And	Gopalakrishnan		Technolo	
Testing			gies	
			P Ltd,	
			Cspd-	
			Serbia	
				Total
				Amount(Z):
				1104000.00

 Table 5.8.2.3 Sponsored Research 2016-17 (CAYm3)

**Cumulative Amount**(**X** + **Y** + **Z**) = **5010853.00** 

## 5.8.3 Development activities

- Product Development
- Research laboratories
- Instructional materials
- Working models/charts/monograms etc.

Name of the	Name of the Product	Description
Faculty/Students		
	Shell Eco-Marathon	Shell eco marathon - an
	Electric Car	international level competition
		where student teams around
		the world get hands-on experience
Mr. Naresh K S		in acheving ultra-energy-efficient
Sudarshan R, Pranav		vehicles. Around the world, this
R, Ashish Joshi, Vishal	l	program inspires thousands of
Somaiah, Ahash V,		students to work collaboratively to
Hani Tarak ram		put their theories of energy-
Harirm, Monish Babu	- Statistic	efficiency to the test, using cutting-
		edge technology, critical thinking,
		and innovative ideas. The name
		given to this is "Team Akruth"

Table	5.8.3.2	Product	Developmen	t 2017-18

Name of the	Name of the Product	Description
Faculty/Students		
Ma Noach V	Formula Kart-Go Kart	Horizon-TAL will basically sell
wir. Naresn K	> 1	frames and go-karts. The frame of
Mohammed Irfan,		the go-kart will be designed once
Yaseer Arafat,	0	the order is received. The frame of
Likith,	a second	the go-kart is the skeleton and will
Naveen Kumar,		determine the overall size and
Mahesh K R,	- 20 2	shape. So, the frame will be
Hariprasad J,	1	designed in an effective manner
Sandeep, Ajay Kumar,		and will be manufactured in the
Prakash N R, Sanjay		company itself with the usage of
H V, Pradhyumma		advanced technologies. This will be
Kosaraju		followed by the assembly of
		various parts of the kart which will
		be out-sourced. Horizon-TAL will
		be able to offer go-karts with a
		compact sized frame and greater
		on-road stability.

VRT	2019-20	

SI.			Year	
No.	Title of the Project	Name of the	Course/	Guide Name with
		Student	Branch	Designation
	Design and			Dr. M S Ganesha Prasad,
	Development			Dean, Professor and
1	onconversion of LDPE	Mr. Akilesh		HoD
	(Lowdensity			– ME
	polyethylene) plastic			
	waste into liquid fuelby			
	sequential pyrolysis			
	technique			
	Design and fabrication			Prof. Pawan P K, Asst.
2	of multipurpose	Mr. Sure	2019-2020	Professor
	machine for agricultural	Srinivasulu		
	purpose			
3	Fabrication of 3 axis			Prof. Raghu Tilak
	Pneumatic trailer lift	Mr. Mohammed		Reddy, Asst. Professor
		Riyaz		
	Minimal powered			Dr. M S Ganesha Prasad,
4	pneumatic tube based	Mr. Amaresh		Dean, Professor and
	bending machine for	Sateesh		HoD
	coolant pipe and green			- ME
	house radiator			
	Design and			Prof. Naresh K S, Asst.
5	Fabrication of	Mr. Pranish		Professor.
	Incinerator for house			
	hold plastic waste			

## Table 5.8.3.3 Innovative Projects for the academic year 2019-2020.

Table 5.8.3.4	Innovative	<b>Projects fo</b>	or the academic	year 2018-2019.
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SI. No.	Title of the Project	Name of the Student	Year Course/ Branch	Guide Name with Designation	
1	Design and Fabrication of Separation of waste garbage using smart crusher	Mr. Navnath		Prof. Chetan Kumar D S Asst. Professor	
2	Design and Fabrication of Solar powered floating waste collector Hybrid solar windmill	Mr. Bishal Nath Mr. John Paul	2018-2019	Prof. Vinay D R, Asst. Professor Prof. Maniesh B C, Sr.	
3				Asst. Professor &	

			Alumni Officer
	Design, Analysis and		
4	Rapid prototyping of	Mr. Rohith	Prof. Puneeth H V, Asst.
	Instrumentation probe	Chandrashekar	Professor
	for aero engine		
	application		
	Design and Utilization		
5	of solar induced	Mr. Abhay A Pai	Prof. Bopanna K D, Asst.
	Convective flow for		Professor.
	power generation using		
	solar updraft tower		

## Table 5.8.3.5 Innovative Projects for the academic year 2017-2018

SI.	Title of the Project	Name of the	Year	Guide Name with
No.		Student	Course/	Designation
			Branch	
	Augmenting the life of			Dr. M S Ganesha
	polymer			
1	material used in 3D	Mr. Samrat		Prasad, Dean,
	Printersby using	Banerjee		Professor and HoD –
	Reinforced polymer			
	material in FDM			ME
	Technology			
	Smart Conveyance for		-	Prof. Nagandra Jayram,
2	Physically challenged	Mr. Sudarshan		Sr. Asst.
	people	T S		Professor
			2017-2018	
	Design and Fabrication of			Prof. Bopanna K D,
3	an artificial leg	Mr. Ganesh		Asst. Professor (2)
	mechanism for above	Kumar C		
	knee amputees			
	Experimental Study of			Dr. M S Ganesha
4	Acetylene and Alcohol as	Mr. Zaki amer		Prasad, Dean,
	analternative fuel for			Professor and HoD –ME
	gasoline			
	engine			
5	Design and Development	Mr. Raman		Prof. Vinod Kumar G S,
	of Human arm	Sharma		Asst. Professor
	Exoskeleton			

## 5.8.3.6 Research laboratories



IIOT Lab



SAP Lab



Cap Gemini Lab



Advance Manufacturing Lab

#### 5.8.3.7 Research and Development Laboratory:

The Mechanical Engineering is a key player in the research and one of the most needed globalized industries.

The demand for hardware development and commercialization of the product is expected to reach its peak.

In order to promote a vibrant and sustainable environment for R&D laboratory, domains are identified as the respective

Divisions under this Group listed below.

Divisions under R&D:

- Machine Learning
- Artificial Intelligence
- Internet of Things
- Thermal Analysis
- Solar Energy Utilization

The main objectives of Research Laboratories are

- To organize workshops on the use and application of various types of software for students, faculties.
- To provide facilities of software to faculties and students to enable them to carry out for R & D work.

Table 5.8.3.8 Software Facilities Research and Development Laborato	ry
---	----

Name of Software	Description	Licensed
CATIA	Version 5-6 R2018	Licensed
SAP	Version 7.50	Licensed
ENOVIA	Version-3D	Licensed
	Experience R2019	
ANSYS	Version 14	Licensed
MAT LAB	Version R2014	Open Source

Table 5.8.3.9	Hardware	Facilities	<b>Research</b> a	and Develo	opment I	Laboratory
					· r	

Domain	Hardware Description
RAPID	<u>3D PRINTER(FDM)</u>
PROTOTYPING	Supplier-IMEC Technologies

Effeciency Of Photo Voltaic Cells
System Description – 25.01kwpk Off-Grid Roof- Top
Solar Power Plant
Pv Modules
Solar Power Conditioning Unit Battery Bank &
Rack Distribution Box
EFFECIENCY OF WIND TURBINE
WINDMILL VET MAKE HORIZONTAL- 3 Nos FRP blades,
PM Alternator, Swivelling arrangement and Passive Tail
Vane complete set.
TOWER- Lattice tubular tower 5 mtrs height
WINDMILL CHARGE CONTROLLER charge controller
with display of DC parameters like V, I, W & kwh.
FRAMES Base frame for windmill tower

# Table 5.8.3.10 Instructional Materials by Faculty members

SI.	Name of the	Instructional Materials	Weblink
No	Faculty		
		19MEL462	http://newhorizonindia.edu/nhengin
1	Mr.Ravi	Fluid Mechanics Manual	eering/fluid- mechanics-lab-
	Kumar M		experiment/
		19MEL351	http://newhorizonindia.edu/nhengineer
2	Dr.Srinath M.K	Mechanics of Materials	ing/mom-lab-
		Manual	experiment/
		19MEL452	http://newhorizonindia.edu/nhengineeri
	Mr.Puneeth	Mechanical Measurements &	ng/metrology- lab-
3	H.V	Metrology Manual	experiment/
		19MEL442	
		Machines for	http://newhorizonindia.edu/nhengineer
		Manufacturing	ing/machine- shop-lab/
	Dr.Srinath M.K	Technology Lab	
4		Manual	
		19MEL341	http://newhorizonindia.edu/nhenginee
	Mr.Raghu Tilak	Casting And Foundry	ring/foundry-lab-videos/
5	Reddy	Technology Manual	

-			
		MEE62	http://newhorizonindia.eduhengineerin
6	Mr.Pavan K	Finite Element Methods Lab	g/cama-lab- experiment/
		Manual	
7	Mr.Pavan K	NHOP15 PLM	http://newhorizonindia.edu/nhenginee
		Manual	ring/plm-lab-
			experiment/

## Table 5.8.3.11 List of instructional materials developed by faculty members

S.	Name of the	Instructional	Weblink
No	Faculty	Materials	
1	Dr. Manjunatha	E-Notes, PPT's,	http://202.62.95.70:8080/jspui/handle/1234
		Videos	56789/352
2	Dr. Ganesh Prasad	E-Notes, PPT's,	http://202.62.95.70:8080/jspui/handle/1234
	M S	Videos	56789/352
3	Dr. opalaKrishnan	E-Notes, PPT's,	http://202.62.95.70:8080/jspui/handle/1234
	Kanapathy	Videos	56789/352
4	Dr. Viswanath	E-Notes, PPT's,	http://202.62.95.70:8080/jspui/handle/1234
	Bellie	Videos	56789/352
5	Dr. Priyabrata	E-Notes, PPT's,	http://202.62.95.70:8080/jspui/handle/1234
	Adhikary	Videos	56789/352
6	Dr.Vasantha	E-Notes, PPT's,	http://202.62.95.70:8080/jspui/handle/1234
	Kumar	Videos	56789/352
7	Dr. Amit Kumar	E-Notes, PPT's,	http://202.62.95.70:8080/jspui/handle/1234
	Goudar	Videos	56789/352
8	Dr. Srinath M K	E-Notes, PPT's,	http://202.62.95.70:8080/jspui/handle/1234
		Videos	56789/352
9	Dr. Nagendra J	E-Notes, PPT's,	http://202.62.95.70:8080/jspui/handle/1234
		Videos	56789/352
10	Dr. Manjunatha G	E-Notes, PPT's,	http://202.62.95.70:8080/jspui/handle/123456789
		Videos	/352
11	Dr. Ashok Kumar	E-Notes, PPT's,	http://202.62.95.70:8080/jspui/handle/123456789
		Videos	/352
12	Dr. Sujin Jose	E-Notes, PPT's,	http://202.62.95.70:8080/jspui/handle/123456789
		Videos	/352
13	Dr. Gopal K	E-Notes, PPT's,	http://202.62.95.70:8080/jspui/handle/123456789
		Videos	/352

14	Dr.Venugopal S	E-Notes, PPT's, Videos	http://202.62.95.70:8080/jspui/handle/123456789 /352
15	Dr.Selvam M	E-Notes, PPT's, Videos	http://202.62.95.70:8080/jspui/handle/123456789 /352
16	Dr.Hemanth Raju	E-Notes, PPT's, Videos	http://202.62.95.70:8080/jspui/handle/123456789 /352
17	Raghu Tilak Reddy Maramreddy	E-Notes, PPT's, Videos	http://202.62.95.70:8080/jspui/handle/123456789 /352
18	Manjesh B C	E-Notes, PPT's, Videos	http://202.62.95.70:8080/jspui/handle/123456789 /352
19	Shivaprakash S	E-Notes, PPT's, Videos	http://202.62.95.70:8080/jspui/handle/123456789 /352
20	Ravikumar M.	E-Notes, PPT's, Videos	http://202.62.95.70:8080/jspui/handle/123456789 /352
21	Hanamant Yaragudri	E-Notes, PPT's, Videos	http://202.62.95.70:8080/jspui/handle/123456789 /352
22	Nagabhushana Narasappa	E-Notes, PPT's, Videos	http://202.62.95.70:8080/jspui/handle/123456789 /352
23	Sudarshan T A	E-Notes, PPT's, Videos	http://202.62.95.70:8080/jspui/handle/123456789 /352
24	Veeresha G	E-Notes, PPT's, Videos	http://202.62.95.70:8080/jspui/handle/123456789 /352
25	Chetan Kumar D S	E-Notes, PPT's, Videos	http://202.62.95.70:8080/jspui/handle/123456789 /352
26	Santhosh A N	E-Notes, PPT's, Videos	http://202.62.95.70:8080/jspui/handle/123456789 /352
27	Bopanna . K. D	E-Notes, PPT's, Videos	http://202.62.95.70:8080/jspui/handle/123456789 /352
28	Puneeth H V	E-Notes, PPT's, Videos	http://202.62.95.70:8080/jspui/handle/123456789 /352
29	Rajesh A	E-Notes, PPT's, Videos	http://202.62.95.70:8080/jspui/handle/123456789 /352
30	Sujeeth Swami	E-Notes, PPT's, Videos	http://202.62.95.70:8080/jspui/handle/123456789 /352
31	Ronald Reagon R	E-Notes, PPT's, Videos	http://202.62.95.70:8080/jspui/handle/123456789 /352

32	Madhusudan K	E-Notes, PPT's,	http://202.62.95.70:8080/jspui/handle/123456789
		Videos	/352
33	Kemparaju C R	E-Notes, PPT's,	http://202.62.95.70:8080/jspui/handle/123456789
		Videos	/352
34	Pavan	E-Notes, PPT's,	http://202.62.95.70:8080/jspui/handle/123456789
	Prabhakar	Videos	/352
	Kadole		
35	Karthik S N	E-Notes, PPT's,	http://202.62.95.70:8080/jspui/handle/123456789
		Videos	/352
36	Megha Shukla	E-Notes, PPT's,	http://202.62.95.70:8080/jspui/handle/123456789
		Videos	/352
37	Kamalasish Deb	E-Notes, PPT's,	http://202.62.95.70:8080/jspui/handle/123456789
		Videos	/352
38	Vinod Kumar G S	E-Notes, PPT's,	http://202.62.95.70:8080/jspui/handle/123456789
		Videos	/352
39	Vinayak rakash	E-Notes, PPT's,	http://202.62.95.70:8080/jspui/handle/123456789
	Balehittal	Videos	/352
40	Deepthi K.R.	E-Notes, PPT's,	http://202.62.95.70:8080/jspui/handle/123456789
		Videos	/352
41	Lakshminarasimha	E-Notes, PPT's,	http://202.62.95.70:8080/jspui/handle/123456789
	Ν	Videos	/352
42	Nithin	E-Notes, PPT's,	http://202.62.95.70:8080/jspui/handle/123456789
		Videos	/352
43	Dr.Aditi Raj	E-Notes, PPT's,	http://202.62.95.70:8080/jspui/handle/123456789
		Videos	/352
44	Naresh K S	E-Notes, PPT's,	http://202.62.95.70:8080/jspui/handle/123456789
		Videos	/352
45	Vinay D R	E-Notes, PPT's,	http://202.62.95.70:8080/jspui/handle/123456789
		Videos	/352

Classes are handled with due diligence. The classes are handled with well prepared power point presentations.

The students are also provided with handwritten notes which are distributed through either hard copy of soft copy.

Sample copy of the power point presentation used by the faculties is shown in Figure 5.8.3.12

Measurement of force torque	Measuring de	Measuring devices	
and pressure	Heaturandi	Measuring instrument	
	Force, had	Analytical balance	
		Platform balance	
		Proving ring	
	Torque	Prony brake	
Pureath H V	C. COLDECS	Hydraulic dynamometer	
Assistant Professor	Pressure	Bridgeman gauge	
Department of Mechanical Engineering		Pictoad gauge	
New Horizon College of Engineering Bangalore		Firmi grige	

sample of the hand written notes is shown in Figure 5.8.3.13

Decan of Master Unevert - 1	No. of Cours & The Sound Dates to a
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riddowritten notes 1	rianowillen notes 2

### 5.8.4 Working models /charts /monograms etc.

Working models are available in all labs to understand the basic concepts in Engineering.

Lab Instruction Chats, Equipments part charts and conversion factor charts are available to understand the working principle of each machine

S.No	Name of the Faculty	Working Models/Charts
1	Sudarshan T A	Petrigendios
2	Raghu Tilak Reddy	
3	Santhosh A N	
4.	Puneeth H V	LINITE, FITA, ON TOLOROMOS
5.	Ravikumar M	

## Table 5.8.4.1 models /charts /monograms

6.	Naresh K.S	FIELD CONTRACT OF THE CONTRACT
7.	Shivaprakash S	
8.	Bopanna K.D	Capgernini  Digital Engineering and Manufacturing Services End-to-end solutions across engineering distolines  LEADING the convergence of physical and figial works through technology, engineering and manufacturing experies  LEADING the convergence of physical and figial works through technology, engineering and manufacturing experies  LEADING the convergence of physical and figial works through technology, engineering and manufacturing experies  LEADING the convergence of physical and figial works through technology, engineering and manufacturing experies  LEADING the convergence of physical and figial works through technology, engineering and manufacturing experies  LEADING the convergence of physical and figial works through technology, engineering and manufacturing experies  LEADING the convergence of physical and figial works through technology, engineering and manufacturing experies  LEADING the convergence of physical and figial works through technology, engineering and manufacturing experies  LEADING the convergence of physical and figial works through technology, engineering and manufacturing experies  LEADING the convergence of physical and figial works through technology, engineering and manufacturing experies  LEADING the convergence of physical and figial works through technology, engineering and manufacturing experies  LEADING the convergence of physical and figial works through technology, engineering and manufacturing experies  LEADING the convergence of physical and figial works through technology, engineering and manufacturing experies  LEADING the convergence of physical and figial works through technology, engineering and manufacturing experies  LEADING the convergence of physical and figial works through technology, engineering and manufacturing experies  LEADING the convergence of physical and figial works through technology, engineering and manufacturing experies  LEADING the convergence of physical and figial works through technology, engineering and manufacturing experies  LEADING the co

## **5.8.4 Consultancy (from Industry)**

Provide a list with Project Title, Funding Agency, Amount and Duration) Funding Amount (Cumulative for each Assessment years) : Amount>10 Lacs – 20 Marks, Amount<10 and > 8 Lacs – 15 Marks, Amount< 8 and>6 Lacs – 10 Marks, Amount< 6 and >4 Lacs – 5 Marks, Amount< 4 and >2 Lacs – 2 Marks, Amount<2 Lacs – 0

Project Title	Duration	Funding Agency	Amount(in
			Rupees)
Enhancement of Productivity	12 Months	Pulse Sports Private	180000.00
Studies		Limited	
Enhancement of Productivity	3 Months	Sri Balaji Industries	50000.00
Studies			
HVAC Low side design	3 Months	OPTCOOL	10000.00
Design and Validation	6 Months	Deeksha Enterprises	50000.00
Testing and Validation	6 Months	Pulse Sports Private	90000.00
		Limited	
			Total
			Amount(X):
			380000.00

Table 5.8.4.1 Consultancy 2018-19 (CAYm1)

## Table 5.8.4.2 Consultancy 2017-18 (CAYm2)

Project Title	Duration Funding Agency		Amount(in
			Rupees)
Enhancement of Productivity	1 Year	Pulse Sports Private	180000.00
Studies		Limited	
Testing and Evaluation	1 Month	Sai Enterprises	25000.00
Enhancement of Productivity	2 Months	Sri Balaji Industries	30000.00
Studies			
Feasibility Studies, Testing	3 Months	Hitesh Creations	50000.00
and Evaluation			
Evaluation of Projects;	6 Months	Indian Bank	100000.00
Feasibility studies			
			Total
			Amount(Y):
			385000.00

Project Title	Duration	Funding Agency	Amount(in
			Rupees)
Testing and Validation	3 Months	Mahalakshmi	50000.00
		Timber	
Testing and Validation	3 Months	Exotic Innovation	50000.00
		Private Limited	
Rapid Prototyping	3 Months	Super Power	5000.00
		Solutions	
Testing and Validation	3 Months	Venkateshwara	10000.00
		paper mart	
Online Evaluation Tools	3 Months	Edu Merge	50000.00
Testing and Evaluation	3 Months	Techser Power	25000.00
		solutions	
Rapid Prototyping	3 Months	K.S.R Ceramic	50000.00
			Total
			Amount(Z):
			240000.00

Table 5.8.4.3 Consultancy 2016-17 (CAYm3)

 $\overline{\text{Cumulative Amount}(\mathbf{X} + \mathbf{Y} + \mathbf{Z})} = 1005000.00$ 

## Table 5.8.4.4 Consultancy details 2018-19 (CAYm1)

SL No	Principal Investigator	Funding Agency	Project Title	Amount in Rupees	Amount in Words
1.	Dr.M.S. Ganesha	Pulse	Enhancement of	180000	One Lakh
	Prasad	Sports	Productivity		Eighty
	Dr. Manjunatha	Private	Studies		thousand
		Limited			only
2.	Dr.M.S. Ganesha	Sri	Enhancement of	50000	Fifty
	Prasad	Balaji	Productivity		Thousan
	Dr. Manjunatha	Industrie	Studies		d only
		S			
3.	Dr. P. Adhikary	OPTCOO	HVAC Low	10000	Ten
		L	side design		thousand
					only

4.	Dr.Srinath and Dr.Nagendra	Deeksha Enterprises	Design and Validation	50000	Fifty Thousand only
5.	Dr.M.S. Ganesha Prasad Dr. Manjunatha	Pulse Sports Private Limited	Testing and Validation	90000	Ninety Thousand only

## Table 5.8.4.5 Consultancy 2017-18 (CAYm2)

SL	Derin ein el	Funding	<b>Project Title</b>	Amount	Amount
•		Agency		in	in Words
No	Investigator			Rupees	
1.	Dr.M.S. Ganesha	Pulse Sports	Enhancement	180000.00	One Lakh
	Prasad	Private	of Productivity		Eighty
	Dr. Manjunatha	Limited	Studies		thousand
					only
2.	Dr.M.S. Ganesha	Sai	Testing and	25000.00	Twenty
	Prasad	Enterprises	Evaluation		five
	Dr. Manjunatha				thousand
					only
3.	Dr.M.S. Ganesha	Sri Balaji	Enhancement	30000.00	Thirty
	Prasad	Indus	of Productivity		thousand
	Dr. Manjunatha		Studies		only
4.	Dr.Sridhar kurse	Hitesh	Feasibility	50000.00	Fifty
	Dr.M.S. Ganesha	Creations	Studies,		Thousand
	Prasad		Testing and		only
	Dr. Manjunatha		Evaluation		
5.	Dr.M.S. Ganesha	Indian Bank	Evaluation of	100000.00	One Lakh
	Prasad		Projects;		only
	Dr. Manjunatha		Feasibility		
	Dr. Sheelan Misra		studies		

1	Table 5.8.4.6 Consultancy 2016-17 (CAYm3)						
SL No	Principal Investigator	Funding Agency	Project Title	Amoun t in Rupees	Amount in Words		
• 1.	Dr. P. Adhikary	Mahalakshmi Timber	Testing and Validation	50000.00	Fifty Thousand only		
2.	Dr.M.S. Ganesha Prasad	Exotic Innovation Private Limited	Testing and Validation	50000.00	Fifty Thousand only		
3.	Dr. Manjunatha	Super Power Solutions	Rapid Prototyping	5000.00	five thousand only		
4.	Dr.M.S. Ganesha Prasad Dr. Manjunatha	Venkateshwa ra paper mart	Testing and Validation	10000.00	Ten thousand only		
5.	Dr.M.S. Ganesha Prasad	Edu Merge	Online Evaluation Tools	50000.00	Fifty Thousand only		
6.	Dr.M.S. Ganesha Prasad	Techser Power solutions	Testing and Evaluation	25000.00	Twenty five thousand only		
7.	Dr. Manjunatha	K.S.R Ceramic	Rapid Prototyping	50000.00	Fifty Thousand only		

## 5.9 Faculty Performance Appraisal and Development System (FPADS)

Faculty members of Higher Educational Institutions today have to perform a variety of tasks pertaining to diverse roles. In addition to instruction, Faculty members need to innovate and conduct research for their self-renewal, keep abreast with changes in technology, and develop expertise for effective implementation of curricula. They are also expected to provide services to the industry and community for understanding and contributing to the solution of real life problems in industry. Another role relates to the shouldering of administrative responsibilities and co-operation with other Faculty, Heads-of-Departments and the Head of Institute. An effective performance appraisal system for Faculty is vital for optimizing the contribution of individual Faculty to institutional performance. The assessment is based on:

- A well-defined system for faculty appraisal for all the assessment years (5)
- Its implementation and effectiveness (5)

The college follows the Performance Based Assessment System as prescribed by the UGC. The system was adopted after a thorough discussion and review. The performance review gives a great opportunity to the concerned faculty and the department to look into the areas for improvement and take necessary remedial steps. The purposes of this evaluation are following:

- 1. Assess and promote excellence in the teaching/learning process.
- 2. Meet the educational needs of students and community by continually
- 3. Monitoring instructional performance.
- 4. Provide a constructive framework for evaluating faculty performance by identifying areas of strength and areas for improvement in classroom instruction.
- 5. Provide a basis for professional growth and development.

## Faculty Performance Appraisal and Development System.

### **Performance Rating Scale:**

## **Basic Criteria for Appraisal System:**

### **Teaching Based Appraisal:**

- 1. Percentage of Assigned Classes taken.
- 2. PBL projects supervised.
- 3. Swayam / NPTEL course in Blended mode.
- 4. Innovation in teaching pedagogy.
- 5. Number of Guest Lectures/Workshops/Seminar organized for the students.
- 6. Designing of new courses / Revision of courses.
- 7. Extra activities carried out with regard to slow and fast learners.
- 8. MOOC courses completed.
- 9. Proper maintenance of Course Files as per the prescribed list of contents.

- 10. Attainment of Course Outcomes (COs).
- 11. Awards/ Recognitions received for excellence in teaching/ research/ students projects.

#### **Research Based Appraisal:**

- 1. Papers published in SCOPUS Indexed Approved journals.
- 2. Outside Consultancies completed during the assessment period.
- 3. Conference organized by the school during the assessment period.
- 4. Papers presented at Conferences, Seminars, Workshops, Symposia, Trade Journals (National/International).
- 5. Membership of Chapters such IEEE, Institute of Engineers etc.
- 6. Funded Research Projects handled as Principle Investigator (PI) or as Co-PI during the Membership of Chapters Patents granted in the school
- 7. Initiatives and Outreach activities.
- 8. Conduct of Training Programs(FDP/Workshop) should be the Organizer

### NEW HORIZON COLLEGE OF ENGINEERING

## ANNUAL SELF APPRAISAL OF TEACHING STAFF

### Academic Year: 2018 - 19

Name:	•
Designation:	•
Department:	

NOTE:

(This document consists of evaluation (i) of teacher by students (ii) by teachers themselves and(iii) of the concerned of Head, all considered together. This evaluation is conducted at the end of each academic year and forms an important document of performance evaluation)

## PERFORMANCE APPRAISAL: TEACHING STAFF

In conformity with the job responsibilities (prescribed by AICTE) Assessment period from August 2018 to July 2019

## PART'A'

#### (Personal Particular)

Name :		
Educational Qualifications		
(If you posses a Doctorate degree, State if you are a recognized guide)		 
Department	:	
Designation	:	
No. of years served in NHCE till date		
Total Experience till date		
Any extraordinary achievement during the assessment period		

## Part'B'

## Academic Duties and responsibilities assigned

ODD	Subject Assigned	No. of Classes Planned	No. of Classes Conducted	Remarks
Semester				
Theory				

EVEN	Subject Assigned	No. of Classes Planned	No. of Classes Conducted	Remarks
Semester				
Theory				

EVEN	Laboratory	No. of Experiments Planned	No. of Experiments Conducted	Remarks
Semester				
Laboratory				

## Applicable to Faculties handled Autonomous scheme

ODD	Subjects Assigned	Self Study / Sem / Student	Assignments / Semester	Quiz / Semester
SEMESTER				

	Subjects Assigned	Self Study / Sem / Student	Assignments / Semester	Quiz / Semester
EVEN SEMESTER				

### Part 'C'

A brief pen picture of self, not exceeding in 5 to 6 lines, highlighting the administrative and support activities entrusted

### Part 'D'

(Appraisal on a 5 point rating scale)

Note: Please put a tick in the appropriate rating

1. Proper maintenance of course files and attendance registers (as per Check list) with necessary proof



2. Proper valuation & maintenance of blue books of students with necessary proof



3. Contribution in development of lab manuals, addition of new experiments and innovations and modernization of labs



4. Participation in co-curricular activities



(Here contributions in areas like ISTE, forum activities, arranging guest lectures, symposiums / seminars, Workshops, blood donation, sports and other fruitful activities need to be taken intoconsideration.)

5. Initiatives taken towards counseling / Mentoring, guidance & overall character building of students



6. Initiatives and interest shown in acquiring and disseminating new knowledge and skill through paper publications. Minimum 02 per Academic Year. Update in HRMS. For 02 publications 15 points



7. Initiatives and interest shown in acquiring and disseminating new knowledge and Skill through attending external seminars/ workshops/ conferences: Minimum 02per Academic Year. Update in HRMS. 15 points for minimum 02 external programs.



8. Efforts made in attending education program (MOOCS): Update in HRMS. Minimum 01 online program – 15 points



9. Initiative & involvement in curriculum development (Suggestions to improve the Curriculum):



10. Involvement in planning & organizing workshop / seminars / conference / symposium/exhibition / guest lecturers etc., please specify



11. Initiative taken towards Societal Development (adult literacy drives & bringing awareness in the society towards hygiene/moral & ethical value etc):


12. Degree of integrity, efficiency, effectiveness& dedication shown during the course of discharging assigned responsibilities:



PART 'E'

Formula Used: (Grand Result % \* 5) / 100

(Result Conversion Scale: 100% - 5, 80% - 4, 60% - 3, 40% - 2, 20% - 1, 0% - 0)

ODD Semester								
	Sub 1	Sub 2	Sub 3	Sub 4	Sub 5	Average		
Student								
Feedback								
Result								

	EVEN Semester									
	Sub 1	Sub 2	Sub 3	Sub 4	Sub 5	Average				
Student										
Feedback										
Result										

Grand Average								
	ODD	EVEN	Grand					
Student Feedback								
Result								

### SUMMARY

### SUMMARY OF PART "D"

- Total points awarded to staff: (D1) ......
   (Points Obtained / Maximum Points \*5)
- ♦ Points awarded with 75% weight age: (D1\*0.75) .....

### SUMMARY OF PART "E"

- ✤ Average of student Feedback and Result (E1)=
- ✤ 25% weightage based on grand average: (E1\*0.25).....

### **OVERALL SUMMARY**

• Annual performance index (D + E) =

### CORRESPONDING RANKING TAKING INTO ACCOUNT THE POINT SCORE AND CONVERTING IT TO TOTAL WEIGHTAGE OF 75%+25%= 100

**Final Grade:** 

4.5 - 5.0: OUTSTANDING
4.0 - 4.4: Very good
3.0 - 3.9: Good
2.0 - 2.9: Fair
Less than 2: Poor

### OTHERS

### Additional weightage for the following will be considered:

- 1. No. of patents filed (Please furnish details and update in HRMS)
- 2. No. of books published (please furnish details and update in HRMS) per patent
- 3. Contribution in promoting institute industry, R & D activities and consultancy services (Minimum 02 proposals per academic year for Professor cadre)

Department of Mechanical Engineering / NHCE

4. Contribution through Projects

Signature of faculty member

Date: .....

Areas for improvement:

Signature of HOD

Date: .....

Remarks of Principal:

Signature of Principal

Date: .....

### GUIDELINES TO HEADS OF DEPARTMENT FOR FILLING UP PERFORMANCE APPRAISAL FORM IN RESPECT OF TEACHING STAFF

- **1.** Every faculty person will be assessed on ...... items/areas of achievement on the pressure point rating scale. The concept of rating scale are given below:
  - Outstanding : Excellent professional competence, unblemished track record, utmost efficiency & effectiveness, optimum human capacity utilization, punctuality, sincerity and dedication of highest order.
  - Very good: Satisfactory professional competence with reasonable efficiency & effectiveness, reasonable extent of human capacity utilization and high order of punctuality, sincerity and dedication.
  - ✤ Good: Just satisfactory performance with marginal level of efficiency and effectiveness. Medium human capacity utilization, punctuality, sincerity and dedication just adequate to deliver minimum satisfactory performance.
  - ✤ Fair: Performance much below the level of expectations. Lack of efficiency and effectiveness, zeal and enthusiasm in performing his/her

duties. Under utilization of capacity advertently or inadvertently(due to physical, mental disabilities)

Poor: A deplorable performance devoid of initiative efforts, zeal or enthusiasm. A liability for the organisation with either total lack of capacity, utilization to perform or advertently shirking from responsibilities.

### 2. PROCEDURE OF COMPUTATION OF GRADING

- ✤ 75% weightage of the total points awarded in performance appraisal.
- 25% weightage will be given for points awarded in the faculty evaluation by students both from both semesters.

### 3. CORRESPONDING RANKING TAKING INTO ACCOUNT THE POINT SCORE AND CONVERTING IT TO TOTAL WEIGHTAGE OF

75%+25%=100%

- **4.5 5.0:** OUTSTANDING
- 4.0 4.4: Very good
- **3.0 3.9:** Good
- **2.0 2.9:** Fair

Less than 2: Poor

- 4. HOD's are required to fill up the performance appraisal proforma in presence of the concerned teaching staff by asking the staff explain item wise performance and their perceptions about the point grades. The HOD's after taking into account the submissions and expectations of the concerned staff & his own perceptions/ option about the capability of the staff, will put a tick on mark particular point scale. In case the ticked grade does not tally with the expectations of the staff, the reasons for variations must be told to staff by HOD in explicit terms.
- 5. The HODs are to ensure that assessment is based on the performance of the individual throughout the stipulated assessment period and not based on seasonal performance. Further biases all sorts and preferential treatment to selected ones should be avoided to make the appraisal system totally transparent and purposeful.
- 6. Both the HOD and the staff have to sign in the appraisal proforma at the appropriate place meant for the purpose. The employees should invariably sign even if they have some reservation on the assessment grades given by HOD's on

certain items. They can mention the particular items where they have reservations/ disagreement below their signature at the appropriate place mentioned there in. These dissenting items/points or divergences will be discussed by the staff with Principal at appropriate time after seeking interview or if otherwise automatically called by Principal.

7. The decision of the Principal an all dissenting matters will be final & binding on employees. No further query or representations on the subject will be entertained at later stage.

### **Implementation of FPADS:**

- Registration Fees for Conferences/ Workshops/Faculty Development Programmes, Industrial Training Programmes.
- Increments are provided based upon the performance scale of the faculty members.
- Counselling Session are provided for faculty in-terms of performance improvisation, skill development and personal development.

### 5.10 Visiting/Adjunct/Emeritus Faculty etc.

Adjunct faculty also includes Industry experts. Provide details of participation and contributions in teaching and learning and /or research by visiting/adjunct/Emeritus faculty etc. for all the assessment years:

- Provision of visiting/adjunct faculty (1)
- Minimum 50 hours per year interaction with adjunct faculty from industry/retired professors etc.(9) (Minimum 50 hours interaction in a year will result in 3 marks for that year; 3marks x 3years= 9marks)

### Summary of the Visiting/Adjunct/Emeritus Faculty

Academic Year	No. of Hours	
2019-2020	23 Hrs	
2018-2019	50 Hrs	
2017-2018	50 Hrs	

### Table 5.10.1 Summary of the Visiting/Adjunct/Emeritus Faculty

SL.		NAME OF	DESIGNA		TITLE OF		BENE
NO.	DAT	ТНЕ	TION	COMPAN	THE TOPIC	TIME	FIARI
	Е	EXPERT		Y			ES
		Dr. S G	Executive		KSCST projects		
	23/08/	Sreekantes	Secretary	KSCST	and Project	3Hrs	7 <sup>th</sup> sem
1	2019	wara			Management		
		Swamy					
				Nandi	Emerging		
2	14/09/	Mr. P	HOD	Toyota,	Automotive	6Hrs	3 <sup>rd</sup> sem
	2019	Rajendran		Bangalore	Technology		
			Program	IBM India	Mechatronics		
3	14/09/	Mr.	Manager	Pvt Ltd	and	3Hrs	3 <sup>rd</sup> sem
	2019	Gobalakichena			Microcontroller		
		n G			s		
4	19/09/	Dr. Vasantha	Assistant	ITM,	Power Plan for	6Hrs	5 <sup>th</sup> sem
	2019	Lakshmi	Professor	Kharagpur	your success		
			Senior	EDS	Product		
5	12/03/	Kumar Arpan	Solution	Technologie	development and	5Hrs	7 <sup>th</sup> sem
	2020		Consultant	s	processing using		
					DELMIA		

### Table 5.10.1 List of 2019-20 Visiting Faculties

### Table 5.10.2 List of 2018-19 Visiting Faculties

SL.		NAME OF	DESIGNATI		TITLE OF		BEN
NO.	DA	THE EXPERT	ON	COMPANY	THE TOPIC	TIM	EFIA
	TE					E	RIES
			Engineering	National	Productive		
	25/09/	Mr. Gaurav	Director	Entrepreneurs	Entrepreneurship	6Hrs	3 <sup>rd</sup>
1.	2018	Singh		hip Network			sem
			Assistant	Armed Forces	Bright career		
2.	22/10/	Mr. Sachin	Commandant		opportunities in	3 Hrs	7 <sup>th</sup>
	2018	yadav			armed forces		sem
			Engineerin	Dheya			
3	2/04/2	Gurushankara	g Director	Engineering	FEA design	3 Hrs	$6^{\text{th}}$
	019	K.C		Technologies			sem
				Pvt Ltd			

			Chief	Intralabs	Machine Design		
4	05/04/	Mr. Vijay B R	Operating	India	Approaches and	3 Hrs	6 <sup>th</sup>
	2019		Officer	Technology	Spring Design		sem
				Private			
				Limited			
		Mr. Anil Kumar		Difacto	Advanced		
5	16/04/	Satapathy	СТО	Robotics and	Robotics	4Hrs	$6^{th}$
	2019			automation			sem
				Pvt Ltd			
			Assistant		Purchasing in		
6	27/04/	Mr. Guruprasad	manager	Bosch India	automobile	3 Hrs	$4^{\text{th}}$
	2019				industry		sem
7	24/07/	Raghavendra K	IT Analyst	TCS	Mechanics of	3 Hrs	$4^{\text{th}}$
	2019				Materials		sem
					Aerospace		
8	27/07/	Dr Ram Prabhu	Scientist	DRDO	Materials and	3 Hrs	3 <sup>rd</sup>
	2019				Manufacturing		sem
					Innovations and		
9	07/09/	Dr. J Ramkumar	Professor	IIT, Kanpur	Emerging trends	3 Hrs	$7^{\text{th}}$
	2018				in Rapid		sem
					prototyping		
					Gas turbine		
				Gas Turbne	design and		
				Systems,	higher studies		7 <sup>th</sup>
10	20/09/	Dr. Suresh	Director	Cranfield	avenues at	4 Hrs	sem
	2018	Sampath		University	cranfield		
					university		
					Mechatronics		
11	22/09/	Mr Gopal	Technical	IBM	and	3 Hrs	$5^{\text{th}}$
	2018		Trainer		Microcontrollers		sem
					How to prepare		
					ourselves for an		
			Regional	Daimler	interviews and		
12	22/09/	Vaibhav Vijay	key account	India	potential of job	3 Hrs	$7^{\text{th}}$
	2018		manager	Commercial	market towards		sem
				vehicles Pvt	mechanical		
				Ltd	engineering		

			Chief	Intralabs	Operations		7 <sup>th</sup>
13	06/10/	Mr. Vijay B R	Operating	India	Research	3 Hrs	sem
	2018		Officer	Technology			
				Private			
				Limited			
				OPN	Project		
14	09/10/	Mr. Erega Mani	Founder	Excel	Management and	3 Hrs	$5^{\text{th}}$
	2018		Director	Solutions	Entrepreneurship		sem
					Basic		
15	10/10/	Mr. Parimal	Founder	Brainstormi	Thermodynamics	3 Hrs	3 <sup>rd</sup>
	2018	Priyadarshi		ng Labs	and Fluid		sem
		ni		LLP	Mechanics		

### Table 5.10.3 List of 2017-18 Visiting Faculties

SL.	DAT	NAME OF	DESIGNATI	COMPANY	TITLE OF		BEN
NO.	.E	THE	ON		THE TOPIC	TI	EFIA
		EXPERT				ME	RIES
1.	27/09/	Mr. Kiran	Senior PLM	EDS	3D experience	6 Hrs	8 <sup>th</sup>
	2017		Consultant	Technologies			sem
					Geometric		
2.	09/09/	Mr. Saravana	Manager	Quest Global	dimensioning	3 Hrs	3 <sup>rd</sup>
	2017	Kumar			and tolerance		sem
3	09/09/	Dr.Madhukar	Technical	ACRi	Computational	3 Hrs	5 <sup>th</sup>
	2017	Rao	Director	Infotech Pvt	Fluid Dynamics		sem
				Ltd			
4	07/10/	Mr. Sanjay	Engineering	Team	Aero structures	3 Hrs	5 <sup>th</sup>
	2017		Professional	Sankalpa			sem
			Chief	Intralabs India			
5	09/10/	Mr. Vijay B R	Operating	Technology	Mechanics for	3 Hrs	3 <sup>rd</sup>
	2017		Officer	Private	Materials		sem
				Limited			
			Post	Herbin	Study of		
6	06/02/	Dr. Kanchana	Doctoral	Institute of	Rayleigh-	4Hrs	$6^{\text{th}}$
	2018		Fellow	Technology	Bernard		sem
					convection in		
					Nano liquids		

7	12/02/	Dr. Madhukar	Project	ACR, Inc,	Fundamentals of	4 Hrs	6 <sup>th</sup>
	2018	M Rao	Engineer	Bangalore	heat transfer		sem
			Engineering	Team	Industry		
8	07/10/	Mr. Sanjay	Professional	Sankalpa	Expectations on	3 Hrs	$5^{\text{th}}$
	2017				Aero Structures		sem
				Intralabs India			
9	10/10/	Mr. Vijay B R	Chief	Technology	Mechanics of	4Hrs	3 <sup>rd</sup>
	2017		Operating	Private	Materials		sem
			Officer	Limited			
					Problem Solving		
		Mr.		Brain	Techniques in		
10	16/10/	Parimal	Founder	Storming lab	Thermodynamics	3 Hrs	3 <sup>rd</sup>
	2017	Priyadars			and Bernoullis		sem
		hini			Principle		
11	17/10/	Mr.	Founder	Brain	Air Standard	4 Hrs	5 <sup>th</sup>
	2017	Parimal		Storming lab	Cycles		sem
		Priyadars					
		hini					
					Piezoelectric		
				NAL,	Materials in		
12	24/02/	Dr. P K Panda	Sr. Scientist	Bangalore	Aerospace	3 Hrs	4 <sup>th</sup> and
	2018				Science and		$6^{\text{th}}$
					Technology		sem
				Intralabs India	Deflection of		
13	10/03/	Mr. Vijay B R	Chief	Technology	beams under	4 Hrs	$4^{\text{th}}$
	2018		Operating	Private	different loading		sem
			Officer	Limited	conditions		
14	12/04/	Dr. Shekar	Former	NAL,	Flow around	4 Hrs	$4^{\text{th}}$
	2018	Majumdar	senior	Bangalore	immersed bodies		sem
			scientist				

## DEPARTMENT OF MECHANICAL ENGINEERING

# **CRITERION 6**

## FACILITIES AND TECHNICAL SUPPORT

### 6. FACILITIES AND TECHNICAL SUPPORT 6.1 Adequate and well equipped laboratories, and technical manpower

Department of Mechanical Engineering has well equipped laboratories. Core labs which include Work shop Practice, Machine for Manufacturing technology lab, Casting Forging and Joining lab, Mechanics of Material Testing, Metrology and Measurements, Heat power cycle, Fluid Machinery, Rotor Dynamics, Fundamental of Heat Transfer, Vibration Lab are well equipped with all the equipment as specified by the University. Software labs have tool like SOLID EDGE, CATIA-V5, SAP, MATLAB, ADAMS, ANSYS 14.5 etc as per the curriculum. Enough number of personal computers is available for the smooth conduction of the lab. All the software labs are air conditioned. Safety instructions, safety tools including first aid box are provided in all the labs. Qualified technical staff supported by a technical assistant is available in the labs to assist the students by providing constant support and to ensure proper laboratory maintenance.

**Table 6.1.1:** Adequate and well equipped laboratories and technical manpower(40)

Sl. No	Name of the Laboratory	No. of Student s	Name of the Important	Weekly utilization status	Technical Manpower Support		
		per setup (Batch Size)	Equipment	(all the courses for which the lab is utilized) Hours	Name of the technical staff	Designation	Qualification
1	Computer Aided Engineering Drawing CAED-1	Batch size30-35 one student per setup	<ul> <li>LED Monitor 17"</li> <li>Intel i3 Processor, 4GB RAM</li> </ul>	30	Mr. Kiran Kumar R	Foreman	B.E
2	Computer Aided Engineering Drawing CAED-2	Batch size30-35 one student per setup	<ul> <li>LED Monitor 17"</li> <li>Intel i3 Processor, 4GB RAM</li> </ul>	30	Mr. Neeraj	Instructor	B.E
3	Mechanics of Material	Batch size 20-25 Five students per setup	<ul> <li>Universal testing Machine</li> <li>Microscope</li> <li>Rockwell Brinell</li> <li>Vickers Hardness test</li> <li>Impact&amp; Torsion</li> </ul>	24	Mr. Ravi Kumar K. R	Lab Instructor	ITI (Diploma)
4	Casting, Forging &Joining Technology	Batch size 20-25	<ul><li>Muffle Furnace</li><li>Arc Welding setup</li><li>Sand testing machine</li></ul>	24	Mr. Kenchappa	Lab Instructor	ITI (Diploma)

		Three students per setup					
5	Machine for Manufacturing Technology	Batch size 20-25 Two students per setup	<ul> <li>Lathe</li> <li>Milling,</li> <li>Shaping</li> <li>Drilling Machines</li> </ul>	26	Mr. Ramanamurthy	Lab Instructor	ITI
6	Mechanical Measurement & Metrology/ Projectphase- 1/ phase-2)	Batch size20-25 Four students per setup	<ul> <li>Tool Makers Microscope</li> <li>Floating carriage Micrometer</li> <li>Load Cell, LVDT</li> </ul>	24	Mr. Shashidhara	Lab Instructor	ITI, Diploma
7	Fluid Mechanics	Batch size20-25 Five students per setup	<ul> <li>Venturimetre</li> <li>Orifice meter</li> <li>Notches</li> <li>Losses in Pipes</li> </ul>	18	Mr. Nanjundiah	Lab Instructor	ITI
8	Material Science and Metallurgy/ Advanced manufacturing lab	Batch size 20-25 Two students per setup	<ul> <li>Metallurgical Microscope</li> <li>Scratch Hardness teat</li> <li>Magnetics Crack Detector</li> </ul>	21	Mr. Shashidhara	Lab Instructor	ITI, Diploma

9	Fundamental of Heat Transfer Lab	Batch size 20-25 Five students per setup	<ul> <li>Emissivity</li> <li>Stefan Boltzmens</li> <li>Heat Exchanger</li> <li>Force Convection</li> <li>Nature Convection</li> <li>Pin fin</li> <li>Boiling Condensation</li> </ul>	27	Mr. Rajendra Reddy	Lab Instructor	ITI
10	FEM	Batch size20-25 One student per setup	<ul> <li>LEDMonitor 17"</li> <li>Intel i3 Processor, 4GB RAM</li> </ul>	27	Mr. Kiran Kumar R	Foreman	B.E
11	IIoT Quest/ Automation Engineering Lab /Project phase 1/ phase 2	Batch size20-25 One student per setup	<ul> <li>Smart Board</li> <li>Computers</li> <li>Monitor 17", Intel i3 Processor, 4GB RAM</li> </ul>	42	Ms. Chethana T V	Lab Instructor	B.E
12	SAP Lab/ Machine Learning/ Computer Aided Machine Drawing /Project phase 1/ phase 2	Batch size20-25 one student per setup	<ul> <li>Smart Board</li> <li>Computers</li> <li>Monitor 17", Intel i3 Processor, 4GB RAM</li> </ul>	42	Mr. Venkatesh	Lab Instructor	Diploma

13	PLM/DEMS Lab/CAMD /Project phase 1/ phase 2	Batch size30-35 one student per setup	<ul> <li>Smart Board</li> <li>Computers</li> <li>Monitor 17", Intel i3 Processor, 4GB RAM</li> </ul>	42	Mr.Venkatesh	Lab Instructor	Diploma
14	Heat power cycle	Batch size20-25 Four studentper setup	<ul> <li>Flash &amp; fire point</li> <li>Wall timing</li> <li>porting timing</li> <li>Planimeter</li> <li>Air conditioner</li> <li>Refrigerator</li> <li>Single &amp; multicylinder Diesel Engine</li> <li>VCR</li> </ul>	27	Mr. Ravi Kumar K. R	Lab Instructor	ITI (Diploma)
15	MTMD/ Control Engineering lab	Batch size20-25 One student per setup	<ul> <li>LEDMonitor 17"</li> <li>Intel i3 Processor, 4GB RAM</li> <li>Porter Governor</li> </ul>	30	Mr. Kiran Kumar R	Foreman	B.E
16	Mechanical Vibration	Batch size20-25 Five student per setup	<ul> <li>Vib-3</li> <li>Whirling of shaft</li> <li>Simple pendulum</li> <li>compound pendulum</li> <li>spring mass</li> </ul>	27	Mr. Rajendra Reddy	Lab Instructor	ITI

### PHOTOS OF THE LABS







Fig 1: CAED LAB





Fig 2: WORKSHOP PRACTICE



BANKA

BANKA

Fig 3: MOM LAB

Fig 4: CFJT LAB

### Fig 5 : MACHINES FOR MANUFATURING TECHNOLOGY LAB

#### 6.2. Laboratories maintenance and overall ambiance (10)

Department of Mechanical Engineering has the necessary infrastructure for conduction of laboratories. Every Lab is equipped with White/Black board, seating Arrangements with Wi-Fi facility and computer labs are with Air Conditioning facility. Each lab is handled by one faculty supported by a co-faculty. Also, every lab has a lab instructors/ technical assistant, who provides constant support and ensures maintenance of the laboratories.

Maintenance is an important activity carried out by the lab instructors / technical assistant. Every equipment is in the lab is bar coded and records of the same are maintained. At the end of each semester, all the equipmentis verified for proper working and a report of the same will be maintained in the Service Register.

Also, Monthly report of lab status is maintained with the help of periodical Maintenance report. The Corresponding actions (like procuring new items, repairing of items) if needed will also be carried by the department.

Before the commencement of the semester, Faculty members verify the availability of the required software / equipment for the smooth conduction of the lab. A requirement is generated by the faculty, which will further be approved by management, under satisfactory comments and feasible requirements approved by HOD.

#### All the labs are well equipped andmaintained.

- Maintenance of the instruments are carried out on a Quarterly and Annually basis and also when necessary.
- Calibration of the instruments is carried outannually.
- Technical Staffs are well trained formaintenance.
- Conditions of chairs/benches are in good condition.
- Air circulation for laboratories isgood.
- Lighting in the laboratories isadequate, along with the natural light in every corner of the rooms.
- Window curtains are provided for goodvisibility.
- LED Projectors are provided for CAED, FEM, MTMD and Metrology Laboratory.
- Smart Board are used for CAMD, IIoT, SAP, Machine learning and Dems Laboratory
- Conventional black and white boards are provided.
- Cup-boards are available in each lab.
- Laboratories are kept open beyond office hours as per theneed for the students to utilize their project work.
- Laboratory manuals are prepared by the lab-Incharge faculty and are hardcopy available in each lab.

- Free energy resource is extracted through solar panel and wind mill and utilized for all the Labs and class rooms.
- General Rules of Conduct in Laboratories are displayed.
- First aid box, Fire extinguisher is kept in thelaboratory.
- CCTV camera attached in alllabs.
- Periodical servicing of the labequipment is maintained in the preventive and break down record.
- Maintain a clean and organizedlaboratory.
- Permission denied for pen drives.
- Sign the log-out register before leaving the lab.
- Computers should be turned off properly before leaving the lab.
- The student must check the computer unit and its peripherals attached before using it. The student must immediately inform the instructor if there's any defect, error or damage observed at the computer (hardware/software).



Fig 6: FUNDAMENTAL OF HEAT TRANSFER LAB



**Fig 7: VIBRATION LAB** 



**Fig 8: MINOR SERVICE OF MACHINES** 

Asset No: SHP NHC - SHP-001								C. anth	h	. 1	a),120	0	chilar.	Print	Point
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#### Fig 9.1: MAINTENANCE RECORD FOR SHAPE MACHINE

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### Fig 9.2: MAINTENANCE RECORD FOR GRINDING MACHINE



REGD. OFFICE : No. 288/16/2, Gokula 1st Stage, 2nd Phase, 9th Main, 3rd Cross, Bangalore - 560 054. INDIA Phone : 080- 23377905 / 23479840 / 2337 4838, Cell. : +91 9900129807 Email : lain@indfurnace.com / jainif@@mail.com visit us : www.indfurnace.com

Fig 10: MAJOR SERVICE OF MUFFLE FURNACE

### Code of conduct for the laboratories:

- Wearing ID card is mandatory inside the laboratory.
- Students are expected to be regular and punctual to the laboratory sessions.
- The students have to come prepared for the experiments as per the cycle of experiments.
- The students shall be permitted to do the experiment only if he/she brings the observation book and laboratory record duly completed.
- Attendance for all the laboratory and internal tests are compulsory.
- Students must handle laboratory equipment as per the instructions and should keep the laboratory clean and tidy.
- Any student found indulging in meddling with systems/equipment will be punished.
- Students are advised not to install, remove or copy any application without prior permission from the faculty in-charge.
- Students are advised not to use any non-educational applications or sites.

### 6.3. Safety measures in laboratories (10)

#### **Table 3: Safety Measures in Lab**

SI.				
NO	Laboratory names	Safety Measures		
		General Rules of Conduct in Laboratories are displayed.		
		Specific Safety Rules for students is displayed.		
	···· · · · ·	First aid box, Fire extinguisher & Hand gloves are kept in the laboratory.		
1.	Work Shop Lab	Students wear Lab Uniform.		
		Well trained technical supporting staff.		
		Avoiding the use of damaged equipments and provides needful equipments and components.		
		Periodical servicing of the lab equipments.		

		Maintain a clean and organized laboratory,
		Avoiding the use of cell phones.
		Hand gloves, Safety shoes, Welding goggles, should be used in the lab
		Loose clothing and jewels etc. are prohibited
	Computer Aided Engineering	Electrical Wires Protected by MCB, RCBO and Fuses
2	Drawing	Do's and Dont's Board
		Fire Extinguisher
	Computer Aided Machine	Electrical Wires Protected by MCB, RCBO and Fuses
3	Drawing	Do's and Dont's Board
		Fire Extinguisher
		General Rules of Conduct in Laboratories are displayed.
		Specific Safety Rules for students is displayed.
4	Mechanics of Materials	First aid box, Fire extinguisher & Hand gloves are kept in each laboratory.
		Students wear Lab Uniform.
		Well trained technical supporting staff.
		Avoiding the use of damaged equipments and provides
		First Aid Kit
		Do's and Dont's Board
		Protective clothing (Uniform)and foot wear
5	Casting, Forging and Joining Technology	Walking ways
		Electrical Wires Protected by MCB, RCBO and Fuses
		Fire Extinguisher

		Safety Gloves
		Hazardous material board
		First Aid Kit
		Do's and Dont's Board
		Protective clothing (Uniform)and foot wear
		Walking ways
6	Machines for Manufacturing	Electrical Wires Protected by MCB, RCBO and Fuses
		Fire Extinguisher
		Safety Gloves
		Hazardous material board
		First Aid Kit
		Do's and Dont's Board
	Mechanical Measurement and Metrology	Protective clothing (Uniform)and foot wear
7		Walking ways
		Electrical Wires Protected by MCB, RCBO and
		Fuses
		Fire Extinguisher
		First Aid Kit
		Do's and Dont's Board
	Material Science &	Protective clothing (Uniform)and foot wear
8	Metallography	Walking ways
		Electrical Wires Protected by MCB, RCBO and
		Fuses
		Fire Extinguisher
	Fluid Mechanics/ Rotor	First Aid Kit
9	Dynamics Lab	Do's and Dont's Board
		Protective clothing (Uniform)and foot wear

		Walking ways		
		Electrical Wires Protected by MCB, RCBO and		
		Fuses		
		Fire Extinguisher		
		First Aid Kit		
		Do's and Dont's Board		
10	Heat Power Cycle	Protective clothing (Uniform)and foot wear		
10	ficat i ower Cycle	Walking ways		
		Electrical Wires Protected by MCB, RCBO and		
		Fuses		
		First Aid Kit		
	Fundamentals of Heat Transfer	Do's and Dont's Board		
11		Protective clothing (Uniform)and foot wear		
11		Walking ways		
		Electrical Wires Protected by MCB, RCBO and		
		Fuses		
		First Aid Kit		
		Do's and Dont's Board		
12	Automation Engineering	Protective clothing (Uniform)and foot wear		
12	Automation Engineering	Walking ways		
		Electrical Wires Protected by MCB, RCBO and		
		Fuses		
		Electrical Wires Protected by MCB, RCBO and		
		Fuses		
13	Finite Element Methods	Do's and Dont's Board		
		Fire Extinguisher		
		Protective clothing (Uniform)and foot wear		
14	IIOT Lab	Fire Extinguisher, Electrical Wires Protected by		

		MCB, RCBO and Fuses
		First Aid Kit, Electrical Wires Protected by MCB, RCBO and Fuses
15	SAP Lab / Machine Learning Lab	First Aid Kit Electrical Wires Protected by MCB, RCBO and Fuses
16	DEMS Lab	Fire Extinguisher, First aid kit, Electrical Wires Protected by MCB, RCBO and Fuses

### SAFETY MEASURES IN LAB













Fig 12: MCB Switches



Fig 13: SEALED LAN CONNECTOR



Fig 15: HAND GLOVES



**Fig 14: AIR CONDITIONER** 



**Fig 16: FIRE EXTINGUISHER** 

6.4 Project Laboratory (10)

Table 4: The following Labs are utilized for students Research Project Activity and Room No. B-306 is used has project laboratory.

SI No	Lab Name	Details	Facility in the Lab	Utilization	Relevance's to POs and PSOs
1	Centre of Excellence by IoT	35 computers, Smart Board, Monitor 17", Intel i3 Processor, 4GB RAM MAT Lab Software	This program helps to carry out academic UG and PG projects,	UG/PG students, research scholars and faculty members utilize for their mini projects, projects and research activities	PO1, PO4, PO5, PO6, PO7, PO10, PO12, PSO1
2	Centre of Excellence By SAP Lab	Smart board LED, Monitor 17 inch,Intel i3 Processor, 4GB RAM	Advanced & Practical Knowledge in SAP for consultancy projects	Internship, mini projects, Major projects	PO1,PO2,PO3,PO4,PO5, PO6,PO11, PSO1,PSO2
3	Advanced Manufacturing Lab	1 CNC Turning Machine, 1 Milling Machine, Wind Tunnel, 3D printer	Value Added Course : CNC Programming. M Tab	UG/PG students, research scholars and faculty members utilize for their mini projects, projects and research activities	PO1,PO2,PO3PO 4, PO5,PO6, PO11, PSO1,PSO2
4	Vibration simulation Facility	MAT LAB, Testing Tools	Vibration signal Analysis and Interpretation	Mini projects, Major projects	PO1, PO4, PO5, PO6, PO7, PO10, PO12, PSO1

5	Centre of Excellence by DEMS/PLCM	Intel(R) Xeon(R) CPU E5-2630 V3, 32-Core Server Processor. 128GB DDR4 RAM. 7.2TB (4 RAID 1 arrays - each array has 1.8TB of disk space) 35 High end systems with 7 <sup>th</sup> Generation processors Latest version of ENOVIA from Dassault System software is available with CATIA V5 R 26.	Industrial requirement and company specific domain training	Mini projects, Major projects	PO1, PO5, PO9, PO11, PO12,PSO02
6	MOM LAB	Universal testing Machine, Metallurgical, Microscope, Rockwell Brinell, Vickers Hardness test ,Impact,& Torsion	This program helps to carry out academic UG and PG projects	Mini projects, Major projects	PO1, PO3, PO9, PO11, PO12,PSO2
7	MFM LAB	Lathe, Milling, Sawing machine, Shaping & Drilling Machines	This program helps to carry out academic UG and PG projects	Mini projects, Major projects	PO1, PO3, PO9, PO11, PO12,PSO2
9	CFJT LAB	Muffle Furnace, coke furnace, Arc Welding setup, Gas welding (Brazing)	This program helps to carry out academic UG projects	Mini projects, Major projects	PO1, PO2, PO5, PO9, PO11, PO12,PSO1

The below photos shows the Design and Development of prototype model of battery car in project laboratory.



Figs17: PROTOTYPE OF BATTERY CAR







### Figs 18: BATTERY CAR PARTICIPATED IN SHELL ECO-MARATHON COMPETITION



### Figs19: AN ARTICLE OF STUDENTS PROJECT PUBLISHED IN NEWS PAPER



Figs20: DESIGN AND DEVELOPMENT GO CART BY TEAM HORIZON-TAL

Table 5 :	Table 5 : Innovative Projects Done In Mechanical Engineering Department									
SL. No	Group Leader Name	Member-1 Name & USN	Member-2 Name & USN	Member-3 Name & USN	Member-4 Name & USN	Guide Name	Title			
1.A1	Amaresh S	Amaresh S 1NH16ME010	Anandhu KR 1NH16ME011	CM Yashassu 1NH16ME021	Kusshal A 1NH16ME044	Dr. M S Ganesha Prasad & Dr Gopal K	Minimal Powered Tube Bending Machine for Coolant Pipes and green house heat radiators.			
2.A2	Manoj Gowda T C	Manoj Gowda T C 1NH16ME055	Madhan Kumar V G 1NH16ME050	Basava Kumar B V 1NH16ME018	Ajay Kumar V 1NH17ME401	Prof. Ravi Kumar	Design and Fabrication of Solar Operated Convective Fruit Dryer			
3.A3	S Srevarun	S Srevarun 1NH16ME093	Abhishek 1NH16ME003	Ganesh S 1NH16ME028	Nithish N 1NH16ME068	Prof. Sudarshan	Design and fabrication of semi automatic vertical axis wind turbine			

				-			
							for power
							generation
							and
							irrigation.
							Design &
							Development
4 A6	Abdul	Abdul Sameer	Vinaya B	Manoj M	Venugopal P	Prof.	of automated
	Sameer	1NH16ME002	1NH17ME434	1NH17ME422	1NH17ME432	Nagabhushan	multipurpose
							agriculture
							wheel Hoe
							Development
5.A13 Kiran Kumar E		Kiran Kumar E 1NH17ME420	Mohit Kumar Mishra 1NH16ME062	Abhishek S Pandey 1NH16ME004	Fairoz M 1NH17ME413	Prof. Puneeth	of water
	Kiran Kumar E						drone for
							removal of
							algae and
							waste from
							lakes
		ur Shashidhar 1NH16ME102	Nived 1NH16ME069	Rajesh B 1NH16ME088	Seele Ayappa 1NH16ME097	Prof. Chetan Kumar D S	Design and
	Shashidhar						fabrication of
6.B2 Shashid							plastic
							mulching
							machine for
							agriculture
							application
						Dr MC	Design and
						Dr. M S	
7.07	P. Sai Sri Raj	P. Sai Sri Raj 1NH16ME737	Raghav V Rao1NH16ME739	AppuR.Krishnan 1NH16ME014	Bommu Mahitesh Gowda 1NH15ME708	Dracad	Sulai
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						a Dr Conal K	andurance
							drong
				I		l	uione

Sl. No	Batches List	STUDENTS & USN	GUIDES	MENTOR	TITLE
1.	IIOT-1	Faisal Ahmed 1NH16ME026	Prof. Lakshminarasimha	Mr.Girish D.C	Design & Development Smart Garbage Collection System(SGCS)
2.	IIOT-4	NishantJha 1NH16ME732	Dr M S Ganesha Prasad	Mr.Yesh Raj	PDM for Wind Turbine Rotor
3.	IIOT-5	Shashank Ravishankar 1NH16ME749	Prof. Lakshminarasimha	Dr.T.C.Ramesh	Eagle on Mind Sphere
4.	IIOT-6	A Satish Kumar A 1NH16ME704	Prof. Lakshminarasimha	Mr.Girish D.C	Design and Development Smart Power System for Buildings
5.	IIOT-10	Vijay Kumar 1NH16ME123	Dr M S Ganesha Prasad	Mr.Yesh Raj	PDM for car Brake System

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	PREPARED BY	VERIFIED BY	APPROVED BY	
Name of the Faculty	Prof. Santhosh A N	Prof. Chetan Kumar D S	Dr. M S Ganesha Prasad	-
Signature	W.	(E) 245	run .	



Fig 21:SAMPLE OF LAB MANUEL OUTER COVER PAG

## DEPARTMENT OF MECHANICAL ENGINEERING

# **CRITERION 7**

## **CONTINOUS IMPROVEMENT**

## 7.1 Actions taken based on the results of evaluation of each of the POs &PSOs(30)

Identify the areas of weaknesses in the program based on the analysis of evaluation of POs & PSOs attainment levels. Measures identified and implemented to improve POs & PSOs attainment levels for the assessment years.

Actions to be written as per table in 3.3.2.

#### Examples of analysis and proposed action

**Sample 1**-Course outcomes for a laboratory course did not measure up, as some of the lab equipment did not have the capability to do the needful (e.g., single trace oscilloscopes available where dual trace would have been better, or, non-availability of some important support software etc.).

Action taken-Equipment up-gradation was carried out (with details of up gradation)

**Sample 2-**In a course on EM theory student performance has been consistently low with respect to some COs. Analysis of answer scripts and discussions with the students revealed that this could be attributed to a weaker course on vector calculus.

Action taken-revision of the course syllabus was carried out (instructor/text book changed too has been changed, when deemed appropriate).

**Sample 3**-In a course that had group projects it was determined that the expectations from this course about PO3 (like: "to meet the specifications with consideration for the public health and safety, and the cultural, societal, and environmental considerations") were not realized as there were no discussions about these aspects while planning and execution of the project.

Action taken-Project planning, monitoring and evaluation included in rubrics related to these aspects.
# POs Attainment Levels and Actions for improvement – CAYm1(Batch 2015-2019)

POs	Target	Attainment	Observation	
	Level	Level		
PO1: Engi	POI: Engineering Knowledge: Apply the knowledge of mathematics,			
science, en	gineerir	ig fundamenta	als, and an engineering specialization to	
the solutior	n of con	plex engineer	ring problems.	
PO1	2.35	2.52	Target Achieved. Following courses were	
			identified which didn't meet the	
			attainment target : MEE331/431,	
			MEE351/451, MEE332/432, MEE342/442,	
			MEE352/452,MEE361/461 MEE362/462,	
			16H88322/422,16H88321/421,MEE01,ME	
			E05,NIEE04,NIEE054,NIEE72, NIEE731, MEE754 MEE755 MEE92 MEE94	
			MEE/54, MEE/55, MEE62, MEE64, MEE912	
			WIELOIS	
Most of th	ie cour	ses that miss	ed the attainment were from Thermal	
and Design	1 catego	orv.		
Action 1:	More c	ritical thinki	ng problems were incorporated in the	
assignmen	ts and	SEE for cour	rses like MEE 332, MEE61, MEE72 to	
deepen the	subiec	t knowledge	of the students.	
PO2:Prob	lem ana	ilysis: Identii	y, formulate, review research literature,	
and analyz	ze com	plex enginee	ering problems reaching substantiated	
conclusion	s using	first principle	es of mathematics, natural sciences, and	
engineering	g scienc	es.		
PO2	2.36	2.53	Target Achieved. Following courses were	
			identified which didn't meet the	
			attainment target : MEE351/451,	
			MEE361/461, MEE332/432,	
			MEE342/442, MEE352/452,	
			WIEE302/402, I0H88322/422,	
			101105021/421, MILEOI, MILEO4, MEE55 MEE61 MEE64 MEE654	
			WIELSS,WIELOI,WIELO4, WIELO54, MEE71 MEE721 MEE754 MEE755	
			NIEE/1, NIEE/51, NIEE/54, NIEE/55	

Courses which missed the attainment are mostly Design and Manufacturing category. Action 1: Students were encouraged to take up more Design and Manufacturing oriented problem statements for their projects and mini projects. A few of the projects are mentioned below:

- a) Fabrication Of Nano Filtered Based Exhaust System To Reduce Emission In Two Wheelers.
- b) Design And Fabrication Of Solar Powered Low Altitude Short Endurance Drone.

**PO3:Design/development of solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

	-
identified which didn't m	eet the
attainment target : MEE	361/461,
MEE332/432, 16HSS322/4	422,
16HSS321/421, MEE51, N	<b>MEE52, MEE55,</b>
MEE61, MEE63,	
MEE64,MEE654,MEE71	, MEE731,
MEE813	

Most of the courses that missed the attainment belong to Thermal and Design Category. Hands on workshops have been conducted for students so that they are enable to use modern days analysis tools to provide reliable engineering solutions.

Action 1: Hands on Workshop on 'CFD Analysis Training Certification' from 16/12/19 to 20/12/19 for 5th Semester students by Skyfi Labs.

PO4:Conduct investigations of complex problems: Use researchbased knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

PO4	2.35	2.63	Target Achieved. Following courses were identified which didn't meet the attainment target : 16HSS322/422, 16HSS321/421, MEE64, MEE654, MEE57, MEE71, MEE731, MEE813
			MEE813

Mini project and manufacturing courses missed the attainment.

Action 1 1: Students were encouraged to take up more challenging problems for mini projects and follow up with the results in the final year projects. Few of the mini projects titles are listed below:

- a) Design and Fabrication of Prototype Kitchen Compost Bin.
- b) Design and Fabrication of Road Power Generation using Sliding Pairs.

**PO5:Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

PO5	2.45	2.47	Target Achieved. Following
			courses were identified which
			didn't meet the attainment
			target : MEE342/442,
			16HSS322/422, 16HSS321/421,
			MEE64, MEE654,
			MEE57,MEE72, MEE755,
			MEE814, MEE82, MEE84,
			MEE813

Mini project, Internship and Design subjects missed the attainment. Hands on workshop were conducted for modern days analysis tools for students so that they get a technical edge while arriving at optimal solutions for their mini projects and internships.

Action 1: Hands on Workshop on 'CFD Analysis Training Certification' from 16/12/19 to 20/12/19 for 5<sup>th</sup>Semester students by Skyfi Labs.

Action 2: Hands on Workshop on 'Unigraphics NX Certification Training' from 16/12/19 to 20/12/19 for 3<sup>rd</sup>semester students by Va-Tech 2.

Action 3: Hands on Workshop on 'Machine Learning with Python' from 15/10/19 to 16/10/19 by Vinay M Haritsa, Vtricks Technologies.

**PO6:The Engineer and Society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

PO6	2.08	2.53	Target Achieved.
			Following courses
			were identified which
			didn't meet the
			attainment target :
			MEE351/451,
			MEE361/461,
			16HSS322/422,
			16HSS321/421,MEE52
			, MEE55, MEE61,
			MEE57,MEE72,ME82

Mini projects, Internship and a few design and manufacturing subjects missed the attainment.

Action 1: Students were made aware and encouraged to respect the ISO standards while completing their mini projects and internships.

**PO7:Environment and sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO7	2.20	2.65	Target Achieved.
			Following courses
			were identified which
			didn't meet the
			attainment target :
			16HSS322/Design
			422,16HSS321/421,ME
			E52, MEE61,
			<b>MEE72,MEE731</b>

Thermal courses missed the attainment.

Action 1: Students were encouraged to take up projects which brings stability and sustainability to current energy scenario. A few of the projects are listed below:

- a) Minimal Powered Tube Bending Machine for Coolant Pipes and green house heat radiators.
- b) Design and Development of Thermo-Electric Power Generation in vehicle Exhaust.
- c) Design and Development of an Innovative Eco Friendly component to reduce harmful gases from exhaust manifold of an Bio Diesel IC Engine.

## d) Machine Learning based energy source management system for series-parallel full hybrid electric vehicle using Karanja (MillettiaPinnata)Biodiesel

**PO8:Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO8	2.15	2.64	Target Achieved.
			Following courses
			were identified which
			didn't meet the
			attainment target :
			16HSS322/422,16HSS
			321/421

Action 1: Students are registered with the professional bodies like ISTE.

Action 2: Mandatory course like 'Life skills for Engineers' are a part of the curriculum.

Action 3: Blood donation camp was organized on 08/08/2019 in collaboration with Lions Blood Banks and NIMHANS.

Action 4: Stem cell donation camp was organized on 13/09/2019 in collaboration with Stem Cell Registry India.

PO9:Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO9	2.53	2.56	Target achieved.
			Following courses
			were identified which
			didn't meet the
			attainment target :
			16HSS322/422,16HSS
			321/421,MEE53,
			MEE561, MEE654,
			<b>MEE813, MEE83</b>

**Actions Taken:** 

Action 1: Mini Projects have been implemented for 2<sup>nd</sup> and 3<sup>rd</sup> year students.

Action 2: Internship has been made mandatory.

Action 3: Projects and Mini projects pertaining to the latest problems were analysed with frequent interactions from industrial experts and to distribute the work within the team towards its execution through academic projects.

Action 4: Guest Lecture conducted on 'KSCST Projects and Project Management' on 23/08/2019 by Dr. S G SreekanteshwaraSwamy, KSCST

**P10:** Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

210	2.05	2.70	Target Achieved. Following courses were identified which didn't meet the attainment target :MEE361/461,16HSS3 22/422, 16HSS321/421, MEE654, MEE84

Action 1:Essential English (19HSS171) and Professional Communication (19HSS271) and mandatory courses that are taken by the students.

Action 2: Guest Lecture conducted on 'Power Plans for your success' on 19/09/19 by Dr. Vasantha Lakshmi, IIT Kharagpur.

**P11:Project management and finance:** Demonstrate knowledge and understanding of the Engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

P11	2.39	2.54	Target Achieved. Following courses were identified which didn't meet the attainment target 16HSS322/422,16HSS 321/421,MEE55, MEE82,MEE83
Action 1: Students we effective engineering from Govt. agencies.	ere encouraș solutions foi	ged to come up r their projects	with more cost and obtain funds
Action 2: All the stud funding.	ents have to	mandatorily a	pply for KSCST
Action 3: Guest Lectu Management' on 23/0 KSCST	ire conducto )8/2019 by E	ed on 'KSCST ] Dr. S G Sreekan	Projects and Project teshwaraSwamy,
P12:Life-long learnin	g: Recogniz	e the need for, a	nd have the
preparation and ability the broadest context of	to engage in technologic	independent an al change.	d life-long learning in
P12	2.18	2.51	Target Achieved.
			Following courses
			were identified which
			didn't meet the
			attainment target : MFF331/431
			MEE351/451.
			MEE361/461,
			MEE332/432,
			MEE342/442,
			16HSS322/422,
			16HSS321/421,
			MEE561,MEE63,ME
			E64,MEE654,MEE82, MEE83

Action 1: Students are encouraged to pursue higher studies in premiere institutions of the world to enhance their domain knowledge and skills. A few cases have been listed below:

- a) AdityaChebbi (1NH15ME701) is pursuing higher studies in CranfieldUniversity bearing reference number 343520.
- b) Kushal J (1NH15ME723) is studying in University of Glasgow bearing reference number2550908.

PSOs Attainment Levels and Actions for improvement – CAYm1 (Batch 2015-2019)

PSOs	Target	Attainment	Observation
<b>PSO1:</b> Specify, fabrica	ate, test and ope	rate various mad	chines along with
essential documentation	ons.		
PSO1	2.27	2.28	Target Achieved. Following courses were identified which didn't meet the attainment target : MEE361/461, MEE332/432, MEE55, MEE61, MEE55, MEE61, MEE57, MEE654, MEE57, MEE754, MEE755, MEE82, MEE813

Mini project, Internship and a few Manufacturing courses missed the attainment.

Action 1: Students were encouraged to take up internships in reputed companies where they can have exposure to trending manufacturing and fabrication process and methodically document the same. A few examples are listed below:

- a) Ganesh S did internship on 'Study on Production and manufacturing of spark plug' at Bosch Limited, Naganathapura from 20/01/2020 to 28/02/2020.
- b) VirajDobariya did internship on 'Thermal Insulation WithLignocellulosic Fragments (Wheat Straw)' at University Of Le Havre France from 12/09/2019 to 01/12/2019.
- c) Students visit foreign universities for internship and projects as a part of the 'Study Abroad Program'.

**PSO2:** Analyse, design, develop and implement the concepts of mechanical systems and processes towards product development.

PSO2	2.32	2.17	Target not
			achieved. Following
			courses were
			identified which
			didn't meet the
			attainment target :
			MEE331/431,
			MEE351/451,
			MEE361/461,
			MEE332/432,
			MEE342/442,
			MEE362/462,
			MEE52, MEE53,
			MEE55, MEE61,
			MEE63, MEE64,
			MEE654, MEE57,
			MEE71, MEE72,
			MEE731,MEE754
			MEE82,MEE84.

Mostly Thermal and Design courses missed the attainment. A considerable number of Guest lectures and Hands on Workshops were conducted to address the problem.

Action 1: Guest Lecture conducted on 'Emerging Automotive Technology' on 14/09/2019 by Mr. P Rajendran , Nandi Toyota Bangalore.

Action 2: Guest lecture conducted on 'Mechatronics and Microcontrollers' on 14/09/2019 by Mr. Gopalakhichenan G, IBM India Pvt. Ltd.

Action 3: Guest Lecture conducted on 'Power Plans for your success' on 19/09/19 by Dr. Vasantha Lakshmi, IIT Kharagpur.

Action 4: Guest Lecture conducted on 'Product Development and Processing using DELMIA' on 12/03/2020 by Kumar Arpan, EDS Technologies.

Action 5: Participation in 'Shell Eco Marathon' on 19/08/2019 which is considered as world's leading student engineering competition on design, build and operate energy efficient electric vehicles.

Action 6: Hands on Workshop on 'CFD Analysis Training Certification' from 16/12/19 to 20/12/19 for 5<sup>th</sup>Semester students by Skyfi Labs.

Action 7: Hands on Workshop on 'Unigraphics NX Certification Training' from 16/12/19 to 20/12/19 for 3<sup>rd</sup>semester students by Va-Tech 2.

Action 8: Hands on Workshop on 'Machine Learning with Python' from 15/10/19 to 16/10/19 by Vinay M Harshita,Vtricks Technologies.

# 7.2 Academic Audit and actions taken thereof during the period of Assessment(15)

(Academic Audit system/process and its implementation in relation to Continuous Improvement)

The Academic audits are conducted as per ISO standards and evaluated. The process consists of internal audits and external audits. Audits are conducted for faculties, Laboratories, and departmental activities.

#### Academic auditing procedure:

At institute level there is a committee for academic audit and to recommend necessary actions on various shortfalls.

#### Roles and responsibilities:

i) Verifying number of students admitted as per the rolls list in all sections of all academic year

ii) Verifying class timetables as per the schedule.

iii) Preparing schedule for conducting meetings with all counselors for updating of database.

iv) Verifying the course files and subject notes.

v) Verifying the quality of internal question paper

vi) Verifying the quality of students projects (Mini & Major)

viii)Tacking action on result analysis.



Academic audit and actions taken are carried out as per the flow chart given below:

#### **1.** Course file evaluation

**Faculty audit**: The following records of the faculty members are verified during the internal academic audits.

- Calendar of events
- Subject Allotment based on competency skills
- Time table
- Syllabus & Lesson Plan
- Lesson Module (hand written notes, PPTs, printed notes etc)
- Attendance register (Contineo hardcopy)
- Coaching class conducted records (student list, attendance, plan, numerical sheets, extra assignment etc.,)
- Quiz & Assignment Questions (with CO, PO, RBT levels, dates)
- CIE Question Paper and Detailed Scheme of Evaluation
- CIE Marks (CIE + Assignment/quiz/self study/extra-curricular)
- CIE Result analysis
- CIECAPA
- Counseling reports (monthly reports from continuo)
- Previous year SEE Question papers
- Special class records (if conducted)
- Expert Lecture details (If any) (Profile, date planned, report,

photographs, feedbacks etc.)

- All rubrics
- Teacher appraisal/feedback
- Exam related work

#### 2. Lectures/ Lab evaluation:

The academic audit committee during their random observation of the lectures/lab check delivery of course material as per the lesson plan, teaching aids used, communication skill and classroom management etc. parameters to ensure the teaching methods of benchmarked standards are being used throughout the institute. Feedback is communicated to the faculty member.

#### 3. Faculty development program (FDP):

A faculty member has to undergo faculty development program. The FDP to improve the communication skills and to know the methods of teaching-learning are carried out at the institute level itself. The technical component in the teaching are improvised with the help of faculty members attending workshops, expert lectures etc. either organized at our institute or at other institutions.

#### 4. Review:

Review of the faculty member is taken at the end of the semester again to compare the levels what was at the beginning and after the various feedbacks and training received.

#### Action taken by the faculty members:

i) Faculty members incorporate changes suggested by the academic committee, if any gaps are found, to ensure quality deliverables.

- ii) Faculty members have to match the pace of their deliverables as per the students' requirements as well as they have to schedule the lecture plans in such a way that the syllabus is completed on time. To achieve this, they can have extra classes to cope up with the syllabus.
- iii) Regular analysis of the results of internal assessment for all subjects is done and concerned faculties are guided to take necessary actions. Remedial classes are scheduled in reference to academic progress of the

student.

- iv) The academic audit is carried out at the beginning of the semester as soon as the faculty members are ready with their course files.
- v) The academic observations are carried out considering two criteria feedback from students (requested to the authorities) and randomized observation.

In addition the following parameters are audited with respect to each department.

- 1. Teaching, Learning Process:
  - a. Counseling & Mentoring
  - b. Co-curricular activities : Seminar/Conference/workshop/Guest Lecture conducted and attended; Industrial Visit
  - c. Research Activities : Publications; Patents/Grant proposal
  - d. Value Added Program
- 2. Training and Placement

**Table 7.1: Details of Departmental Audits** 

Date	Criteria for Audit	Auditors
23-01- 2020	Audit observation on general and infrastructural requirements	Mr. Surya Prakash-Registrar Dr.Viswanath B - ME Dept Mr. Anil Kumar Hangal -Head Dr. Hanuman Kumar - CES DeptMsSridevi-HR Executive
03-07- 2019	Audit Schedule for laboratories	Mr. Anil Kumar Hangal -Head
27-10- 2018	Google Scholar Entries Audit	Dr. S Sujitha, Dr. Nisha KCR, Dr. S Mohan Kumar
02-01- 2020	Audit Schedule for laboratories	Mr. Anil Kumar Hangal -Head
27-08- 2019	Academic Audit	Mr. Anil Kumar Hangal -Head

#### The sample of audit report is shown below:

AUDIT OBSERVATIONS ON GENERAL AND INFRASTRUCTURAL REQUIREMENTS
--

AUDIT CHECK LIST AS PER CRITERION-6, FACILITIES AND TECHENICAL SUPPORT FOR NBA TIRE-I CERTIFICATION.

DEPARTMENT: Mechanical Engineering. Date:23-01-2020 SI Audit Parameter Available/ Audit Observation Compliance Audit No Not available 01 6.1 Adequate and well equipped Laboratories and Technical man power. Available As per Table B.6.1 criterion 6 02 6.2 Laboratory maintenance and overall ambience. Lab Maintenance procedure to be written Not Available Self explanatory. and documented. 03 6.3 Safety measures in laboratories. As per Table B.6.3 criterion 6 Available 1 04 6.4 Project laboratory Mention facilities and Project Labs not available, existing labs are Not Available utilization used for project labs. 05 6.5 Equipments/ Instruments Master List of equipments and instruments which need calibration with frequency of Calibration status. calibration, date of calibration and next due date of calibration is to be maintained. Available

#### Fig 7.1: Sample of Internal Audit Report

06	6.6 Laboratory manuals with updated dates.	Available	<ol> <li>Rubrics need to be revised (The fail marks are noted as less than 9).</li> <li>Need to include Academic year/sem on front page (Cover page).</li> <li>All Lab Manuals to be undered</li> </ol>	
07	6.7 Industry laboratories (COE) Vision/Mission/ Software availability.	Available	-	
08	6.8 Internal/ External Training of laboratory staff details.	Available	Supporting documents to be made ready and submitted .Training needs to be identified and more technical training to be attended	
09	6.9 Laboratories Results/Testing/Testing assistance extended to outside institutes and industries.	Available	Assistance/ Consultancy extended to outside industries, list to be prepared and filed.	
10	7.0 Budget files for the academic year.	Available	Budget plan to be maintained in a standard format.	
11	8.0 Class rooms & Laboratories details with Teaching & learning facilities. As per table B.8.0	Available	The list needs to be up dated as per the present status.	
12	9.0 List of Teaching and non - teaching staff with Personal files	Available	Personal files of all the department staff will be given by HR Dept during NBA audit.	

Fig 7.2: Sample of Internal Audit Report

General Observations

- a. Notice boards of bigger size to be used to display all the information where ever required.
- b. Vision /Mission/Quality policy boards to be displayed in the entire laboratory in a prominent location.
  - c. Equipment instruction manuals to be available for all major equipments.
- d. Stock Register Issue and Receipt of lab consumables to be maintained item wise / Lab.
- e. A machine for Manufacturing Lab needs painting. f. Computer lab stocks register to be re-written (CAED Lab).
- g. All CIE blue books older than three years to be discarded.

h. Office stationary items, stock register with receipts, issue and balance stock for each items to be maintained.

Audit Committee:

Mr. Surya Prakash - Registrar Dr. Viswanath B - ME Dept

Mr. Anil Kumar Hangal - Head

Dr. Hanuman Kumar - CSE Dept

Ms Sridevi - HR Executive

Fig 7.3: Sample of Internal Audit Report

#### Tutorial classes to address student questions: size of tutorial classes, hours per subject given in the timetable

- i) Tutorial classes are mainly conducted to improve the standards of average and below average students:
- ii) Provision of tutorial classes in timetable: YES

iii)Number of tutorial classes per subject per week (for difficult subjects):1

iv)Number of students per tutorial class: As per the list of slow learners provided by the class coordinator.

#### **STUDENT FEEDBACK SYSTEM:**

i)In every semester students feedback is collected once. Feedback analysis and corrective measures taken, if any : HOD given guidelines to improve quality of teaching and easy methods to convey the subjects.

ii) Feedback collected for all courses :YES

#### Specifying the feedback collection process:

i)Feedback mechanism is a well organized system in the college. The system of feedback collection is online.

- ii) Collected feedback is scrutinized by the head of department.
- iii) The feedback is quantified.

iv) All the parameters mentioned in the feedback form will be analyzed.v) Ability of teaching with respect to each item and comprehensive ability of the teachers will be analyzed.

vi) All the comments written by the students in the feedback system will be communicated to the respective faculty members along with their feedback levels to know their strengths and weaknesses and to enhance their teaching skills.

SR. No.	Name of the faculty	CLASS	No of Students	Subjects	Q 1	Q 2	Q 3	Q 4	Q 5	Q 6	Q 7	Q 8	Q 9	Q 10	Q 11	Q 12	Q 13	Q 14	Q 15	Q 16	Q 17	Q 18	Arg.
1		FY SEM II SEC R	45	19MEE23	3.91	3.84	3.93	4.02	4.02	3.84	4	3.89	4.16	3.82	4.11	4.05	4.09	3.84	4.04	3.95	4.03	3.93	3.97
			rerall arg		3.9	3.8	3.9	4	4	3.8	4	3.9	4.2	3.8	4.1	4.1	4.1	3.8	4	4	4.1	3.9	4
Q1	Clarity in explaining the subject																						
Q 2	Subject explained was easy to u	inderstand.																					
Q 3	Content quality is relevant and u	useful.																					
Q.4	Faculty answers to your queries	questions.																					
Q 5	Coverage of topic/subject is on I	time.																					
Q.6	The concepts were explained w	ith examples.																					
0.7	Faculty preparation for the class	s.																					
Q8	Faculty guidance for preparatio	n of seminar, confere	ence and exam.																				
Q3	Punctuality of the faculty for the	class.																					
Q 10	Communicates distinctly and eff	ectively.																					
Q 11	Treats students with respect an	d courtesy.																					
Q 12	Control of the classroom by facu	lty.																					
Q 13	Relevance of assignments to the	e subject.																					
Q 14	Overall satisfaction.																						
Q 15	Discussion of any interesting topic beyond the syllabus but relevant to the field.																						
Q 16	Usefulness of the question papers of internal tests in your preparation for the examination.																						
Q 17	Helpfulness of the online course	material(question b	ank, etc.) and assig	Inmentsfor	jou to	unders	stand a	ind pro	pare a														
Q 18	Accessibility availability after th	e class hours in the	college.																				

Fig 7.4: Sample of students' feedback form

### 7.3 Improvement in Placement, Higher Studies and Entrepreneurship(10)

Assessment is based on improvement in:

- *Placement: number, quality placement, core industry, pay packages etc.*
- *Higher studies: performance in GATE, GRE, GMAT, CAT etc., and admissions in premier Institutions*
- Entrepreneurs

ltem	2015-19	2014-18	2013-17
Total number	215	190	192
of final year			
students (N)			
No. of students	88	69	67
placed in in			
companies or			
Govt. Sector (x)			
No. of	53	57	61
students			
admitted to			
higher			
studies (y)			
No. of students	5	4	2
turned			
entrepreneur in			
engineering/tech			
nology			
( <b>z</b> )			
(x+y+z)	146	130	130
Placement	P1=0.679	P2= 0.684	P3=0.677
Index:			
(x+y+z)/N			
Average		0.68	
Placement=			
(P1+P2+P3)/3			

## Table 7.2: Placement, Higher Studies andEntrepreneurship details



Fig 7.5 : Placement Statistics



Fig 7.6 : Higher Studies Statistics



Fig 7.7 : Entrepreneur Statistics



Fig 7.8: Placement package details 2018-19



Fig 7.9: Placement package details 2017-18



Fig 7.10: Placement package details 2016-17

Year	% of IT placement	% of Core placement	% of placement above 3L p.a	Highest Package
2018-19	46/88 = 52.28	42/88 = 47.72	75	607000
2017-18	32/69 = 46.37	37/69 = 53.62	32	350000
2016-17	51/67 = 76.12	16/67 = 23.88	37	436600

#### Table 7.3:Quality of Placement



Fig 7.11: Placement analysis 2018-19



Fig 7.12: Placement analysis2017-18



Fig 7.13: Placement analysis2016-17



Assessment is based on improvement in terms of ranks/score in qualifying state level/national level entrances tests, percentage marks in Physics, Chemistry and Mathematics in 12th Standard and percentage marks of the lateral entry students

Item		2019-20	2018-19	2017-18
National Level Entrance Examination (Name of the Entrance Examination)	No. of Students admitted	-	-	-
	Opening Score/Rank	-	-	-
	Closing Score/Rank	-	-	-
Karnataka Common Entrance Test-CET	No. of Students admitted	169	187	194
	Opening Score/Rank	8708	8515	9954
	Closing	45192	31483	22878

	Score/Rank			
Karnataka Diploma Common Entrance	No. of Students admitted	18	34	34
Test (DCET)	Opening Score/Rank	954	2547	338
	Closing Score/Rank	4194	13450	7311
Average CBSE/Any other Board Result of admitted students (Physics, Chemistry & Math)		68.14 %	70.72%	80.13%



Fig 7.14: CET opening rank



Fig 7.15: CET closing rank



Fig 7.16: DCET opening rank



Fig 7.17: DCET closing rank



Fig 7.18: Average PCM %

Serial Code & Link to the Item	Serial Code & Link to the Item				
	Institute Level Criteria				
8	First Year Academics	600-627			
9	Student Support Systems	628-791			
10	Governance, Institutional Support and Financial Resources	792-880			
PART C	Declaration by the Institution	881			
Annexure I	Program Outcomes(POs) & Program Specific Outcomes (PSOs)	882-883			

# DEPARTMENT OF MECHANICAL ENGINEERING

# **CRITERION 8**

# **FIRST YEAR ACADEMICS**



Autonomous College Permanently affiliated to VTU, Approved by AICTE & UGC New Horizon Knowledge Park, Ring Road, Bengaluru, Karnataka 560103

> Tel: +91-80-6629 7777, Fax: +91-80-2844 0770, Email:principal@newhorizonindia.edu www.newhorizonindia.edu



**Criterion - 8** 





Autonomous College Permanently affiliated to VTU, Approved by AICTE & UGC New Horizon Knowledge Park, Ring Road, Bengaluru, Karnataka 560103

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> > **Criterion - 8**



## **CRITERION 8**

**First Year Academics** 

50

#### 8.1: First Year Student-Faculty Ratio (FYSFR, 5)

Data for first year courses to calculate the FYSFR:

Year	Number of Students (Approved intake strength)	**Number of Faculty Members (Considering fractional load)	FYSR	* Assessment = (5x15) / FYSFR (Limited to max. 5)	
CAYm2 (2017-18)	1020	72	14	5	
CAYm1 (2018-19)	1080	76	14	5	
CAY (2019-20)	1200	82	15	5	
Average	1100	76	14	5	

*Table B.8.1.* 

#### **\*\*** All faculties are dedicated to first year only

#### 8.2 Qualification of Faculty Teaching First Year Common Courses(5)

Assessment of qualification = (5x + 3y)/RF, x = Number of Regular Faculty with Ph.D, y = Number of Regular Faculty with Post-graduate qualification, RF = Number of faculty members required as per SFR of 20:1, Faculty definition as defined in 5.1

Year	X	Y	RF	* Assessment of Faculty qualification (5x+3y) / RF
CAYm2(2017-18)	9	57	51	4
CAY m1(2018-19)	16	54	54	4
CAY (2019-20)	20	56	60	4
Average				4

*Table B.8.2.* 

## **8.3 First Year Academic Performance(10)**

	Mechanical Engineering					
Academic Performance	CAYm1	CAYm2	CAYm3			
Mean CGPA of all successful students (x)	7.27	7.77	7.88			
Total no. of successful students (y)	164	155	178			
Total students appeared in the examination (Z)	184	179	195			
$API = x^*(y/Z)$	6.48	6.73	7.19			
Average		6.8				

Academic Performance = ((Mean of  $1^{st}$  Year Grade Point Grade Point Average of all successful students on a 10 point scale) or (Mean of the percentage of marks in first year of all successful students/10)) x (number of successful students/number of students appeared in the examination)

Successful students are those who are permitted to proceed to the second year.

#### 8.4 Attainment of Course Outcome of First Year Courses

# **8.4.1** Describe the assessment processes used to gather the data upon which the evaluation of Course Outcomes of first year is done(5)

Assessment Tool Type	Assessment Tool Title	Tool Description
Direct	Continuous	This is used as an assessment tool to evaluate the
Assessment	Internal	attainment of course outcomes, through Assignments,
	Evaluation	Quizzes, Internal Assessment (Average of 3 Exams)
	(CIE)	which are conducted throughout the semester and
		designed in such a way that the evaluation of complete
		syllabus is covered. This is done for all courses of the
		semester.
	Laboratory Examinations	The performance in laboratory is evaluated through appropriate rubrics. The students are tested for their confidence in terms of design of a system and experimentation. Ability of the students to analyze and interpret the results of experiments is continuously evaluated by the faculty during laboratory classes. The strength of the students in using their skills and tools in the laboratory is also evaluated in external laboratory examinations.

	This tool examines at all cognitive levels the ability and
Semester End	understanding of the students with respect to the concepts
Examinations	taught and their applicability in solving complex
(SEE)	Engineering problems. The ability of the students to
	understand and apply knowledge of mathematics, science
	and engineering concepts in solving engineering problems
	is keenly evaluated.

### Table 8.4.1.a Tools used in measuring CO

CO Attainment	Weightage	Assessment Tools	
Overall CO Attainment		Continuous Internal Evaluation CIE (50%)	
Direct Attainment	100%	Semester End Examinations (SEE) (50%)	

## Table 8.4.1.b Calculation of CO attainment

The individual COs of the courses is mapped with Correlation level and is being evaluated by prescribed assessment tools. The attainment of individual CO is calculated by assigning separate weightage to the continuous Internal Evaluation, Semester End examination, assignments and quizzes. The attainment of COs is compared with the target level. The CO is said to be attained if its attainment value is greater than or equal to target attainment level.

#### 8.4.1.1. Theory Course Evaluation

Assignments, Quizzes, Internal assessment test, semester end examinations are conducted and evaluated for (both theory and lab) integrated courses.

Assessment Tool	Maximum Marks	Marks Scaled to	Weightage
Assignments	15	15	
Quizzes	10	10	
Internal Assessment Exam (Avg of 3 Exams)	25	25	50%
Everyday Lab session (Each Expt. 10 marks)	10	10	
Lab Internal Exam	15	15	
Semester End Examination - Theory	100	50	50%
Semester End Examination - Lab	50	25	

The distribution of marks for theory courses (Sample) is as given in table below.

Table 8.4.1.1. Distribution of marks for theory & Lab courses evaluation.



The Process for Assessment and Attainment of COs is described in the flowchart as shown in Flow Chart

Fig 8.4.1. Process of assessment and attainment of CO

#### 8.4.2 Record the attainment of Course Outcomes of all First Year Courses (5)

Program shall have set attainment levels for all first year courses. (The attainment levels shall be set considering average performance levels in the institution level examination or any higher value set as target for the assessment years. Attainment level is to be measured in terms of student performance in internal assessments with respect the COs of a subject plus the performance in the institution level examination)

			Attainment	CAYm3	CAYm2	CAYm1
Juist			Level	2016-17	2017-18	2018-19
			0	less than 37% scored	less than 40% scored	less than 45%
				>=28	>=28	scored >=28
cs I			1	37% to 46% scored	40% to 49% scored	45% to 54%
ati				>=28	>=28	scored >=28
nem			2	47% to 56% scored	50% to 59% scored	55% to 64%
lath				>=28	>=28	scored >=28
M			3	57% and more scored	60% and more scored	65% and more
				>=28	>=28	scored >=28
			0	less than 45% scored	less than 45% scored	less than 45%
sics				>=34	>=38	scored >=28
hy	I		1	45% to54% scored	45% to54% scored	45% to54%
ы Б				>=34	>=38	scored >=28
erir	erin		2	55% to 64% scored	55% to 64% scored	55% to 64%
ine				>=34	>=38	scored >=28
lng	)		3	65% and more scored	65% and more scored	65% and more
H				>=34	>=38	scored >=28
			0	less than 40%	less than 42%	less than 44%
vil				scored>=23	scored>=25	scored>=25
Ċ	ng		1	40% to 49%	42% to 51%	44% to 53%
s of	eeri			scored>=23	scored>=25	scored>=25
ente	gin	ŕ	2	50% to 59%	52% to 61%	54% to 63%
em	En			scored>=23	scored>=25	scored>=25
Ξ			3	60% and more	62% and more	64% and more
				scored>=23	scored>=25	scored>=25
		ing	0	less than 40% scored	less than 40% scored	less than 40%
	I			>=34	>=36	scored >=25
ts	nice		1	40% to49% scored	40% to49% scored	40% to 49%
nen	thai	eer		>=34	>=36	scored >=25
len	Aec	gin	2	50% to 59% scored	50% to 59% scored	50% to 59%
Ξ	f N	En		>=34	>=36	scored >=25
	0		3	60% and more scored	60% and more scored	60% and more
				>=34	>=36	scored >=25
			0	less than 35% scored	less than 45% scored	less than 50%
al				>=21	>=23	scored >=25
lectrica	gineering		1	35% to44% scored	45% to54% scored	50% to 59%
				>=21	>=23	scored >=25
сE			2	45% to 54% scored	55% to 64% scored	60% to 69%
asi	En			>=21	>=23	scored >=25
B			3	55% and more scored	65% and more scored	70% and more
				>=21	>=23	scored >=25

Attainment Levels: Internal Assessment
ab	0			less than 50%
L.				scored $>=15$
sic	1			50% to59%
Phy		Included with Theory	Included with Theory	scored $>=15$
l gu	2	as it is an integrated	as it is an integrated	60% to 69%
eri		subject	subject	scored $>=15$
jine	3	-		70% and more
Bug				scored $>=15$
	0	No Lab Course	No Lab Course	less than 40%
_ q				scored $>=15$
'ica La	1	-		40% to49%
ectr ing				scored $>=15$
Eleer	2			50% to 59%
asic igin				scored $>=15$
En Bi	3			60% and more
				scored >=15
	0	less than 37% scored	less than 40% scored	less than 45%
н		>=28	>=28	scored >=28
latics I	1	37% to 46% scored	40% to 49% scored	45% to 54%
		>=28	>=28	scored >=28
nen	2	47% to 56% scored	50% to 59% scored	55% to 64%
Iatl		>=28	>=28	scored >=28
2	3	57% and more scored	60% and more scored	65% and more
		>=28	>=28	scored >=28
ry	0	less than 45% scored	less than 45% scored	less than 45%
nist		>=34	>=38	scored >=28
hen	1	45% to54% scored	45% to54% scored	45% to54%
		>=34	>=38	scored >=28
ring	2	55% to 64% scored	55% to 64% scored	55% to 64%
nee		>=34	>=38	scored $>=28$
ngi	3	65% and more scored	65% and more scored	65% and more
Б Д		>=34	>=38	scored $>=28$
C	0	less than 40% scored	less than 40% scored	less than 45%
to ith		>=34	>=38	scored >=38
	1	40% to49% scored	40% to49% scored	45% to54%
ling ning		>=34	>=38	scored >=38
nm	2	50% to 59% scored	50% to 59% scored	55% to 64%
ntr gra		>=34	>=38	scored >=38
I Pro	3	60% and more scored	60% and more scored	65% and more
H		>=34	>=38	scored >=38

			0	less than 10%	less than 40%	less than 10%
-			0	corred > -25	corrad = -27	cosrad > -28
ring		scoreu>=25	scoreu>=27	scoreu>=20		
ieer			1	400% to $400%$	400% to $400%$	400/ to $400/$
lgin			1	40% 10 49%	40% 10 49%	40% 10 49%
En	ng			scored>=25	scored>=27	scored>=28
ded	awi		2	500% to 500%	500/ to 500/	500/ to $500/$
Ai	Dr		2	50% 10.59%	50% 10.59%	50% 10.59%
uter				scored>=25	scoreu>=27	scored>=28
Iduu			3	60% and more	60% and more	60% and more
č				scored>=25	scored>=27	scored>=28
			0	less than 30% scored	less than 30% scored	less than 30%
			0			scored $>-30$
S			1	20% to $30%$ scored	2-27	30% to $30%$
oni			1	-28	-20	50% = 10.59%
etr			2	2-20	40% to $40%$ soored	40% to $40%$
E			2	-28	-20	40% 1049%
ısic			3	50% and more scored	50% and more scored	50% and more
B			5			scored $>-30$
				2-20	//	scored >=30
<b>7</b> \			0			less than 45%
р ()			1			scored $>=13$
wit]				1	-	
ng l	•			Included with Theory	Included with Theory	scored $>=13$
imi	lał		2	as it is an integrated	as it is an integrated	55% to 64%
ram				subject	subject	scored >=13
lg0.			3	-		65% and more
Ρ						scored >=13
ry			0			less than 50%
nist						scored >=15
nen			1	Included with Theory	Included with Theory	50% to59%
C	ą			included with Theory	included with Theory	scored >=15
ing	$\mathbf{L}^{2}$		2	as it is all integrated	as it is all integrated	60% to 69%
ieer				subject	subject	scored >=15
ngin			3			70% and more
En						scored $>=15$
		u	0	less than 30% scored	less than 32% scored	less than 34%
/ S	nal	atio		>=25	>=13	scored >=13
nes	ssio	nic	1	30% to 39% scored	32% to 41% scored	34% to 43%
usi	ofe	nu		>=25	>=13	scored >=13
B	Pro	om	2	40% to 49% scored	42% to 51% scored	44% to 53%
		Ú		>=25	>=13	scored >=13

	3	50% and more scored	52% and more scored	54% and more
		>=25	>=13	scored >=13
ce	0	less than 40%	less than 44%	Course removed
ien		scored>=25	scored>=30	and included in
Scless	1	40% to 49%	45% to 54%	higher semester
ntal ren		scored>=25	scored>=30	
ner wa	2	50% to 59%	55% to 64%	-
oni & A		scored>=25	scored>=30	
wir 8	3	60% and more	65% and more	-
En		scored>=25	scored>=30	

#### Attainment Levels: External Assessment

Course	Attainment	CAYm3	CAYm2	CAYm1
	Level	2016-17	2017-18	2018-19
	0	less than 37% scored	less than 40% scored	less than 45%
		>=56	>=56	scored >=56
i si	1	37% to 46% scored	40% to 49% scored	45% to 54%
nat		>=56	>=56	scored >=56
hen	2	47% to 56% scored	50% to 59% scored	55% to 64%
lat		>=56	>=56	scored >=56
2	3	57% and more	60% and more scored	65% and more
		scored >=56	>=56	scored >=56
	0	less than 45% scored	less than 45% scored	less than 45%
sice		>=68	>=76	scored >=56
Phy	1	45% to54% scored	45% to54% scored	45% to54%
l gr		>=68	>=76	scored >=56
erin	2	55% to 64% scored	55% to 64% scored	55% to 64%
ine		>=68	>=76	scored >=56
<b>n</b> Bu	3	65% and more	65% and more scored	65% and more
		scored >=68	>=76	scored >=56
	0	less than 40%	less than 42%	less than 44%
b B B		scored>=46	scored>=50	scored>=50
eri				
line	1	40% to 49%	42% to 51%	44% to 53%
Bug		scored>=46	scored>=50	scored>=50
l liv				
Ci	2	50% to 59%	52% to 61%	54% to 63%
of		scored>=46	scored>=50	scored>=50
ants				
eme	3	60% and more	62% and more	64% and more
E		scored>=46	scored>=50	scored>=50

	0	less than 40% scored	less than 40% scored	less than 40%
		>=68	>=72	scored >=50
ical ng	1	40% to49% scored	40% to49% scored	40% to 49%
ents an		>=68	>=72	scored >=50
eme leck	2	50% to 59% scored	50% to 59% scored	50% to 59%
E		>=68	>=72	scored $>=50$
of	3	60% and more	60% and more scored	60% and more
		scored >=68	>=72	scored $>=50$
	0	less than 35% scored	less than 45% scored	less than 50%
L_		>=42	>=46	scored >=50
lica.	1	35% to44% scored	45% to54% scored	50% to 59%
erii		>=42	>=46	scored >=50
Ele	2	45% to 54% scored	55% to 64% scored	60% to 69%
Isic		>=42	>=46	scored >=50
] B	3	55% and more	65% and more scored	70% and more
		scored $>=42$	>=46	scored >=50
	0			less than 40%
_ 9				scored >=30
ica La	1	-		40% to49%
ectr ing				scored >=30
Ele	2	No Lab	No Lab	50% to 59%
gine				scored >=30
En Bi	3	-		60% and more
				scored >=30
ab	0		Included with Theory	less than 50%
s L			as it is an integrated	scored >=30
ysic	1		subject	50% to59%
Ph		Theory on it is on		scored >=30
gu	2	integrated subject		60% to 69%
eri		integrated subject		scored >=30
Sine	3			70% and more
Eng				scored >=30
	0	less than 37% scored	less than 40% scored	less than 45%
		>=56	>=56	scored >=56
Ξ				
	1	37% to 46% scored	40% to 49% scored	45% to 54%
mati		>=56	>=56	scored >=56
the	2	470/ 40 560/ 1	500/ to 500/ - 1	550/ += 640/
Ma	2	4/% to 50% scored	50% to 59% scored	
	2	>=30	>=>0	scored $\geq 56$
	3	5/% and more	60% and more scored	65% and more
		scored $\geq = 56$	>=36	scored $\geq 56$

٢y		0	less than 45% scored	less than 45% scored	less than 45%
iistı			>=68	>=76	scored >=56
nem		1	45% to54% scored	45% to54% scored	45% to 54%
C			>=68	>=76	scored >=56
ing		2	55% to 64% scored	55% to 64% scored	55% to 64%
leer			>=68	>=76	scored >=56
gin		3	65% and more	65% and more scored	65% and more
En			scored >=68	>=76	scored >=56
	()	0	less than 40% scored	less than 40% scored	less than 45%
0	th C		>=68	>=76	scored >=76
on t	wi	1	40% to49% scored	40% to49% scored	45% to54%
ctic	ing		>=68	>=76	scored >=76
npo	uu	2	50% to 59% scored	50% to 59% scored	55% to 64%
ntro	rai		>=68	>=76	scored >=76
Π	L06	3	60% and more	60% and more scored	65% and more
	<b>L</b>		scored >=68	>=76	scored >=76
	60	0	less than 40%	less than 40%	less than 40%
ed	win		scored>=50	scored>=54	scored>=56
Vide	Irav	1	40% to 49%	40% to 49%	40% to 49%
er /	р П		scored>=50	scored>=54	scored>=56
put	irin	2	50% to 59%	50% to 59%	50% to 59%
luc	nee		scored>=50	scored>=54	scored>=56
Ŭ	igu	3	60% and more	60% and more	60% and more
	Ŧ		scored>=50	scored>=54	scored>=56
		0	less than 30% scored	less than 30% scored	less than 30%
ics			>=56	>=58	scored $\geq =60$
iuo.		1	30% to 39% scored	30% to 39% scored	30% to 39%
ectr			>=56	>=58	scored $\geq =60$
E		2	40% to 49% scored	40% to 49% scored	40% to 49%
asic			>=56	>=58	scored $\geq =60$
B		3	50% and more	50% and more scored	50% and more
			scored >=56	>=58	scored $\geq =60$
C		0			less than 45%
th					scored $\geq =26$
i wi		1	Included with	Included with Theory	45% to54%
ing	de		Theory as it is an	as it is an integrated	scored $\geq =26$
mm	ls I	2	integrated subject	subject	55% to 64%
grai		j.	j	scored $\geq =26$	
rog		3			65% and more
					scored >=26
leel	g ab	0	Included with	Included with Theory	less than 50%
lgin	ing hen y L		Theory as it is an	as it is an integrated	scored $\geq =30$
En	D r.		us un un	subject	

1	integrated subject		50% to59%
			scored >=30
2			60% to 69%
			scored >=30
	_		
3			70% and more
			scored $\geq 30$
0	loss than 200/ soored	loss than 220/ soored	less than $240$
	less than 50% scored	less than 52% scored	less than 34%
	>=30	>=26	scored $\geq =26$
is line 1	30% to 39% scored	32% to 41% scored	34% to 43%
cat	>=50	>=26	scored >=26
Jan 2	40% to 49% scored	42% to 51% scored	44% to 53%
/ ss /	>=50	>=26	scored >=26
3 Con	50% and more	52% and more scored	54% and more
Bus	scored >=50	>=26	scored >=26
<u> </u>	less than 40%	less than 44%	Course
ien	scored>=50	scored>=60	removed and
l I Sc	40% to 49%	45% to 54%	included in
irer	scored>=50	scored>=60	higher
nei 2	50% to 59%	55% to 64%	semester
	scored>=50	scored>=60	
i i i i i i i i i i i i i i i i i i i	60% and more	65% and more	
E	scored>=50	scored>=60	

*Table 8.4.2.* 

#### 8.4.2.1 Calculations

Direct Attainment (DA) = Semester End Examination \* 0.5 + Continuous Internal Assessment \* 0.5 Total Attainment = DA

## **8.4.2.2** The following table shows the attainment of course outcome.

CO Att	ainment 2016-1	17

			Direct Att		
S. No.	Course Code	Course Name	C IE Evaluations	Semester End Exam	Overall CO attainment
1	15MAT11	Engineering Mathematics I	3	3	3
2	15PHY12/22	Engineering Physics	3	3	3
3	15MEE13/23	Elements of Mechanical Engineering	3	3	3

4	15CIV14/24	Elements of Civil	3	3	3
		Engineering		-	-
5	15EEE15/25	Basic Electrical	3	3	3
		Engineering	_	-	_
6	15HSS162	Business Communication	3	3	3
7	15MAT21	Engineering Mathematics	3	3	3
		II	-	-	-
8	15CHE12/22	Engineering Chemistry	3	3	3
9	15CSE13/23	Introduction to	3	3	3
-		Programming with C		-	
10	15MEE14/24	Computer Aided	3	3	3
		Engineering Drawing			· ·
11	15ECE15/25	Basic Electronics	3	3	3
12	16HSS161/261	Environmental Science and	3	3	3
		Awareness			

## Table 8.4.2.1a CO Attainment CAYm3 (2016-17)

#### CO Attainment 2017-18

			Direct Atta		
S. No.	Course Code	Course Name	C IE Evaluation	Semester End Exam	Overall CO attainment
1	MAT11	Engineering Mathematics I	3	3	3
2	PHY12/22	Engineering Physics	3	3	3
3	MEE13/23	Elements of Mechanical Engineering	3	3	3
4	CIV14/24	Elements of Civil Engineering	3	3	3
5	EEE15/25	Basic Electrical Engineering	3	3	3
6	HSS162/262	Professional Communication	3	3	3
7	MAT21	Engineering Mathematics II	3	3	3

8	CHE12/22	Engineering Chemistry	3	3	3
9	CSE13/23	Introduction to Programming with C	3	3	3
10	MEE14/24	Computer Aided Engineering Drawing	3	3	3
11	ECE15/25	Basic Electronics	3	2.8	2.9
12	HSS161/261	Environmental Science & Awareness	3	3	3

Table 8.4.2.1b CO Attainment CAYm2 (2017-18)

#### CO Attainment 2018-19

			Direct Atta	inment	
S. No.	Course Code	Course Name	CIE Evaluation	Semester End Exam	Overall CO attainment
1	18MAT11	Applied Mathematics I	<b>s</b> 3	3	3
2	18PHY12/22	Engineering Physics	3	3	3
3	18MEE13/23	Elements of Mechanical Engineering	3	3	3
4	18CIV14/24	Elements of Civil Engineering	3	3	3
5	18EEE15/25	Basic Electrical Engineering	3	2.6	2.8
6	18PHL16/26	Engineering Physics Lab	3	3	3
8	18EEL17/27	Basic Electrical Engineering Lab	3	3	3
9	18MAT21	Applied Mathematics II	3	3	3
10	18CHE12/22	Engineering Chemistry	3	3	3

11	18CSE13/23	Introduction to	3	2.8	2.9
		Programming with C			
12	18MEE14/24	Computer Aided	3	2.8	2.9
		Engineering Drawing			,
13	18ECE15/25	Basic Electronics	3	3	3
14	18CHL17/27	Engineering Chemistry Lab	3	3	3
15	18CSL18/28	Programming with C Lab	3	3	3

 Table 8.4.2.1c CO Attainment CAYm1 (2018-19)

#### 8.5. Attainment of Program Outcomes from first year courses(20)

#### 8.5.1. Indicate results of evaluation of each relevant PO and/or PSO if applicable(10)

The relevant program outcomes that are to be addressed at first year need to be identified by the institution Program Outcome attainment levels shall be set for all relevant POs and/or PSOs through first year courses.

(Describe the assessment processes that demonstrate the degree to which the Program Outcomes and Program Specific Outcomes are attained through first year courses and document the attainment levels. Also include information on assessment processes used to gather the data upon which the evaluation of each Program Outcome is based indicating the frequency with which these processes are carried out)

The process to assess the attainment of the Program Outcomes and Program Specific Outcomes begins with the assessments of course outcomes attainment. The assessment of POs /PSOs during first year involves direct methods of assessment only.

	Assessment method	Assessment Tool	Frequency
POs/PSOs attainment	Direct Method	Course outcomes attainment	At end of every semester

DAC collects the data for internal and external assessment of POs and PSOs from the respective source and calculate the attainment. Direct assessment level of POs and PSOs is determined by taking average of course attainment level across all courses addressing that PO and/or PSO.

	-												
Course	Course Name	P01	P02	P03	P04	PO5	P06	P07	P08	609	PO 10	PO 11	PO 12
15MAT 11	Engineering Mathematics I	3	3	3	2	2	-	-	-	-	2	-	3
15PHY 12/22	Engineering Physics	3	2	2	-	-	-	-	-	2	-	-	1
15MEE 13/23	Elements of Mechanical Engineering	3	1	3	-	3	2	1	-	-	3	-	1
15CIV1 4/24	Elements of Civil Engineering	3	3	3	-	-	-	-	-	-	-	-	-
15EEE1 5/25	Basic Electrical Engineering	3	3	3	2	-	-	-	-	-	2	1	-
15HSS1 62/262	Business Communicatio n	-	-	-	-	-	-	-	3	2	3	-	3
15MAT 21	Engineering Mathematics II	3	3	3	3	3	-	-	-	1	3	-	3
15CHE 12/22	Engineering Chemistry	3	3	-	-	-	-	3	-	-	-	-	3
15CSE1 3/23	Introduction to Programming with C	3	3	3	1	3	-	-	-	3	1	-	1
15MEE 14/24	Computer Aided Engineering Drawing	2	-	2	2	1	-	-	-	-	2	-	2
15ECE 15/25	Basic Electronics	3	2	2	-	-	-	-	-	-	-	-	-
16HSS1 61/261	Environmental Science and Awareness	3	2	_	2	-	-	3	1	-	-	-	-
Avg.		2.91	2.5	2.67	2.0	2.4	2.0	2.33	2.0	2.0	2.29	1.00	2.13

<b>Programme Articulation Matrix (</b>	CAYm3	(2016-17)
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Table 8.5.1.1a Programme	Articulation Matrix	CAYm3	(2016-17)
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													6
Course Code	Course Name	01	02	03	04	05	90	01	08	60	010	01	012
MAT11	Engineering Mathematics I	3	3	3	2	2	<b>d</b>	-	d	-	1	-	3
PHY12/22	Engineering Physics	3	2	2	-	-	-	-	-	2	-	-	1
MEE13/2 3	Elements of Mechanical Engineering	3	1	3	-	3	2	1	-	-	3	-	1
CIV14/24	Elements of Civil Engineering	3	2	1	1	-	-	-	-	-	-	-	1
EEE15/25	Basic Electrical Engineering	3	3	2	2	-	-	-	-	-	2	1	-
MAT21	Engineering Mathematics II	3	3	3	3	3	-	-	-	1	3	-	3
CHE12/2 2	Engineering Chemistry	3	3	-	-	-	-	3	-	-	-	-	3
CSE13/23	Introduction to Programmin g with C	3	3	3	1	3	-	-	-	3	1	-	1
MEE14/2 4	Computer Aided Engineering Drawing	2	-	2	2	1	-	-	-	-	2	-	2
ECE15/25	Basic Electronics	3	2	2	-	-	-	-	-	-	-	-	-
HSS161/2 61	Environment al Science and Awareness	3	3	-	3	-	-	3	2	-	-	-	-
HSS162/2 62	Professional Communicati on	-	-	-	-	-	-	-	3	2	3	-	3

## Programme Articulation Matrix CAYm2 (2017-18)

Avg.	2.9	2.5	2.3	2.0	2.4	2.0	2.3	2.5	2.0	2.1	1.0	2.0

#### Table 8.5.1.1b Programme Articulation Matrix CAYm2 (2017-18)

Programme Articulation Matrix CAYm1 (2018-19)

Cours e	Course Name	201	202	03	P04	905 205	906	07	806	60d	PO 10	PO 11	PO 12
18MA	Applied	3	3	3	2	2	-		_	-	2	-	3
T11	Mathematics I												
18PH	Engineering	3	2	2	-	-	-	-	-	2	-	-	1
Y12/2 2	Physics												
18ME	Elements of	3	1	3	-	3	2	1	-	-	3	-	1
E13/2	Mechanical												
3	Engineering		-										
18CIV	Elements of	3	2	1	1	-	-	-	-	-	-	-	1
14/24	$C_{1V11}$												
1000	Engineering	2	2	2	1	1						2	
18EE	Basic Electrical	3	3	2	1	1	-	-	-	-	-	2	-
E15/2 5	Engineering												
18PH	Engineering	3	2	2	-	-	-	-	-	2	-	-	1
L16/2 6	Physics Lab												
<b>18EE</b>	Basic Electrical	3	3	2	1	1	-	-	3	-	-	-	2
L17/2	Engineering												
7	Lab												
18MA	Applied	3	3	3	3	3	-	-	-	1	3	-	3
T21	Mathematics II												
18CH	Engineering	3	3	-	-	-	-	3	-	-	-	-	3
E12/2	Chemistry												
2													
18CS	Introduction to	3	3	3	1	3	-	-	-	3	1	-	1
E13/2	Programming												
3	with C												
18ME	Computer	2	-	2	2	1	-	-	-	-	2	-	2
E14/2	Aided												

4	Engineering												
	Drawing												
18EC	Basic	3	2	2	-	-	-	-	-	-	-	-	-
E15/2	Electronics												
5													
18CH	Engineering	3	3	-	-	-	-	3	-	-	-	-	3
L17/2	Chemistry Lab												
7													
18CS	Programming	3	3	3	3	3	-	-	-	3	-	-	3
L18/2	with C Lab												
8													
18HSS	Professional	-	-	-	-	-	-	-	3	2	3	-	3
16/26	Communication												
Avg.		2.9	2.5	2.3	1.8	2.1	2.0	2.3	3.0	2.2	2.3	2.0	2.1

 Table 8.5.1.1b Programme Articulation Matrix CAYm1 (2018-19)

Course	PO1	PO2	PO3	PO4	PO5	PO6	<b>PO7</b>	PO8	PO9	PO10	PO1 1	PO12
15MAT11	3	3	3	3	3	-	-	-	3	3	-	3
15PHY12/ 22	3	3	3	-	-	-	-	-	3	-	-	3
15MEE13 /23	3	3	3	-	3	3	3	-	-	3	-	3
15CIV14/ 24	2.96	3	2.95	-	-	-	-	-	-	-	-	-
15EEE15/ 25	3	3	3	3	-	-	-	-	-	3	3	-
15HSS162 /262	-	-	-	-	-	-	-	3	3	3	-	3
15MAT21	3	3	3	3	3	-	-	-	3	3	-	3
15CHE12/ 22	3	3	-	-	-	-	3	-	-	-	-	3
15CSE13/ 23	3	3	3	3	3	-	-	-	3	3	-	3
15MEE14 /24	3	-	3	3	3	-	-	-	-	3	-	3

PO Attainment CAYm3 (2016-17)

15ECE15/ 25	3	3	3	-	-	-	-	-	-	-	-	-
16HSS161 /261	3	3	-	3	-	-	3	3	-	-	-	-
Direct Attainmen t	2.995	3	2.995	3	3	3	3	3	3	3	3	3

 Table 8.5.1.2a PO Attainment CAYm3 (2016-17)

Course	PO1	PO2	PO3	PO4	PO5	PO6	<b>PO7</b>	PO8	PO9	PO10	PO1	PO12
											1	
MAT11	3	3	3	3	3	-	-	-	-	3	-	3
PHY12/22	3	3	3	-	-	-	-	-	3	-	-	3
MEE13/23	3	3	3	-	3	3	3	-	-	3		3
CIV14/24	3	3	3	-	-	_	-	-	-	_	_	3
EEE15/25	3	3	3	3	-	-	-	-	-	3	3	-
MAT21	3	3	3	3	3	-	-	-	3	3	-	3
CHE12/22	3	3	-	-	-	-	3	-	-	-	-	3
CSE13/23	3	3	3	3	3	-	-	-	3	3	-	3
MEE14/24	3	-	3	3	3	-	-	-	-	3	-	3
ECE15/25	2.86	2.75	2.75	-	-	-	-	-	-	-	-	-
HSS161/26 1	2.9	3	-	3	-	-	2.9	3	-	-	-	-
HSS162/26 2	-	-	-	-	-	-	-	3	3	3	_	3
Direct Attainment	2.98	2.97	2.97	3	3	3	2.97	3	3	3	3	3

#### PO Attainment CAYm2 (2017-18)

Table 8.5.1.2b PO Attainment CAYm2 (2017-18)

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO1	PO12
18MAT11	3	3	3	3	3	-	-	-	-	3	-	3
18PHY12/2 2	3	3	3	-	-	-	-	-	3	-	-	3
18MEE13/ 23	3	3	3	-	3	3	3	-	-	3	-	3
18CIV14/2 4	3	3	3	3	-	-	_	-	-	-	-	3
18EEE15/2 5	2.81	2.81	2.81	2.81	2.81	-	-	2.7	-	-	2.92	2.7
18PHL16/2 6	3	3	3	-	-	-	-	-	3	-	-	3
18EEL17/2 7	3	3	3	3	3	3	3	3	-	-	-	3
18MAT21	3	3	3	3	3	-	-	-	3	3	-	3
18CHE12/2 2	3	3	-	-	-	-	3	-	-	-	-	3
18CSE13/2 3	2.815	2.75	2.75	2.75	2.82	-	-	-	2.82	2.795	-	2.81
18MEE14/ 24	3	-	2.56	3	3	-	-	-	-	3	-	3
18ECE15/2 5	2.845	2.87	2.87	-	-	-	-	-	-	-	-	-
18CHL17/2 7	3	3	-	-	-	-	3	-	-	-	-	3
18CSL18/2 8	3	3	3	3	3	-	-	-	3	-	-	3
18HSS16/2 6	-							3	3	3	-	3
Direct Attainment	2.96	2.96	2.91	2.94	2.95	3	3	2.95	2.97	2.96	2.92	2.98

#### PO Attainment CAYm1 (2018-19)

### Table 8.5.1.2c PO Attainment CAYm1 (2018-19)

## **Target Attainment Level**

Target Attainment	2016-17	2017-18	2018-
Level			2019
	2.2	2.4	2.6

#### **8.5.2.** Actions taken based on the results of evaluation of relevant POs(5):

#### PO Attainment Levels and Actions for improvement: 2018-19 (Mechanical)

PO	Target Level	Attainment Level	Observations			
PO-1: Engi	neering knowle	edge: Apply the know	ledge of mathematics, science,			
engineering	fundamentals, a	and an engineering sp	ecialization to the solution of complex			
engineering	problems.					
Emphasized	the role of func	lamental sciences in l	Mechanical engineering domain by			
conducting f	the virtual tours	of the Labs related to	Mechanical Engineering department			
PO-1	2.6	2.62.96Target Achieved				
PO	Target Level	Attainment Level	Observations			
PO-2: Prob	PO-2: Problem analysis: Identify, formulate, review research literature, and analyze					
complex eng	gineering proble	ems reaching substant	iated conclusions using first principles			
of mathemat	tics, natural scie	ences, and engineering	g sciences.			
Organized E	Expert Lectures	from leading R & D o	organizations such as Tata Institute of			
Fundamenta	l Research(TIF	R)Bangalore, Internat	tional Researchers (USA), National			
Aerospace I	aboratories (NA	AL) Bangalore, Rama	n Research institute(RRI) Bangalore.			
PO-2	2.6	2.96	<b>Target Achieved</b>			
РО	Target Level	Attainment Level	Observations			
PO-3: Desig	n/development	t of solutions: Desigr	solutions for complex engineering			
problems an	d design system	n components or proc	esses that meet the specified needs with			
appropriate	consideration fo	or the public health ar	nd safety, and the cultural, societal, and			
environmen	tal consideration	ns.				
Workshop o	n 18MEE14/24	(CAED) was conduc	ted to the students.			
Using the In	dustry Institute	labs, students were d	emonstrated the solution for engineering			
problems. A	s well the stude	ents were assigned the	small projects as self study and the			
project exhi	bition was cond	ucted at the end of th	e semester			
PO-3	2.6	2.91	<b>Target Achieved</b>			
РО	Target Level	Attainment Level	Observations			
PO-4: Cond	luct investigati	ons of complex prob	lems: Use research-based knowledge			
and research	and research methods including design of experiments, analysis and interpretation of					
data, and synthesis of the information to provide valid conclusions.						
The significance of literature survey was outlined to students						
PO-4	PO-4 2.6 2.94 Target Achieved					
PO	Target Level	Attainment Level	Observations			
		Department of Med	chanical Engineering   NHCE			

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PO-5: Modern tool usage: Create, select, and apply appropriate techniques, resources,
and modern engineering and IT tools including prediction and modeling to complex
engineering activities with an understanding of the limitations.

Using CAD, CATIA students were demonstrated the design solutions

PO-5	2.6	2.95	Target Achieved
РО	Target Level	Attainment Level	Observations

PO-6: **The engineer and society**: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

Engineers primary obligation is to protect the safety, health and welfare of the public. Engineers decision making is very important because the ultimate beneficiary are the general public or society at large. This was emphasized through the course Constitution of India and Professional Ethics. Three weeks induction program also outlined the contribution of engineers to the society

PO-6	2.6	3	<b>Target Achieved</b>
РО	Target Level	Attainment Level	Observations

PO-7: **Environment and Sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

Role of waste management, recycling and renewable energy was re-emphasized within house examples .

PO-7	2.6	3	Target Achieved
PO	Target Level	Attainment Level	Observations

PO-8: **Ethics**: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

РО	Target Level	Attainment Level	Observations		
PO-9: Individual and team work: Function effectively as an individual, and as a					
member or leader in diverse teams, and in multidisciplinary settings.					

As part of the self study evaluation, students were assigned the small projects in groups ;working in the groups enabled them to understand the intricacies of team work and decision making process

PO-9	2.6	2.97	Target Achieved
РО	Target Level	Attainment Level	Observations

PO-10: **Communication**: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective

presentations, and give and receive clear instructions.

The "Center for Soft Skills and Life Long Learning" ensures the students are equipped with all possible communication tools

PO-10	2.6	2.96	Target Achieved
РО	Target Level	Attainment Level	Observations

PO-11: **Project management and finance**: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage

projects and in multidisciplinary environments.

Students get hands on experience on managing small group tasks and associated finances by participating actively in the Curricular, Co-curricular and Technical clubs. Technically too students were assigned the small projects in groups as part of the self study evaluation, which teaches the nuances of project management

PO-11	2.6	2.92	Target Achieved
РО	Target Level	Attainment Level	Observations

PO-12: **Life-long learning**: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

The "Center for Soft Skills and Life Long Learning" conducts various activities						
<b>Target Achieved</b>	2.99	2.6	PO-12			

Ethics will guide the engineers to mould the personality trait of an individual which will play a key role in instilling discipline and facilitating students to become a responsible citizen of the nation. This is also reemphasized through the course Constitution of India and Professional Ethics.

PO-8         2.6         2.95         Target Achieved
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# DEPARTMENT OF MECHANICAL ENGINEERING

# **CRITERION 9**

## **STUDENT SUPPORT SYSTEMS**

#### **CRITERION 9**

STUDENT SUPPORT SYSTEMS

50

#### 9.1 Mentoring system to help at individual level (5)

(Type of mentoring: Professional guidance/career advancement/coursework specific/ laboratory specific/all-round development, number of faculty mentors, number of students per mentor, Frequency of meeting. The institution may report the details of the mentoring system that has been developed for the students for various purposes and also state the efficacy of such system)

#### **Mentoring System**

The role of the faculty as a mentor is one of nurturing and providing support for a student during the transition period in academic, professional as well as personal augmentation. In all departments of the Institution, mentoring is a continuous process where faculty mentors serve as a resource who will respond to many questions, trivial or complex, that the student might pose; support students in choosing course work that meets their needs and interests; encourage students to actively participate in seminars and laboratory work that are realistic in scope; and counsel the students on any other academic, professional, personal growth, etc., for necessary advice/guidance/help.

#### **Role of a Mentor**

- Keeps the records of student's profile in the prescribed format
- Maintains the records of absentees, problems/issues
- Explains to students the academic rules and regulation.
- Collects or downloads the attendance of each student for all courses either on monthly basis (if done manually) or fortnightly
- Examines the results of the students and counsel for poor results within a week after the results is published.
- Communicates with parents of students to discuss students' performance, any attendance issues and future plan at least twice in a semester.
- Gives specific guidance to students in selecting elective courses for registration.
- Gives guidance and information to plan for industry internship.
- Ensures to provide study material for advanced courses or advance study
- Gives guidance to students for selecting project topic, project guide, counsel

them on back papers and debarred courses.

• Reports Unresolved cases of students to Dean / HOD and if Dean / HOD require further attention to resolve the issue, the unresolved cases can be brought to the attention of higher authorities/ student counselors.

#### I. Types of mentoring activities done towards students

#### Academic Growth

- First, mentors educate their mentees in a particular course, serving as masters to the developing learners by analyzing their performance in continuous internal evaluation tests (CIE).
- Based on academic record, students with good performance are encouraged to achieve next higher level of performance and slow learners are motivated and guided to improve the performance.
- The mentors counsel the students for their low attendance, low performance in examination (with the emphasis on the reason(s) of low attendance and performance).
- Information of academic planners, academic schedules and e-learning resources are shared to enhance their knowledge.
- Students are given training for taking up competitive exam GATE, IES, UPSC etc.
- Facultymembersencouragestudentstodoposterpresentationontheminiprojects and PBL based project learning.

#### • Professional Guidance

- The students are encouraged and guided to register themselves in the professional bodies like IEEE, CSI, and ISTE etc. to create awareness and enhance the knowledge about the various activities including research in their area of specialization.
- Mentorssupporttheirlearningandenhancetheirlaboratoryandresearchskillsthro ugh technical workshops/symposiums.
- Industry basedtrainingisofferedtostudentstoimprovetheirchancesofemployability.
- Students are encouraged to develop their oral and written communication skills by

writing research papers /articles and presenting in national and international conferences.

• The projects are designed based on real time scenarios to apprise students about the working culture of industry and industry expectations.

#### • Career Advancement

- Students are supported to take up online certification courses offered by MOOC/NPTEL/SWAYAM to strengthen the qualification for their academic progression. This also helps them to achieve higher career paths in the applied areas of their specializations.
- Career guidance and counseling is provided by senior faculty members and placement Co-coordinators
- Value added training programs are arranged to enhance their placement opportunities as well as to support their research in industry. Students are also encouraged to take up international professional certification for example in CISCO, Microsoft, Java, etc. This helps the students to improve their profiles for future.

#### Laboratory Specific

- Counsel irregular students to laboratory classes to attend regularly and complete backlog experiments during specified extra hours.
- Arrange special lab coaching for Students with backlogs in external lab exams.

#### • All-round Development

• Encourage and support students towards all round development through participation in literary, cultural and sports activities which helps to develop leadership qualities, decision making abilities, team spirit, socio-psychological awareness, and shapes the student into an intellectually integrated person.

#### • Student Personality development

- Empower and enable inner adjustments by individual students to counter and cope with physical, emotional, mental, social and environmental challenges through student-counselor interaction/ through meditation workshops/ through other specialized workshops / activities.
- Use of therapeutic interventions by counselors where necessary; such as Cognitive Behavior Therapy(CBT), Rational Emotive Behavior Therapy (REBT), Desensitization Therapy, Psychodynamic therapy, Group therapy and so on.
- Engage in family /peer counseling by Counselor/ Mentor /HOD to strengthen student's interpersonal relationships thereby improving their grades.

#### II. List of Training activities

- Orientation of the students prior to Placement season.
- Aptitude Training.
- Mock online aptitude practice test.
- Technical training through labs.
- Mock online technical practice test.
- One to one career counseling and guidance to all the students.
- Mock Group Discussion practice.
- Personality development activities.
- Life skill trainings.
- Verbal and written communication trainings.
- Company specific trainings.
- Mock face to face interviews.
- Industry visits.
- Internship opportunities.
- Participation in Hackethon and other coding challenge contests.

Parameter	Description
	Academic growth / Professional guidance / career
Types of mentoring activities	advancement / laboratory specific / All - round
	development / Student personality development
Number of faculty mentors	33
Number of students per mentor	18-20
Frequency of meeting	Once in a month
Counselor available for	One per branch
specific number of students	

#### Table 9.1.1: Summary of Mentoring System

The student mentoring process flow is shown below



**Figure 9.1.1: The structure of mentoring report** 

#### III. Counseling System

Department of Counseling offers individual, group and family counseling in the campus. The Department is equipped with 6 professionally qualified counselors who are easily approachable to the students and help them to deal with their daily life challenges and develop an insight for making right choices and decisions in

their lives. In the department, each counselor allows an individual to have an opportunity to improve upon their understanding of themselves, including their pattern of thoughts, behavior, feelings and the ways in which these may have been problematic in their lives. It also helps to examine how to tap into existing resources or develop new ones that enhance their academic and personal lives

Procedure to be followed by counselors at NHCE:

- Department of counseling always focuses on mental health as well as academic achievement of students.
- Counselors are easily approachable to the students in two ways either through referral or self -walk in.
- Counselor helps them to deal with their daily life challenges and develop an insight for making right choices and decisions in their lives.
- After first session of counseling, counselor always follows up the students.
- If requires counselor uses paper pencil tests to find out the exact issue of students.
- Counselor always maintains soft copy report of the students. Department of counseling conducts awareness program for the students.
- In this pandemic situation it's difficult to meet the students in person but department of counseling always ready to help students online or offline.

Sl. No.	Name	Designation
1	Dr. Reena Jain	Chief Counselor
2	Mrs.Deepa S	Student Counselor
3	Mrs.ArghyasriSensarma	Student Counselor
4	Mrs. Roshina Jacob	Student Counselor
5	Mrs. ShanthalaRoa	Student Counselor
6	Mrs. Sahana S	Student Counselor

**Table 9.1.2:** Details of Counselors committee members

#### Format used by Counselors

	Are you experiencing any of the following	ing ?		(Dates at lates a	0.00	-	Abumun
NEW HORIZON COLLEGE OF ENGINEERING	ISSUES	NO	Yes	sometimes	Onen	MeAat	Always
THE OFFICE OF DEAN STUDENT AFFAIRS	Mood Swings	-	-				-
INTAKE FORM FOR COUNSELING	Extreme Anxiety	-	-				
Please provide following information for our records which shall remain confidential.	Panic Autoris Dischine		-				-
Date ://	Steen Disturbance				-		-
Name	Frequent Body Complaints						
Condes i Mala I. J. Formula I. J.	Eating Disorder						
Gender : Male [ ] Female [ ] Date of Birth :/	Body Image Problems						
Address :	Repetitive / Strange Thoughts						
	Depression				7		
Dity : Pin Code :	Difficulty in any subject						
Mobile No	Social Isolation, Loneliness				1		
	Feeling of Loss						
-mail Address :	Sad, Hopeless about Future						
mergency contact information : Relationship to client :	Excessive Feelings of Guilt						
Phone No.	Low Self-Esteem				-		
lease list any presistent obvious and an and a second seco	Anger, Irritable, Hostile				1		
and any prosistent physical symptoms of health concerns	Memory problems or trouble concentrating						
e you having any problems with your sleep habits ?	Trouble explaining myself to others						
Pening too little [ 1 Clearly to a state of the state of	Problems understanding what others tell us						
a you having difficulty with appetite or eating habits ? ting less [ ] Eating more [ ] Binging [ ] Restricting [ ]	What do you consider to be some of yo What do you like most about yourself ? What do you consider to be some of yo	our strer	ngths ? kness 1				
PS. Regularly [ ] a	What are your goals for future ?		_				
Rarely [ ] Occasionally [ ] Rarely [ ]	Rate the following						
w often do you engage in recreational drug use?	How well you are doing in your family n	elations	hip:	0 1 2 :	3 4 5	5 6 7	8 9
lly [] Weekly [] Monthly ()	How well you are doing in relationship v	with peo	ople ou	tside your family	Y S		
you currently in a romantic solution in the solution of the so	0 1 2 3 4 5 6 7	8 9					
No Yes	Please rate your general happiness and	t well - I	: gnic	0 1 2	3 4 5	5 6 7	8 1
No[] Yes []	now well op you manager your time :	0 1	5	3 4 5	6 7 1	8 9	
you act imputsively ? No[ ] Yes [ ]	and the second se				Sin	mature of t	he stude
	and the second				Ung		and along

Figure 9.1.2: Format of the counseling form used by counselor

#### I. Efficacy of mentoring/counseling system:

The mentoring/counseling system developed by the college is very effective as defined

by different parameters as listed.

#### **Table 9.1.3: Efficacy of Mentoring System**

Parameters	Outcome
Student's Attendance:	Enhanced / improved
The Involvement of Students in the Academics, Co-Curricular and Extra-Curricular:	Has improved
Individual Student's Talents/ Skills Identified and Nurtured towards:	Excellence (the mentor/counselor/student ratio being optimum for supported growth).
Students' Self-Confidence/ Self- Esteem:	Improved over time, thus making inner adjustments easier and coping with and tackling successfully external challenges like facing job interviews/ speaking in public /giving presentations/ even mentoring peers.

Same

#### 9.1 (A) Sample Format of Mentoring System for CSE

	Home Notice-Roard All Reld Report User	Proclambig Chan Manual Logout	ee Passand Sec	arch student
JEEVITHA J				
USN : 1NH18C50	RE 75.	Charles :	1.3	Jul 2020
Dopt. Name: Con	sputer Science And	Others in	: beviewn	
lature of interaction/details				
wriedic counseling				
arent teacher meeting				
allow up of previous discussion				
ther suggestion/guidance/recom	mandation			
ports/extra/co curricular				
he current on				
Vanning				
The part of the pa				
disciplinary action				
vetails of periodic counseling inte	raction			
to alth issues :	The same	No		
In Modecateon:	The same	Nex		
Adjustment/emotional well being	- Poor	Paint	Good	Excellent
Coping with studies :	Poor	Pater	Good	Excellent
Behavior in class (pays attention, asks questions, responds positively and cooperation)	Proce	Protect	Good	Excellent
Bogularity :	Poor	Point	Good	Excellent
Home environment :	Procer	Fair	Good	Excellent
Issued dotails			of Station : 3	
Advice/support provided		Date vork	of Session : 2 or good marks a hard to score to intrate more.	nd continue
Impression		Date Scher State Date	of Session : 2 of Session : 0	2 Mar 2019
Allacherwort :				
Choose File No file chosen Supported formats .jpg, .ipegp	df,doc,docx,			
Choose File No file chosen				
Choose File No file chosen Supported formats .jpg, .jpeg, .p	di, doc. docs. pmg )			
betther action				
Case Closed 5	senseting C	rdser referral		

Figure 9.1.3: A snap shot of the mentoring system

Semester	<b>Course Code</b>	Subject Name
Course Spec	ific	
Ι	CSE13	Introduction to Programming with C
III	CSE34	Data Structures using C
III	CSE35	UNIX System Programming
IV	CSE43	Object Oriented Programming with C++
V	CSE51	Analysis and Design of Algorithms
V	CSE52	Operating System
V	CSE53	Database Management Systems
V	CSE54	Software Engineering
VI	CSE61	Core JAVA Programming
VI	CSE62	Computer Networks
VI	CSE641	Social Network Analysis
VI	CSE642	Soft Computing
VI	CSE643	Usability and Human Computer Interaction
VII	CSE71	Web Technologies
VII	CSE72	Software Testing
VII	CSE73	Mobile Application Development
VII	CSE741	Fundamentals of Data Science

 Table 9.1.4: List of Courses offered for Life Long Learning

VII	CSE742	Cryptography & Network Security
VII	CSE743	Artificial Intelligence
VII	CSE745	Cyber Security, Forensics and Law
VIII	CSE81	Object Oriented Analysis and Design
VIII	CSE82	Data Mining and Machine Learning
	L	aboratory Specific
Ι	CSE13	Programming with C Lab
III	CSE34	Data Structures using C Lab
III	CSE35	UNIX System Programming Lab
IV	CSE43	Object Oriented Programming with C++
V	CSE51	Analysis and Design of Algorithms Lab
V	CSE53	Database Management Systems Lab
V	CSE553	Big Data Analytics with HP Vertica
VI	CSE61	Core JAVA Programming
VI	CSE62	Computer Networks
VII	CSE71	Web Technologies
VII	CSE72	Software Testing
VII	CSE73	Mobile Application Development
	All	-round Development
Ι	HSS171	Essential English
Ι	HSS172	Constitution of India and Professional Ethics
II	HSS271	Professional Communication
III	HSS322	Life skills for Engineers
III	HSS321	Economics For Engineers
IV	HSS422	Life skills for Engineers
IV	HSS421	Economics for Engineers
	Student per	sonality development activity
III	CSE36	Mini Project in C
IV	CSE46	Mini Project in C++
V	CSE56	Mini Project in DBMS
VI	CSE65	Mini Project in JAVA
VII	CSE76	Mini Project in Mobile Application Development
VIII	CSE83	Internship
VIII	CSE84	Project

#### 9.1 (B) Sample Format of Mentoring System for CV

Registration Data Performance P	file 📕 Mentoring		Ment	oring Rep	ort		
AMAL THOMAS Counselling Details : Last Counselled : 17-0	-2020 02:18:19	1NH16CV011	SEM06	•			-
ANAND VIJAYAN M Counselling Details : Last Counselled : 17-0	0-2020 02:21:32	1NH16CV014	SEM06		•	-	-
ARJUN G V Counselling Details : Last Counselled : 17-0	-2020 02:24:00	1NH16CV016	SEM06		•	•	-
ARUN GOPINATH Counselling Details : Last Counselled : 17-0	-2020 02:27:21	1NH16CV017	SEM06		•	•	-

Figure 9.1.4: Sample Student mentoring in contineo

SI. No	Name	USN	Roll	Semester	Nature of	Issue/Details	Suggestion/Action	Date Of Session
4	AMAL THOMAS	11111601011	NO	SEMOS	Counselling	Irregular to plagges, He is	Plan	17.02.2020
·	AWAL THOWAS			SEMUO	counseling	and but lack in concentration	stagez	17-03-2020
2	ANAND	1NH16CV014	0	SEM06	Periodic	He is irregular to classes and	stage?	17-03-2020
2	VLIAYAN M	1111000014	ľ	OLWI00	counseling	lacks interest in studying	Stagez	11-03-2020
3	ARJUN G V	1NH16CV016	+	SEM06	Periodic	not regular average scoring	none	17-03-2020
				02	counseling	in internals		
4	ARUN	1NH16CV017	+	SEM06	Periodic	irregular and absent in most of	stage2	17-03-2020
	GOPINATH			CLINCO	counseling	subjects cie	ologoz	
5	M	1NH16CV057	0	SEM06	Periodic	he s regular to classes but	none	17-03-2020
-	GIRISHANKAR		1		counseling	should concentrate in class		
						and work hard.		
6	SHUHAIL M	1NH16CV101	+	SEM06	Periodic	he is very irregular to class.	stage2	17-03-2020
					counseling		-	
7	ABDUL ROUF	1NH17CV001		SEM06	Periodic	Quite good in the	none	18-03-2020
	WANI				counseling	studies, However there is a		
					-	scope for improvement		
8	ABHINAV	1NH17CV002		SEM06	Periodic	student is regular and	none	18-03-2020
	DUBEY				counseling	disciplined, no issues in		
						academics and behaviour		
9	ABHISHEK B V	1NH17CV003		SEM06	Periodic	good student no issues	none	18-03-2020
					counseling			
10	ABHISHEK P	1NH17CV004		SEM06	Periodic	good student no issues	none	18-03-2020
					counseling			
11	AKRITI NAIK	1NH17CV008		SEM06	Periodic	v good student no issues	none	18-03-2020
					counseling			

Figure 9.1.5: Sample Student Mentoring Report

/	,	••	List of Students fa	NEW HORIZON CO COUNSELLING R ulêd in 2 or more subjects in C	DILLEGE OF ENGINEERING EPORT (DEPT. OF CIVIL ENGINEERING) IE - 1 EVEN Sem 2019-20	COUNSELLOR	Ms. SAHANA.S
*******					AND SUMMARY	1	-
			Frederit Name	Subjects< 40%	SESSION Something of a little		
SI.No	Semester	USN	SIDDESH S	19CIV44-Analysis of Determinate Structures	Re-registered student where is taking time to understand. different now and hence is taking time to understand. Oriented him the importance of academics and advised him to approach teachers for any difficulties. He seems to be confident this internals.		
	IVA.			19CIV46-Applied Hydraulics and Machinery	Do restiftered student who said MATH is a new added		
				19CIV44-Analysis of Determinate Structures	ke register to wand hence is taking time to understand. Orient him the importance of academics and advised him to approach teachers for any difficulties. He seems to be promising this time.	ed	
2	IV A	1NH16CV124	YUVRAJ TADAV	19CIV45-Higher Surveying			
				19CIV46-Applied Hydraulics and Machinery	We cald he was earlier in C sec and then was shifted to A s	ec	
	IV A	1NH17CV017	BILLI LOMBI	19CIV44-Analysis of Determinate Structures	The source of the second secon	• •	
				19CIV45-Higher Surveying	He said he was earlier in C sec and then was shifted to A	sec .	
4	ıv a	1NH17CV019	CHANDAN SURYA L H	19CIV44-Analysis of Determinate Structures	where the syllabus was much ahead than the prevous c and hence missed classes. Advised him to approach tear for any doubts and concentrate to study well. Oriented the importance of studies, he seems more assuring now	hins him	
				19CIV46-Applied Hydrauli and Machinery	ics	stof	
5	IVA	1NH17CV054	MADHU SUDANA K	19CIV44-Analysis of Determinate Structures	He said he joined late for the semeater and by lines has the syllabus was covered and hence could not do well Oriented him the importance of attendance and acade Advised him to approach teachers when missed class clear doubts. He Seems more comfortable for this con internals.	mics. es to ting	
-	1	1 .	• • •	19CIV45-Higher Surveyi	88		

Figure 9.1.6: Sample Counseling Report

No. of students called	Type of issue	Mode of communication	Plan of action
1 (CIVIL)	Confusion regarding the CIE marks calculation.	Mobile Texts	Advised him to enquire his teachers for further marking queries and request them to look into if any discrepancies.
1 (CIVIL)	Anxiety regarding pandemic and scheduling of end <u>sem</u> exams.	Mobile Texts	Counselled and built hope in him regarding the current crisis. Advised him to not panic regarding the exams, since the administration will take steps which are appropriate.

Figure 9.1.7: Counseling report

Semester	Course Codes	COURSE NAME
Ι	19HSS171	Essential English
I/II	19HSS172	Constitution of India and Professional Ethics
II	19HSS271	Professional Communication
III	19HSS321	Economics for Engineers
III	19HSS323	Environmental Science and Awareness
IV	19HSS422	Life skills for Engineers
		All civil engineering courses

## Table 9.1.5: List of Courses offered for Life Long Learning

#### 9.1 (C) Sample Format of Mentoring System for ECE

Semester	Course Codes	COURSE NAME
Ι	15MA11	EngiKneering Mathematics I
Ι	15CH12	Engineering Chemistry
I	15HP16	Personality Development and
		Soft skills
II	15MA21	Engineering Mathematics II
II	15HB26	Business Communication
III	16MAT31	Engineering Mathematics -
		III
III	16HSS322	Life Skills for Engineers
III	16ECE34	Electronic circuits-1
III	16ECE35	Network Analysis
III	16ECE36	Signals and Systems
IV	16MAT41	Engineering Mathematics- IV
IV	16ECE44	Digital Signal Processing
IV	16ECE45	Control Systems

#### Table 9.1.6: List of Courses offered for Life Long Learning

V	ECE53	CMOS VLSI Design
V	ECE54	Information Theory and
		Coding
V	ECE55	Engineering
		Electromagnetics
VI	ECE62	Embedded System Design
VI	ECE63	Microelectronics circuits
VI	ECE651	Routing and Switching
VIII	ECE81	Routing and switching-3
VIII	ECE82	Internship
VIII	ECE83	Project Phase-I
VIII	ECE84	Project Phase-II
VIII	ECE85	Project Phase- III

#### 

#### New Horizon College of Engineering First Year Student Mentoring Report

SI. No	Name	USN	Roll	Semester	Nature of	Issue/Details	Suggestion/Action	Date Of Session
19	ANJU GOPINATH	1NH16EC708		SEM08	Follow up of previous discussion	No issues.Got placed in Hexaware.project 2nd review is done.	none	14-04-2020
20	B VAMSI KRISHNA REDDY	1NH16EC710		SEM08	Follow up of previous discussion	No issues.Attending online classes and happy with classes.Doing final year project.Searching for Job.	none	14-04-2020
21	BALAJI L	1NH16EC711		SEM08	Follow up of previous discussion	Doing final year project. No issues.	none	14-04-2020
22	CHIRAG S	1NH16EC713		SEM08	Follow up of previous discussion	Attending online classes and project 2nd review is done.Trying for Job.No issues.	none	14-04-2020
23	GAGANA M R	1NH16EC714		SEM08	Follow up of previous discussion	No issues.80% of the final year project is completed.Planning to do higher studies in Australia.Got offer letters from 2 universities.	none	14-04-2020
24	GOWRI SNEHA PRIYA S	1NH16EC715		SEM08	Follow up of previous discussion	Doing final year project and no issues.	none	14-04-2020
25	GURRAM VENKATA NIKESH	1NH16EC716		SEM08	Follow up of previous discussion	Happy with online classes.Project 2nd review not done and going to do this week due to lock down and unavailability of components.	none	14-04-2020

Mentor:Ms. Parepalli Ramanamma (P Rama)

HOD

Figure 9.1.8: Sample Student Mentoring Report

IIIA			
Sl.No.	USN	STUDENT NAME	Session Summary
1.	1NH18EC001	ABHIRAG	The student said that he did not study as he missed classes due to fast track exam
			He was asked to reflect on how he gets fastrack and how that affects the upcoming semester. He was to be more responsible and take academics seriously.
2.			The student said that he did not study that is the reason he could not perform well.
	1011850005		Spoke to him on the consequences of not securing enough marks for the internals. Motivated him to study better for the coming internals.
3.		AYAAN KHAN	It was understood from the session that the student is not taking his academics seriously. Spoke to him on the consequences of not securing enough marks for the internals. Motivated him to study better for the coming
	1NH18EC016	S	internals.

Figure 9.1.9: Sample report by counselor

#### 9.1 (D) Sample Format of Mentoring System for ME

#### New Horizon College of Engineering Mechanical Engineering Student Mentoring Report

Rectangular Snip

SI. No	Name	USN	Roll	Semester	Nature of	Issue/Details	Suggestion/Action	Date Of Session
			No		Counselling		Plan	
1	<b>B MAHITHESH</b>	1NH15ME708	0	SEM08	Periodic	NOT REGULAR TO CLASS	none	18-03-2020
	GOWD				counseling	AS HE IS REREGISTERED.		
2	MOHAMMED	1NH15ME727	0	SEM08	Periodic	since he has very less basiCS	none	18-03-2020
	RIYAZ BAIG				counseling	HE NEEDS TO PREPARE		
						MORE		
	RAKSHITH	1NH15ME735	0	SEM08	Periodic	Irregular to classes.working on	none	18-03-2020
	REDDY				counseling	internship		
l I	ABHISHEK	1NH16ME700		SEM08	Periodic	no issues observed.	none	18-03-2020
					counseling			
5	GOUTHAM G	1NH16ME718		SEM08	Parent teacher	student was not willing to	none	18-03-2020
					meeting	come to college and hence		
						parent had to come with him		
i	ADHARSH	1NH16ME701		SEM08	Periodic	Good student. No issue with	none	18-03-2020
	MADHUSUDAN				counseling	him.		

#### Figure No. 9.1.10: Student Counseling Report (Faculty)

	D	epartment of Mechanical Engineering- 3rd Sem	ester
2	Name	Response	Session Summary
16ME025	Dhanush R	I was not regular before because of dengue and later accident. But now regular and will improve scores in the next exam	Helped him to orient towards semester requirements in terms of attendance and marks. Encouraged to set target scores for all these subjects in second internal to achieve safe semester average score. Appeared to be confident.
8ME089	Prashanth M	Scored less in CAMD, MOM, MSM and all are numerical subjects. Didn't get answer correct.	Helped to set target score to compensate on marks and encouraged to seek help from teachers and friends for better subject understanding
8ME082	Nishanth Manoj	Due to fever, I couldn't do well. Will get retest	Appeared to be confident about scoring better and
8ME081	Nischal P	Difficulty with numerical subjects and because of fever also couldn't do well. Asked for retest	Suggested to contact teachers for the re-test Suggested to take help from teachers or friends for better subject clarity
8ME424	Ancesh Ahmed	Joined late for the semester and some basics are missing. Requested for retest	Needs to work on motivation. Helped to set target scores
IME759	Yathish Ravindra	Because of viral fever couldn't do well.	Helped to set target accompensate on marks.

Figure No. 9.1.11: Student Counseling Report (Counselors)

 Table 9.1.7: Impact of efficacy of mentoring/counseling system

Type of	2018-19		2017-18		2016-17	
Mentoring	No. of					
1	students	students	students	students	students	students
Counselin	counsele	improve	counsele	improve	counsele	improve
g	d	d	d	d	d	d
Academic	58	36	47	31	37	25
guidance						

## 9.2. Feedback analysis and reward /corrective measures taken, if any(10)

(Feedback collected for all courses Specify the feedback collection process Average Percentage of students who participate,Basis of reward/ corrective measures, if any; Indices used for measuring quality of teaching& learning and summary of the index values for all courses/teachers; Number of corrective actions taken).

#### Feedback on Teaching-Learning by Students

The entire process is executed in following three stages

- Feedback collection
- Feedback analysis
- Reward / corrective measures

#### **Feedback Collection Process**

- Feedback mechanism is well organized system in the college for all courses.
- All the students are allowed to give feedback.
- Computerized feedback is collected from students for all the courses. The feedback collection process is discussed in Table 9.2.1

Ti	Description
tle	
Feedback collection process	Online feedback from all students on respective courses
Process	Online on CONTINEO
Frequency of feedback Collection	Twice in a semester
Metrics used for calculation	5- Excell ent 4- Very good 3- Good 2-Satisfactory 1 Palow average
	1-Below average

Table 9.2.1. Feedback conection process	Table 9.2.1:	Feedback	collection	process
---	--------------	----------	------------	---------
#### **Feedback Analysis Process**

Summary of the feedback reports pertaining to course, program and teachinglearning is prepared, usually on the scale of 1to5. The minimum expected feed back for a faculty member from the students is 3.5 on 5-point scale rating system. The feedback is shared with heads of the respective departments. Informal feedback is also taken directly by the heads from time to time during the ongoing semester. A special emphasis is paid on transparency and impact of the feedback system. A broad range of parameters that are used for collecting the feedback data is as given below.

- Particular on timely coverage of syllabus
- Ability to integrate content with other courses
- Depth of the course content including project work, if any
- Learning value (in terms of knowledge, concepts, manual skills, analytical abilities and broadening perspectives)
- Lectures are interesting
- Logical structuring & sequencing of course content into modules
- Promptness & adequacy of feedback provided by teacher on academic performance
- Promptness in Evaluation of Tests, Assignments and Quizzes
- Punctuality (starting time & ending time for lectures, Lab classes and Tutorials Classes)
- Recap of last lecture, assignments, quizzes, projects, discussion, case studies etc.
- Teacher comes well prepared to teach in the class
- Teacher encourages students to ask questions and are satisfied with answers
- Teacher encourages students to think independently
- Teacher gives real life examples/ uses videos
- Teacher is approachable to students for Academic/ personal advice
- Teacher is clear with course concepts
- Teacher is enthusiastic about teaching the course
- Teacher provides course and lecture outline at the semester beginning
- Teacher suggests web-links related to the topics taught

- Teacher takes extra care to ensure learning
- Teacher uploads the teaching material well before the class
- The course materials (e.g. text, case studies, readings etc.) are helpful in learning the course. The evaluation process is well designed during the course

• There is clarity in presentation, considering language, voice and black board writing

A format of student feedback on teaching -learning is given in figure

#### FORMAT of Student Feedback on Teaching - Learning

#### Questionnaire

- 1. Clarity in explaining the subject
- 2. Subject explained was easy to understand
- 3. Content quality is relevant and useful
- 4. Faculty answers to your queries/questions
- 5. Coverage of topic/subject is on time
- 6. The concepts were explained with examples
- 7. Faculty preparation for the class
- 8. Faculty guidance for preparation of seminar, conference and exam
- 9. Punctuality of the faculty for the class
- 10. Communicates distinctly and effectively
- 11. Treats students with respect and effectively
- 12. Control of the classroom by faculty
- 13. Relevance of assignments to the subject
- 14. Overall satisfaction
- 15. Discussion of any interesting topic beyond the syllabus but relevant to the field.
- 16. Usefulness of the question papers of internal tests in your preparation for the examination.
- 17. Helpfulness of the online course material (question bank, etc.) and assignments for you to understand and prepare and for tests and examination.
- 18. Accessibility availability after the class hours in the college.

#### **Rating of Scale**

- 5-Excellent
- 4-very good
- 3-good
- 2-fair
- 1-poor

#### Figure 9.2.1: Format of student feedback on Teaching - Learning

#### **Reward / corrective measures**

#### Methodology being followed for corrective measures taken:

Based on the consolidated feedback and faculty self-appraisal reports, the faculty members are appraised about their performance. Some of the faculty members are appreciated and awarded monetarily, in recognition of their exemplary efforts of

- Resourcefulness
- Innovations in bringing about the change
- Dependability in their work
- Expertise used and developed in academics, research and patenting

Necessary corrective actions taken for the faculty members whose feedback score is less than the institution standard, are as given below.

Head of the Department chairing the senior faculty members advise the faculty member suitably with regard to

- Clarity in explanation, effective communication, syllabus coverage
- Participating in Faculty Development Programs (FDPs).

• Enhancing their academic skill set with the peer support within a stipulated time period.

The performance is reviewed regularly.

#### 9.2 (A) Sample Feedback analysis for CSE

A broad range of parameters that are used for collecting the feedback data is as given below.

- Particular on timely coverage of syllabus
- Ability to integrate content with other courses
- Depth of the course content including project work, if any
- Learning value (in terms of knowledge, concepts, manual skills, analytical abilities and broadening perspectives)
- Lectures are interesting
- Logical structuring & sequencing of course content into modules
- Promptness & adequacy of feedback provided by teacher on academic performance

	STUDENT FEEDBACK - EVEN TERM 20	20
m is given insidual fee one of yo is treated (	to you to analyze the effectiveness of the service offmed at NHCE. Please assure ling about the course so far, and not those of your collective group. This would hel u individually, and the level of interaction between you, faculty and the institution completely contenential.	the questions below to the best of your ability t ip us in accurately evaluating how the course is p ion. Please be honest and candid in your feedba-
eutical And?	unitional Focus ( 8T6812 ) DcAa)	B M
	FEEDBACK ON FACULTY	
Di.	Particulare	(DYCOA2) De Para Bit
	Clarity is explaining the subject	Select w
э	Rubjert suplained was easy to understand.	Select V
2	Content quality is relevant and useful.	Select V
4	Faculty answers to your overles/avestions.	Select ~
5	Coverage of topic/subject is on time.	Select V
	The concepts were explained with examples.	Select V
7	Faculty preparation for the class.	Select V
8	Faculty guidance for preparation of seminar, conference and exam.	Select V
9	Punctuality of the faculty for the class.	Select 🗸
10	Communicates distinctly and effectively.	Select V
11	Treats students with respect and courtesy.	Select V
12	Control of the classroom by faculty.	Select V
13	Relevance of assignments to the subject.	Select V
14	Overall satisfaction.	Select ~
15	Discussion of any interesting topic beyond the syllabus but relevant to the f	ield. Select 🗸
16	Usefulness of the question papers of internal tests in your preparation for t examination.	Select V
17	Helpfulness of the online course material (question bank, etc.) and assignment	ents for Select V

#### Figure 9.2.2: Sample Students feedback on Teaching -Learning

- Promptness in Evaluation of Tests, Assignments and Quizzes
- Punctuality (starting time & ending time for lectures, Lab classes and Tutorials Classes)

• Recap of last lecture, assignments, quizzes, projects, discussion, case studies etc.

- Teacher comes well prepared to teach in the class
- Teacher encourages students to ask questions and are satisfied with answers
- Teacher encourages students to think independently
- Teacher gives real life examples/ uses videos
- Teacher is approachable to students for Academic/ personal advice
- Teacher is clear with course concepts
- Teacher is enthusiastic about teaching the course
- Teacher provides course and lecture outline at the semester beginning
- Teacher suggests web-links related to the topics taught
- Teacher takes extra care to ensure learning
- Teacher uploads the teaching material well before the class
- The course materials (e.g. text, case studies, readings etc.) are helpful in learning the course
- The evaluation process is well designed during the course
- There is clarity in presentation, considering language, voice and blackboard writing

#### **Rewards/Corrective Measures**

Based on the consolidated feedback reports and faculty self-appraisal reports, the faculty members are apprised about their performance.



Figure 9.2.3: Sample Corrective Measure on teaching-learning

## 9.2 (B) Sample Feedback analyses for CV

The faculty members who follow good and innovative teaching pedagogies are appreciated and awarded along with the monetary benefit of increment, in recognition of their exemplary efforts of

- resourcefulness
- innovations in bringing about the change
- dependability in their work
- expertise used and developed in academics, research and patenting

Corrective actions are taken for the faculty whose feedback score is less than the institution standard

• Encouraging faculty to attend more Faculty Development Programs (FDPs). Suggestions are given to enhance their academic skill set with the peer support within a stipulated time period. The performance is reviewed by the head of the department regularly.

These corrective actions taken are as shown in Figure

	C 11 1		1 .	• •	· · ·
A format of student	teedback on	teaching	-learninσ	18 01VP	n in figure
Ti format of student	recuback on	teaching	icarining	15 51 10	n m nguie

				New	Studer	n colle	ge of E back R	nginee	ring														
					D	epartm	ent C	1															
					Facul	ity Nam	ne Sum	a p															
SR. No.	Name of the faculty	CLASS	No of Students	Subjects	Q1	Q2	Q3	Q4	QS	Q6	Q7	QS	Q9	Q 10	Q 11	Q 12	Q 13	Q 14	Q 15	Q 16	Q 17	Q 18	Avg
		CV SEM VI SEC A	54	CIV653	4.54	4.52	4.59	4.54	4.48	4.5	4.56	4.31	4.5	4.48	4.46	4.5	4.52	4.5	4.39	4.43	4.46	4.44	4.48
1	Suma p	CV SEM IV SEC B	42	19CIV43	4.52	4.4	4.48	4.43	4.48	4.45	4.33	4.43	4.43	4.38	4.48	4.43	4.48	4.43	4.24	4.4	4.36	4.43	4.43
			Overall avg	_	4.53	4.46	4.54	4.49	4.48	4.48	4.45	4.37	4.47	4.43	4.47	4.47	4.5	4.47	4.32	4.42	4.41	4.44	4.45
										_	_												
Q1	Clarity in explaining the subje	ct								Q9	Punct	uality o	of the f	aculty	for the	class.							
Q.2	Subject explained was easy to	understand.								Q 10	Comn	unicat	es dist	inctly a	and eff	ective	y.						
Q 3	Content quality is relevant an	d useful.								Q 11	Treats	stude	nts wit	h resp	ect and	courte	sy.						
Q.4	Faculty answers to your querie	es/questions.								Q 12	Contr	ol of th	e class	room	oy facu	Ity.							
Q.5	Coverage of topic/subject is o	n time.								Q 13	Relev	ance of	fassigr	ments	to the	subjec	t.						
Q.6	The concepts were explained	with examples.								Q 14	14 Overall satisfaction.												
Q.7	Faculty preparation for the cla	55.								Q 15	Q 15 Discussion of any interesting topic beyond the syllabus but relevant to the field.								ł.				
Q.8	Faculty guidance for preparati	on of seminar, conferen	nce and exam.							Q 16	Usefulness of the question papers of internal tests in your preparation for the ex							exami					
		_								Q 17	Helpf	ulness	ofthe	online	course	mater	ial (qu	estion	bank, e	rtc.) an	d assig	nment	s for y
		_								Q 18	Acces	sibility	availa	bility a	fter th	e class l	hours	in the o	ollege				
	SCALE USED																						
Not Applicable		0																					
Poor		1																					
Fair		2																					
Good		3																					
Very Good		4																					

Figure 9.2.4: Sample Students feedback on Teaching –Learning

A format of feedback analysis on teaching -learning is given in figure

	NEW HOI DEPAR <u>Faculty fe</u>	RIZON COLLEGE OF ENGINEERING TMENT OF CIVIL ENGINEERING ed back analysis - 2019-20 - EVEN SEM	
Sl.no.	Feedback range	Name of the faculty	score
1	A 5 5	Dr.Niranjan P S	4.64
2	4.5 - 5	Dr.NMahesha	4.52
3		Ms.SumaParalada	4.45
4		Mr.Surendra B V	4.4
5		Ms. Serin Issac	4.36
6		Dr.Geetha Varma	4.35
7		Msvandhana P	4.32
8		Ms.Swetti Jha	4.32
9		Mr. channabasava	4.31
10	1 1 5	Mr.vijay N.C	4.3
11	4-4.5	Mr.Sudhakar G N	4.23
12		Ms.Geethu V	4.23
13		Dr.Muralikrishna	4.21
14		Mr Pawan kumar	4.2
15		Dr.Ranganthan	4.12
16		Msneethu Elizabeth john	4.12
17		Mr.Yogesh	4.12
18		Dr.Giriprasadchandran	4.07

## Table 9.2.2: Sample feedback analysis on Teaching –Learning

19		Mr.Rahul N K	4.05
20		Mr.Harish G R	4.03
21		Dr.Vinaykumar B M	4.01
22		Ms. Athuliya	4.01
23		Ms Sathya Priya	3.98
24		Mr.Sunil M Horaginamani	3.95
25		Mr.Prakash A N	3.94
26		Mr.Nitishkumar	3.93
27		Mr.Satish D	3.92
28		Mr.Rajendra T N	3.91
29		Mr. Sandeep T. D	3.91
30	3.5 - 3.99	MsMeghana .P	3.9
31		MsK.sharmila	3.86
32		Ms.Ramya H S	3.81
33		Dr.Balamurugan	3.76
34		Dr.Jagadish C B	3.67
35		Dr.Nachimuthusubramani	3.66
36		Dr. Harish Velagiri	3.91
37		Ms.Snehal R L	3.54

A format of feedback analysis on teaching -learning is given in figure

Fac	culty Feedback Analysis for EVEN sem 202	20
	Total number of Faculties	37
Feedback	4.5-5	2
Feedback	4-4.5	20
Feedback	3.5-3.99	15
Feedback	less than 3.5	0



## Figure 9.2.5: Sample feedback analysis on Teaching –Learning

- 1) List of faculties with student feedback <3.5-----Nil
- 2) Activity followed for faculty having student feedback <3.5-----Nil
- 3) FDP attended by faculty having student feedback<3.5-----Nil
- 4) NPTEL courses attended by faculties having student feedback <3.5-----Nil

Format of faculty feedback and corrective measure analysis on teaching -learning is given in figure

#### NEW HORIZON COLLEGE OF ENGINEERING, BANGALURU DEPARTMENT OF CIVIL ENGINEERING FACULTY FEEDBACK AND CORRECTIVE MEASURE ANALYSIS

FACULTY NAME: -SEM/YEAR:- **DESIGNATION: -**

Sl.No	Curriculum, Teaching,	Excellent	Very	Good	Average	Poor
	Learning And Evaluation:	(5)	Good	(3)	(2)	(1)
	e		(4)	~ /		
	Clarity in explaining the					
1	subject &					
	Treats students with respect					
	and courtesy.					
2	Communicates distinctly					
	and effectively.					
3	Aims and objectives of the					
5	syllabi are well defined and					
	clear to students					
4	Course content is followed					
-	by corresponding reference					
	books/materials					
5	The course/syllabus has					
	good balance between					
	theory and Lab.					
6	The course/syllabus of this					
	subject increased my					
	knowledge and perspective					
	in the subject area					
7	The course/program of					
	studies carries sufficient					
	number of optional papers.					
8	Counseling the faculty					
	through counselors					
	About building confidence					
	in handling the					
	subject(referral*)					
9.	Deputing faculty to FDP(if					
	any)					
	(referral)					

#### REMARK IF ANY

\_\_\_\_\_

## Figure 9.2.6: Sample Corrective Measure on teaching-learning

					Conse	olidate	Stude d Face	ent Fer ulty Sci	edback orecar	f Engi k Repo d for l	neerir ort EC Dej	partme	ent	9									
SR. No.	Name of the faculty	CLASS	of Stude	Subjects	Q1	Q2	Q3	Q4	Q 5	Q6	07	0.8	0.9	0 10	0 11	01	01	3 0 14	01	5 01	5 01	7 01	8 A
		SEC A	1	ECE44	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
		SEC A	1	ECE44	5	5	5	5	5	5	5	5	5	5	5	5	5	5	.5	5	-5	5	1
1	Ms. Monika Gupta	SEC A	3	ECE45	4.67	4.67	4.67	4.67	4.67	4.67	4.67	4.33	4.67	4.67	4.67	4.67	4.67	4.67	4.33	4.67	4.67	4.67	4.0
		EL SEM IV	43	19ECE45	4.09	4.12	4.02	4	4.28	4.05	4.33	4.05	4.37	4.1	4.17	4.05	4.07	3.93	3.65	4	3.93	3.88	4.0
		EL SEM IV	13	19ECL48	4.42	4.33	4.58	3.68	3.84	4 32	3.74	3.58	4	3.79	3.79	4 32	3.74	3.74	3.78	3.53	3.74	3.68	3.7
1			Overall av	8	4.35	4.31	4.33	4.25	4.38	4.28	4.36	4.2	4.41	4.3	4.34	4.26	4.33	4.27	4.1	4.27	4.28	4.25	4.2
SR. No.	Name of the faculty	CLASS	No of Student s	Subjects	Q1	Q2	Q3	Q4	Q.5	Q 6	Q.7	Q.8	Q.9	Q 10	Q 11	Q 12	Q 13	Q 14	Q 15	Q 16	Q 17	Q 18	Avg
2	Ms. Vijaya	SEC B	1	18HSS272	4	4	3	3	3	4	3	4	3	4	3	4	4	3	4	3	4.	3	3.5
SR. No.	Name of the faculty	CLASS	No of Student	subjects	4 Q1	4 Q2	3 Q3	3 Q4	3 Q 5	QG	3 Q7	QS	3 Q 9	4 Q 10	3 Q 11	4 Q 12	4 Q 13	3 Q 14	4 Q 15	3 Q 16	4 Q 17	3 Q 18	3.5 Avg.
		SEC A	1	ECE43	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
		SEC A	19	19ECL47	3.68	3.42	3.63	3.58	3.32	3.32	3.68	3.68	3.74	3.63	3.53	3.47	3.32	3.42	3.5	3.47	3.37	3.26	3.5
		SEC C	1	ECE44	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
		SEC C	50	19ECE44	4.46	4.28	4.42	4.48	4.52	4.42	4.48	4.5	4.5	4.44	4.5	4.16	4.44	4.4	4.32	4.44	4.4	4.44	4.42
3	Ishani Mishra	EC SEM VI SEC C	46	ECE61	4.3	4.33	4.3	4.28	4.33	4.24	4.35	4.28	4.5	4.33	4.37	4.33	4.41	4.37	4.35	4.3	1.35 4	1.33 4	1.34
		SEC C	14	ECE61	4.29	4.21	4.14	4.14	4.07	4.07	4.14	4.14	4.43	4.21	4.36	4.21	4.29	4.14	4.29	4.21	.29 4	.36 4	.22
	The second second	SEC C	13	ECE61	4.23	4.23	4.31	4.38	4.46	4.23	4.46	4.23	4.54	4.15	4.31	4.15	4.38	4.38 4	4.08	4.08 4	53 4	.08 4	.27
1000		SECC	Overall av	8	4.37	4.33	4.36	4.35	4.35	4.29	4.39	4.36	4.47	4.37	4.39	4.32	4.37	1.36 4	.35 4	.34 4	.34 4.	33 4.	.36

### 9.2 (C) Sample Feedback analysis for ECE

Figure 9.2.7: Sample Students feedback on Teaching -Learning

## 9.2 (D) Sample Feedback analysis for ME

					New	lorizon	College	ot Engli	neering														
						itudant	Feedba	rck Ronr	rt														
				Consc	lidated	Faculty	Scorec	ard for N	1E Depa	artment													
SR. No.	Name of the faculty	CLASS	No of Students	Subjects	Q1	Q 2	Q 3	Q.4	Q 5	Q 6	Q.7	Q 8	Q.9	Q 10	Q 11	Q 12	Q 13	Q 14	Q 15	Q 16	Q 17	Q 18	Avg.
		ME SEM IV SEC A	69	MEE452	4.77	4.77	4.77	4.77	4.7	4.72	4.77	4.64	4.7	4.64	4.67	4.57	4.64	4.75	4.64	4.7	4.65	4.62	4.69
		ME SEM IV SEC A	24	MEE452	4.88	4.83	4.88	4.79	4.63	4.83	4.88	4.58	4.63	4.79	4.58	4.54	4.63	4.83	4.79	4.79	4.71	4.67	4.74
1	Prof. Puneeth H V	MESEM IV SEC A	23	MEE452	4.65	4.65	4.7	4.65	4.65	4.61	4.65	4.57	4.7	4.61	4.7	4.57	4.61	4.65	4.52	4.57	4.61	4.57	4.62
		ME SEM IV SEC A	22	MEE452	4.77	4.82	4.73	4.86	4.82	4.73	4.77	4.77	4.77	4.5	4.73	4.59	4.68	4.77	4.59	4.73	4.64	4.64	4.72
			Overall avg		4.77	4.77	4.77	4.77	4.7	4.72	4.77	4.64	4.7	4.64	4.67	4.57	4.64	4.75	4.64	4.7	4.65	4.63	4.69
SR. No.	Name of the faculty	CLASS	No of Students	Subjects	Q1	Q 2	Q 3	Q.4	Q 5	Q 6	Q.7	Q 8	Q.9	Q 10	Q 11	Q 12	Q 13	Q 14	Q 15	Q 16	Q 17	Q 18	Avg.
		ME SEM IV SEC A	69	MEE462	4.84	4.78	4.84	4.78	4.7	4.75	4.84	4.71	4.72	4.72	4.64	4.78	4.72	4.75	4.65	4.74	4.7	4.7	4.74
		ME SEM IV SEC A	24	MEE462	4.92	4.83	4.92	4.83	4.79	4.88	4.92	4.79	4.75	4.71	4.71	4.79	4.71	4.71	4.5	4.75	4.67	4.75	4.77
2	Prof. Ronald Reagon R	ME SEM IV SEC A	23	MEE462	4.78	4.74	4.78	4.78	4.61	4.7	4.74	4.61	4.7	4.65	4.48	4.83	4.65	4.74	4.7	4.7	4.7	4.7	4.7
		ME SEM IV SEC A	22	MEE462	4.82	4.77	4.82	4.73	4.68	4.68	4.86	4.73	4.73	4.82	4.73	4.73	4.82	4.82	4.77	4.77	4.73	4.64	4.76
			Overall avg		4.84	4.78	4.84	4.78	4.7	4.75	4.84	4.71	4.73	4.73	4.64	4.78	4.73	4.76	4.66	4.74	4.7	4.7	4.74
SR. No.	Name of the faculty	CLASS	No of Students	Subjects	Q1	Q 2	Q 3	Q.4	Q 5	Q 6	Q 7	Q 8	Q.9	Q 10	Q 11	Q 12	Q 13	Q 14	Q 15	Q 16	Q 17	Q 18	Avg.
3	Dr. Kavitha	ME SEM IV SEC A	69	MAT41	4.12	4.07	4.16	4.32	4.42	4.14	4.39	4.14	4.41	4.19	4.33	3.91	4.42	4.25	4	4.14	4.1	4.23	4.21
			Overall avg		4.12	4.07	4.16	4.32	4.42	4.14	4.39	4.14	4.41	4.19	4.33	3.91	4.42	4.25	4	4.14	4.1	4.23	4.21
SR. No.	Name of the faculty	CLASS	No of Students	Subjects	Q1	Q 2	Q 3	Q.4	Q 5	Q.6	Q.7	Q 8	Q.9	Q 10	Q 11	Q 12	Q 13	Q 14	Q 15	Q 16	Q 17	Q 18	Avg.
		ME SEM IV SEC A	69	MEE442	4.52	4.46	4.52	4.54	4.51	4.41	4.54	4.33	4.55	4.51	4.55	4.36	4.51	4.45	4.36	4.51	4.52	4.52	4.48
		ME SEM IV SEC A	24	MEE442	4.5	4.42	4.5	4.54	4.63	4.46	4.58	4.25	4.58	4.5	4.58	4.33	4.58	4.46	4.33	4.5	4.54	4.46	4.49
4	Prof. Raghu Tilak Reddy	ME SEM IV SEC A	23	MEE442	4.39	4.3	4.35	4.35	4.17	4.17	4.3	4.17	4.39	4.43	4.35	4.13	4.22	4.17	4.17	4.3	4.35	4.52	4.29
		ME SEM IV SEC A	22	MEE442	4.68	4.68	4.73	4.73	4.73	4.59	4.73	4.59	4.68	4.59	4.73	4.64	4.73	4.73	4.59	4.73	4.68	4.59	4.68
			Overall avg		4.52	4.47	4.53	4.54	4.51	4.41	4.54	4.34	4.55	4.51	4.55	4.37	4.51	4.45	4.36	4.51	4.52	4.52	4.49

Figure No. 9.2.8: Faculty Feedback

## New Horizon College of Engineering Department of Mechanical Engineering

#### Faculty Feedback Analysis for EVEN Semester 2018

Total number of Fact	ulties	57
Feedback	4.5-5	29
Feedback	4-4.5	25
Feedback	3.5-3.99	03
Feedback	less than 3.5	00



Figure No. 9.2.9: Faculty Feedback analysis

- 1) List of faculties with student feedback <3.5-----Nil
- 2) Activity followed for faculty having student feedback <3.5-----Nil
- 3) FDP attended by faculty having student feedback<3.5-----Nil
- 4) NPTL courses attended by faculties having student feedback <3.5-----
- Nil

# 9.3. Feedback on facilities (5)

(Assessment is based on student feedback collection, analysis and corrective action taken).

A standard procedure of feedback on facilities demonstrates a commitment to excellence in the planning and provision of services across different departments of the University. The feedback is collected from the students on the facilities available in the university such as class room infrastructure, library, laboratories, hostel, playground, Internet facility, food court etc.

The feedback is analyzed and the necessary corrective measures are implemented after discussions with the management.

# The feedback on facilities is taken up in the department as per the following steps:

- 1) Feedback collection
- 2) Feedback analysis
- 3) Corrective measures

#### Feedback Collection:

A formal feedback is gathered, at least once during every semester, about the use and satisfaction with a variety of facilities and services which are categorized as

- General Facilities & Services
- Technology Services
- Specialized Services

# A broad range of parameters that are used for collecting feedback on facilities is given below:

- Availability of teaching aids such as multimedia projectors, speakers etc. in classrooms/ tutorial rooms
- Library space and ambience, timings and usage
- Adequacy of number of titles in library or range of text and reference books covering syllabus relating to different courses
- Adequacy of Internet facilities in terms availability of terminals & band width
- Drinking water facilities & their maintenance
- Canteen facilities
- Medical & first-aid facilities
- Housekeeping & maintenance

- Infrastructure for Co-curricular and extra-curricular activities
- Mentoring system to help students at individual level

The details of feedback collection process on facilities are summarized in Table 9.3.1

Items	Description
Feedback collected on all facilities provided	VES
by the college.	125
Feedback collection process	Computerized
Feedback receiver	Administrative officer / Admin
	manager
Frequency of feedback collection	Once in an academic year
	Strongly agree
Matrice used for calculation	Agree
Metrics used for calculation	Partially agree
	Disagree
Purpose of comments	For improving the quality of
rupose of comments	facilities.

#### Table 9.3.1: Details of feedback collection process

#### Format of student feedback on Facility

#### Feedback analysis

A combined report is prepared on the basis of students' feedback under the supervision of committee and corrective action suggested to the appropriate departments/person to resolve these problems and improve the facilities continuously. A sample feedback on facilities is given below.

On university website, a student's portal is made available to post students grievances. When students register their complaint, they are being referred to corresponding department for timely resolution.



Figure 9.3.1: Table Tennis room

Figure 9.3.2: Gymnasium

#### The feedback format consists of following questions

#### Questionnaire

1. How do you rate the Canteen facilities provided by the institution?

2. How do you rate the class room Infrastructure?

3. How do rate the cyber lab facility provided by the institution?

4. Are you satisfied with the extracurricular infrastructure at College?

5. Are you satisfied with the Hostel Facility provided by the institution?

6. How do you rate the Lab facilities at the institution?

7. How do you rate the Library Facilities provided by the institution?

8. Are you satisfied with the placement support provided?

9. How is the responsiveness of Accounts office?

10. How is the responsiveness of College Admin office?

11. How is the responsiveness of Exam office?

12. How do you rate the Sports facilities provided by the Institution?

- 13. Are you satisfied with the toilet facilities and Maintenance?
- 14. How do you rate the transport facility provided by the college?

#### **Rating of Scale**

5-Excellent4-very good3-good2-satisfactory1-below average

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On the institution website, a student's portal is made available to post students' grievances. When students register their complaints, they are being referred to corresponding department for timely resolution.

#### **Corrective Measures**

Some of the corrective actions taken are

- Recreation centre
- Dance room and music room in boys' hostel
- Gymnasium
- Table Tennis room
- Enhancement of food court

#### 9.3(A) Feedback analysis for CSE

A combined report is prepared on the basis of students' feedback under the supervision of committee and corrective action suggested to the appropriate departments/person to resolve these problems and improve the facilities continuously.

SI.No.	Particulars	Rating	SI.No.	Particulars	Ratin
	Quality of training programs provided - Technical.	Select ~	2	Quality of training programs provided - Non Technical (Soft Skills & Aptitude).	Select
з	Satisfaction on number of opportunities provided.	Select ~	4	Placement Office responsiveness to students.	Select
5	Satisfaction on profile of companies visiting NHCE.	Select ~	6	Overall satisfaction on placement assistance.	Select
		Feedback	to the colleg	e	
SI.No.	Particulars	Rating	SI.No.	Particulars	Ratin
1	Library facilities.	Select ~	2	Canteen fa-cilities.	Select
з	Placement support provided.	Select ~	-4	Lab facilities.	Select
5	Cyber Lab facility.	Select ~	6	Classroom Infrastructure.	Select
~	Extra-curricular activities at College.	Select 🗸	8	Responsiveness of college admin office.	Select
9	Responsiveness of Exam office.	Select 🗸	10	Responsiveness of Accounts office.	Select
**	Transport facilities of the College.	Select ~	12	Toilet facilities and maintenance.	Select
13	Hostel Facility.	Select ~	14	Sports Facility.	Select
	Feedbac	k for placement Tr	ainer/Institute	Aptitude Training	
SI.No.	Facultys preparation for	Rating	SLNo.	Fundamental Accord to Acco	Rating
1	the class.	Select ~	2	examples.	Select
з	Subject explained was easy to understand.	Select 🛩	4	Faculty answers to your queries / questions.	Select
5	Clarity in explaining the subject.	Select ~	6	Overall satisfaction.	Select
7	Content quality - relevant & usefulness.	Select 🛩	8	Communicates distinctly and effectively.	Select
ments (ii	fanv)				
at a					

Figure 9.3.3: Sample Student feedback on facilities

#### 9.3(B) Feedback analysis for CV

#### NEW HORIZON COLLEGE OF ENGINEERING, BANGALURU DEPARTMENT OF CIVIL ENGINEERING <u>FEEDBACK FORM ON FACILITIES</u>

YEAR:	SE	EM:			
SEC:					
FACILITIES/					
RATINGS	EXCELLENT	VERY	GOOD	AVERAGE	FAIR
	(5)	GOOD	(3)	(2)	(1)
		(4)	(3)	(2)	(1)
CLASS ROOM					
LIDDADY					
LIBKARY					
LABORATORIES					
CANTEEN					
PLAYGROUND					
INTERNET					
FACILITY					
INDOOR STADIUM					
PARKING SPACE					
COLLEGE					
AMBIENCE					
MEDICAL FACILITY					
OVERALL RATING					

#### REMARK IF ANY

\_\_\_\_\_

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Figure 9.3.4: Sample Student feedback on facilities

# 9.3(C) Feedback analysis for ECE

SI. No.	Year	Problem	Action taken
1		The number of engineering mathematics book in library are less.	Informed to Library
2		Mini project guide is not supportive. Any time we try to meet her she is busy. She is not able to guide properly.	Addressed the min project in charge and asked to communicate the same to all guides
3	2 <sup>nd</sup>	AEC lab equipment, especially the CRO have lot of problems showing the output waveform which result in not completing the experiment on time.	Informed the lab instructors to maintain and service the equipments.
4		Change the teacher of analog electronic, he is dis-respecting the students.	Class was monitored by Dean Academics and suggestions were given.
5	314	The course work this year has been too hectic. Two case studies along with extra curricular certificate is not feasible. It should be made to one case study and one certificate	In coming semester there will be one case study and one co- curricular certificate
6		The components in AC lab are broken or not working most of the time.	Informed the lab instructors to maintain and service the

Figure 9.3.5: Sample Student feedback on facilities

#### 9.3.4 Feedback analysis for ME

	Mechanical Engineering Semester: SEM IV Section : SEC B			Feedback On Institution for AUGUST/SEPT ODD SEM 2018			
SI No	Remarks	Class teachers Remarks	SI NO	Question	1.0		
1	Due to such massive pandemic plz let the students stay at home safely and conitnue their semesters	Informed	JE.NO.	Quesault	Avg. Rating		
	I have been working with HR dept. and Executive Director Prof.		Engineering				
	Gurucharan Singh and his HR team have always guided and encouraged me, they have also responded to me after college hours.		1	Canteen facilities	3.96		
12.5	ambassador for a japanese company. I was just a student with		2	Classroom Infrastructure	3.63		
	and this credit goes to ED sir and his team. Me being a student from mechanical dept. my HOD Dr.M.S. Ganesha Prasad sir is soo		3	Cyber Lab facility	3.75		
2	supportive and he has always been there allowing me to take part in events and other extra curricular activities.	Noted	4	Extra-curricular activities at College	3.65		
in the second	Also my class teacher Prof.Rajesh sir has been protective and helping me cope up with the portions when i miss classes for		5	Hostel Facility	3.31		
	events, he has also helped me to convey the required message to subject teachers. Lhereby thank all the faculty and college officials for trusting me and giving me the opportunity and being soo friendly and helpful.		6	Lab facilities	3.93		
1			7	Library facilities	4.19		
	THANK YOU ALL. Kindly request the college to provide information regarding the end	Informed and	8	Placement support provided	3.64		
3	Request teachers to upload the timetable for online classes the previous evening to avoid confusion and provide clarity	parent-teachers	9	Responsiveness of Accounts office	3.13		
4	Place check ower mechanics block washrooms have a proper flash to	Informed to the concered staff	10	Responsiveness of college admin office	3.20		
5	Please make college half day and decrease the price in canteen Proor transportation from under manual and a second	No comment	11	Responsiveness of Exam office	3.45		
6	noice beside construction plz do it in morng not night thank you	Informed to the concered staff	12	Sports Facility	3.49		
7	SOME ANSWERS WERE RESPONSE FOR THE ONLINE CLASS EDUCATION SYSTEM.	Discussed with all	12	Toilet facilities and maintenance	3.55		
-	TAN NOT ABLE TO UNDERSTAND MUCH AS I AM A DULL STUDENT	students	10	Turner facilities of the College	3.42		
8	amount of fee that we students pay. There is a lot of unnecessary transactions that are being levied on	No comments	14	Total Average	3.59		
9	Try to provide extra knowledge for gate exam and more	Informed		No of Studente	3,757		
10	Wifi provided by the coll the not up the max in the first sector to the sector of the	Informed	CALSE!	No of Students.			

Figure No. 9.3.6: Feedback on facilities

# 9.4 Self-Learning (5)

(The institution needs to specify the facilities, materials and scope for self-learning / learning beyond syllabus, Webinars, Podcast, MOOCs etc. and evaluate their effectiveness)

Self-learning is endorsed in the institution by generating self-learning facilities under various learning activities, resources and environments for students based on their academic background. Students are encouraged for self-learning by personal counseling and mentoring.

#### Scope of Self-learning

- Web based learning (Learning a course online or partially online through MOOCs, NPTEL, SWAYAM, edX, Coursera, Webinars, YouTube)
- Library and Digital Library
- McGraw-Hill digital books
- Learning activities around collaborative projects (PBL- Project Based Learning)
- Learning around case descriptions (Case Study)
- Assignments
- Professional bodies
- Club activities

## Additional resources for online learning for both faculty and students

Exposure was given for additional learning resources both for faculty and students. Some of the resources are listed below:

- NHCE digital library resources on the Internet (earlier it was on Intranet) text books / Question papers / Lesson modules / Student project reports / other references / e-books are available online
- 3062 users from New Horizon College of Engineering registered on the portal vtuconsortium.org, qualifying as the highest number among all the colleges as per the communication received from Prof. Konnur, Advisor- VTU Consortium, VTU, Belagavi
- Virtual labs
- e-Content URL's
- Open access resources
- 408 e-books
- Online certification courses
- Websites for academic enrichment
- Webinars

Table 9.4.1: A sample list of webinars organized during Covid				
Webinars organized by New Horizon College of Engineering during Covid (to				
name a few)				
Coping with studies during dark clouds of Covid 19Collegedunia				
How to sharpen the skills?				
Math works				
MATLAB				
Intellectual property rights				
Competency mapping and career direction				
Career opportunities post Covid 19				
Latest trends in Machine Language				
Embracing the new normal				
Future of HR				
Cracking the code of career development				
Data driven decision-making using AI				
Emerging trends in business and finance				
Power train and electromagnetic transients				
Reshaping of HR practices and business excellence				
AI applications in industries				

Following are the various modes of self-learning and facilities created in the institution.

Web based learning	<ul> <li>It creates the opportunity for sharing ideas &amp; knowledge and also helps improving lifelong learning skills by providing easy access to global resources.</li> <li>It improves cross-cultural relation-ships which lead to collaboration between institution educators and learners locally and internationally.</li> <li>Enhances active learning.</li> <li>Contextualized content can be shared by all</li> </ul>				
Library/Digital Library	<ul> <li>•Contextualized content can be shared by all</li> <li>•The college library provides information and ideas that are fundamental to functioning successfully in today's information and knowledge-based society.</li> <li>•College library equips students with learning skills and develop their knowledge</li> <li>The Digital Library offers</li> <li>•NPTEL videos.</li> <li>•Sufficient systems with multimedia facilities.</li> <li>•Institutional membership of DELNET, a library networking database.</li> <li>•Internet facility</li> </ul>				
Project Based Learning	<ul> <li>Enables students to think from different angles or simply 'to think out of the box'.</li> <li>To aid in language development and in particular subject areas of study.</li> </ul>				

	• Helps in building knowledge base.		
	• Helps in building Team work		
Case study	<ul> <li>Students are actively engaged in figuring out the principles by abstracting from the examples. This develops their skills in:</li> <li>Problem solving</li> <li>Analytical tools, quantitative and/or qualitative, depending on the case</li> <li>Decision making in complex situations</li> <li>Coping with ambiguities</li> </ul>		
Professional Bodies	<ul> <li>Joining a professional association will be one of the most important activities in a student's career.</li> <li>To increase knowledge in their own fields, expand networking possibilities or jump start to job hunt, a professional association membership is an option which is worth exploring.</li> <li>All career options are corresponding professional association that offers valuable information and resources for their career enhancement.</li> <li>ISTE, IEEE and CSI student chapters are established where the students can achieve the knowledge about the advance engineering skills.</li> </ul>		
Club Activities       • Helps in building knowledge base.         • It increases visibility, credibility, and competit advantage         • It can be an excellent chance to network with other peo in related field, allowing the student to feel more integra into professional community			
Assignments	<ul> <li>It enables students to go through the topics in a more elaborate manner in order to explore the academic topic which lead to an overall better learning experience for students.</li> <li>Assignments help the students to understand the subject in a more detailed pattern.</li> <li>Faculty will conduct assignments on regular basis with two units of every subject and these are graded.</li> </ul>		

## The Source and Tools of Self Learning

The sources and tools of self-learning used are as shown in Table 9.4.3

Sl. No.	Self-Learning Sources	Tools	ICT Support
		NPTEL	
	E Courses/Learning	Course Era	Computer System
1.		Swayam	Internet Connection
		Udemy	
		Conducted by different	Computer System
2.	Workshops	organizations	Internet
			Connection
		Organized by various	Computer System
3.	Conferences	institution	Internet
			Connection
		Self-study topics as	Computer System
4.	Self-Study	specified by faculty	Internet
		handling courses	Connection
		Students gain	Computer System
5.	Projects Based	knowledge and skills	Internet
	Learning	by developing mini	Connection
	_	projects and projects	

 Table 9.4.3: Sample Sources and tools of self-learning

#### **Process of Self Learning**

#### In the classrooms:

• Faculty members run at least 2 video lectures per course and evaluate as per Table 9.4.4

#### Giving Reference of Materials

- Faculty member shall give reference of video lectures or other online materials for every topic.
- The reference shall be mentioned in the lecture schedule

#### Table 9.4.4: Mode of evaluation with various related sources of self-learning

Sl No.	Mode of Evaluation	Related Sources in which student shall be asked by faculty member to prepare through self-learning	Description
1.	Quiz	E-Books, Course and lecture materials	Questions are framed on the portion of content in which student areasked to prepare through self- learning using all sources mentioned

			Quiz is conducted in the class or it shall be conducted online or in extra class (if students are free)
2.	Quiz	On the video material posted by faculty for flipped class room.	Quiz is conducted in the class or it shall be conducted online
3.	Presentation	Magazine, Journal and articles	Student is asked to prepare on particular topics through self study (in magazine, journal
4.	Assignment onproblemsolvi ng	Course and lecture materials	Assignment on problem solving is given by faculty member on lecture material
5.	Report preparation	Magazine, Journal and articles	Students are asked to write a review report on literature
6.	Viva	Books, Course and lecture materials	Faculty member conducts viva voce toknow the level of understanding
7.	Quiz /test	MOOC/SWAYAM/NP TELotherICT tool	Students register and take up the examination and obtain certificates

## 9.4(A) Scope of Self-learning for CSE

## **MOOC** Courses by Students

MOOC courses are used as an alternative method to bridge the gap and expand the existing knowledge. Every academic year students are appraised of the MOOC courses that can be considered as self-study for specific courses of the semester. Students are encouraged to take up at least one MOOC for the courses specified. This exposes the student to the different avenues of learning like interactive user forums and multimedia repositories, thereby ensuring the development of lifelong learning skills.

A year wise consolidation of the MOOC courses registered and completed by students is given in Table 9.4.5.

Sl · N o	Year/ Sem	NPTEL Course Name	Course Duratio n	Total No. of Students Registered			
Academic Year 2019-2020							
1	3rd/6 Sem	Social Network Analysis	12 Weeks	64			
2	3rd/6 Sem	Cloud Computing	8 Weeks	27			
3	3rd/6 Sem	Machine Learning with Python	12 Weeks	2			
4	4th/7 Sem	Data Science for Engineers	8 Weeks	81			
5	4th/7 Sem	Introduction to Machine Learning (Iitkgp)	8 Weeks	3			
6	4th/7 Sem	Introduction to Machine Learning (Iitm)	12 Weeks	4			
7	4th/7 Sem	Machine Learning for Engineering and Science Applications	12 Weeks	3			
8	4th/7 Sem	Introduction To Internet Of Things	12 Weeks	13			
9	4th/7 Sem	Human Computer Interactions	8 Weeks	9			
1 0	4th/7 Sem	Ethical Hacking	12 Week	4			
1 1	4th/7 Sem	Practical Machine Learning withTensorFlow - Online	8 Weeks	7			
		Academic Year 201	8-2019				
1	3rd/6 Sem	Social Networks	12 Weeks	40			
2	3rd/6 Sem	Privacy and Security In Online Social Media	12 Weeks	25			
3	3rd/6 Sem	Introduction to Soft Computing	8 Weeks	38			
4	3rd/6 Sem	Multimodal Interaction	4 Weeks	36			
	Academic Year 2017 – 2018						
	No NPTEL Planned For This Academic Year						

## Table 9.4.5: MOOC Courses Registered and Completed

## **Paper Publication**

The department also encourages students to publish papers in national/international journals. To promote this culture department/institution organizes

National/International conferences as well. Table 9.4.6 shows the papers published by the students of Computer Science and Engineering in various journals/conferences

Sl. No	USN	Name Of The Student	Title Of The Paper	Journal	Date Of Publica tion
Academic Year 2019-2020					
1	1NH16CS079, 1NH16CS093, 1NH14CS091	Eric, Pooja Nimje, Roshlin Acharya, Prachi Singh	Face emotion recognition techniques		Dec-19
2	1NH16CS064	Moni Krithika S	MoC++ Interpreter for the C++ language		Dec-19
3	1NH16CS009, 1NH16CS069	Anand R Patil, Nasir Hasan	We Vote – Secure voting using Blockchain	Internati onal	Dec-19
4	1NH16CS077	P. GiriKishore,AthiraA jayakumar	Intelligent Character Recognition- Character detection using Neural Networks	of Scientifi c Researc h in Comput	Dec-19
5	1NH16CS069	Nasir Hasan Dilawar	Big Data in Telecommun ication	Science, Enginee	Dec-19
6	1NH16CS073 1NH16CS074 1NH16CS145	NirupashreeS Nisha R Kalyan Naidu M	A review on emotional intelligence	Informa tion Technol	Dec-19
7	1NH17CS745	Savion Mario Sequeira	Overview of Use of Raspberry Pi in Implementati on of Machine Learning and Image Processing	ogy ISSN: 2456- 3307 UGC Journal No: 64718   Impact Factor =	Dec-19
8	1NH16CS094	S Sivan Chakravarthy	Analyzing GraphQL and implementin	4.032	Dec-19

### Table 9.4.6: Paper Publication by Students

			g the framework on Android	
9	1NH16CS066	Namratha L Bemane	devices Safe-Ride: Automatic Detection of Potholes and Humps on Roads using Ultrasonic Sensor and Notifying the Same to the Drivers	Dec-19
10	1NH16CS051, 1NH16CS118	Kirti R Nambiar,Vaibhavi Kulkarni	Credit card reader with face recognition using webcam	Dec-19
11	1NH16CS727, 1NH16CS701	Shalini Koyikkal, Anurag Rajshekar	Efficient Buildings– A key element to build smart cities	Dec-19
12	1NH17CS106	Punyasri H	Feature selection for smartphone- based recognition of human activities and postural transitions	Dec-19
13	1NH17CS753	Srinivas R	An Application of Autocrat Workshop Natural language processing- Interaction between	Dec-19
14	1NH16CS700,1N H16CS709	Alankrita Srivastava, Hritik	humans and machines	Dec-19
		Academic Year 201	8-2019	

1	1NH15CS084	Nissi Thomas	Indexing solr with MySQL database		May-19
2	1NH16CS112	Sumangala S	APACHE PIG as a platform for Data analytics		May-19
3	1NH16CS736	V.C Chandra Kishore	A survey of Big Data analytics-it's challenges		May-19
4	1NH15CS092	Pranav M	Modelling cognitive states of pilots to minimize commercial aviation disasters Internat onal		May-19
5	1NH15CS714	D. Sakthi Keerthana	Weather prediction using deep learning	of Informa tion and	May-19
6	1NH16CS086, 1NH16CS733, 1NH16CS750	Rahul Jain, Sriram Gupta Kaluva, Sandhya Reddy	Machine learning: Supervised learning	ing Science ISSN	May-19
7	1NH15CS148	Soundarya Saravan	Hand gesture recognition using convolutiona l Neural network	0972- 1347	May-19
8	1NH15CS048	Harshitha H	Agricultural crop yield prediction using Machine learning		May-19
9	NH15CS044 H.D Nidhishree		Literature survey on predicting Thyroid Cancer using machine learning algorithms		May-19

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10	1NH16CS733	Sriram Gupta Kaluva	Data and Pre- Processing of data for Machine Learning	May-19
11	1NH16CS031	Edwin Benny	Dairy farm tracking using Blockchain	May-19

## 9.4(B) Scope of Self-learning for CIVIL

	Compulsory N	IPTEL courses:	
Web based learning	New Horizon Colleg	e of Engineering, Bangalore	
web based learning	Department	of Civil Engineering	-
	Mentors for V semeste	-	
		2020	-
	Sl. No. Name of th	e Course Mentor	-
	1 Design of Masc	nry Structures Dr. N Subramani	-
	2 Waste Water Treatr	nent and Recycling Dr. N Mahesha	
	5 Schedung Feelin		
	+91-80-6829 7777 ■ admissionan	hce@newhorizonindia.edu	OPAC AICTE Schemes News Fee
		Home - Abou	t ~ Resources ~ Activities ~ E – Portals ~ Circulars
	of the second second	1 1/220	The state
	The second state of		
Librowy/Disital Librowy	I CARLES IN CARLES		
Library/Digital Library	E - RESOUR	CES	
	Home E Resources		
	E - Resources		
	E-JOURNALS	E-BOOKS	RESOURCE SEARCH PLATFO
	Elsovier     Toylor & Erancis	Elsevier     McGrow Hill Education	<ul> <li>Knimbus Digital Library (Search Pl Remote Access)</li> </ul>
	Springer Nature	<ul> <li>Taylor &amp; Francis</li> </ul>	Netanalytiks (Writing Tool)     Turnitin (Similarity Check)
	<ul> <li>Institution of Civil Engineers ( ICE ) Proceedings)</li> </ul>	(Conference	<ul> <li>Tornical (Similarity Check)</li> </ul>
	<ul> <li>Emerald</li> </ul>	Pockt	
	The Instit	ution library provi	des information
	1.1	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	
	and ideas	that are fundamen	tal to functioning
	successfu	lly in today's infor	mation and
	knowledg	e based society.	
	• The Instit	ution library equip	s students with
	learning s	kills and develop t	he knowledge

	•	Availability of NPTE	L videos.				
	<ul> <li>Availability of NPTEL videos.</li> <li>Sufficient systems with multimedia facilities.</li> </ul>						
	<ul> <li>Institutional membership of DELNET. a</li> </ul>						
	Institutional memoership of DELNET, a     library networking database						
	library networking database.						
	•	Internet facility					
	~	LIST OF JO	URNALS				
	SI no	Title	No of Issues	Publisher			
	1	New Bldg, Materials & Construction World	12	NBM&CW			
	2	Civil Engineering Construction Review	12	TSEPL			
	3	Indian Concrete Journal	12	TICJ			
	4	Journal of Construction Management	4	NICMAR			
	5	Structural Engineering	4	IUP			
	6	Indian Highways	12	IRC			
Project Based Learning	P1 de sc te of	roject-based learning evelopment of critical t olving skills by allowing ams on real world proje f its effectiveness, th	(PBL) hinking an g students ects. Howe ne use o	promotes nd problem- to work in ever, in spite of PBL in			
	er th in	ngineering classrooms have challenges associated nplementation.	as been lir l with its	nited due to design and			
	4 Fi Pi	Mini Projects including inal year projects are roject Based Learning	Extensive	e survey and at based on			
Case study	T at	hrough case studies, stud pility to learn and	ents will in retain c	mprove their concepts in			

	their courses, on work terms and in their
	professional lives. One of the best means to
	create case studies is by converting them from
	student-generated work reports.
	Joining a professional body opens up a vast
Professional Bodies	network of knowledge and expertise that is much
	wider than your immediate university
	community. Students will gain access to those
	who are one or two steps ahead of them and it
	helps them feel part of a community of like-
	minded people
	ICI Students Chapter iis in existence
Club Activities	Prakruthi club
	To identify major environmental problems and to
	find the best possible remedies.
	To create an awareness on the need for d
	environment preservations for a better tomorrow.
	Avishkar club
	To provide insight into existing and evolving
	technologies.
	To familiarize with real life problems and the
	ideas to tackle them
	It enables students to go through the topics in a
Assignments	more elaborate manner in order to explore the
	academic topic which lead to an overall better
	learning experience for students.
Industrial visit	Industry visits help enhance interpersonal skills
	and communication techniques. Students become
	1
	more aware of industry practices and regulations
	more aware of industry practices and regulations during industry visits. Industry visits broaden the

	workforces from different industries
Internships	During an internship, students work on real
	projects, get acquainted with the current market
	trends, sharpen their technical skills, and learn in-
	demand technical skills. Apart from this, an
	internship introduces them to the corporate world
	,teaches them professional ethics and polishes
	their soft skills like communication and inter
	personal skills. With an internship they can
	become engineers way before their graduation
	which could prove to be extremely helpful for an
	they join a full time job
Conference/Seminar/work	Engineering is forever changing. Technology
shop	changes. Methods and processes change.
	environmental focuses change. Everything
	increasing Conference/Seminar/workshop holp
	students in
	Broadoning their knowledge
	Cross pollinating their ideas
	Developing their Network
	Advancing their careers
	Re igniting their enthusiasm or passion.

	Records of Self Learning Activities to be maintained by each faculty							
SI. No	Mode of Evaluati on	Sourc e of Self learnin g activiti es	Nam e of sourc e of self learn ing activi ties	URL Refere nce given by faculty	Date of event conduct ed by faculty	No. of partici pants	Avg mark s (%)	Event conduct ed by faculty (Yes/N
		Lecture	CIV824, lecture no.54	https://for ms.gle/Wf 3YUt2mR TSKfTZv 6	17/04/202 0	64	90%	yes
1	Quiz	Videos of Flippe d class room	Course video – on the topic "Manufa cturing of concrete "	https://doc s.google.c om/forms/ d/1uSM1J ZOUpMu WRC9xeT 7Dh- qhGorCv DM0Ecjr DJ9yC8Y/ edit	30/04/202 0	54	72%	yes
2	Presentat ion	Jour nal and artic les	Institute of Civil Engineer s - ICE	a)Suma. P (civ33) b) suma.P (civ653) c)swettijh a (civ824)	07/11/201 9 19/05/202 0 24/04/202 0 19/05/202 0	97 62 64 60	80% 70% 80% 70%	Yes Yes Yes Yes
3	Assign ment on proble m solving	Cours e and lectur e Mate rials	Concrete technolo gy – lecture materials on Concrete mix design	https://clas sroom.goo gle.com/u/ <u>1/c/OTE3</u> <u>Nzk5NzE</u> zMzla/a/O <u>TE3Nzk5</u> <u>NzEzNTN</u> a/submissi	21/04/202 0	52	100%	yes

## Table 9.4.7: Records of evaluation of self-learning activities

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				<u>ons/by-</u> status/and- <u>sort-</u> <u>name/all</u>				
4	Viva	NPTE L	Water resource engineer ing.	N.Mahesh a (civ654)	19/05/202 0	60	70%	yes

#### Summary:

The overall aim of this review is to evaluate the effectiveness of self-directed learning which aims to enhance the professional skill of students.

• Most of the students agreed that self learning process is an effective approach for learning in addition to traditional method of teaching.

• Most of the students admitted that self learning process help them in preparing better to reach their goals.

• Students are able to do better in competitive examinations and get placed in suitable companies

9.4 (C) Scope of Self-learning for ECE

Table 9.4.8: Records of evaluation of self-learning activities

R	Records of Self Learning Activities to be maintained by each faculty							
				UR				
			Na	L	Date	No. of	А	Event
S	Mode	Source	m e	Refer	of	participa	vg	condu
1	of		of	ence	event	nts	m	c ted
•	Evaluati	s of	sour	given	condu		ar	by
Ν	o n	Self	c e	by	c ted		ks	facult
0		learning	of	facult	by		(	у
			self	У	facult		%	(Yes/
			lear		У		)	No)
			ning					

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2	Quiz Presenta	Videos of Flipped class room Course- Rural	Course – DSP video contents uploaded by the Faculty Animal Energy	https://yo utu.be/5 BURUM fuII8, https://yo utu.be/Zt 7u4WAy Qnk http://we b.iitd.ac.i	24/3/202 0 16-9- 2019	73 16(4Teams	80% 90%	Yes Yes
	t- 10n and Report Preparat ion	Energy system- RDL 722	and its applicati on	n/~vkvija y/files/A nimal%2 0Energy. pdf	17.0	)	0.50	77
		IIsc- article	Design and fabricatio n of universal action bullock cart	http://ww w.kscst.ii sc.ernet.i n/sppArc hive/publ ic/Abstra ct/038/79 62.pdf	2020	6(2 teams)	85%	Yes
3	Assign ment on proble m solving	Course - Routin g and switchi ng	Static and Dynamic Routing (NHOP09 )	https://dr ive.googl e.com/fil e/d/1dXE ySlgHQg r0obZqR FEczDVt a_Fm2rI c/view?u sp=shari ng	2/4/2020	35	80%	Yes
4	Viva	SWAY AM- "Embe dded System Design with ARM"	ARM Cortex Architectu re https://onli necourses. nptel.ac.in/ noc19_cs2 2/	https://dr ive.googl e.com/fil e/d/12eJ TBF- ehZnAo RNXd69 odD7Fi9 Jxy915/v iew?usp= sharing	2-4-2020	12 teams	75%	Yes

#### **Utilization and its effectiveness:**

- The overall aim of this review is to evaluate the effectiveness of self-directed learning on the professional development of students.
- Most of the students reached to a conclusion that self learning process is an effective approach for learning but not more than the traditional method of teaching.
- Students are motivated to improve their initiation in reaching their goals.
- Students are able to scan through the reading material available to them.
- Many of the needs of students are best met by learning process. The students are encouraged to learn by themselves for their present and future needs.
- Students are able to do better in competitive examinations and get placed in suitable companies.

#### 9.4(D) Scope of Self-learning for ME

#### Utilization and its effectiveness:

- The overall aim of this review is to evaluate the effectiveness of self-directed learning on the professional development of students.
- Most of the students reached to a conclusion that self learning process is an effective approach for learning but not more than the traditional method of teaching.
- Students are motivated to improve their initiation in reaching their goals.
- Students are able to scan through the reading material available to them.
- Many of the needs of students are best met by learning process. The students are encouraged to learn by themselves for their present and future needs.
- Students are able to do better in competitive examinations and get placed in suitable companies.

## Table 9.4.9: Detailed list of Mooc course certification for self learning

Year	2017-18	2018-19	2019-20
Faculty	36	63	32
Students	125	137	658( combining 2 semester and $2^{nd}$ , $3^{rd}$ and $4^{th}$ year

	No of	No of	
YEAR	Students	faculty	Courses
			Manufacturing Automation
			Robotics
			Aircraft Propulsion - Online
			Fluid Machines - Online
July -			Machine Learning for Engineering and Science
Dec			Applications - Online
2019	128	2	Manufacturing of Composites - Online
			Electric Vehicles - Part 1
			Non-Conventional Energy Resources
			Product Design and Development
			Fundamentals of Welding Science and Technology
			Inspection and Quality Control in Manufacturing
			Electronic Packaging and Manufacturing
			Electronic Packaging and Manufacturing
			IC Engines and Gas Turbines
			Manufacturing Process Technology
			Inspection and Quality Control in Manufacturing
Jan- Apr			Surface Engineering of Nanomaterials
2019	136	31	Roadmap for patent creation
			Nanotechnology in Agriculture
			Outcome based pedagogic principles for effective
			teaching
			Laws of thermodynamics
			Mechanics of Machining
			Processing of Polymers and Polymer Composites
			Fundamentals of Surface Engineering :
			Mechanisms, Processes and Characterizations
			Design Practice - II
July -			Leadership
Dec			Introduction to Operations Research
2018	2	10	Nature and Properties of Materials
			Energy conservation and heat recovery
			Manufacturing of composites
			Fundamentals of Manufacturing process
			Refrigeration and air conditioning
			Processing of polymers and polymer composites
			Nature and properties of materials
Jan- Apr			Energy conservation and waste heat recovery
2018	0	26	Two phase flow and heat transfer

# Table 9.4.10: Records of evaluation of self-learning activities

# 9.5 Career Guidance, Training, Placement

NHCE offers career guidance and placement on all aspects of career planning, job searching and post-graduate studies. College provides individual counseling for all the students towards reaching goals.

#### A. Availability of career guidance facilities:

- The college has career guidance and placement cell with 9 full time staff members, headed by Executive Director Placement & Training.
- The team fine tunes the students by providing insights into the complex dynamics of the corporate world and the current critical industrial & business scenarios.
- Campus Recruitment Training (CRT) program grooms the students in various areas like Quantitative Ability, Verbal Ability, Reasoning Ability, Group Discussion, Personality Development, Attitude and Behavioral Development and Facing Interview.
- An online portal is used for training the students. This portal allows students to register for placement, avail training using the numerous videos and take up tests to assess themselves. In addition, the portal also provides company specific question papers which can be used to ensure better performance in the aptitude/technical tests. Certified Trainers are deputed to take sessions on Verbal, Written and listening skills to ensure our students are well trained in Business English Communication
- Domain and technical training is provided based on the industry requirement.
- Mock interviews and GDs are conducted on a regular basis to equip final and pre-final students to face the challenges of recruitment scenario.
- The placement cell organizes on-campus and off-campus recruitments.
- In addition to the training conducted by the placement division the department organizes training on technical aspects like Data Structures, Java, C, C++ and Python.

An MOU was signed between New Horizon College of Engineering, New Horizon College and Zenken Corporation, Japan on 5th September 2018 to collaborate on campus recruitments for their operations in Japan (International Placements) and to

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establish Japan Career Centre at New Horizon Campus, Bangalore. Senior Executives from Zenken are deputed at New Horizon to train students on Japanese companies' requirements.

The College has created the following infrastructure facilities to conduct training program and campus recruitment.

Facilities	Number			
Office	1			
Auditorium	1			
Seminar hall	2			
Rooms for Group Discussion	3			
Interview Rooms	4			
Computer Centers for Online Test	11			

Table 9.5.1: Facilities for Placement & Training

The college also has a placement committee that ensures that the needs of the students belonging to different branches of engineering are addressed and all are given equal opportunities.

#### **Industry Sponsored Labs**

- Cisco Networking Academy
- Indo French Center of Excellence In Electricity Automation and Energy
- Quest Global IIOT Centre Of Excellence
- VMWARE IT Academy
- SAP Centre Of Excellence
- HP Centre Of Excellence
- IBM Open Power
- Automation Anywhere
- CAPGEMINI
| Sl. No. | Name of the faculty      | Designation   |
|---------|--------------------------|---|
| 1       | Prof. Gurucharan Singh   | Exe, Director - Dept. of HRD                          |
| 2       | Mr. Ranjan Manish        | Head - IIC  |
| 3       | Dr. Sowmya               | Prof. & Head Centre for lifeskills& lifelong learning |
| 4       | Mr. Anis Mirza           | Sr, HR Manager - CR (L&D &P)                          |
| 5       | Mr. Binod Kumar Singh    | HR Manager - CR (L&D &P)                              |
| 6       | Ms. Manisha Joshi        | HR Manager - CR (L&D &P)                              |
| 7       | Mr. Manjunath R N        | HR Manager - CR (L&D &P)                              |
| 8       | Ms. Sreelatha            | Sr. Office Executive                                  |
| 9       | Mr. Bharat Suundar       | Aptitude Trainer                                      |
| 10      | Mr. Karthikeyan          | Aptitude Trainer                                      |
| 11      | Mr. Santhosh             | HR Executive  |
| 12      | Ms. Suneetha             | Sr. Lifeskills Trainer                                |
| 13      | Mr. Devranjan Chatterjee | Lifeskills Trainer                                    |
| 14      | Mr. Ramesh               | Lifeskills Trainer                                    |
| 15      | Mr. Gangadhara Murthy    | Lifeskills Trainer                                    |
| 16      | Mr. Prabhu James         | Lifeskills Trainer                                    |
| 17      | Mr. Richard              | Lifeskills Trainer                                    |

Table 9.5.2: Details of Caree	r guidance,	Training,	Placement	committee
members				

#### **Department of HRD - Structure**



Figure No. 9.5.1: Structure of department of HRD

#### **B. Pre-Placement Training:**

#### The process involves

- Identification and grooming of capable students for a particular domain
- Arranging Training Sessions from industry resources regularly.
- Counseling the students having less attendance in trainings.
- Interacting with Life skills trainer regularly for inputs on training.
- Maintaining the attendance of the students and sharing the same with Centre for Life Skills and Life Long Learning.

• Ensuring students learn English essentials/business communication as a subject.

• Arranging Aptitude Development training sessions for all programmes of Undergraduate (UG).

-Vista Mind, Ethnus Consultants, Focus Academy for creative Education are engaged to conduct Aptitude Development training which is scheduled as part of academic schedules.

- Soft skills development sessions are scheduled for all UG programmes. PCC India handles Soft skills for all these students by the seasoned trainers experienced in corporate orientation.

• Arranging Technical and domain related sessions and the topics will vary from one programme to another programme. All circuit programmes are taught with basic programming subjects, C, DS etc. Non-circuit programmes students are trained with core subjects and the highlight would be fundamentals of Electrical Engg, Electronics Engg, Mechanical Engg, Civil Engg, Automobile Engg, etc. and some application orientation.

#### (b)The Roles and Responsibilities of Placement Committee (PC)

- To conduct research regarding the skills, abilities, and credentials employers seek from graduates and also to find relevant job titles and industries for graduates.
- To help students create their resumes and cover letters, find internship or externship sites, and apply for jobs in their fields.
- To arrange for mock interviews to give students practice answering common questions and provide information about companies hiring in the area.
- To develop strong rapport with employers and develop local partnerships with companies where students can do internships or externships or visit for job shadowing. And also to recommend students to these employers after they learn necessary skills.
- To schedule hiring events like job fairs which gives students exposure to potential jobs and helps local companies find suitable candidates.
- To Ensure students availability for all campus recruitment events
- To participate in pre-placement presentations conducted by companies
- To participate in exit meetings at the end of each company recruitment events and to implement suggestions regard to grey areas as mentioned in the feedback in the departmental activities.

- To coordinate with each Department regarding aptitude, soft skills and domain related training activities to students.
- To Visit companies for presenting Department's quality and talent pool availability
- To arrange for domain related training and re-training activities based on companies' feedback.

**NEW HORIZON SCHOLAR PROGRAM** has focused an initiative to tap potential students at  $2^{nd}$  &  $3^{rd}$  year level and groom them to the best possible opportunities in Corporate, Government or Higher Education purposes. The following interventions are provided for the selected students.

- Conduct problem solving sessions by highly accomplished people in industry / institutions.
- Expose them on areas beyond the engineering textbooks such as economy, emerging business areas, international affairs, social issues etc.
- Focused technology sessions such as Big Data Analytics, SMAC (Social Media

   Mobility Analytics Cloud Computing), Digital marketing etc.
- Motivation sessions by high achievers in business, entrepreneurship etc.
- Focused on recent advancement in Internet of Things (IOT) by enabling the interconnection and integration of the physical world and the cyber space.
- To develop insight into the usability challenges in developing Artificial Intelligence (AI) systems, and effective means of meeting these challenges and to gain knowledge for collaboration between the Human Computer Interface (HCI) and AI communities.
- Fundamental foundations and application skills for non-circuit branches.

**Selection of students**: Students are selected at  $3^{rd} / 4^{th}$  semester level by heads of departments. The criteria for selection of students is broadly based on academic performance and exceptionally good students who may not be top in class but have the potential to excel in studies if they are given required support.

**Operational arrangements**: Identified students will be provided an environment for each other to discuss debate and interact on their thoughts at regular intervals. An exclusive space of about one class room size is provided with necessary aids within the room such as journals, some latest books on innovation, creativity. Two computers with internet connectivity and Air Conditioning facility with biometric based entry are also provided. This space can be branded and showcased for other students to aspire to belong this group.

#### **Career counseling for higher studies:**

Career guidance and motivational lectures by Alumni, External guests and faculty are organized frequently.

#### 9.5(A) Career counseling for higher studies (CSE)

#### **Motivation for Higher Studies**

Faculties of the department advise and motivate students to pursue higher education by introducing them to the range of benefits available to those who are better equipped. Students are briefed about the opportunities and advantages of pursuing higher education in India and abroad. International education offers the opportunity to broaden horizons and build skills and experiences and makes them more employable, as they gather experience that a lot of other candidates won't have. Students can widen their repertoire and communicate more effectively when exposed to education abroad.

Faculty let the students know that the opportunities for professional development are vast and by building their professional skills, they will move up the jobs ladder and are likely to increase their income quickly. Students are also made aware of the eligibility criteria and are advised to take up tests like GRE, GMAT, IELTS, TOEFL, etc if they are interested in pursuing education overseas. Students who want to pursue education in India are briefed about GATE, CAT, PG CET and given exposure to the various opportunities.

Sl.No	Name	Designation						
1	Financial Literacy program for SC/ST Students	Dr Sheelan Misra, HOD-MBA, NHCE						
2	Workshop on Students exchange program to France	Dean-Academics, NHCE						
3	Workshop on Overseas Education for M.S	Mr. Devanand M, Market Development Executive, Global reach, Brigade road, Bangalore						
4	Quiz - InQuizitive Minds 2018	Career Launch, Marathalli						
5	Motivational talk on Higher studies in Foreign Countries	Ms. Usha Mahadevappa, Manager, Business Development, International Education Specialist (IDP) IDP Education India Pvt. Ltd						
6	Motivational talk on Opportunities for Higher Studies in Abroad	Mr. Shaon Basu, Manager, Operations & Academics, Jamboree Education, No. 539, ashwini complex, 2nd Floor, CMH Road, indiranagar, Bangalore-38						

#### 9.5(B) Career counseling for higher studies (CIVIL)

#### Table 9.5.3: Career counseling for higher studies

#### 9.5(C) Career counseling for higher studies (ECE)

The Department of Electronics and Communication Engineering has organized student "Orientation program on Study abroad on 20<sup>th</sup>sep 2019. In association with IDP Education India Pvt. Ltd.

The Sessions are conducted In three different sessions for all the  $2^{nd}$ ,  $3^{rd}$  and final year students. The orientation is on how to prepare for IETLS & SOP writing. 60+ students of Department of Electronics and Communication Engineering attended the launch of First Education event launch of IDP on 9th March at Whitefield, opposite to Brigade Metropolis.

#### 9.5(D) Career counseling for higher studies (ME)

Sl.No	Name	Designation
1	Financial Literacy program for SC/ST Students	Dr Sheelan Misra, HOD-MBA, NHCE
2	Workshop on Students exchange program to France	Dean-Academics, NHCE
3	Motivational talk on Higher studies in Foreign Countries	Mr, Rahul Sharan Renu,, Research assistant, Mentor, Form Instructor Francis Marion University
4	Motivational talk on Opportunities for Higher Studies	Mr, Lance Fung, IEEEAsia Specific Region Director, R10.

#### Table 9.5.4: Career counseling for higher studies (ME)

#### Organizing coaching classes for competitive exams

The departments organize coaching classes for GATE and other competitive examinations.

- The placement cell organizes seminars on higher studies and conduct aptitude training sessions.
- Foundation course for Civil Services is offered for interested students appearing for Civil Services. Many books and periodicals are available in the library for the students.

#### Skill development (Spoken English, Computer Literacy etc.)

Communicative English has been incorporated into the curriculum. The English Language communication lab with a capacity of 60 consoles has been set up with innovation.

#### Industry – Institute Collaboration Activities:

The purpose of Industry Institute Collaboration Cell which shall be referred to as IIC hereon is to ensure a paradigm shift in the thought process of a New Horizon student from J2C (Job to Career ). This should lead a student towards identification of a SMART CAREER GOAL. Taking a step further, IIC would endeavor to establish connect between eminent faculty members and the relevant industries to join hands and work towards mutually beneficial cause/projects.



The ulterior aim of IIC is to work towards making New Horizon College of Engineering, a respectable and most sought after Engineering college which provides the best amalgamation of Innovation, entrepreneurship development, skill up gradation, passion and aptitude along with sound theoretical subject knowledge which in turn makes our students industry ready and innovators of tomorrow so that they can pursue their passion and think beyond a job. The efforts and orientation of IIC would be in a manner wherein industry academia alliance would help our students reach the pinnacle of success and also ensure our elite faculty members are amongst the most sought after teaching fraternity.

#### Centre of Excellence

- Develop best learning process using a comprehensive understanding of industry's best practices.
- Imbibe professionalism, behavioural aspects and awareness as per the industry expectations.
- Continuous improvement to achieve success and growth.

#### Industry/Incubation

- Align aspirations of the students with the needs of the industries.
- Solutioning is the need of the hour.
- Customer value creation for industry and students
- Attention to both individual and students and groups.

#### **Industry Integration**

- Leveraging networking and collaboration with partnership.
- Promote career counselling by organizing guidance lectures by senior corporate personnel.
- Regular interaction with the industry through Seminars, Guest Lectures, Conferences, Corporate Meets, etc.

#### **Internship Visits**

- Enable student readiness.
- Training on employable skills.
- Talent transformation.

#### **Training Time table Sample (Placements)**

#### NEW HORIZON COLLEGE OF ENGINEERING

#### DEPARTMENT OF TRAINING AND PLACEMENTS

APTITUDE DEVELOPMENT TIME TABLE FOR 6TH SEM ENGG, 4TH SEM MCA & 2ND SEM M.TECH STUDENTS (EVEN SEMESTER 2017 i.e., From 6th, Feb 2017 for MCA+M.Tech and 13th Feb'17 for B.E)

	9.00-10.00	10.00-11.00	11.10-12.10	12.10-1.10		1.50-2.50	2.50-3.50	3.50-
MON			MECH-B MCA- A+M.Tech(CSE,SE,CNE,MD ,Aero)	MECH-B MCA- A+M.Tech(CSE,SE,CNE,MD, Aero)		MCA-B+M.Teh(VLSI,COM.SYS)	MCA- B+M.Teh(VLSI,COM.SYS)	
TUE			MECH-A MCA - C	MECH-A MCA - C		MCA- A+M.Tech(CSE,SE,CNE,MD,Ae ro)	MCA- A+M.Tech(CSE,SE,CNE,MD ,Aero)	
WED					LUNCH BREAK	MCA-B+M.Teh(VLSI,COM.SYS)	MCA- B+M.Teh(VLSI,COM.SYS)	
THU			MECH-C ISE-A ISE-B MECH-B	MECH-C ISE-A ISE-B MECH-B				
			MECH-C ISE-A	MECH-C ISE-A		MCA-C	MCA-C	

#### Figure No. 9.5.3: Placement training schedule 2017 New Horizon College of Engineering

The Horizon conege of Engineering								
<b>Refresh Classes for Recruitment Process-2018</b>								
Date/Day	B1(CSE)	B2(ISE)	B3(ECE-1)	B4(ECE-2)	B5(ME-1)	B6(ME-2)	B7(EEE)	B8(CV, BT.MCA)
24/09/2018	Apti	Tech	Apti	Tech	Apti	Tech	Apti	Tech
Monaday	(3-5pm)	(3-5pm)	(3-5pm)	(3-5pm)	(3-5pm)	(3-5pm)	(3-5pm)	(3-5pm)
25/09/2018	Tech	Apti	Tech	Apti	Tech	Apti	Tech	Apti
Tuesday	(3-5pm)	(3-5pm)	(3-5pm)	(3-5pm)	(3-5pm)	(3-5pm)	(3-5pm)	(3-5pm)
26/09/2018 Wednesday	Apti-Test	Tech- Test	Apti-Test	Apti-Test	Tech-Test	Tech-Test	Tech-Test	Apti-Test
	(5-7pm)	(5-7pm)	(5-7pm)	(5-7pm)	(5-7pm)	(5-7pm)	(5-7pm)	(5-7pm)
27/09/2018 Thursday	Tech-Test	Apti-Test	Tech-Test	Tech-Test	Apti-Test	Apti-Test	Apti-Test	Tech-Test
-	(5-7pm)	(5-7pm)	(5-7pm)	(5-7pm)	(5-7pm)	(5-7pm)	(5-7pm)	(5-7pm)
3/10/2018	Apti	Tech	Apti	Tech	Apti	Tech	Apti	Tech
Wednesday	(3-5pm)	(3-5pm)	(3-5pm)	(3-5pm)	(3-5pm)	(3-5pm)	(3-5pm)	(3-5pm)
4/10/2018	Tech	Apti	Tech	Apti	Tech	Apti	Tech	Apti
Thursday	(3-5pm)	(3-5pm)	(3-5pm)	(3-5pm)	(3-5pm)	(3-5pm)	(3-5pm)	(3-5pm)
5/10/2018 Friday	Apti-Test	Tech- Test	Apti-Test	Apti-Test	Tech-Test	Tech-Test	Tech-Test	Apti-Test
	(5-7pm)	(5-7pm)	(5-7pm)	(5-7pm)	(5-7pm)	(5-7pm)	(5-7pm)	(5-7pm)
6/10/2018 Saturday	Tech-Test	Apti-Test	Tech-Test	Tech-Test	Apti-Test	Apti-Test	Apti-Test	Tech-Test
	(5-7pm)	(5-7pm)	(5-7pm)	(5-7pm)	(5-7pm)	(5-7pm)	(5-7pm)	(5-7pm)
Batch wise I	Faculty Trai	iner:						

B1-CSE(Tech-Ms. Kavitha(MCA), Apti- Dr. Srinivasa G.(Math)), B5-ME-1(Tech-Mr. Shivabalan(CSE), Apti- Mr.Sub B2-ISE(Mr. Govinda Raju(MCA), Apti- Dr. Srinivasa G.(Math))), B6-ME-2(Tech-Ms. Vandana(ISE), Apti- Mr.Subrar B3-ECE-1(Tech-Mr. Gangadhar(ISE), Apti-Mr. Madhu Mohan Raju(Math))B7-EEE(Tech-Mr. Vishwanath(MCA), Apti-Mr. Mathematical Science (Mathematical Science), Apti-Mr. Mathematical Science (Mathematical Science), Apti-Mr.Sub-Raje (Mathematical Science), Apti-Mr. Mathematical Science (Mathematical Science), Apti-Mr.Sub-Raje (Mathematical Science), Apti-Mr. Mathematical Science (Mathematical Science), Apti-Mr.Sub-Raje (Mathematical Science)

#### Figure No. 9.5.4: Placement training schedule 2018

## • Training schedule (CS)

Problem So	lving	: 12 Hours	Lecture
Object Orie	nted Programming Revision	: 8 Hours	Lecture
C Program	ming Revision	: 4 Hours	Lecture
IT Latest T	echnology	: 4 Hours	Faculty PPT presentation
Public Spea	king by students	: 4 Hours	Class Management
Tech Talk b	y students	: 4 Hours	Class Management
Placement 7	Falk	: 2 Hours	
Alumni Tal	k	: 2 Hours	Class Management
Test		: 2 Hours	Invigilation ( Oops concepts)
Tech Quiz		: 2 Hours	Invigilation (MCQs on C & C++
Code Debug	ging	: 2 Hours	Invigilation ( C or C++)
Faculty inte	raction	: 2 Hours	
Hands-On/A	Assignment	: 8 Hours	
TOTAL		: 56 Hours	

		Autono DEPAR	TMENT	of COMPUT	VTU, Accredite ER SCIENCE	d with NAAC	'A' grade NEERING						
		TIME	TABLE	FOR EMPL	OYMENT C	ENTRIC	CLASSES						
				From 23	3-31 July 2018								
LASS TEA	CHER: Ms Soj	ja Rani	SEMES	TER: V	SEC :	С							
Day/Time	9:00-10:00	10:00-	11:00 - 11:10	11:10-12:10	12:10-1:10	1:10 -1:50	1:50-2:50	2:50-3:50					
Mon	Placement Talk	Placement Talk		C Pgmg Mr Muralidhara	Problem Solving Ms Soja		C Pgmg Mr Muralidha ra	IT Latest Techgy Ms Jaya					
Тие	Alumni Talk Ms Jaya	C Pgmg Mr Muralidha		Problem Solving Ms Soja	C Pgmg Mr Muralidhara		Problem Solving Ms Soja	Tech Talk Ms SheebaPrab karan					
Wed	OOPs Mr	Problem Solving Ms Soia	AK	OOPs Mr Muralidhara	IT Latest Techgy Ms. Tinu	REAK	Problem Solving Ms Soja	Public Speaking Ms. Jaya					
Thur	Alumni Talk Ms Jaya	OOPs Mr Muralidha ra	TEA BRE	TEA BRE	TEA BRE	TEA BRE	TEA BRE	TEA BRE	Problem Solving Ms Soja	OOPs Mr Muralidhara	LUNCH B	Problem Solving Ms Soja	Public Speaking Ms. Jaya
Fri	IT Latest Techgy Ms HeyShanthi	Problem Solving Ms Soja		OOPs Mr Muralidhara	Problem Solving Ms Soja		OOPs Mr Muralidha ra	Public Speaking Ms. Jaya					
Sat	IT Latest Techgy Ms	OOPs Mr Muralidha ra		Problem Solving Ms Soja	OOPs Mr Muralidhara		Problem Solving Ms Soja	Tech Tall Ms SheebaPra karan					

Figure No. 9.5.5: Placement training schedule CSE 2018

## NEW HORIZON COLLEGE OF ENGINEERING

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

## Summary of placement classes conducted for the 2019 Batch

SINO	TRAINING	SEMESTER	DURATION	NO OF HOURS
1	C & Data Structures Training	VII	1/JUN/18 - 7/JUN/18	108
2	Domain based Training	VII	20/JUN/18 - 26/JUN/18	128
3	One Direct Training	VII	20/JUN/18 - 23/JUN/18	56
4	Java Training	VII	20/JUN/18 - 14/JUL/18	140
5	Employment Centric Classes	III , V	23/JUL/18 - 31/JUL/18	336
6	Departmental Training	VI	05/MAR/19 - 09/APR/19	22

# Summary of placement Non-technical classes conducted for the academic year 2018-2019 (Autonomous Batch)

SINO	TRAINING	SEMESTER	DURATION	NO OF HOURS
1	Aptitude & soft skill training	VII	11/JUN/18 - 19/JUN/18	138



Figure No. 9.5.6: Placement training schedule CSE 2017

		DEF	ARTMENT OF CIVIL ENG	GINEERIN	NG	
ate/Time	9.30-11am	11-11.15am	11.15am-12.45pm	12.45pm- 1.30-pm	1.30pm-3pm	3pm-4.30pm
6-06-2019	Design of RCC Structural		Surveying		Highway engineering	Environmental engineering
	Mr.Surendra B V		Mr.Nitish		Mr.Harish G R	Dr.Mahesha N
7-06-2019	Design of RCC Structural elements		Surveying		Highway engineering	Concrete technology
	Mr.Surendra B V		Mr.Nitish		Mr.Harish G R	Ms.Suma P
18-06-2019	Design of RCC Structural elements		Surveying		Highway engineering	Environmental engineering
	Mr.Surendra B V		Mr.Nitish		Mr.Harish G R	Dr.Mahesha N
29-06-2019	Pre stressed concrete		Geotechnical engineering	1000	Test - I	a ball of the second
	Mr.Sudhakar		Dr.Jagadeesh C B			
01-07-2019	Strength of materials	Break	Concrete technology	Lunch	Alternate building materials and technology	Strength of materials
	Mr.Snehal		Ms.Suma P	Dicak	Dr.Vinay Kumar	Mr.Suchal
02-07-2019	Environmental engineering		Strength of materials		Alternate building materials and technology	Pre stressed concrete
	Dr. Mahesha N		Mr.Snehal	Sen Cont	Dr.Vinay Kumar	Mr.Sudhakar
03-07-2019	Pre stressed concrete		Alternate building materials and technology		Engineering Mechanics	Test - II
	Mr.Sudhakar		Dr.Vinay Kumar		Ms.Meghana P	
04-07-2019	Analysis of indeterminate structures		Geotechnical engineering		Fluid mechanics	Engineering Mechanics
	Ms Ramya H S		Dr.Jagadeesh C B		Dr.Geetha Varma	Ms.Meghana P
05-07-2019	Engineering Mechanics		Geotechnical engineering	-	Analysis of indeterminate structures	Test - III
	Ms Meghana P		Dr.Jagadeesh C B	Sales Press	Ms.Ramya H S	

Figure No. 9.5.7: Placement training schedule CIVIL 2019



Figure No. 9.5.8: Placement training schedule CIVIL 2018

#### Training schedule (ECE)

	New Horizon College Of E	ngineering		
Departn	nent Of Electronics and Cor	nmunication En	gineering.	
	Technical Training Detai	ls Even Sem (A	ug- Dec 2017	)
SEM: 5			SEC:	В
SI.No	Technical Topics	Faculty	Date	No of Students Present
1	Analog Communication	Mr Ashutosh	21-08-2017	68
2	Analog Communication	Mr Ashutosh	28-08-2017	68
	Analog Communication	Mr Ashutosh	04.00.0017	77
3	VLSI	Mr Karthik	04-03-2017	73
	Analog Communication	Mr Ashutosh	11 00 2017	73
4	VLSI	Mr Karthik	11-09-2017	70
-	Analog Communication	Mr Ashutosh	10 00 2017	81
5	VLSI	Ms Nayana	10-05-2017	78
6	Analog Communication	Mr Ashutosh	25 00 2017	85
0	VLSI	Ms Nayana	25-09-2017	75
7	Analog Communication	Mr Ashutosh	02 10 2017	78
	VLSI	Ms Nayana	02-10-2017	70
	Analog Communication	Mr Ashutosh	00 10 2017	82
•	VLSI	Ms Nayana	05-10-2017	76
0	Analog Communication	Mr Ashutosh	16 10 2017	83
3	VLSI	Ms Nayana	10-10-2017	70

Figure No. 9.5.9: Placement training schedule ECE 2017

#### NEW HORIZON COLLEGE OF ENGINEERING

Autonomous college affiliated to VTU, Accredited by NAAC with 'A' grade and Accredited by NBA DEPARTMENT OF ELECTRONICS AND COMMUNICTION TIME TABLE FOR TECHNICAL TRAINING

Date / Time	Days	09:00 - 12:00	12.45 - 3.45	Date / Time	Days	09:00 - 12:00	12.45 - 3.45
		Batch 4 (ECE A) MCA LAB 1	Batch 4 (ECE A) MCA LAB 1			Batch 4 (ECE A) MCA LAB 1	Batch 4 (ECE A) MCA LAB 1
01-06-2018 Frid	Friday	Batch 5 (ECE B) ISE LAB 2	Batch 5 (ECE B) ISE LAB 2	06-06-2018	Wednesday	Batch 5 (ECE B) ISE LAB 2	Batch 5 (ECE B) ISE LAB 2
		Batch 6 (ECE C) MCA LAB 2	Batch 6 (ECE C) MCA LAB 2			Batch 6 (ECE C) MCA LAB 2	Batch 6 (ECE C) MCA LAB 2
		Batch 4 (ECE A)	Batch 4 (ECE A)			Batch 4 (ECE A)	Batch 4 (ECE A)
		MCA LAB 1	MCA LAB 1			MCA LAB 1	MCA LAB 1
02-06-2018	Saturday	Batch 5 (ECE B)	Batch 5 (ECE B) ISE	07-06-2018	Thursday	Batch 5 (ECE B) ISE	Batch 5 (ECE B)
	· · ·	ISELAB 2	LAB 2		· ·	LAB 2	ISELAB 2
		Batch 6 (ECE C)	Batch 6 (ECE C)			Batch 6 (ECE C)	Batch 6 (ECE C)
		MCA LAB 2	MCA LAB 2			MCA LAB 2	MCA LAB 2
		Batch 4 (ECE A)	Batch 4 (ECE A)			Batch 4 (ECE A)	Batch 4 (ECE A)
		MCA LAB 1	MCA LAB 1			MCA LAB 1	MCA LAB 1
		Batch 5 (ECE B)	Batch 5 (ECE B) ISE			Batch 5 (ECE B) ISE	Batch 5 (ECE B)
04-06-2018	Monday	ISE LAB 2	LAB 2	07-06-2018	Friday	LAB 2	ISE LAB 2
		Batch 6 (ECE C)	Batch 6 (ECE C)			Batch 6 (ECE C)	Batch 6 (ECE C)
		MCA LAB 2	MCA LAB 2			MCA LAB 2	MCA LAB 2
		Batch 4 (ECE A)	Batch 4 (ECE A)				
		MCA LAB 1	MCA LAB 1				
		Batch 5 (ECE B)	Batch 5 (ECE B) ISE				
05-06-2018 Tu	Tuesday	ISE LAB 2	LAB 2				
		note a (paria)	Patala (FOF O)				

Figure No. 9.5.10: Placement training schedule ECE 2018

#### NEW HORIZON COLLEGE OF ENGINEERING Autonomous college affiliated to VTU , Accredited by NAAC with 'A' grade and Accredited by NBA DEPARTMENT OF ELECTRONICS AND COMMUNICTION

Section	SectionA,B,C Room No. : A2							o. : A217			
Semeste	r: VI										Wef:11.01.2018
Period		I	II		III			IV	v		VI
		0.00.40.00	10.00 -	10.00 - 11.00 -		12.10 -1.10		4 4 9 4 5 9			
Day/ Time 8.00 -9.0	8.00 -9.00	.00 9.00 -10.00	11.00	11.10	11.10 -12.10	12.10-12.50	12.50 - 1.10	1.10 -1.50	1.50 -2.50	2.50 -5.50	5.50 -4.50
Monday						Technica	l Aptitude				
Tuesday				]		Technica	l Aptitude				
Wednesday				BR				E S			
Thursday				EAK				NCH			
Friday				1							
Saturday					Technical	l Aptitude					

Figure No. 9.5.11: Placement training schedule ECE 2017/18

#### Training schedule (ME)

NEW HORIZON COLLEGE OF ENGINEERING																		
	DEPARTMENT OF TRAINING & PLACEMENTS																	
PRE-PLACEMENT RE-TRAINING																		
Batch 3 (ME & AU)																		
		Aptitude	Technical	Aptitude	Life Skills	Aptitude	Technical	Life Skills	Aptitude	Life Skills	Aptitude	Technical	Life Skills	Aptitude	Technical	Aptitude	Technical /	Lifeskills
Name	Branch	27.8.18	27.8.18	28.8.18	28.8.18	29.8.18	29.8.18	29.8.18	30.8.18	30.8.18	31.8.18	31.8.18	31.8.18	1.9.18	1.9.18	Total	Total	Attendance
		9.00-12.00	12.10-1.10 / 2.00-5.00	2.00-5.00	9.00-1.00	9.00-12.00	2.00-5.00	12.00-1.00	2.00-5.00	9.00-1.00	9.00-12.00	2.00-5.00	12.00-1.00	2.00-5.00	9.00-1.00	hours attended	hours conducted	%
Chatura S	ME	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42	0
Rupak karki	ME	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42	0
Shebeeb V K	ME	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42	0

Figure No. 9.5.12: Placement training schedule ME 2018

NEW HORIZON COLLEGE OF ENGINEERING									
(Autonomous College affiliated to VTU, Accredited by NAAC with 'A' Grade & NBA)									
DEPARTMENT OF MECHANICAL ENGINEERING									
TIME TABLE FOR THE ACADEMIC YEAR 2020-21									
Core Training Classes for 7th Sem (A, B, C)									
From; 10/10/2020 to 15/10/2020									
Day/Time									
Saturday	MOM(9:30-11:00)	MOM(11:30-1:00)							
Monday	FEM (9:30-11:00))								
Tuesday	BTD(9:30-11:00))	BTD (11:30-1:00)							
Wednesday	MSM (9:30-11:00))	MSM (11:30-1:00)	-						
Thursday	MOM (9:30-11:00))	BTD (11:30-1:00)							
Thursday	FEM (2:00-3:00)	MSM (3:00-4:00)							
Subject	Facult	y Name							
мом	Prof. Hanamanth Y/ I	Prof. Pavan P							
MSM	Dr. Vishwanath B/ Di	r. Hemanth Raju T							
BTD	BTD Prof. Ravikumar M/ Prof. Kamalashish Deb								
FEM	FEM Dr. Srinath M K								
1	D.	aan Drofossor & HeD ME							

#### Dean Professor & HoD-MF

## Figure No. 9.5.13: Placement training schedule ME 2020

#### Sessions of interactions – Department of mechanical Engineering 2018

<u>β</u> Į No	Course with code	Date of introduction
1	CFD training/ SAP training /CATIA training	11-06-2018
2	CFD training/ SAP training /CATIA training	12-06-2018
3	CFD training/ SAP training /CATIA training	13-06-2018
4	CFD training/ SAP training /CATIA training	14-06-2018
5	CFD training/ SAP training /CATIA training	15-06-2018
6	CFD training/ SAP training /CATIA training	16-06-2018
7	Thermodynamics/Machine Design	2616-06-2018
8	CNC programming	27-06-2018
9	heat transfer/Mechanics of materials	28-06-2018
10	Fliud mechanics/Theory of machines	29-06-2018

New Hori	zon College	of Engineeri	ing				
		0	_				
Dept of T	raining & Dl	acamants					
Dept of T					_		
2018 Batc	ch Phase-1 V	acation Train	ning Schedu	le			
		28th July 2 (Friday)	017			29th July 2 (Saturday)	017
Branch	9 to 11 am	11:10 - 01:40 pm	2:10 - 5:10pm		9 to 11 am	11:10 - 01:40 pm	2:10 - 5:10pm
ME - A	Softskills - Batch MEA1	Technical - Batch MEAT1	Aptitude		Technical - Batch MEAT1	Softskills - Batch MEA1	Aptitude
	Softskills - Batch MEA2	Technical - Batch MEAT2			Technical - Batch MEAT2	Softskills - Batch MEA2	
		Technical - Batch MEAT3			Technical - Batch MEAT3		
ME - B	Technical - Batch MEBT1	Aptitude	Softskills - Batch MEB1		Softskills - Batch MEB1	Aptitude	Technical - Batch MEBT1
	Technical - Batch MEBT2		Softskills - Batch MEB2		Softskills - Batch MEB2		Technical - Batch MEBT2
ME - C	Aptitude	Softskills - Batch MEC1	Technical - Batch MECT1		Aptitude	Technical - Batch MECT1	Softskills - Batch MEC1
		Softskills - Batch MEC2	Technical - Batch MECT2			Technical - Batch MECT2	Softskills - Batch MEC2
		31st July 2017 (Monday)				1st Aug 20 (Tuesday)	17
Branch	9 to 11 am	11:10 - 01:40 pm	2:10 - 5:10pm		9 to 11 am	11:10 - 01:40 pm	2:10 - 5:10pm
ME - A	Technical - Batch MEAT1	Softskills - Batch MEA1	Aptitude		Softskills - Batch MEA1	Technical - Batch MEAT1	Aptitude

## Figure No. 9.5.14: Placement training schedule ME 2018

	Technical - Batch MEAT2	Softskills - Batch MEA2		Softskills - Batch MEA2	Technical - Batch MEAT2	
	Technical - Batch MEAT3				Technical - Batch MEAT3	
ME - B	Softskills - Batch MEB1 Softskills Batch	Aptitude	Technical - Batch MEBT1 Technical Batch	Technical - Batch MEBT1 Technical Batch	Aptitude	Softskills - Batch MEB1 Softskills Batch
	MEB2		MEBT2	MEBT2		MEB2
ME - C	Aptitude	Technical - Batch MECT1	Softskills - Batch MEC1	Aptitude	Softskills - Batch MEC1	Technical - Batch MECT1
		Technical - Batch MECT2	Softskills - Batch MEC2		Softskills - Batch MEC2	Technical - Batch MECT2
		2nd Aug 20 (Wednesda	017 y)		3rd Aug 20 (Thursday)	)17
Branch	9 to 11 am	11:10 - 01:40 pm	2:10 - 5:10pm	9 to 11 am	11:10 - 01:40 pm	2:10 - 5:10pm
ME - A	Aptitude	Softskills - Batch MEA1	Technical - Batch MEAT1	Technical - Batch MEAT1	Softskills - Batch MEA1	Aptitude
		Softskills - Batch MEA2	Technical - Batch MEAT2	Technical - Batch MEAT2	Softskills - Batch MEA2	
			Technical - Batch MEAT3	Technical - Batch MEAT3		
ME - B	Technical - Batch MEBT1 Technical - Batch	Aptitude	Softskills - Batch MEB1 Softskills - Batch	Softskills - Batch MEB1 Softskills - Batch	Aptitude	Technical - Batch MEBT1 Technical - Batch
	MEBT2		MEB2	MEB2		MEBT2
ME - C	Softskills - Batch MEC1	Technical - Batch MECT1	Aptitude	Aptitude	Technical - Batch MECT1	Softskills - Batch MEC1
	Softskills - Batch MEC2	Technical - Batch MECT2			Technical - Batch MECT2	Softskills - Batch MEC2

-	1					
		5th Aug 20 (Saturday)	)17	I	7th Aug 2017 (Monday)	
Branch	9 to 11 am	11:10 - 01:40 pm	2:10 - 5:10pm	9 to 11 am	11:10 - 01:40 pm	2:10 - 5:10pm
ME - A	Softskills - Batch MEA1	Technical - Batch MEAT1	Technical - Batch MEAT1	Technical - Batch MEAT1	Softskills - Batch MEA1	Technical - Batch MEAT1
	Softskills - Batch MEA2	Technical - Batch MEAT2	Technical - Batch MEAT2	Technical - Batch MEAT2	Softskills - Batch MEA2	Technical - Batch MEAT2
ME P	Technical - Batch	Technical - Batch MEAT3 Softskills - Batch	Technical - Batch MEAT3 Online Aptitude	 Technical - Batch MEAT3 Softskills - Batch	Technical - Batch	Technical - Batch MEAT3 Technical - Batch
	Technical - Batch MEBT2	Softskills - Batch MEB2	1031	Softskills - Batch MEB2	Technical - Batch MEBT2	Technical - Batch MEBT2
ME - C	Technical - Batch MECT1	Technical - Batch MECT1	Softskills - Batch MEC1	Technical - Batch MECT1	Softskills - Batch MEC1	Technical - Batch MECT1
	Technical - Batch MECT2	Technical - Batch MECT2	Softskills - Batch MEC2	Technical - Batch MECT2	Softskills - Batch MEC2	Technical - Batch MECT2
	1	8th Aug 20 (Tuesday)	)17	Γ	9th Aug 20 (Wednesda	)17 y)
Branch	9 to 11 am	11:10 - 01:40 pm	2:10 - 5:10pm	9 to 11 am	11:10 - 01:40 pm	2:10 - 5:10pm
ME - A	Softskills - Batch MEA1	Technical - Batch MEAT1	Softskills - Batch MEA1	Technical - Batch MEAT1	Technical - Batch MEAT1	Softskills - Batch MEA1
	Softskills - Batch MEA2	Technical - Batch MEAT2	Softskills - Batch MEA2	Technical - Batch MEAT2	Technical - Batch MEAT2	Softskills - Batch MEA2
		Technical - Batch MEAT3		Technical - Batch MEAT3	Technical - Batch MEAT3	
ME - B	Technical	Softskills	Technical	Technical	Softskills	Technical

	- Batch					
	Technical - Batch MEBT2	Softskills - Batch MEB2	Technical - Batch MEBT2	Technical - Batch MEBT2	Softskills - Batch MEB2	Technical - Batch MEBT2
ME - C	Technical - Batch MECT1	Softskills - Batch MEC1	Technical - Batch MECT1	Softskills - Batch MEC1	Softskills - Batch MEC1	Technical - Batch MECT1
	Technical - Batch MECT2	Softskills - Batch MEC2	Technical - Batch MECT2	Softskills - Batch MEC2	Softskills - Batch MEC2	Technical - Batch MECT2
		10th Aug 2 (Thursday)	2017		11th Aug 2017 (Friday)	
Branch	9 to 11 am	11:10 - 01:40 pm	2:10 - 5:10pm	 9 to 11 am	11:10 - 01:40 pm	2:10 - 5:10pm
ME - A	Technical - Batch MEAT1	Softskills - Batch MEA1	Softskills - Batch MEA1	No Class	Technical - Batch MEAT1	Online Aptitude Test
	Technical - Batch MEAT2	Softskills - Batch MEA2	Softskills - Batch MEA2		Technical - Batch MEAT2	
	Technical - Batch MEAT3				Technical - Batch MEAT3	
ME - B	Technical - Batch MEBT1	Softskills - Batch MEB1	Softskills - Batch MEB1	Technical - Batch MEBT1	Softskills - Batch MEB1	Softskills - Batch MEB1 <b>Till</b> 5:40pm
	Technical - Batch MEBT2	Softskills - Batch MEB2	Softskills - Batch MEB2	Technical - Batch MEBT2	Softskills - Batch MEB2	Softskills - Batch MEB2 <b>Till</b> 5:40pm
ME - C	Softskills - Batch MEC1	Softskills - Batch MEC1	Technical - Batch MECT1	Softskills - Batch MEC1	Online Aptitude Test	Softskills - Batch MEC1 Till 3:40pm
	Softskills - Batch MEC2	Softskills - Batch MEC2	Technical - Batch MECT2	Softskills - Batch MEC2		Softskills - Batch MEC2 Till 3:40pm

## 9.5(A) Career Guidance and Placement support for CSE

The placement data for the last three academic years and the maximum & average pay package offered to the students of CSE are given in Table

Sl. No.	Name of the company	Number of students placed
	Academic Year 2018-19	
1	Ad2pro Media Solutions Pvt Ltd	2
2	Applied Materials	1
3	Aquity Solution	1
4	Aricent	23
5	Betsol	1
6	Cameo Global	1
7	Catnip Infotech	1
8	CenturyLink Technologies India Pvt Ltd	1
9	Cerner Healthcare Solutions India Pvt Ltd	8
10	Covance India Pharmaceuticals Services Pvt Ltd	2
11	Danske IT and Support Services India Pvt Ltd	2
12	Cognizant Technologies	3
13	EKA Software	1
14	Eleation Academy	1
15	Emertxe	4
16	Epicor Software	1
17	Eurofins IT Solutions Pvt Ltd	5
18	EXL Service	5
19	Fintellix Solutions	1
20	GrayMatter Software Services Pvt Ltd	1
21	Harman Connected Services Corporation (I) Pvt. Ltd	1
22	Hiver	2
23	HP	1
24	HSBC	1
25	IBJ	2
26	IBM	1
27	Ideas91 India Pvt Ltd	2
28	Incadea India Pvt Ltd	2
29	Infosys Ltd	20
30	ITC Infotech	15
31	JMR Infotech	4
32	L & T Technologies	20

## Table 9.5.5: Placement details

33	L&T Infotech	5
34	Lowe's Services India Pvt Ltd	2
35	McKinsey & Company	1
36	Mindtree	3
37	Moengage	2
38	Mu Sigma	3
39	Nineleaps	4
40	Novelsynth Soft Solutions	2
41	NTT DATA	2
42	Ocwen Financial	1
43	Pinclick	2
44	Primenumbers Technologies Pvt Ltd	1
45	Pulse Secure India Pvt Ltd	3
46	Rakuten	1
47	ServiceNow	2
48	Simeio Solutions	5
49	SonicWALL Technology Systems India Pvt Ltd	2
50	Speridian Technologies	1
51	Subex Ltd	1
52	Surya Software Systems Pvt Ltd	3
53	TCS	3
54	Telaverge Communications	2
55	Temairasu	1
56	Thermofisher Scientific	4
57	Udaan	4
58	Unisys	2
59	Velocis Systems Pvt Ltd	2
60	VVDN Technologies	1
61	Wipro	6
62	Zenken	1
	Total Placed	208
	Academic Year 2017-18	
1	Accion Labs	3
2	Allstate	4
3	Applied Materials	1
4	Artech (HP)	3
5	Bias Infotech	4
6	Broadridge	1
7	CCP IOT	4
8	Century Link	1
9	Cerner	9
10	Cropin Technologies	3
11	Datacorp Traffic	1

12	Datagres IT	1
13	DXC	1
14	Ellucian	3
15	Envision Financial	2
16	Epsilon	11
17	Eurofins IT	4
18	Exotel	6
19	Fintellix Solutions	1
20	Global Logic	6
21	Hexaware	3
22	Hotelsoft	6
23	IBM	1
24	Infosys Ltd	2
25	ITOrizon	5
26	Micro genesis	4
27	Mindtree	4
28	Netscope	2
29	Nine Leaps	4
30	NTTDATA	7
31	Profinch	9
32	Quintiles	4
33	TCS	5
34	Telaverge	4
35	Torry Harris	4
36	Valtech	1
37	Verdantis	2
38	VVDN	1
39	Wipro Ltd	13
	Total Placed	150
	Academic Year 2016-17	
1	24/7	1
2	All State	1
3	Amazon	1
4	Capgemini	12
5	Century Link	2
6	Cerner	23
7	Cigital Asia	12
8	Cropin Technologies	3
9	Cyient	1
10	Datacorp Traffic	2
11	Datagres IT	3
12	Epsilon	7
13	Eurofins IT	12

14	Exotel	2
15	FTD Automation	1
16	IBM Tech	2
17	ICT Technologies	9
18	Incadea	8
19	ITC Infotech	4
20	Lowe's	1
21	Mindtree	3
22	NTT Data	11
23	Orange Business Solutions	1
24	Pin Click	1
25	Profinch	9
26	RLE India	2
27	Servion Global Solutions	1
28	Software AG	2
29	Spirent Technologies	1
30	Stellapps	1
31	Tech Mahindra	4
32	Thomson Reuters	3
33	Torry Harris	6
34	Wipro	1
35	Zapcom Solutions	1
	Total Placed	154

#### Table 9.5.6: Pay Package offered to students

2019-20	Maximum Salary	3000000
	Average Salary	908934.6613
2019 10	Maximum Salary	1100000
2018-19	Average Salary	683714.5385
2017 19	Maximum Salary	950000
2017-18	Average Salary	622649.9143

#### 9.5(B) Career Guidance and Placement support FOR CV

#### A. Counseling for higher studies (GATE/GRE, GMAT etc):

Students who are looking for a change and want to get a self-direction are counseled so that they can explore and make an incredible career by opting for higher studies like an MBA or M.Tech in their field or related fields. Students are shared with opportunities available by manging talks by Colleges like RICS School of Built

Environment that offers various MBA courses like MBA in Construction Project Management, and MBA in Construction Economics and Quantity Surveying, helping students build a definitive career after civil engineering. Counselling is also organized related to the techno-managerial education and various examinations like GATE/GRE/UPSC/PSC etc. that help students get job opportunities in Public/Private Sector Industries, Government Jobs, Defense sector or obtain higher degrees abroad.

#### Table 9.5.7: No. of students opted for Higher Education

Higher	2016 - 2017	2017 - 2018	2018 - 2019
Education M.Tech/MS/Ph. D	No. of Students	No. of Students	No. of Students
M.Tech/MS	12	20	12

## C. Placement Committee (PC):

TheCareer Guidance and Placement Cellhave constituted aPlacement Committee (PC) for smooth functioning.

#### (a)Members of the Placement Committee:

The members of the Placement Committee are as below:

#### Table 9.5.8: Members of the Placement Committee

Name of the Faculty	Designation	Department
Prof. Gurucharan Singh	Executive Director	Dept. of HRD
Mr. Binod Kumar Singh	HR Manager	Dept. of HRD
Dr.Niranjan P S	HOD & Professor	Dept. of civil engineering
Ms.SumaParalada	Sr.Asst Professor	Dept. of civil engineering
Mr.Channabasava	Asst Professor	Dept. of civil engineering

Name of the company	No. of students placed
Aparna constructions	5
BSR Developers Pvt Ltd.	11
CBRE South Asia Pvt Ltd	5
Cyient Ltd	1
Extra Marks	1
H M Constructions	19
IBM	1
Ideas91 India Pvt Ltd	1
NCCCL India	10
NHEI	4
Regalia Civils	15
Salarpuria Sattva	7
Shobha Developers	2
Shri Aruna Constructions	12
Shriram Properties	3
Sowparnika Projects & Infrastructure Pvt Ltd	10
STUP Consultants	10
Target Corporation	1
Udaan	3
Total number of students placed	121

## (c) Achievements:

#### Table 0 5 0. DL 2010 10 **x**7

Name of the company	No. of students placed
STUP Consultants	7
Chowgule	3
TCS	9
IBM	8
Raaga Constructions	6
Salarpuria Sattva	14
Total number of students placed	47

Academic Year 2017-18

Name of the company	No. of students placed
DSR Infrastructure	5
H M Group	4
Incadea	10
ITC Infotech	5
Pin Click	1
Profinch	7
Raaga Constructions	6
Sattva Group	3
Secon	1
Sobha Developers	3
Speridian	1
Sunquest	2
Volvo IT	8
Wipro	16
Total number of students placed	72

Academic Year 2016-17

#### Table 9.5.10: Pay Package offered to students

1	Maximum Salary	14,63,000
2	Average Salary	5,50,000

## 9.5(C) Career Guidance and Placement support for ECE

NHCE offers career guidance and placement on all aspects of career planning, job searching and post-graduate studies. College will provide individual counseling for all the students towards reaching goals.

 Table 9.5.11.
 List of MoUs with Industries

Sl. No.	Organization	Date of MoU
1	Compute Silicon	26/4/2019
2	Electronics for you	1/5/2019
3	Edu Saksham	17/9/2018

Name of the Faculty	Designation	Department
Dr. B. Mohan Kumar Naik	Professor	ECE
Prof. Ashok	Asst. Professor	ECE

## Table 9.5.12: Members of the Placement Committee

## Table 9.5.13: Placement details

Sl. No	Name of Company	Number of students Placed
Academic Year 2018-19		
1	42Gears Mobility Systems	3
2	Altran Gurgaon	2
3	Allstate Solutions Pvt Ltd	3
4	Aeronautical Development Agency(ADA)	1
5	Aricent	5
6	Anora Semiconductors	3
7	Astromeda	1
8	Applied Materials	1
9	Elmeasure	7
10	EXL Service	5
11	CenturyLink Technologies India Pvt Ltd	2
12	Eurofins IT Solutions Pvt Ltd	2
13	Extra Marks	1
14	Infosys Ltd	6
15	IBM	1
16	Huawei Technologies	2
17	IBM, pune	1
18	Ideas91 India Pvt Ltd	5
19	ITC Infotech	11
20	L&T Infotech	5
21	L & T Technologies	11
22	JMR Infotech	11
23	LGSOFT India Pvt Ltd	1
24	Mindtree	3
25	Moengage	2
26	Microchip Technology India Pvt Ltd	1
27	Nineleaps	1
28	Lowe's Services India Pvt Ltd	2
29	NTT DATA	8

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30	Ocwen Financial	1	
31	Pinclick	1	
32	QtPi Robotics	2	
33	SOCTRONICS	1	
34	SoCtronics Technologies Pvt Ltd	1	
35	Sony India	2	
36	SonicWALL Technology Systems India Pvt Ltd	4	
37	Softcell technologies	1	
38	Speridian Technologies	3	
39	TCS	5	
40	Torry Harris Business Solutions	3	
41	Telaverge Communications	5	
42	Tricon infotech Pvt Ltd	1	
43	Surya Software Systems Pvt Ltd	4	
44	Wipro	8	
45	Yokogawa	1	
46	Udaan	3	
47	VVDN Technologies	1	
48	Velocis Systems Pvt Ltd	4	
	Total Students Placed	158	
Academic Year 2017 - 2018			
1	Infosys Ltd	2	
2	DXC	10	
3	Servion	2	
4	Mindtree	8	
5	Sonata	1	
6		4	
	Envision Financial	4	
7	Envision Financial NTT Data	4 4 6	
7 8	Envision Financial NTT Data Torry Harris	4 4 6 1	
7 8 9	Envision Financial NTT Data Torry Harris Wipro	4 4 6 1 9	
7 8 9 10	Envision Financial NTT Data Torry Harris Wipro Cameo Global	4 4 6 1 9 6	
7 8 9 10 11	Envision Financial NTT Data Torry Harris Wipro Cameo Global Valtech	4 4 6 1 9 6 5	
7 8 9 10 11 12	Envision Financial NTT Data Torry Harris Wipro Cameo Global Valtech Cyient	4 4 6 1 9 6 5 1	
7 8 9 10 11 12 13	Envision Financial NTT Data Torry Harris Wipro Cameo Global Valtech Cyient Verdantis	4 4 6 1 9 6 5 1 4	
7 8 9 10 11 12 13 14	Envision Financial NTT Data Torry Harris Wipro Cameo Global Valtech Cyient Verdantis CCP IOT	4 4 6 1 9 6 5 1 4 4 3	
7 8 9 10 11 12 13 14 15	Envision Financial NTT Data Torry Harris Wipro Cameo Global Valtech Cyient Verdantis CCP IOT Quintiles	4 4 6 1 9 6 5 1 4 3 3 3	
7 8 9 10 11 12 13 13 14 15 16	Envision Financial NTT Data Torry Harris Wipro Cameo Global Valtech Cyient Verdantis CCP IOT Quintiles Eximius Design	4 4 6 1 9 6 5 1 4 3 3 3 3	
7 8 9 10 11 12 13 14 15 16 17	Envision Financial NTT Data Torry Harris Wipro Cameo Global Valtech Valtech Cyient Verdantis CCP IOT Quintiles Eximius Design IBM	4 4 6 1 9 6 5 1 4 3 3 3 3 1	
7 8 9 10 11 12 13 14 15 16 17 18	Envision Financial NTT Data Torry Harris Wipro Cameo Global Valtech Cyient Verdantis CCP IOT Quintiles Eximius Design IBM Profinch	4 4 6 1 9 6 5 1 4 3 3 3 3 1 4 4 3 3 3 1 4 3 3 3 1 4 3 3 3 1 4 3 3 3 3 1 4 3 3 3 3 1 4 3 3 3 1 4 3 3 3 1 4 3 3 3 3 1 4 3 3 3 3 1 4 3 3 3 3 3 3 3 3 3 3 3 3 3	
7 8 9 10 11 12 13 14 15 16 17 18 19	Envision Financial NTT Data Torry Harris Wipro Cameo Global Valtech Valtech Cyient Verdantis CCP IOT Quintiles Eximius Design IBM IBM Profinch Hexaware	$ \begin{array}{c} 4 \\ 4 \\ 6 \\ 1 \\ 9 \\ 6 \\ 5 \\ 1 \\ 4 \\ 3 \\ 3 \\ 3 \\ 1 \\ 4 \\ 2 \\ \end{array} $	

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21	Sankalp Semiconductor	6
22	Century Link	3
23	Microchip Technology	1
24	Zapcom Solutions	6
25	Secpod	1
26	EFI	5
27	Broadridge	1
28	Sony	6
29	Allstate	1
30	Hotelsoft	3
31	Speridian Technologies	1
32	Datagres IT	4
33	Ellucian	4
34	VVDN	5
35	NineLeaps	1
36	Intimetec	2
37	Applied Materials	1
38	Fintellix Solutions	3
39	Eurofins IT	4
40	Juniper Networks	3
	Total Students Placed	144
	Academic Year 2016 - 2017	
1	Ellucian	1
2	Tech Mahindra	16
3	Capgemini	9
4	Mindtree	1
5	Amazon	1
6	Microland	2
7	NTT Data	10
8	Sigma infosolutions	1
9	Wipro	6
10	Thomson Reuters	4
11	Speridian	2
12	Cytent	1
13	Servion Global Solutions	
14	Sprinklr	11
15	Anora Semiconductors	11
10	Sankaip Semiconductors	11
17	Epsilon	4
18	1 OTTY HATTIS	2
19	GIODAI LOGIC	21 115
	1 otal Students Placed	115

2019 10	Maximum Salary	1463000
2018-19	Average Salary	786188
2017 19	Maximum Salary	1200000
2017-18	Average Salary	724680
2016 17	Maximum Salary	950393
2010-17	Average Salary	553981

#### Table 9.5.14: Pay Package offered to students

#### **Table 9.5.15: Higher Education**

Higher	2018 - 2019	2017 - 2018	2016 - 2017
Education M.Tech/MS/Ph.D	No. of Students	No. of Students	No. of Students
	15	15	16



#### Figure No 9.5.16: Higher studies Statistics

## 9.5(D) Career Guidance and Placement support for ME

NHCE offers career guidance and placement on all aspects of career planning, job searching and post-graduate studies. College will provide individual counseling for all the students towards reaching goals.

SI. No.	Academic year	Total no. of students	No. of students placed	No. of students admitted to higher studies	No. of students as entrepreneur
1	2018-19	210	88	53	05
2	2017-18	187	69	57	04
3	2016-17	175	67	61	02

Table	9.5.16: In	npact o	f career	guid	ance,	training	, place	ement ai	nd certific	ation





Table 9.5.17: Quality	of Placement
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Year	% of IT placement	% of Core placement
2018-19	46/88 = 52.28	42/88 = 47.72
2017-18	32/69 = 46.37	37/69 = 53.62
2016-17	51/67 = 76.12	16/67 = 23.88

## 9.6 Entrepreneurship Cell (5)

- NH-EDC was established in August 2011, under the aegis of Department of Management Studies. NH-EDC is headed by Dr. SheelanMisra, Prof. &HoD– MBA with a team of faculty coordinators from other departments of the college.
- The goal of NH-EDC is to assist students, entrepreneurs, including Institutes' faculty, with pre-venture, start-up or existing business with financial management, marketing, technology and product development and commercialization issues.
- Working in collaboration with National Entrepreneurship Network (NEN), since its inception, NH-EDC has conducted various activities for the college students creating and promoting entrepreneurship awareness at the campus. E-WEEK is one of such initiatives where array of activities is conducted raising the spirit of innovation and creativity which are considered as sparkplugs of entrepreneurship.
- The students are given latest inputs about the industry, the changes happening and the expectations just to make them understand the employability options and opportunities to control unemployment and create better opportunities for youngsters.

## **Entrepreneurship Initiatives:**

- To create an environment for self-employment, promote innovation, incubation and Entrepreneurship development through formal and non-formal programs
- > To introduce the concept of Entrepreneurship in curriculum at degree levels
- To develop management personnel at appropriate levels for non-corporate and unorganized sectors like education, rural development, small-scale industry etc
- To utilize the infrastructure facilities and technically trained manpower for the development of non-corporate and unorganized sectors.
- > To promote employment opportunities
- > Technology Commercialization Assistance and Management Evaluation
- Intellectual Property Rights/Management

- Help with Regulatory Compliance
- Feasibility Study (Technical and Financial)
- Help with Business Basics
- Marketing Assistance/Market Research/Pilot Study/Test Marketing.
- Enhancement of Marketing Skills, Commercialization/Scale up: Access to Bank Loans, Loan Funds and Guarantee Programs and Access to Angel Investors or Venture Capital etc.
- Business Structuring Advisory: Help with Accounting/Financial Management/ Company Formation/Management Team Identification/HR Services.
- > Help with Presentation Skills and Business Etiquettes.
- Comprehensive Business Training Programs.

#### **Entrepreneurship Development (ED) Cell facilities:**

The infrastructure facilities of Entrepreneurship Development (ED) Cell at NHCE are tabulated in Table 9.6.1 and the details of ED cell committee members are listed in Table 9.6.2.

# Table 9.6.1: List of Entrepreneurship Development Cell facilities and physical infrastructure at NHCE

Sl. No.	Description	Number
1	Computer	3
2	Printer	3
3	Scanner	1
4	LCD Projector	1
5	Interactive White Board	1
6	Furniture's	Table-5, Chair-30
7	Seminar Halls/Conference Rooms	1
8	Discussion Rooms	1
9	Video Conferencing Facilities	50 Seats
10	Incubation Space (Cubicles)	1000 Sq.mt
11	Office Space	250 Sq,mt

Table 9.6.2. Entrepreneurship Development Cell committee members				
Sl. No.	Name	Dept.	Position	
1	Dr. SmitaHarwani	MBA	Associate Professor	
2	Mr. Sidde Gowda	MCA	Assistant Professor	
3	Mr. Prashanth K S	BSH	Assistant Professor	
4	Mr. GaganPurad	CSE	Assistant Professor	
5	Ms. Vandana	ISE	Assistant Professor	
6	Mr. Mohan B S	EEE	Assistant Professor	
7	Dr Piruthiviraj P	ECE	Associate Professor	
8	Mr. Ranganathan	CIVIL	Assistant Professor	
9	Mr. Puneeth	ME	Assistant Professor	
10	Mr. Sunil	AU	Assistant Professor	
11	Dr. Upendra	BT	Assistant Professor	

#### **Entrepreneurship Development Cell committee management:**

Entrepreneurship Development Cell (EDC) conducts various events to help students
to know the importance of being an entrepreneur and ways to get financial assistance
to become a successful entrepreneur. The list of events conducted is mentioned in
Table 9.6.3.

 Table 9.6.3: List of Events (CS)

Event	Date	Venue	
Talk on " <b>Motivation for starting own</b> <b>venture</b> "	29/2/2018	Falconry Seminar Hall	
MOU WITH CIMSME (Confederation of Indian Micro, Small and Medium Enterprises) to establish the Centre of Excellence for Innovation, Incubation and Entrepreneurship	22/10/2019	Conference Hall	
Start-ups Pitch-athon	04/12/2019	Sap Gen Next Lab	
World Entrepreneurship Summit n association with Global Entrepreneurs Grid (GEG)	8/2/2020	Department of Management Studies	
Launching of QuestIIoT Center of Excellence	14/2/2020	New horizon College of Engineering	

## 9.6(A) Data on Entrepreneurship Initiatives for CSE

These initiatives of the Entrepreneurship Development Cell have been successful and have resulted in the setting up of various startups by the students of the Department of CSE. The details are given below.

S l N o	Name of the Student/Alumn i Entrepreneurs/ USN/Semester/ Section/Mobile /Email etc.	Gradu ating Year (Appli cable for Stude nt/ Alum ni)	Name of the Company Incubated Mentor/F aculty Advisors	Nature of Business/Tec hnology/Acti vities/Busine ss Solutions etc.	Remarks/P rogress/Pat ents Filed/ Partnershi p Deed/Fundi ng/Investor Identified/P ublications/ Participatio n in Outside Events etc.
1	Sanketh S Huddar BE (CSE) 3 Sem "C" Sec (9740496061) 1NH16CS751 proxy.sudo@g mail.com	2019- 20	GEEKSPA CE Inc <sup>TM</sup> Dr.K. Gopalakris hnan, Dean (R&D)	Providing High-tech Services and Solutions, Professional Training/Inter nships and Project Solutions etc. in the emerging IT/ITES domains	Networked with IBM Open POWER, Object Automation, Nvidia. Started Doing Trainings/E vents with them!
2	G. Vishwa, BE (CSE) 3 Sem "A" Sec (9480199973) 1NH16EE059 <u>vishgoki@gmai</u> <u>l.com</u>	2019- 20	Career Tech Solutions <sup>T</sup> Dr.K. Gopalakris hnan, Dean (R&D)	Providing Online Skill- Gap Analytics- Career Guidance Tool along with Professional Certifications . Road map for hi-tech skill training on emerging areas of S&T and Management.	Patents Filed. "IBM Watson IoT and Power AI Developer Conference" scheduled on 3 <sup>rd</sup> Nove mber 2017 at an Auditorium, IIT Madras Research Park, Chennai- 600113
3	G. Vishwa &Sanketh S Huddar	2019- 20	Career ReadyWiz ard <sup>TM</sup>	Virtual Finishing School and	-do- Patents

## Table 9.6.4: List of Entrepreneurship Initiatives
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	BE (CSE) 3 Sem "C" Sec (9740496061) 1NH16CS751 proxy.sudo@g mail.com		Dr.K. Gopalakris hnan, Dean (R&D)	providing single platform for related services and solutions	Filed
4	S. Sivan Chakravarthy BE (CSE) 3 Sem "B" Sec (9448928290) 1NH16CS094 <u>sivan.sundar@g</u> <u>mail.com</u>	2019- 20	Dream FactorySol utions <sup>TM</sup> Dr.K. Gopalakris hnan, Dean (R&D)	Providing Virtual Production Design Solutions remotely and connecting funding sources with talented or needy technicians in "dream factory" solutions.	-do- Patents Filed
5	Vinayaka S.S. Sandilya BE (CSE) 3 Sem "B" Sec (9401333313) 1NH16CS123 Nishant Jha, BE (Mech) 3 Sem "C" Sec (9481015089) 1NH16ME732	2019- 20	Bhoral Solutions	Advanced Web Design/App Development and Providing Turnkey Solutions for Data Analytics	Currently Active in the Business, since last 3 years!
6	Mr. Rohit Mulay, Mr. Goutham. R &Mr. Sidharth. BE (CSE) 5 Sem "C" Sec (8951102065) 1NH15CS106 rohitmulaynhce @gmail.com	2017- 18	Own Your LMS	Personalized LMS based on individual competency and skill mapping	Patent Draft under Review/Fili ng in Progress (30 Dec 2017). "IBM Watson IoT and Power AI Developer Conference" scheduled on 3 <sup>rd</sup> Nove mber

					2017 at an Auditorium, IIT Madras Research Park, Chennai- 600113
7	Mr. Rohit Mulay	2017- 18	AgroFix	Providing on demand Agro based solutions	
8	Mr. Rohit Mulay	2017- 18	Easy Learn	Providing virtual personalized/ customized Learning Management Solutions	

# 9.6(B) Data on Entrepreneurship Initiatives CV

# **Entrepreneurship Development Cell Events:**

Entrepreneurship Development Cell (EDC) conducts various events to help students to know the importance of being an entrepreneur and ways to get financial assistance to become a successful entrepreneur.

Events	Da te	Ven ue	Numb er of studen ts
Dept. of MBA Organized a visit to Cheemasandhra	13/04/2018 -	MBA seminar	MPA cominer hell
and to Nimbakaypura for	16/04/2018	hall	MDA seminar nan
Rural development			
Dept. of MBA Organised a			
visit to SWANTHANA,		MBA seminar hall	MBA seminar hall
Care for mentally and	12/04/2018		
physically challenged			
female children.			
1St World	02/02/2018	Falconry seminar	Falconry seminar
Entrepreneurship Summit		hall	hall

# Table 9.6.5: List of Events (Civil Engineering)

Entrepreneurs hip awareness program by Mr.Prakashchoudhary, co-founder entrepreneurship garage	06/02/2020	C-202, Department of civil engineering, NHCE	C-202, Department of civil engineering, NHCE
World Entrepreneurs hip Summit	02/02/2019	New Horizon auditorium	New Horizon auditorium
Global family business summit	12/06/2020	Webinar	Webinar



Figure 9.6.1: Entrepreneurship events

	2016 - 2017	2017 - 2018	2018 - 2019
Entrepreneurship	No. of Students	No. of Students	No. of Students
	7	13	5

# Table 9.6.6: Number of students opted for entrepreneurship (CV)

# Table 9.6.7: List of Entrepreneurs for academic year 2018-19 (CV)

Programs Name: B.E Civil Engineering. Assessment Year:							
	2018-19						
Sl.	USN	Name	Organisation Name	Type of	GST No		
No.	COIV	1 vuine	orgumbation runne	Business	001110		
1	1NH15C	Ranjith.K.	SSV	Constructi	29AATFA872		
1	V097	В	CONSTRUCTIONS	on	4E1Z2		
		AKHILE					
2	1NH15C	SH	SSV	Constructi	29AATFA872		
	V012	SHETKA	CONSTRUCTIONS	on	4E1Z2		
		R					
			SREE				
3	1NH15C	VINITH	CHAMUNDESHW	Constructi	29ADAFS948		
5	V140	V	ARI	on	3N1Z4		
			CONSTRUCTIONS				
4	1NH15C	SHIVAR	S R	Constructi	29ADHFS124		
4	V120	AJA C	CONSTRUCTIONS	on	7D1Z4		
5	1NH15C	Aravind	S R	Constructi	29ADHFS124		
5	V021	Javali	CONSTRUCTIONS	on	7D1Z4		

Programs Name: B.E Civil Engineering. Assessment Year: 2016-17						
Sl. No.	USN	Name	Organisation Name	Type of Business	GST No.	
1	1NH13CV 145	Praveen Vasudeava n	Balaji Bricks Industry	Constructi on material	29AAQFB4134 J1Z5	
2	1NH13CV 127	Suresh Patil	Srv Builders	Builders	29ABSFS5074 P1ZZ	
3	1NH14CV 420	Shivaram Brahmand	Srv Builders	Builders	29ABSFS5074 P1ZZ	
4	1NH14CV 422	Vinaya Kumar K.R	Vv Builders and Contractors	Contractor	29ABSFV5471 P1ZC	
5	1NH14CV 423	Vishwas G.R	Vv Builders and Contractors	Contractor	29ABSFV5471 P1ZC	
6	1NH13CV 105	Sajeed Ali	Shanavaz Building Material and Shattering	Constructi on material	29BTPPS0066 K1Z7	
7	1NH13CV 089	Raju Nellur	Aakriti Realestate And Developers	Real Estate	29AHQPT4304 D1Z5	

Table 9.6.8. List of Entrepreneur	rs for academic year '	2016-17 (CV)
Table 7.0.0. List of Lint chi chemi	is for academic year a	

Programs Name: B.E Civil Engineering. Assessment Year: 2017-18					
Sl. No.	USN	Name	Organisation Name	Type of Business	GST No.
1	1NH15	Prashanth	Imperial	Constructi	29AABFI5167R1Z
	CV412	Kumar K	Constructions	on	М
2	1NH15	Surash	Imperial	Constructi	29AABFI5167R1Z
	CV420	Suresh	Constructions	on	М
3	1NH15	Manoi P	Imperial	Constructi	29AABFI5167R1Z
	CV409	Walloj K	Constructions	on	М
4			Nava	Constructi	
	1NH15	Sharu Ahamed	Karnataka	on	
	CV416	ΗA	Bricks	Materials	29AREPA0603N1
			Industries		Z0
5			Nava	Constructi	
	1NH14	Nawazullah N	Karnataka	on	
	CV072		Bricks	Materials	29AREPA0603N1
			Industries		Z0
6	1NH15 CV406	Madhu Patel N V	Prime Builders	Builders	29AAQFP8692M1 ZY
7	1NH15	Adarsh Lokesh		Builders	29AAOFP8692M1
	CV400	Reddy Dunnu	Prime Builders		ZY
8	1NH14	Maruthi Peddy	Prime Builders	Builders	29AAQFP8692M1
	CV062	Warutin Keduy	Time Builders		ZY
9			Sri Vinayaka	Constructi	
	1NH14	Narla Hari	Pavours &	on	
	CV070	Prasad Reddy	Hollow Bricks	Material	29ADSFS3071J1Z
			Industry		E
10	1NH14		Sri Vinayaka	Constructi	
	CV/008	Sai Somesh.V	Pavours &	on	29ADSFS3071J1Z
	C V U 20		Hollow Bricks	Material	Е

# Table 9.6.9: List of Entrepreneurs for academic year 2017-18 (CV)

			Industry		
11	1NH14 CV055	Lakshman K	Phoenixrmcpro ducts	Constructi on Material	29AAVFP3402E1 Z4
12	1NH14 CV083	Prajwal P	Phoenixrmcpro ducts	Constructi on Material	29AAVFP3402E1 Z5
13	1NH14 CV106	Sharavana M	Velu Ceramics Traders	Constructi on Material	29CUPPS5542E1Z 2

# 9.6(C) Data on Entrepreneurship Initiatives for ECE

Number of students got benefitted with ED cell activities. The below tables shows the data corresponding to 2018-19, 2017-18 and 2016 -17 academic years.

Events	Date	Venue
Dept. of MBA Organized a visit to	13/04/2018	MBA seminar
Cheemasandhra and to Nimbakaypura for	16/04/2018	hall
Rural development		
Dept. of MBA Organised a visit to	12/04/2018	MBA seminar
SWANTHANA, Care for mentally and		hall
physically challenged female children.		
	02/02/2010	
1 <sup>or</sup> World Entrepreneurship Summit	02/02/2018	Falconry seminar
		hall
Open my Book	28/02/2019	Falconry seminar
		hall
E-Week	25/03/2019	Falconry seminar
	&	hall
	30/03/2019	
Orientation Program on EDC	24/08/2019	Falconry seminar
		hall
FDP	31/08/2019	Falconry seminar
		hall
COSMOS 'E'	23/10/2019 &	Falconry seminar
	24/10/2019	hall
Start-Up Pitch-Athon	04/12/2019	Falconry seminar
		hall

# Table 9.6.10: List of Entrepreneurship Initiatives (EC)



Figure 9.6: Entrepreneurship events (EC)

S.No	Enrollment no.	Name of the student	Name of the Company Incubated	Year
1	1NH15EC062	Nikhil	3D Print Concrete	2018-19
		Riyaz		
2	1NH15EC727	Hari Raj	3D Print Concrete, Self- Propelled Jet, ECG/ICG T-Shirts	2018-19
3		Ankit	Urban Tribe	2018-19
		Mishra		
4	1NH15EC011	Bhavana	Infinity Designs	2018-19
		Savanth		
5	1NH15EC741	Sanjana	Noveltech Corner	2018-19
		Ranjan		
6	1NH15EC748	Т	GamaProto	2018-19
		Venkatesh	Solutions	
		Shuvampal		
7	1NH15EC062	Nikhil	Self-Propelled Jet	2018-19
		Riyaz		
8	1NH15EC019	Denzel	ECG/ICG T-	2018-19
		Abraham	Vision Grading.	
		George	Self-Propelled Jet	
9	1NH15EC703	Ashwin S	TSC Pvt Ltd	2018-19
10	1NH15EC727	Hari	Machine Vision Grading	2018-19

Table 9.6.11: List of Entrepreneurs	s for academic year 201	8-19 (EC)
-------------------------------------	-------------------------	-----------

S.No.	Enrollment no.	Name of the student	Name of the Company Incubated	Year
	1NH13EC112			2017-18
1		Rohit Mulay	Own Your LMS, AgroFix,	
			EasyLearn	
2	1NH13EC102	Goutham R	Own Your LMS	2017-18
			EpergyGuru MedCall	
			EnergyOuru, WedCan	
3	1NH14EC012	Sidharth P		2017-18
			Own Your LMS, EasyTech	
4	1NH13EC008	Amrithnath	Overnight Ventures	01-05-2017

# Table 9.6.12: List of Entrepreneurs for academic year 2017-18 (EC)

# Table 9.6.13: List of Entrepreneurs for academic year 2016-17 (EC)

S.No.	Enrollment no.	Name of the student	Name of the Company Incubated	Year
1	1NH13EC717	Chethan R	Aspire Ventures	22-12-2018

# 9.6(D) Data on Entrepreneurship Initiatives for ME

Following list provide the effectiveness of the EDC cell in developing the student skills to a level of Entrepreneur. List of Entrepreneurs is given below:

Acade mic Year	S1 N o.	Name of the entrepreneur	USN	Type of Business started	Type of product	Company name & Place
2017	1	MazoodShafe eque	1NH13ME 075	Automobi le	Cars	Terazzo
2017	2	Nitesh Sharma	1NH13ME 092	Football Academy	Sports	MAJAZ Football Club
	1	Amar Kumar Bhatt	1NH14ME 017	Hydraulic Hose and Fittings	Hydraulic Hose and Fittings	New Bombay Hydraulic
2018	2	Yashash.K	1NH14ME 147	Gifts Trading	Gifts wholesale dealer	Indian National
	3	Sanjaya Mahato	1NH14ME 159	Food Chain	Foods and beverages	Tam Chibe café
	4	Vineet Nandiki	1NH15ME 434	Interior Design	Interior Design	V Create Interio
	1	MANJUNAT H G	1NH15ME 063	Products Consultan t	Beauty care	Modicare
	2	PRAJWAL B R	1NH15ME 086	Products Consultan t	Beauty care	Modicare
2019	3	DEEPAK.S	1NH16ME 404	Water Distillary	Water Purificati on	SLV Mineral Water treatment
	4	SALEEL HUSSAIN	1NH15ME 744	HVAC Servicing	HVAC	Airtech Entreprise
	5	SRIGI REDDY DINESH KUMAR REDDY	1NH15ME 750	Batteries managem ent	Batteries managem ent	Sri AnanthaEntri prise

# Table 9.6.14: List of Entrepreneurs in mechanical engineering for the duration2017-19 (ME)



Figure No. 9.9: Incubation Collaboration(ME) Figure No. 9.10: Faculty orientation on entrepreneurship skills(ME)

# 9.7. Co- Curricular and extra- curricular Activities (10)





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Figure No. 9.7.1: College Departmental clubs

# Club activities (CSE)

Table 9.7.a: List of Club activities in CSE for duration 2017-18-19

Sl. No	Event	Name of Club	Date
	Academic Year 2019-2020	· · ·	
1.	Event X	BIT	16-10-2019
2.	Tech talk on blockchain	BIT	28-08-2019
3.	PubApp (Workshop)	MD	27-09-2019
4.	Appathon	MD	30-08-2019
5.	Appatronics	MD	06-02-2020
6.	Code storm	ACE	07-02-2020
7.	Tech talk Advanced CSS	ACE	13-09-2019
8.	Hour of Code	ACE	23-08-2019
	Academic Year 2018-19		
1.	BIT Volume-2 (coding, quiz)	BIT	31/10/2018
2.	Hackathon	BIT, ACE, MD	11-03-2019
3.	Current trends in data analytics (tech talk)	BIT	17/04/2019
4.	Workshop on android app	MD	26-10-2018

	development		
5.	Battle of Apps	MD	26-10-2018
6.	Workshop on android app development	MD	11-04-2019
7.	Hackathon	BIT, ACE, MD	11-03-2019
8.	QuBytes	MD	22-03-2019
9.	Appathon	MD	23-03-2019
10.	Shark Tank	ACE	23-03-2019
11.	Entretien	ACE	05-10-2018
12.	Blank Coding	ACE	05-10-2018
Academi	c Year 2017-18		
1.	Volume-1 Quiz, Puzzle, Treasure hunt	BIT	28/03/2018
2.	Mobile app devp workshop	MD	07-03-2018
3.	Techquiz 2.0	ACE	04-04-2018
4.	Python Workshop 2.0	ACE	06-04-2018

# **Club activities (CIVIL)**

# Table 9.7.b: List of Club activities in CIVIL for duration 2017-18-19DEPARTMENT OF CIVIL ENGINEERING

# AVISHKAR /PRAKRUTHI CLUB.

AVISHKA	R CLUB	
SL.NO	YEAR	EVENT CONDUCTED
1	2018 (EVEN SEM)	ARCHIBUS SIMPLETM
2	2018-19 (ODD SEM)	DEPICTION AND TECHNICAL WRITE UP
3	2018-19(EVEN SEM)	IGNITE (LAB WARS, BRAIN STORMING,DISTANCE HUNTER)

4	2019-20 (ODD SEM)	CENE <sub>x</sub> CLUB
PRAKURTHI	CLUB	
1	2019-20( ODD SEM)	BEST FROM WASTE
2	2018-19( ODD SEM)	INTERNATIONAL DAY FOR NATURAL DISASTER REDUCTION THROUGH SCAVANGER
3	2018-19 (EVEN SEM)	World water day awareness by web

# **Club activities (ME)**

# Table 9.7.c: List of Club activities in ME for duration 2017-18

	List of Professional Societies/Chapters and Organizing Engineering Events in CAY (2017-18)							
SL. NO	NAME OF	ORGANIZED EVENT AND TITLE	RESOURCE PERSON	HOURS / DATE	NO OF PARTICIPANTS /	NO. OF		
	PROFESSIONAL		ORGANIZED		ATTENDEES	DAYS		
1	SAP next-gen	Hands-on Session on Machine Learning		04-04-2018		1		
2	SAP next-gen	Training Programme on Machine Learning		30-3-2018		1		
3	SAP next-gen	SAP-TCS Hackathon		14 <sup>th</sup> -15 <sup>th</sup> March 2018		2		
4	SAP next-gen	Hackathon at SAP Labs, Whitefield		16 <sup>th</sup> -17 <sup>th</sup> Feb 2018		2		
	ROBOHORIZON	SpaceX – Guest lecture on Aerospace	Dr. Prashanta Kumar	24-2-2018	60	1		
5	i	Science and Technology	Panda, CSIR-NAL					
6	ROBOHORIZON	Robo-Tech Fair		04-06-2018		1		
	ROBOHORIZON	Yantrikchitr – CAD Workshop &		28-10-2017		1		
7	,	Competition						
8	MECHORIZON	3D Pop Model Making		16-11-2017		1		
9	MECHORIZON	Dassault Systems - Mobile Demo Center	EDS Technologies	27-9-2017		1		

# Table 9.7.d: List of Club activities in ME for duration 2018-19

SL. NO	NAME OF PROFESSIONAL SOCITIES / CHAPTERS	ORGANIZED EVENT AND TITLE	RESOURCE PERSON ORGANIZED	HOURS / DATE	NO. Of particip ents	NO. OF DAYS
1	MECHORIZON / ROBOHORIZON	TCS Tech Bytes		29-2-2019	30	1
2	MECHORIZON / ROBOHORIZON	Future Mobility Show 2019		26 <sup>th</sup> – 28 <sup>th</sup> Feb 2019		3
	MECHORIZON /	National Productivity Council Poster Making		31-1-2019	25	1
3	SAP next-gen / ROBOHORIZON	Competition on "Circular Economy for Productivity				
4	MECHORIZON	Decathlon Innovation Challenge	Decathlon Team	11-02-2018	48	1
5	MECHORIZON	Shell Eco-Marathon Promotional Event		20-10-2018		1
6	MECHORIZON / ROBOHORIZON	"Laser World of photonics India" Industrial Visit – BIEC		26-9-2018	58	1
7	MECHORIZON/ ROBOHORIZON	International Design Competition	CADD Centre	25-9-2018	15	1
8	SAP next-gen	Hands-on Approach to Introduction to Machine Learning with Python	Mithun D J	17-4-2019		1
9	SAP next-gen	Bites Project Awards 2019		28-2-2019 to 22-6- 2019		120
10	SAP next-gen	Introduction to Machine Learning with Python	Vidyadhar Sharma	11-05-2018		1
11	SAP next-gen	Workshop on SAP Cloud Platform	SAP Experts	08-09-2018		1
12	SAP next-gen	Workshop on SAP Cloud Foundry Day	SAP Experts	08-10-2018		1

List of Professional Societies/Chanters and Organizing Engineering Events in CAY (2018-19)

	List of Pr	ofessional Societies/Chapters and Org	ganizing Engineer	ring Events in CA	Y (2019-20)	
	NAME OF	ORGANIZED EVENT AND TITLE	RESOURCE PERSON	HOURS / DATE	NO. OF	NO. OF
	PROFESSIONAL		ORGANIZED		PARTICIPANTS /	DAYS
	SOCITIES /				ATTENDEES	
1	ISHRAE	Webinar on Relationship Marketing	JVC Sreeram	2 Hrs / 9-5-2020	25	1
2	ISHRAE / ASHRAE	Webinar on Post Covid HVAC Strategies: Safety	Rohan Parikh	2 Hrs / 15-5-2020	25	1
_		and Cost Reduction				
	MECHORIZON /	Visit to IMTEX 2020		17-1-2020	21	1
	ROBOHORIZON					
	MECHORIZON	Take-Off Rocket Making Competition	Vinod Kumar	26-10-2019	104	1
٦	MECHORIZON	Hands on Workshop on Water Rocketry	Vinod Kumar	26-10-2019	104	1
	SAP next-gen	Seminar on Road Map to Data Science	Vijoe Mathew	17-10-2019	30	1
1			Gokul			
	ROBOHORIZON	"ROBOTRON" Visit to Anjanadri High School		23-10-2019	70	1
	ROBOHORIZON	Tech Buzz		21-8-2019	52	1

# Table 9.7.e: List of Club activities in ME for duration 2019-20

# 9.7(A) Extra-Curricular Activities of CSE

#### **Sports**

Sports at the NHCE are played with much fervor and passion. There is emphasis on regular exercise and physical fitness. All games are supervised by professional coaches. Equal importance is extended by the department towards extracurricular and co-curricular activities. This can be envisaged by the number of students participating in such events. The department has students who are members of various college/university level teams like basketball, volleyball, football, throw ball, etc. Our students regularly participate in tournaments including those at the state level. Given below are the details of such participation in the different academic years.

Event Name	Name & USN Of Student	Semest er of Student	Tournament	Event Date		
Academic Year 2019 – 2020						
			Court Wars	1/9/2019 to 8/9/2019		
	Anurag		RIT	9/9/2019 to 11/09/2019		
Basket Ball(M)	Rajshekar 1NH16CS70 1	VII/VII I	VTU(BCZ)	16/09/2019 to 17/09/2019		
			VTU(IZ)	25/09/2019 to 28/09/2019		

Table 9	.7.1:	List	of Spo	rting	Events	Partici	nated	in by	v Students	of CSF	C
rabic )	•/•1•	LISU	or opo	ung	LITUIUS	I al tici	paicu	moy	Diadents	ULCOL	-

			KreeDostava	1/10/2019
	Mahan Sai		MCDostava	to
	Krishne	X7/X71		4/10/2019
		V/VI	DESIT	1/10/2019
			I LOII	14/10/2019 to
				16/10/2019
			Association	2/11/2010
			Cup	5/11/2019 to
	Nitish Naik	III/IV	Cup	9/11/2019
	1NH19CS42		Mallachwaram	25/1/2020
	1		Cup	23/1/2020 to
			Cup	3/02/2020
			SDIEI	10/02/2020
			SFILL	10/02/2020 to
				15/02/2020
			PVCE	22/02/2020
				to
				24/02/2020
			Deveden Cup	28/02/2020
			Devauail Cup	20/02/2020 to
				29/02/2020
			Court Wars	$\frac{1}{9}$
			Court wars	8/9/2019
	Muskan Agrawal 1NH18CS11 7	III/IV	RIT	9/9/2019
			KI I	11/09/2019
Rasket Rall			KraaDostava	1/10/2010
(W)			KIEEDOstava	1/10/2019 to
(**)				4/10/2019
			PESIT	1/10/2019
			I LSII	to
				16/10/2019
	1	1	Spradha 2019	26/9/2019
	Ranu Prathan		~ provine 2017	to 28/9
	Reddy	V/VI		/2019
	1NH17CS02	V / VI	PESIT	14/10/2019
Kabaddi (M)	2			to
	-			16/10/2019
			SJCC	24/2/2020
				to
				25/2/2020
	Banu Prathap			
	Reddy	V/VI		
***	1NH17CS02			5/9/2019 to
Wrestling	2		VTU	7/9/2019
Judo		V/VI		
	Purshotham	V/VI		
	1NH17CS00			
	11111/0500		1	

	2			
Hockey	Joydeep Singh (1NH18CS22 0)	III/IV	St. John's	25/9/2019 to 28/9/2019
Badminton( M)	Mushtaq Ahmed KS 1NH17CS08 6	V/VI	VTU Spradha 2019	24/8/2019 to 25/8/2019 26/9/2019 to 27/09/2019
			KreeDostava	to 4/10/2019
	Preksha 1NH17CS10 2	V/VI	VTU	24/8/2019 to 25/8/2019
Badminton( W)	KN Sripriya 1NH17CS06 0	V/VI	Spradha 2019	26/9/2019 to 27/09/2019
			KreeDostava	1/10/2019 to 4/10/2019
	Ashwij Kumar 1NH18CS03	III/IV	CHRI-SPO	12/09/2019
	1 Devendra Desai 1NH18CS05 7	111/15/	Basavangudi	24/02/2020 to 25/02/2020
Handball(M)			CUFEE	28/02/2020 to
	Jayesh Naidu 1NH18CS08 0	IV		29/02/2020
	Tanith T	III/IV	CHRI-SPO	14/09/2019 to 17/09/2019
Football	1NH18CS19 4		SPRADHA 2019	26/09/2019 to 27/09/2019
			KREEDOSTA VA	1/10/2019 to 4/10/2019

			RVCE	22/02/2020
			<b>KVCE</b>	22/02/2020 to
				24/02/2020
			CLIEF	24/02/2020
			CUFE	27/02/2020
				to
				29/02/2020
Academic Year 2	2018-2019			
			BTL	11/09/2018
			KREEDOSTA	22/09/2018
			VA	to
				24/09/2018
			SPARDHA	3/10/2018
				to
	Abhishek	VII/VII		4/10/2018
	1NH14CS00	I	RVCE	9/2/2019
	1	1		to10/02/20
Volleyball(M	1			19
			CUFE	28/02/2019
				to 2/3/2019
			VTU(BCZ)	8/3/2019 to
				9/3/2019
			FISA	28/03/2019
			AMC	29/3/2019
				to
				30/3/2019
			NEWHORIZO	3/4/2019 to
			N CUP	5/4/2019
-	Kavva A S	VI	VTU(IZ)	18/3/2019
	1NH16CS05 0			to
				19/3/2019
			VTU(BCZ)	15/3/2019
		V/I		to
	Samaalasha D	V1		16/3/2019
Volleyball(			FISA	29/3/2019
<b>W</b> )				to
	0			30/3/2019
			AMC	28/3/2019
			NEW	3/4/2019 to
			HORIZON	5/4/2019
			CUP	
	Abhishek			25/10/2018
	1NH14CS00			to
	1	VII		29/10/2018
Athletics	-	,	VTU	
	Mailarach S	VII		
		V 11		
	INHI5CS0/			
	2			

			St. Johns	5/9/2018 to
				9/9/2018
			VTU(BCZ)	14/9/2018
				to
	Mohan Sai			15/9/2018
	Krishna		VTU(IZ)	17/9/2018
	1NH17CS08	III/IV		to
	2			18/9/2018
			KREEDOSTA	21/9/2018
			VA	to
				24/9/2018
			MS RAMAIH	22/9/2018
				to
				24/9/2018
Basketball(			SPRADHA	3/10/2018
<b>M</b> )				to
				4/10/2018
			Malleshwaram	26/1/2019
				to 3/2/2019
			RVCE	8/2/2019 to
				10/2/2019
			Spiel	11/2/2019
			~p···	to
				15/2/2019
			New Horizon	28/3/2019
			Cup	to 5/4/2019
			CUFE	28/2/2019
				to 2/3/2019
			СМР	25/3/2019
			NHPS	1/8/2018 to
				4/8/2018
			St. Johns	5/9/2018 to
			Structures	9/9/2018
			MS RAMAIH	22/9/2018
				to
	N /			24/9/2018
	Madhuri		SPRADHA	3/10/2018
Basketball				to
(W)	INHISCS00			4/10/2018
	/	1	Malleshwaram	26/1/2019
	<b>T</b> 1 'C '			to 3/2/2019
	1 ulasiSomaia		RVCE	8/2/2019 to
		V/VI		10/2/2019
	INH16CS07		Spiel	11/2/2019
	ð			to
				15/2/2019
			New Horizon	28/3/2019
		1		20, 3, 2017

			Cura	$t_{0} = 5/4/2010$
				10/4/2019
			VIU(BCZ)	10/4/2019
			VIU(IZ)	11/4/2019
				12/4/2019
			SPRADHA	3/10/2018
				to 5/10/ 2018
	Banu Prathap		INFINI	10/10/2018
	Reddy	III/IV		to 13/10/ 2018
	1NH17CS02 2		St. Joseph's	6/3/2019to 7/3/2019
Kabbadi(M)			REVA	23/3/2019
			University	to 25/3/2019
			New Horizon	3/4/2019 to
			Cup	5/4/2019
			RNSIT	10/4/2019
				11/4/2019
	Banu Prathap		VTU	15/10/2018
	Reddy	III/IV		to 17/10/2018
Wrestling(M	2		VTU(Nationals	7/11/2018
)			)	to
				20/11/2018
Wrestling	Kavya AS	V	VTU (Silver	15/10/2018
(W)	1NH16CS05		Medal)	to
	0 Libbito	VII		2/0/2018 to
	Liknita Suresh	VII	VIU	$\frac{3}{9}/2018$ to $\frac{4}{9}/2018$
Table Tennis	1NH15CS06			1/ 5/ 2010
	4			
	Nayana K	VII		
	1NH15CS08			
Throwball(	1		VTU	9/10/2018
<b>W</b> )	A menthe LID	VII		
	1NH15CS01			
	6			
	Mushtaq	III/IV		
	Ahmed KS			
Badminton	INHI7CS08			27/8/2018
	U		VTU	to 28/8/2018
		VII/VII		20/0/2010

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	1			1
	G Naveen Sai Kaanth 1NH15CS04	I		
	Preksha 1NH17CS17 7	III/IV III/IV	RVCE	8/2/2019 to 10/2/2019
	KN Sripriya 1NH17CS06 0			
	Sujay Hazra	III/IV	St. John's	5/9/2018
	1NH17CS12 7		SPRADHA	3/10/2018t o
-		III/IV		4/10/2018
Football	Kartikey 1NH17CS72		CUFE	28/2/2019 to 2/3/2019
	6		NITTE	6/3/2019 to 8/3/2019
	Thejus B 1NH16CS11 6	V		
	Naman Gupta 1NH17CS73 1	III	VTU	4/10/2018 to
Softball	Akash Kumar 1NH17CS70 1	III		5/10/2018
	MohithTeppo la 1NH17CS08 4	III		
	M Gopinath 1NH17CS72 1			
Cricket	S Jagadeesh 1NH17CS12	III	PES	6/10/2018 to 13/10/2018

	5		MSRIT	29/10/2018
				to
				9/11/2018
Academic Year 2	2017 - 18			25/1/2010
			VIE	25/1 / 2018
				28/1/2018
			Malleshwaram	$\frac{4}{2}$ 4/2/2018 to
	Anurag			11/2/2018
	Rajshekar	IV	SPIEL	19/2/2018
<b>B</b> askothall(	1NH16CS70 1			to 21/2/2018
M)			Devdan Cup	1/3/2018 to 3/3/2018
			KREEDOSTA VA	8/3/2018 to 10/3/2018
			AZURA 2018	14/3/2018 to 4/4/2018
			RV Momentum	17/2/2018
				to
			VIE	25/1 / 2018
			, IL	to
				28/1/2018
			Malleshwaram	4/2/2018 to 11/2/2018
			SPIEL	19/2/2018
	Madhuri			to 21/2/2018
	Mandlem	IV	RV Momentum	17/2/2018
Basketball(	7			to 18/2/2018
vv)			KREEDOSTA	8/3/2018 to
				10/3/2018
			ALUKA 2010	to 4/4/2018
			Dr.AIT	12/4/2018
				to
				13/4/2018
			DLDLACEI	to
				16/4/2018
			BGS Cup	22/3/2018
Kabaddi (M)				to
	Arun Kumar	VI	Azura2018	2/4/2018 to
	INHI5CS/0		1120102010	4/4/2018

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	8		SAI LIO	17/4/2018
				to
				18/4/2018
	Tenzin	VIII	RVCE	17/2/2019
	Namdol			to
	1NH14CS13			19/2/2018
	0	IV	VIU	20/2/2018
	Ducion A dhile			$\frac{10}{21/2}$
Football	PrajanAdnika		Devandan Cun	$\frac{1/3}{2018}$ to
rootball	1NH16CS13		Devaluation	3/3/2018
	8	VIII	AZURA 2018	2/4/2018 to
				4/4/2018
	Roshan Jimi			
	1NH14CS15			
	7			
	Subin	VIII	RVCE	16/3/2018t
	Pandey			0
	1NH14CS15			17/3/2018
Chess	9			
	<b>T</b> T 1.11	VIII		
	Kaushik			
	INHI4CS/4			
	G Naveen	VI	RVCE	17/2/2019
	Sai Kanth			to
	1NH15CS04			19/2/2018
Badminton(	1		AZURA 2018	2/4/2018 to
<b>M</b> )		VIII		4/4/2018
	Bhavan A			
	1NH14CS02			
				7/2/2010
	B L Shraadha		VIU	7/3/2018
	INHI4CS02	VIII		
	0	M		
	Amrutha H R	V I		
	1NH15CS01		BMSCE	8/3/2018 to
Volleyball(	6	VI		10/3/2018
W)		V I		
	Nayana K			
	1NH15CS08			2/4/2010
	1	VI	AZURA 2018	$\frac{2}{4}$ /2018 to
				4/4/2010
	Priyanka			
	Dubey	VI		

	1111150072			
	INHI5CS/3			
	2			
	Ashwini S			
	1NH15CS02			
	2			
	B L Shraadha		VTU	7/3/2018
		VIII	DMSCE	9/2/2019 to
	0	v 111	DIVISCE	$\frac{0}{3}\frac{2}{2010}$
	0			10/3/2018
		VI	AZURA 2018	2/4/2018 to
	Amrutha H R			4/4/2018
	1NH15CS01			
	6	VI		
		V I		
Throwball	NI IZ			
(W)	Nayana K			
	1NH15CS08			
	1	VI		
		V 1		
	Aishwarva			
	1NH15CS70			
	0			
	Abhishek	VI	RVCE	17/2/2019
	1NH14CS01			to
	1			19/2/2018
		VI	CIT	6/4/2018 to
КНО КНО	Mailresh	, I		7/4/2018
	1NH15CS07		NHCE	13/3/2018
	2		AZURA 2018	2/4/2018 to
	_			4/4/2018
			Star Shooters	15/2/2018
				to
				16/2/2018
			Davidan Cun	1/2/2018 to
	Naveen Raj		DevuanCup	1/3/2010 10 2/2/2019
	1NH13CS73	VIII		2/3/2018
	2		Star Shooters	6/3/2018 to
Handball				10/3/2018
			VTU(BCZ)	13/3/2018
				to
				14/3/2018
			VTU(IZ)	16/3/2018
				to
				17/3/2018
1		1		1//3/2010

# Participation in Inter College and Intra College Events

The students of the department of CSE have also participated in different intercollege fests and have also become winners in a few events. In addition, the students also participate in several activities/events organized by the college as well. Given below is the list of such participation in the various academic years

Sl No	Event	Name of Participating	Semester	Date				
		Student						
Acade	Academic Year 2019-2020							
		Akshaya P Nayak	7					
		Harshini K	7					
1	One Tree One	InducuriSweetha	7	20.09.2010				
1.	Student	Ishitha Nilesh Joshi	7	29.08.2019				
		Sandhya M N	7					
		Sowmya P B	7					
2.	Donation Camp for the Flood Victims of North Karnataka and Kerala	Nikita Upadhyay	7	10.08.2019				
3.	Times Fresh Face by Times of India	Nikita Upadhyay	7	09.10.2019				
		Keerthana	5					
1	Bangalore Medical College Fest (Play Team)	Sreehari N R	5	16.10.2019				
4.		Joel Chacko	3					
		Neeharika	3					
		Akshaya Suresh	3					
	St. John's East	Siri	5					
5.	Autumn	SeeHari NR	5	27.09.2019				
		Emmanuel Leo	3	_				
		Joel CC	3					
6.	Orphanage visit	Anshika Singh	3	26.10.19				
		Diwakar P	5	_				
		Thanush	5	_				
	~ ~	Ashwij	3					
7.	Spartan Race	Jayesh Naidu	3	26.10.19				
		Rathod Akash Ashok	3					
		Stuti	3					

# Table 9.7.2: List of Inter College and Intra College Events Participated

		Sivan Chakravarthy	7			
		Deeksha S	5			
		Deepthi S	5			
		NikshithaBollineni	3			
8.	Litrary Club -	Arohi Jain	3	25.10.19,		
	NHMUN Event	Harshith Pant	arshith Pant 3			
		Bhoomika	5			
		Jeshav	7	1		
		Anurag	7			
		Keerthana	5			
0	Kannada	Srihari NR	5			
9.	Rajyotsava	Joel CC	3	04.11.2019		
		Kavya	7			
Acade	emic Year 2018-2019		1			
		Abhishek	7			
		SrivardhanBandi	7			
1.	PES fest	Huma Farheen	7	11.08.2018		
		Nitin Shashi	7			
		Rahul Prem	7			
		SrivardhanBandi	7			
	Nagarjuna Fest	Huma Farheen	7			
2.		Nitin Shashi	7	28.08.2018		
		Rahul Prem	7			
		Salman M G	5			
_		Nitin Shashi	7			
3.	Jain Fest	Rahul Prem	7	27.9.2018		
		Prathiksha	5	3.11.2018		
4.	Kannada	Sanjana Anand	7			
	Rajyaothsava	Kurthana	5			
5.	MUN Event	Rahul Prem	7	6.11.2018		
	Club activities-	Suhasendra	7	2.2.2010		
6.	Media club	Sanket S Huddar	5	2.2.2019		
_	Rashtriya Ekta	Rohit Mullay	5	21.10.2010		
7.	Diwas	Sivan Chakraborty	5	31.10.2018		
		Sri Raksha G	5			
0		KuwaSaurya	5	22 < 2019		
8.	PINK DA Y	Keshav		23.6.2018		
		Salman M G	5			
		Akhil	5			
9.	MAAYA 2018	Ramachandran		30.7.2018		
		Renuka P	5			
10.	Independence Day /Cultural Event	Suhasendra	5	15.8.2018		

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		Keshav	6	
		Aditya RV	8	
		Suhasendra N B	6	
11	Woman's day			8 2 2010
11.	Celebrations	Salman	6	8.3.2019
		Akhil	6	
		Sanjana Anand	8	_
		Aditya RV	8	
12.	Birth Anniversary of Chhatrapati Shivaji	Keshav	6	19.2.2019
		Gopinath	4	
		Siri	4	
		Sreehari	4	
13.	Christ Univ Fest	Akshaya	2	6.3.2019
		Nithin S	8	
		Srinivas R	4	
		Likhith Suresh	8	
1.4		Keshav	6	4.04.2010
14.	NIFT Fest	Gopinath	4	4.04.2019
	ICAT Fest	Keshav	6	
		Gopinath	4	
15.		Anurag G	6	26.3.2018
		Sivan Chakravarthy	6	
		Sujay Hazra	4	
		Rahul Prem	8	
		Huma Farheen	8	
		Swapnil	8	
		Mohan	4	
1.6		Siri	4	
16.	NMIT Fest	Sreehari	4	25.02.2019
		Akshaya	2	
		Keerthan K Bhat	4	
		Likhith Suresh	8	
		Sanjana Ramesh	8	
		Huma Farheen	8	
1.5		Swapnil	8	
17.	IIM-B Fest	Mohan	4	26.08.2018
		Sanketh	4	
		Huma Farheen	8	
18.	Presidency	Swapnil	8	30.03.2019
	University Fest	Mohan	4	
1.5	Ambedkar	Huma Farheen	8	
19.	Institute of	Swapnil	8	4.03.2019
L	1		~	

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	Technology	Mohan	4	
		Huma Farheen	8	
		Mohan	4	
•	Dayananda Sagar	Siri	4	16.07.2010
20.	Fest	Sreehari	4	16.07.2018
		Akshaya	2	
		Keerthan K Bhat	4	
	International	Huma Farheen	8	
21.	School of	Mohan	4	20.09.2018
	Management	Abhishek	8	
		Huma Farheen	8	
22	SJBIT Fest	Swapnil	8	7.10.2018
22.		Mohan	4	
		Abhishek	8	
	Karunanidhi College Fest	Huma Farheen	8	
23.		Swapnil	8	21.10.2018
		Mohan	4	
	RVCE	Sreehari	4	
24		Siri	4	12 11 2019
24.		Akshaya	2	12.11.2018
		Keerthan K Bhat	4	
		Suhasendra N B	6	
25.	CMRII College	Akhil	6	15.03.2019
	1.651	Renu	6	
		Keshav	6	
26	Ramaiah Institute	Suhasendra N B	6	25.04.2010
20.	of Technology	Salman	6	23.04.2019
		Akhil	6	1

#### **Co-Curricular Activities**

To enhance the organizational and interpersonal skills of our students we conduct several activities under the aegis of various clubs in the department. These activities are the sole responsibility of the student organizers. The department has three clubs namely ACE, BIT & MAD. Several technical activities are conducted by these clubs and year wise consolidations of these are given in Table 9.7.3.

Sl. No	Event	Name of Club	Date				
	Academic Year 2019-2020						
9.	Event X	BIT	16-10-2019				
10.	Tech talk on blockchain	BIT	28-08-2019				
11.	PubApp (Workshop)	MD	27-09-2019				
12.	Appathon	MD	30-08-2019				
13.	Appatronics	MD	06-02-2020				
14.	Code storm	ACE	07-02-2020				
15.	Tech talk Advanced CSS	ACE	13-09-2019				
16.	Hour of Code	ACE	23-08-2019				
	Academic Year 2018-19						
13.	BIT Volume-2 (coding, quiz)	BIT	31/10/2018				
14.	Hackathon	BIT, ACE, MD	11-03-2019				
15.	Current trends in data analytics (tech talk)	BIT	17/04/2019				
16.	Workshop on android app development	MD	26-10-2018				
17.	Battle of Apps	MD	26-10-2018				
18.	Workshop on android app development	MD	11-04-2019				
19.	Hackathon	BIT, ACE, MD	11-03-2019				
20.	QuBytes	MD	22-03-2019				
21.	Appathon	MD	23-03-2019				
22.	Shark Tank	ACE	23-03-2019				
23.	Entretien	ACE	05-10-2018				
24.	Blank Coding	ACE	05-10-2018				
Academic Year 2017-18							
5.	Volume-1 Quiz, Puzzle, Treasure hunt	BIT	28/03/2018				
6.	Mobile app devp workshop	MD	07-03-2018				
7.	Techquiz 2.0	ACE	04-04-2018				
8.	Python Workshop 2.0	ACE	06-04-2018				

Table 9.7.3: List of Club Activities organized

# **Participation in Inter-College Technical Events**

Students of the department are encouraged to participate in technical activities conducted by other colleges. Several of our students have won events as well. The details of such participation are listed below

Sl. No	USN	Name of the Student	Event Date	Event Details	Institutio n/ Organiza tion	Achieve ment
1	1NH17C S112	Ruman Ahmed Shaikh	3-20-2020 & 4- 02-2020	IBM - Hacker verse Hackath on	Kristu Jayanti College, Bangalor e	1st Prize
2	1NH17C S127	Sujay Hazra	3-02-2020 & 4- 02-2020	IBM - Hacker verse Hackath on	Kristu Jayanti College, Bangalor e	1st Prize
3	1NH18C S120	GulsanBorbhi ya	3-20-2020 & 4- 02-2020	IBM - Hacker verse Hackath on	Kristu Jayanti College, Bangalor e	1st Prize
4	1NH18C S706	Ankit Datta	14-02-2020 & 15-02-2020	CodeCo nnect	Maharaja Institute of Technolo gy, Thandava pura	Particip ation
5	1NH18C S006	Abhay Thoppal Shiva	14-02-2020 & 15-02-2020	CodeCo nnect	Maharaja Institute of Technolo gy, Thandava pura	Particip ation
6	1NH18C S069	Goutham Shanbhag	14-02-2020 & 15-02-2020	CodeCo nnect	Maharaja Institute of Technolo gy, Thandava pura	Particip ation

 Table 9.7.4: List of Inter-College Technical Events Participated

7	1NH18C S229	Shreyas B	14-02-2020 & 15-02-2020	CodeCo nnect	Maharaja Institute of Technolo gy, Thandava pura	Particip ation
8	1NH18C S742	Sajjan Kumar	14-02-2020 & 15-02-2020	CodeCo nnect	Maharaja Institute of Technolo gy, Thandava pura	Particip ation
9	1NH18C S057	Devendra Desai	14-02-2020 & 15-02-2020	CodeCo nnect	Maharaja Institute of Technolo gy, Thandava pura	Particip ation
10	1NH18C S103,	Kundana R	29-02-2020	Open Day'202 0 - Blind coding	HSC - Bangalor e	1st Prize
11	1NH18C S108,	Madhura K	29-02-2020	Open Day'202 0 - Blind coding	HSC - Bangalor e	2nd prize
12	1NH18C S203	Yagna Vikas Parvatikar	29-02-2020	Open Day'202 0 - Blind coding	HSC - Bangalor e	3rd Prize
13	1NH18C S177	Ms Shreya Pradeep	18-10-2019	Sap Semicol on Hackath on	SAP LABS Office, Whitefiel d, Bangalor e	Particip ation
14	1NH17C S127	Sujay Hazra	21-12-2019	CSI program ming contest	CSI 2020 Conventi on, BhubaNe wswar	Particip ated

# Hackathon

Students of our department also participated in the Hackathon. The details are given below

1 able: 9.7.5 Participation in Hackathon	<b>Table: 9.7</b>	.5 Partici	pation in	Hackathon
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	Team				
Event	Name	Name	USN	Role	Remarks
		GulsanBorbhuiy a	1NH18CS72 0	Team Leader	Participated
CIII		Manasa A	1NH18CS11 0	Team Member	Participated
2019	Benders	Harshit Pant	1NH18CS07 2	Team Member	Participated
		Muskan	1NH18CS11	Team	
		Agrawal	7	Member	Participated
		K Ashwin	1NH18CS08	Team	
		Athappan	5	Member	Participated
		Sathish Kumar s	1NH17CS11 4	Team Leader	Participated
		PayelPattanayak	1NH17CS14 7	Team Member	Participated
SIH - 2019	S-team	Sushmitha G. S	1NH17CS13 1	Team Member	Participated
		Niveditha c b	1Nh17CS094	Team Member	Participated
		Praveen C	1NH17CS10 0	Team Member	Participated
		Madhumitha R	1NH16CS74 5	Team Leader	Participated
		Shubham Chaudhary	1NH16CS75 2	Team Member	Participated
		Ayush Bhardwaj	1NH16CS73 9	Team Member	Participated
		RAHUL	1NH16CS08 5	Team Member	Participated
SIH - 2019	SMARTS	ToshBir Singh	1NH16CS75 6	Team Member	Participated
		Suhas s Kamath	1NH16CS75 4	Team Member	Participated
					<u> </u>
			1NH18CS11	Team	
		N Kavya	8	Leader	Participated

SIH -	Xite	Kolisetty	1NH18CS09	Team	
2019	me	Krishna Himaia	6	Member	Dorticipated
2017		Rifshina Tilinaja		Tearre	Farticipated
		P. Lakshmi	INHI8CS13	Team	Denti sin et al
		Sumana	2	Member	Participated
		Priyadharshini.	INHI8CS14	Team	
		S	4	Member	Participated
		Ramva Shree S	1NH18CS15	Team	
		Rainya Shiee S	6	Member	Participated
		Doonthi a	1NH17CS03	Team	
		Deepun.s	5	Leader	Participated
CIII		Harini M	1NH17CS05	Team	
SIH -		Hamm.wi	0	Member	Participated
2019	Breakers		1NH17CS03	Team	
		Deeksna.5	3	Member	Participated
		Chandana	1NH17CS71	Team	
		Menon	2	Member	Participated
			1NH17CS72	Team	
		Gopinath M	1	Leader	Participated
			1NH17CS74	Team	
		Santoshi	0	Member	Participated
SIH -	Team 1-		1NH17CS73	Team	•
2019	up	Nagarjun S	9	Member	Participated
			1NH17CS75	Team	1
		Sriram S	4	Member	Participated
		Harikrishnan G	1NH17CS72	Team	· · · · · · · · · · · · · · · · · · ·
		S	2	Member	Participated
				Team	
		Srinivas R	3	Member	Participated

# 9.7(B) Co- Curricular and extra- curricular Activities of CV

The college encourages the students to take part in both co-curricular and extracurricular activities. The students are allowed to take part in various sport activities also.

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Event Name	Event Date
Guest lecture on "An -Avenue for higher education for civil engineering in India & Abroad"	02.04.2018
Expert lecture on Hydraulics	10.04.2018
Expert lecture on analysis of determinate structures	10.04.2018

Expert lecture on water supply	15.03.2018
Expert lecture on design and drawing of RC structures	16.04.2018
Site visit to Geological Department BU	10.02.2018
Industrial visit to 42 Queen Square	24.03.2018
Industrial visit to Salapuria Sattva divinity, Ganapati Nagar, Mysore road, Bangalore	29.06.2018
Seminar on BIM software	03.03.2018
A workshop on Reliability Concepts in Civil Engineering	30.01.2018
A workshop on Cype software	20.02.2018
A workshop on TEKLA software	15.03.2018
Industrial visit to Meteorological Centre, Palace Road, Bangalore	3.09.2018
A guest lecture on Smart Dynamic Concrete	22.09.2018
A quiz on International Design Competition	25.09.2018
One day seminar on BETTER AGGREGATES FOR CONCRETE & ALTERNATIVES TO RIVER SAND	04.10.2018
A workshop on Green Technology – its significance and relevance	05.10.2018
Guest lecture on Construction Methodology for Earthquake resisting structures	15.03.2019

# Table 9.7.7: List of Extra-Curricular Activities

Event Name	Event Date
A seminar on Archibus software	05.02.2018
A seminar on Social Values & Social Responsibilities	07.02.2018
A seminar on Financial Literacy program for SC/ST Students	21.02.2018
Faculty development program on Preparation development on Rubrics	08.01.2018
A workshop on Archi-Bus	22.03.2018 to 24.03.2018
A workshop on Students exchange program to France	06.04.2018
Alumni interaction - Career Development	30.08.2018
A workshop on Stakeholder Management	12.09.2018

Following are the Extra-Curricular activities organized by NHCE every year.

Sl.No.	Name of the Event
1	Republic Day
2	Independence day
3	Teachers Day
4	Engineers Day
5	Kannada Rajyotsava
6	International Women's Day
7	Birthday of Subhas Chandra Bose
8	Birthday of Sir. M Visvesvaraya
9	Birthday of Sardar Vallabhai Patel
10	Birthday of Rani Channamma
11	Birthday of Jhansi Rani
12	Birthday of Chatrapathi Shivaji
13	Birthday of Shaheed Bhagat Singh
14	Birthday of Swami Vivekananda
15	Birthday of Shaheed Hemu Kalani
16	Birthday of Major Sandeep Unni Krishnan
17	Deepavali
18	Founders' Day
19	Induction Program
20	Graduation Day
21	Freshers' Day
22	Annual Day "SARGAM"

Table 9.7.8: List of Extra-Curricular	r activities organized every year.
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# a) Availability of sports facilities:

Below table summarizes the list of indoor and outdoor games available in the campus of NHCE.
SI. No.	Name of the sport facility	Numbers available	Place of availability	Whether available beyond	
1	Caroms	8			
2	Chess	8	Students		
3	Table tennis	3	Recreation	Yes	
4	Madison ball	12			
5	Yoga mats	6			

# Table 9.7.9: List of indoor games available in the campus

# Table 9.7.10: List of outdoor games available in the campus

Sl. No.	Name of the sport facility	Numbers available	Place of availability	Whether available beyond
1	Volley ball	12		
2	Basket ball	24		
3	Throw ball	6		
4	Hand ball	10	Open ground	YES
5	Kho-Kho	2		
6	Foot ball/Cricket	12		
7	Shot put	2		
8	Badminton	10		

Sl.	Name	Usn	Sem	Event	Date	Tournament	No.	Achievements
No							Of Dave	
1	Md. Muizur Rehman	1nh13c v058	V	Foot Ball	27 To 29 Aug 2015 12 To 14 Sept 2015 16 To 18 Oct 2015	St. John's Mc Christ Ust Rvce	03 03 03	Participation Participation Participation
2	Prashanth	1nh14c v137	Iii	Foot Ball	27 To 29 Aug 2015 12 To 14 Sept 2015 16 To 18 Oct 2015	St. John's Mc Christ Ust Rvce	03 03 03	Participation Participation Participation
3	Sahana R Reddy	1nh13c v104	V	Baske t Ball( W) Swim ming	27 To 29 Aug 2015 1 To 3 Oct 2015 4 To 6 Oct 2015 28 To 30 Oct 2015 23 <sup>rd</sup> Sept 2015	St. John's Mc Bmsce Msrit Pes U Vtu Ic	03 03 03 03 01	Participation Participation Second Runner Up Runner Up Participation
4	Nawazulla N	1nh14c v072	Iii	Volle y Ball Crick et Volle yball	27 To 29 Aug 2015 03 & 04 Sept 2015 28 To 30 Oct 2015 1 <sup>st</sup> To 3 <sup>rd</sup> Oct 2015 16 To 18 Oct 2015	St. John's Mc Msrit Pes U Bmsce Rvce	03 02 03 03 03	Participation Participation Participation Participation Participation
5	Rakesh S	1nh14c v693	Iii	Volle y Ball	27 To 29 Aug 2015 1 <sup>st</sup> To 3 <sup>rd</sup> Oct 2015 16 To 18	St. John's Mc Bmsce Rvce	03 03 03	Participation Participation Participation

5

					Oct 2015			
6	Rajesh	1nh13c	V	Chess	30 & 31	Vtu B'lore	02	5 <sup>th</sup> Place
	Kosuri	v088			Aug	Zone		
					2015			
7	Rishabh	1nh13c	V	Crick	03 & 04	Msrit	02	Participation
	Mahara	v096		et	Sept			
					2015			
8	Sumith	1nh13c	V	Badm	23 & 24	Vtu B'lore	02	Participation
	Kumar	v121		inton	Aug	CZ	04	Participation
	Dey				2015	State	03	Participation
					16 To20	Champ		
					Aug	Bmsce		
					2015			
					1 To 3			
					Oct 2015			
8	Monish N	1nh14c	Iii	Badm	23 & 24	Vtu B'lore	02	Participation
	Raj	v068		inton	Aug	CZ	03	Participation
					2015	Bmsce		
					1 To 3			
					Oct 2015			
9	Abhishek	1nh12c	V	Power	29 To 31	Vtu Ic	03	Participation
	Kukreti	v001		Lift	Oct 2015			

Sl.	Name	USN	Se	Event	Date	Tournament	No.	Achievements
No			m				Of Days	
1	Amr	17CV	Ι	Wretli	9 <sup>th</sup> &12 <sup>th</sup>	Pesce(Vtu	04	Bronze
	Nazeer	100		ng &	Oct 2017	)		Medal
	Ahmed			Judo				
2	Newton	1NH1	Iv	Baske	25 <sup>th</sup> To 28 <sup>th</sup>	Vie	04	Participation
	Buragoha	6CV0		tball(	Jan 2018	Malleshwa	07	Participation
	in	77		M)	$4^{\text{th}}$ To $11^{\text{th}}$	ram	02	Participation
					Feb 2018	Rv	03	Participation
					$17^{\text{th}}\&18^{\text{th}}$	Momentu	03	Participation
					Feb 2018	m	03	Runners
					19 <sup>th</sup> To	Spiel	22	Runners
					21 <sup>st</sup> feb 2018	Devdan		
					$1^{\text{st}}$ To $3^{\text{rd}}$	Cup		
					Mar 2018	Kreedosta		
					$8^{\text{th}}$ To $10^{\text{th}}$	va		
					Mar 2018	Azura		
					14 <sup>th</sup> Mar To	2018		
					4 <sup>th</sup> Apr			
					2018			
3	Nawazull	1NH1	Vii	Volle	17 <sup>th</sup> To 19 <sup>th</sup>	Rv	03	Participation
	ah N	4CV0	i	yball	Feb 2018	Momentu	02	Winners
		72		(M)	$28^{\text{tn}}$ Feb To	m	02	Winners
					$1^{st}$ Mar-18	Devadan	03	Runners

					Apr 2018			
8	Teias	1NH1	Vi	Foot	$1^{\text{st}}$ To $3^{\text{rd}}$	Devandan	03	Particination
	rejus	5CV1	• 1	Rall	Mar 2018	Cup	03	Runners
		30 1		Dall	$2^{nd}$ To $4^{th}$	Azuro	05	Runners
		30			2 104	AZUIA 2019		
	D	1 1 1 1 1	<b>T</b> 7**		Apr 2018	2018	02	<b>D</b>
9	В	INHI	V11	Foot	2 10 4	Azura	03	Runners
	Lathlamu	4CV0	1	Ball	Apr 2018	2018		
	ana	13						
10	Lalremsia	1NH1	Vii	Foot	$2^{na}$ To $4^{tn}$	Azura	03	Runners
	ma	4CV0	i	Ball	Apr 2018	2018		
		21						
11	Benjamin	1NH1	Vii	Foot	$2^{nd}$ To $4^{th}$	Azura	03	Participation
	Ū	4CV0	i	Ball	Apr 2018	2018		-
		16			1			
12	Anand S	1NH1	Iv	Table	$8^{\text{th}}$ To $10^{\text{th}}$	Bmsce	03	Participation
	Kotnoor	6CV0		Tenni	Mar 2018	2111000	00	- more parton
	Rothoor	13		s	Wiai 2010			
13	Monish	15 1NH1	Vii	Badmi	17 <sup>th</sup> To 19 <sup>th</sup>	Ruce	03	Participation
15	Doi	4CV0	;	nton	17 1017 Eab 2018		05	Puppers
	Кај	40.00	1		$2^{nd}$ To $4^{th}$	AZUIA 2019		Kuilleis
		08		$(\mathbf{N}\mathbf{I})$	2 104	2018		
		437774	Ŧ	<b>D</b> 1 ·	Apr 2018		0.0	5
14	Amal	INHI	Iv	Badmi	2 <sup>nd</sup> To 4 <sup>nd</sup>	Azura	03	Runners
	Thomas	6CV0		nton	Apr 2018	2018		
		11		(M)				
15	Kishore	1NH1	Vi	Kho	17 <sup>th</sup> To 19 <sup>th</sup>	Rvce	03	Participation
	Kumar	6CV4		Kho	Feb 2018	Cit(Vtu)	02	Participation
	Nayak	03			$6^{\text{th}}\&7^{\text{th}}$ Apr			
					2018			
16	Sanjay H	1NH1	Iv	Handb	$15^{\text{th}} \& 16^{\text{th}}$	Star	02	Participation
	R	6CV0		all	Feb 2018	Shooters	02	Participation
		96			$1^{st} \& 2^{nd}$	Devdan	05	Participation
		20			Mar 2108	Cup	02	Winners
					6 <sup>th</sup> To10th	Star	$\frac{02}{02}$	Participation
					Mar 2018	Shooters	02	Participation
					$12^{\text{th}} \text{To} 14^{\text{th}}$	Vtu (Poz)	05	i articipation
					15 10 14 Mar 2019	V tu(BCZ)		
					Mar $2018$			
					$10 & \alpha$	Azura		
					1/ <sup>m</sup> mar	2018		
					2018			
					$2^{\rm nu}$ To $4^{\rm m}$			
					Apr 2018		<u> </u>	
17	Sourav	1NH1	Vi	Hocke	14 <sup>th</sup> To 16 <sup>th</sup>	St. Johns	03	Participation
	Das	5CV1		У	Mar 2018			
		26						
18	Rohan	1NH1	Vi	Hocke	$14^{\text{th}}$ To $16^{\text{th}}$	St. Johns	03	Participation
	Bopanna	5CV1		у	Mar 2018			
	NM	00						
19	Somanna	1NH1	Vi	Hocke	14 <sup>th</sup> To 16 <sup>th</sup>	St. Johns	03	Participation
	NB	5CV1		v	Mar 2018			p autom
		24		5	10101 2010			
		<u> </u>				1	1	

20	Sachin	1NH1	Vi	Hocke	14 <sup>th</sup> To 16 <sup>th</sup>	St. Johns	03	Participation
	Patil	5CV1		у	Mar 2018			_
		08						
21	Udit	1NH1	Vi	Hocke	14 <sup>th</sup> To 16 <sup>th</sup>	St. Johns	03	Participation
	Kumar	5CV1		у	Mar 2018			
		34						
22	Vineeth	1NH1	Vi	Hocke	14 <sup>th</sup> To 16 <sup>th</sup>	St. Johns	03	Participation
	А	5CV1		у	Mar 2018			
		39						
23	Tejwanth	1NH1	Vi	Hocke	14 <sup>th</sup> To 16 <sup>th</sup>	St. Johns	03	Participation
	S	5CV1		у	Mar 2018			
		50						
24	Prasann	1NH1	Vi	Nhce	$2^{nd}$ To $4^{th}$	Azura	03	Participation
	Arjun	4CV0			Apr 2018	2018		
	Bajantri	84						
25	Dharshan	1NH1	Iv	Nhce	$2^{nd}$ To $4^{th}$	Azura	03	Participation
	Raj	4CV0			Apr 2018	2018		
		30						

 Table 9.7.13: List of students participated in sports -2018-19

SI.N	Name	USN	SEM	Event	Date	Tourname	No.	Achievemen
0						nt	Of Do	s
							Da VS	
1	Sanjay	1NH16C	V	Handball	$29^{\text{th}}$ & $30^{\text{th}}$	Chrispo	02	Participat
	HR	V096		(M)	Aug 2018	Vtu	05	on
				Athletic	$25^{th}$ To			Participat
					29 <sup>th</sup> Oct			ion
					2018			
2	Suraj R	1NH17C	III	Handball	$29^{\text{th}}$ & $30^{\text{th}}$	Chrispo	02	Participat
		V117		(M)	Aug 2018			ion
3	Anand	1NH16C	V	Table	$3^{rd}\& 4^{th}$	Vtu	02	Participat
	S	V013		Tennis	Sep 2018	Kreedost	03	ion
	Kutnoo				$22^{nd}$ to $24^{th}$	ava	02	Participat
	r				Sep 2018	Spardha		ion
					$3^{ra} \& 4^{th}$	2018		Participat
					Oct 2018			ion
4	Amrita	1NH17C V010	III	Table	$3^{rd} \& 4^{th}$	Vtu	02	Participat
	nsh	V010		Tennis	Sep 2018	Kreedost	03	ion
					$22^{nd}_{th}$ To	ava	02	Participat
					24 <sup>th</sup> Sep	Spardha		ion
					2018	2018		Participat
					3 <sup>rd</sup> &4 <sup>rr</sup>			ion
		1)11150			Oct 2018	1		
5	Rohan	INH15C V100	VII	Hockey	5"& 6"	St. Johns	02	Participat
	Bopan	. 100			Sep 2018			on
	na N M	1111150	x / x x	TT 1	<b>r</b> th o <b>r</b> th	G. I.I	00	<b>D</b>
6	Soman	V124	VII	Hockey	5& 6	St. Johns	02	Participat
	na N B	1111150	* * * *		Sep 2018		0.0	on
7	Sachin	V108	VII	Hockey	5"& 6"	St. Johns	02	Participat

	Patil				Sep 2018			on
8	Sourav	1NH15	VII	Hockey	$5^{\text{th}}\& 6^{\text{th}}$	St. Johns	02	Participat
	Das	CV126		5	Sep 2018			on
9	Udit	1NH15	VII	Hockey	$5^{th} \& 6^{th}$	St. Johns	02	Participat
	Kumar	CV134		5	Sep 2018			on
10	Tejwan	1NH15	VII	Hockey	$5^{th}\& 6^{th}$	St. Johns	02	Participat
	th S	CV150		5	Sep 2018			on
11	Vineet	1NH15	VII	Hockey	$5^{\text{th}}\& 6^{\text{th}}$	St. Johns	02	Participat
	h A	CV139		5	Sep 2018			on
12	Nikhil	1NH17	III	Hockey	5 <sup>th</sup> &6 <sup>th</sup>	St. Johns	02	Participat
	ΗA	CV072		5	Sep 2018			on
13	George	1NH15	VII	Hockey	$5^{\text{th}}\& 6^{\text{th}}$	St. Johns	02	Participat
	Joseph	CV036		j	Sep 2018	~		on
14	Rai	1NH15	VII	Hockey	$5^{\text{th}} \& 6^{\text{th}}$	St. Johns	02	Participat
	Domad	CV094	,	11001109	Sep 2018		02	on
	iva				~~p =010			011
15	Abdul	1NH15	VII	Power	27 <sup>th</sup> To	Vtu	03	Participat
10	Rehma	CV001	,	Lifting	29 <sup>th</sup> Sep		00	ion
	n Khan			2	2018			1011
16	Amal	1NH16	Ш	Badmint	27 <sup>th</sup> & 28 <sup>th</sup>	Vtu	02	Participat
10	Thoma	CV011		on	Aug 2018	, ca	02	ion
	S				8			
17	Poorvi	1NH16	V	Athletics	25 <sup>th</sup> To	Vtu	05	Participat
17	ka S	CV076	·	1 milliones	$29^{\text{th}} \text{Oct}$	, ca	00	ion
	iiu o				2018			1011
18	Teias	1NH15	VII	Foot Ball	$1^{\text{st}}$ To $5^{\text{th}}$	Chrispo	05	Participat
10	K	CV130	,	1000200	Sep 2018	Chillippo	00	ion
	Suresh				~~p _010			1011
19	Abdul			Wrestl.	15 <sup>th</sup> To	Vtu	03	Gold
	Rehma	1NH15	VII	& Judo	17 <sup>th</sup> Oct	Vtu(Nati	14	Medal
	n Khan	CV001	,	Wrestlin	2018	onals)		Participat
	*			σ	$7^{\text{th}}$ To $20^{\text{th}}$	011115)		ion
	(Plave			ъ	Nov 2018			1011
	d Vtu							
	Nation							
	als)							
20	Amr	1NH17	III	Wrestl.	15 <sup>th</sup> To	Vtu	03	Participat
	Nazeer	CV009		& Judo	17 <sup>th</sup> Oct			ion
	Ahmed				2018			
21	Sahas	1NH17	III	Softball	$4^{\text{th}}$ & $5^{\text{th}}$	Vtu	02	Participat
	A S	CV099		Cricket	Oct 2018	Pes	08	ion
					6 <sup>th</sup> To 13 <sup>th</sup>	Msrit	12	Participat
					Oct 2018			ion
					29 <sup>th</sup> Oct To			Participat
					9 <sup>th</sup> Nov			ion
					2018			
22	Dhiraj	1NH15	VII	Cricket	6 <sup>th</sup> To 13 <sup>th</sup>	Pes	08	Participat
	T	CV034			Oct 2018	Msrit	12	ion
					29 <sup>th</sup> Oct To			Participat

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					9 <sup>th</sup> Nov			ion
					2018			
23	Kon	1NH15	VII	Weight	29 <sup>th</sup> To	Vtu	03	Participat
	Jarbin	EC078		Lifting	31 <sup>st</sup> Oct			ion
					2018			
24	Amr	1NH17	III	Wrestl.	15 <sup>th</sup> To	Vtu	03	Participat
	Nazeer	CV036		& Judo	17 <sup>th</sup> Oct			ion
	Ahmed				2018			
25	Sanjay	1NH16	VI	Handball	$15^{\text{m}}\&~16^{\text{m}}$	Star	2	Participat
	HR	CV096			Feb 2019	Shooters	3	ed
					28 <sup>th</sup> Feb	Cufe	2	Participat
					To 2 <sup>nd</sup> Mar	Vtu	2	ed
					2019	(Bcz)		Winners
					2 10 3	Vtu (Iz)		Participat
					Apr 2019 $8^{th} \& 9^{th}$			ed
					Apr 2019			
26	Newto	1NH16	IV	Basketba	26 <sup>th</sup> Jan To	Malleshw	9	Participat
	n	CV0/2		II(M)	3 <sup>rd</sup> Feb	aram	3	ed
	Burago				2019	Rvce	5	Participat
	hain				8 <sup></sup> 10 10 <sup></sup>	Spiel/Jnc	5	ed Deutisius (
					$\frac{11^{\text{th}}}{10000000000000000000000000000000000$	Cufe		Participat
					11 10 15 <sup>th</sup> Eab	Cmp	9	ea Dontioinat
					15 Feb	New		Participat
					2019 $28^{\text{th}}$ Eeb	Cup		Cu Darticipat
					$T_0 2^{nd}$	Cup		ed
					Marc 2019			Runners
					$25^{\text{th}}$ Mar			Rumers
					2019			
					28 <sup>th</sup> Mar			
					To 5th			
					April 2019			
27	Amal	1NH16	IV	Badmint	$8^{th}$ To $10^{th}$	Rvce	3	Participat
	Thoma	CV011		on	Feb 2019			ed
	S							
28	Manu	1NH18	IV	Kho-Kho	$1^{st} \& 2^{nd}$	Vtu	2	Participat
	КН	CV410			Mar 2019			ed
29	Kishor	1NH16	VIII	Kho-Kho	$1^{st}\& 2^{nd}$	Vtu	2	Participat
	e	CV403			Mar 2019			ed
	Kumar							
20	Nayak	1) 11 1 5		<u>a</u> t 1	1 cth m	<u> </u>		
30	Dhiraj	1NH15 CV024	VIII	Cricket	$16^{\text{m}}$ To	Cute &	6	Participat
		C V U34			23 Feb	KVCe	4	ed Dortigingt
					2019 7 <sup>th</sup> 1 th 1 2 <sup>t</sup>	vtu		Participat
					$1^{,11^{,13^{,13^{,13^{,13^{,13^{,13^{,1$			ea
					&14 Mar 2010			
31	Sahas	1NH17	IV	Cricket	$16^{\text{th}}$ To	Cufe &	6	Participat
51		CV099	1 4	CHENCE	23 <sup>rd</sup> Feb	Rvce		ed a ucipat
L	110		L	L	23 100	11100	ſ	<u>u</u>

					2019 7 <sup>th</sup> ,11 <sup>th</sup> ,13 <sup>t</sup> <sup>h</sup> &14 <sup>th</sup> Mar 2019	Vtu		Participat ed
32	Rohan Bopan na N M	1NH15 CV100	VIII	Hockey	15 <sup>th</sup> To 17 <sup>th</sup> Mar 2019 15 <sup>th</sup> & 16 <sup>th</sup> Apr 2019 22 <sup>nd</sup> & 23 <sup>rd</sup> Apr 2019	Iisc Vtu(Bcz) Vtu (Iz)	3 2 2	Participat ed Runners Participat ed
33	Soman na N B	1NH15 CV124	VIII	Hockey	15 <sup>th</sup> To 17 <sup>th</sup> Mar 2019 15 <sup>th</sup> & 16 <sup>th</sup> Apr 2019 22 <sup>nd</sup> & 23 <sup>rd</sup> Apr 2019	Iisc Vtu(Bcz) Vtu (Iz)	3 2 2	Participat ed Runners Participat ed
34	Sourav Das	1NH15 CV126	VIII	Hockey	15 <sup>th</sup> To 17 <sup>th</sup> Mar 2019 15 <sup>th</sup> & 16 <sup>th</sup> Apr 2019 22 <sup>nd</sup> & 23 <sup>rd</sup> Apr 2019	Iisc Vtu(Bcz) Vtu (Iz)	3 2 2	Participat ed Runners Participat ed
35	Udit Kumar	1NH15 CV130	VIII	Hockey	15 <sup>th</sup> To 17 <sup>th</sup> Mar 2019 15 <sup>th</sup> & 16 <sup>th</sup> apr 2019 22 <sup>nd</sup> & 23 <sup>rd</sup> Apr 2019	Iisc Vtu(Bcz) Vtu (Iz)	3 2 2	Participat ed Runners Participat ed
36	Vineet h	1NH15 CV139	VIII	Hockey	15 <sup>th</sup> To 17 <sup>th</sup> Mar 2019	Iisc	3	Participat ed
37	Sachin Patil	1NH15 CV108	VIII	Hockey	15 <sup>th</sup> To 17 <sup>th</sup> Mar 2019	lisc	3	Participat ed
38	Tejwan th S	1NH15 CV150	VIII	Hockey	15 <sup>th</sup> To 17 <sup>th</sup> Mar 2019	lisc	3	Participat ed
39	Nikhil H A	1NH17 CV072	IV	Voluntee r	1 <sup>st</sup> To 5 <sup>th</sup> Apr 2019	New Horizon Cup	5	Participat ed

## 9.7(C) Co- Curricular and Extra- curricular Activities of EC

The college encourages the students to take part in both co-curricular and extracurricular activities. The students are allowed to take part in various sport activities also.

#### I) Co- Curricular (Club activities):

Department of ECE has 3 three clubs:

- 1.Electronics Hobby Club
- 2. Technology Sharing Club
- 3. Professional Connect Club

The activities conducted under each club are given in below tables from 9.7.6 to 9.7.8. The pictures of events are shown in figures from 9.7a to 9.7d.

EVENT	DATE	DESCRIPTION
Arduino Workshop	26th sept	Basics of Arduino
	2018	Basic usage of discrete components
		Dasie usage of discrete components
PCB DESIGN AND	24 <sup>TH</sup>	Introduction to PCB Fabrication process
FABRICATION	October,	HandsonExperienceonEagleCADSoftware
WORKSHOP USING	2018	Designof555timeAstablemultivibrator
EAGLE CAD		
Soldering Workshop	13 <sup>th</sup> March	The process of Soldering
	2019	Soldered the NE555 timer PCB
SENSORS AND	17 <sup>th</sup> April	PresentationonArduino and Sensors
ARDUINO	2019	Hands-on experience onmaking a Hand
ARDONIO	2017	FollowerRobot

#### Table 9.7.14: Electronics Hobby Club Activities

DIY Workshop part - I	31 <sup>st</sup> August 2019	EFY kits to have hands on experience in circuit building and soldering. Students learnt about various electronic devices and IC's used and also had the opportunity to explore their functionalities.
DIY Workshop part -	26 <sup>th</sup>	Participants were given the kits from EFY which
11	October	consisted of different circuits.
	2019	
A & D Circuit	06-03-2020	Students worked on FM audio transmitter,
Analysis		EEPROM programmer, Band pass filters, buck-
		boost convertors, logic-gates using transistors

# Table 9.7.15: Technology Sharing Club Activities

EVENT	DATE	DESCRIPTION
TEST 360	22-09-2018	General Aptitude Test Technical Aptitude Test Treasure Hunt
TECH TALK	27-10-2018	Technical Talk on Introduction to Python and Machine Learning
TECH TALK ON MACHINE LEARNING	15-03-2019	Fundamentals Real time applications
BRAIN GAMES	05-04-2019	General Quiz Code Debugging Circuit Debugging
Block chain and IOT workshop	26-10-2019	Technical Talk on Blockchain by Mr. Musaveer (alumni) IOT hands-on session using NODEMCU- ESP8266 WIFI Module.

Paper Presentation on Emerging technologies	13-09-2019	Students presented innovative ideas on the latest trending technologies like Artificial Intelligence, Iot, Machine Learning, Blockchain
Brain Games 2.0	27-02-2020	Technical quiz Debug and decode Teknovation
TechZest	10-04-2020	Cancelled due to Covid 19

# Table 9.7.16: Professional Connect Club Activities

EVENT	DATE	DESCRIPTION
Idea Hunt	05-10-2018	The club aimed at bringing out ideas from students to solve the persisting problems in the society. Even if the problem was a drop in the bucket, students were encouraged to generate ideas, that could effectively and feasibly solve the problem.
Workshop on Underwater Vehicle	17-11- 2018	The workshop gave us an insight to what an ROV is, the various fields in which ROVs are used, a briefing on other types of underwater robots, and the Ten main guidelines for designing and ROV.
Marine Exploration – Build your own ROV	16-04- 2019	Fuelling the objecting of the Professional Connect Club, the Remotely Operable Vehicles were demonstrated, enabling students to have hands-on experience on how to build their own ROVs.
Jalayantra 2019- Rov Competition	27-04- 2019	In the Competition the participating groups taking part in the first round, which was a checkpoint race, where there were five bottles placed around the pool in strategic places, and the groups had to decide which route to take achieve the fastest time. This placed a huge focus on the speed and efficiency at which the ROVs moved. The structural integrity also came into the picture, as when the ROVs dove underwater, they had to be able to surface.

Electronics for Dummies	24-08- 2019	The aim of the event was to make sure that each and every Electronics student knew the theory and also knew how to implement with their very own hands using smartphone.
Subjected Oriented Activity on Engineering Electromagnetic	14-11- 2019	The Model exhibition, Paper presentation, Role play, Scientific Temper showed how the laws of electromagnetic can be explained using different methods.



Figure 9.7a : Technical Talk event (Technology Sharing Club)



Figure 9.7b: Brain games 2.0 (Technology Sharing Club)



Figure 9.7c: ROV workshop (Professional Connect Club)



Figure 9.7d: PCB design and fabrication workshop using EAGLE CAD (Electronics Hobby Club)

## **II)Extra-Curricular activities:**

Following are the Extra-Curricular activities organized by NHCE every year.

Sl.	Name of the Event	Sl.	Name of the Event
110.		110.	
1	Republic Day	13	Birthday of Shaheed Bhagat Singh
2	Independence day	14	Birthday of Swami Vivekananda
3	Teachers Day	15	Birthday of Shaheed Hemu Kalani
4		16	Birthday of Major Sandeep Unni
4 Engineers Day		10	Krishnan
5	Kannada Rajyotsava	17	Deepavali
6	International Women's Day	18	Founders' Day

Table 9.7.17: List of Extra-Curricular activities organized every year.

7	Birthday of Subhas Chandra				
/	Bose				
Q	Birthday of Sir. M				
0	Visvesvaraya				
0	Birthday of Sardar Vallabhai				
9	Patel				
10	Birthday of Rani Channamma				
11	Birthday of Jhansi Rani				
10	Birthday of Chatrapathi				
12	Shivaji				

19	Induction Program
20	Graduation Day
21	Freshers' Day
22	Annual Day "SARGAM"
23	Fresh Face
24	IT Quiz

## a) Availability of sports facilities:

Table below summarizes the list of indoor and outdoor games available in the campus of NHCE.

Sl. No.	Name of the sport facility	Numbers available	Place of availability	Whether available beyond regular
1	Caroms	08 boards		
2	Chess	08 boards	Students	
3	Table tennis	03 boards	Recreation	YES
6	Madison ball	12	Centre	
7	Yoga mats	06		

#### Table 9.7.18: List of indoor games available in the campus

## Table 9.7.19: List of outdoor games available in the campus

SI. No.	Name of the sport facility	Available Kits	Place of availability	Whether available beyond
1	Volley ball	12 balls		
2	Basket ball	24 balls		
3	Throw ball	06 balls		
4	Hand ball	10 balls	Onen ground	VEC
5	Kho-Kho	2 poles	Open ground	1 ES
8	Foot ball/Cricket	12 balls		
9	Shot put	02		
12	Badminton	10 bats		

# Achievements in sport activities

Apart from academic achievement, we take pride in our students'

achievement in sports activities.

Sl	Name	Usn	Event	Date	Tournam	No.	Achieve
•					ent	Of	ments
Ν						Days	
0	ID 1	17	DI	aoth m aond		0.2	D
1	J Ruth	T/ece	Basket	20 <sup>th</sup> To 22 <sup>th</sup>	M.S	03	Runners
	Sharon	086	Ball(W	Sep 2017	Ramaiah		
			)				
2	Vinay	1nh14	Volleyb	17 <sup>th</sup> To 19 <sup>th</sup>	Rv	03	Participa
	Bhand	ec155	all (M)	Feb 2018	Momentu	02	tion
	ari			$28^{\text{m}}$ Feb To $1^{\text{st}}$	m	02	Winners
				Mar-18	Devadan	03	Winners
				2 <sup>nd</sup> & 3 <sup>nd</sup> Mar	Cup	02	Runners
				2018	Vtu(Bcz)	03	Winners
				4 <sup></sup> 10 6 <sup></sup> Mar	Vtu(IZ)	01	Winners
				2018	Kreedosta	01	Winners
				$7 \propto 6$ Mar 2018			winners
				$2^{\text{nd}}$ To $4^{\text{th}}$ Apr	AZUIA 2018		
				2 104 Apr	Sai Lio		
				17 <sup>th</sup> Apr 2018	Amc		
				18 <sup>th</sup> Apr 2018	1 1110		
				10 1191 2010			
3	Chirag	1nh16	Volleyb	17 <sup>th</sup> To 19 <sup>th</sup>	Rv	03	Participa
	S	ec713	all (M)	Feb 2018	Momentu	02	tion
				28 <sup>th</sup> Feb To 1 <sup>st</sup>	m	02	Winners
				Mar-18	Devadan	03	Winners
				$2^{nd}$ & $3^{rd}$ Mar	Cup	02	Runners
				2018	Vtu(Bcz)	03	Winners
				4 <sup>th</sup> To 6 <sup>th</sup> Mar	Vtu(Iz)	01	Winners
				2018	Kreedosta	01	Winners
				7 <sup>44</sup> & 8 <sup>44</sup> Mar	V		Winners
				2018	Azura		
				$2^{\text{nu}}$ To $4^{\text{nu}}$ Apr	2018		
				2018 17 <sup>th</sup> Ann 2018	Sai Lio		
				1/ Apr 2018 $18^{\text{th}}$ Apr 2018	AIIIC		
				10 Api 2010			
4	Bhava	1nh15	Basketh	25 <sup>th</sup> To 28 <sup>th</sup>	Vie	04	Participa
	na	ec011	all(W)	Jan 2018	Malleshwa	07	tion
	Savant			4 <sup>th</sup> To 11 <sup>th</sup> Feb	ram	03	Runners
1	h			2018	Rv	03	Winners
				17 <sup>th</sup> To 19 <sup>th</sup>	Momentu	03	Participa
1				Feb 2018	m	22	tion
				19 <sup>th</sup> To 21 <sup>st</sup>	Spiel	02	Winners
				Feb 2018	Kreedosta	03	Winners
1				8 <sup>th</sup> To 10 <sup>th</sup> Mar	va		Runners
				2018	Azura		Runners

# Table 9.7.20: Summary of achievement in sports activities(2017 – 18)

				14 <sup>th</sup> Mar To 4 <sup>th</sup> Apr 2018 12 <sup>th</sup> & 13 <sup>th</sup> Apr 2018 14 <sup>th</sup> To 16 <sup>th</sup> Apr 2018	2018 Dr. Ait(Vtu) Bldeacet( Vtu)		
5	Bharat h M	1nh14 ec403	Kabadd i (M)	22 <sup>nd</sup> & 23 <sup>rd</sup> Mar 2018 2 <sup>nd</sup> To 4 <sup>th</sup> Apr 2018 17 <sup>th</sup> & 18 Apr 2018	Bgs Cup Azura 2018 Sai Lio	02 03 02	Ii Runner Up Runners Participa tion
6	Achal	1nh15 ec003	Kabadd i (M) Kho Kho	22 <sup>nd</sup> & 23 <sup>rd</sup> Mar 2018 2 <sup>nd</sup> To 4 <sup>th</sup> Apr 2018 17 <sup>th</sup> & 18 Apr 2018 17 <sup>th</sup> To 19 <sup>th</sup> Apr 2018	Bgs Cup Azura 2018 Sai Lio Rvce	02 03 02 03	Ii Runner Up Runners Participa tion Participa tion
7	Lingraj Jamkh andi	1nh16 ec722	Foot Ball	17 <sup>th</sup> To 19 <sup>th</sup> Feb 2018 20 <sup>th</sup> To 21 <sup>st</sup> Feb 2018 1 <sup>st</sup> To 3 <sup>rd</sup> Mar 2018 2 <sup>nd</sup> To 4 <sup>th</sup> Apr 2018	Rvce Vtu Devandan Cup Azura 2018	03 02 03 03	Participa tion Participa tion Participa tion Runners

Sl.	Name	Usn	Se	Event	Date	Tourname	No.	Achievement
No			m			nt	Of	
							Da	
							ys	
1	Chirag S	1nh1	V	Volle	5 <sup>th</sup> To 9 <sup>th</sup>	St.John's	05	Participation
	U U	6ec7		Ball(	Sep 2018	Btl	01	Winners
		13		M)	11 <sup>th</sup> Sep	Kreedostav	03	Participation
					2018	а	02	Participation
					$22^{nd}$ To $24^{th}$	Spardha		_
					Sep 2018			
					$3^{rd}$ & $4^{th}$ Oct			
					2018			
2	Ritvik	1nh1	V	Baske	5 <sup>th</sup> To 9 <sup>th</sup>	St.John's	05	Participation
		6ec7		tball(	Sep 2018	Vtu(Bcz)	02	Runners
		25		M)	14 <sup>th</sup> & 15 <sup>th</sup>	Vtu(Iz)	02	Participation
					Sep 2018	Kreedostav	04	Participation
					17"& 18"	a	03	Participation
					$\operatorname{Sep} 2018$	Ms D · 1	02	Participation
					21° 10 24 See 2018	Ramaian		
					$32^{nd}$ To $24^{th}$	Sparona		
					22 10 24 Sep 2018			
					$3^{rd}$ To $4^{th}$			
					Oct 2018			
3	Giridhar	1nh1	III	Kabad	$3^{rd}$ & $5^{th}$ Oct	Spardha	03	Winners
	U	7ec1		di(M)	2018	Infini	04	Participation
		12		~ /	10 <sup>th</sup> To 13 <sup>th</sup>			1
					Oct 2018			
4	J Ruth	1nh1	III	Baske	1 <sup>st</sup> To 4 <sup>th</sup>	Nhps Cup	04	Participation
	Sharon *	7ec0		tball(	Aug 2018	St John's	05	Participation
	(Played	33		W)	$5^{\text{th}}$ To $9^{\text{th}}$	Kreedostav	04	Winners
	Vtu				Sep 2018	Ms	04	Winners
	National				21 <sup>st</sup> To 24 <sup>th</sup>	Ramaiah	08	Participation
	<b>s</b> )				Sep 2018	Court	02	Winners
					22 <sup>nd</sup> To 25 <sup>nd</sup>	Wars	07	Patrticipatio
					Sep 2018	Spardha	12	n
					25 <sup>th</sup> Sep To	Fiba		Participation
					2 <sup></sup> Uct	vtu(Nation		
					2018 $2^{rd} \rho_{r} \Lambda^{th}$	ais)		
					$3 \times 4$ Oct 2019			
					$22^{nd}$ To $28^{th}$			
					Oct 2018			
					$29^{\text{th}}$ Oct To			
					9 <sup>th</sup> Nov			
					2018			

# Table 9.7.21:Summary of achievement in sports activities (2018 – 19)

5	Giridhar	1nh17	IV	Kah	6 <sup>th</sup> & 7 <sup>th</sup> Mar	St Joseph'	2	Particinated
5	V	ec112	1 1	addi	2019	s.soseph	$\frac{2}{3}$	Participated
	· ·	00112		uuui	$23^{rd}$ To $25^{th}$	Reva	3	Winners
					Mar 2019	University	$\frac{3}{2}$	Winners
					$3^{rd}$ To $5^{th}$	New		vv milers
					Apr 2019	Horizon		
					$10^{\text{th}}$ To $11^{\text{th}}$	Cup		
					Apr 2019	Rnsit		
6	Achal B	1nh15	VII	Kab	6 <sup>th</sup> & 7 <sup>th</sup> Mar	St.Joseph'	2	Participated
		ec003	Ι	addi	2019	S	3	Participated
					23 <sup>rd</sup> To 25 <sup>th</sup>	Reva	3	Winners
					Mar 2019	University	2	Winners
					3 <sup>rd</sup> To 5 <sup>th</sup>	New		
					Apr 2019	Horizon		
					$10^{\text{th}}$ To $11^{\text{th}}$	Cup		
					Apr 2019	Rnsit		
7	Chirag S	1nh16	VI	Voll	$9^{th} \& 10^{th}$	Rvce	2	Participated
	_	ec713		eyba	Feb 2019	Cufe	3	Participated
				ll(M	28 <sup>th</sup> Feb To	Vtu (Bcz)	2	Participated
				)	2 <sup>nd</sup> Mar	Vtu	2	Participated
					2019	Selections	1	Winners
					8 <sup>th</sup> 9 <sup>th</sup> Mar	Fisa	2	Winners
					2019	Amc	3	Winners
					$12^{\text{th}} \& 13^{\text{th}}$	New		
					Mar 2019	Horizon		
					28 <sup>th</sup> Mar	Cup		
					2019			
					29 <sup>th</sup> To 30 <sup>th</sup>			
					Mar 2019			
					3 <sup>rd</sup> To 5 <sup>rd</sup>			
0	x 11	1 1 17	<b>X</b> 7 <b>X</b>	<b>X</b> 7 11	Apr 2019	<b>D</b>		D
8	Janardha	Inhl7	VI	Voll	$9^{\text{m}} \& 10^{\text{m}}$	Rvce	$\frac{2}{2}$	Participated
	na T	ec408		eyba	Feb 2019	Cufe	3	Participated
					28 Feb Io	Vtu (Bcz)	2	Participated
				)	2 Mar	F1sa		winners
					2019 oth Oth Mar	Amc	$\frac{2}{2}$	winners
					8 9 Mar	New	5	Winners Dortiginated
					2019 28 <sup>th</sup> Mor	Cup		Participated
					20 Wai	Cufe &	4	1 articipateu
				Cric	29 <sup>th</sup> To 30 <sup>th</sup>	Ryce		
				ket	Mar 2019	Vtu		
					$3^{rd}$ To $5^{th}$			
					Apr 2019 $16^{\text{th}}$ To $23^{\text{rd}}$			
					Feb 2019			
					$7^{\text{th}}, 11^{\text{th}}, 13^{\text{th}}$			
					& 14 <sup>th</sup> Feb			
					2019			

9	Bhavana Savanth	1nh15 ec011	VII I	Bask etbal l(W)	26 <sup>th</sup> Jan To 3 <sup>rd</sup> Feb 2019 8 <sup>th</sup> To 10 <sup>th</sup> Feb 2019 11 <sup>th</sup> To 15 <sup>th</sup> Feb 2019 28 <sup>th</sup> mar To 5th April 2019 10 <sup>th</sup> April 2019 11 <sup>th</sup> &12 <sup>th</sup> Apr 2019	Malleshwa ram Rvce Spiel New Horizon Cup Vtu (Bcz) Vtu (Iz)	9 3 5 9 1 2	Ii Runners Up Winners Participated Winners Winners Winners
10	J Ruth Sharon	1nh17 ec033	IV	Bask etbal l(W)	26 <sup>th</sup> Jan To 3 <sup>rd</sup> Feb 2019 8 <sup>th</sup> To 10 <sup>th</sup> Feb 2019 11 <sup>th</sup> To 15 <sup>th</sup> Feb 2019 28 <sup>th</sup> mar To 5th April 2019 10 <sup>th</sup> April 2019 11 <sup>th</sup> &12 <sup>th</sup> Apr 2019	Malleshwa ram Rvce Spiel New Horizon Cup Vtu (Bcz) Vtu (Iz)	9 3 5 9 1 2	Ii Runners Up Winners Participated Winners Winners Winners
11	Ritvik Msvv	1nh16 ec725	VI	Bask etbal l(M)	26 <sup>th</sup> Jan To 3 <sup>rd</sup> Feb 2019 8 <sup>th</sup> To 10 <sup>th</sup> Feb 2019 11 <sup>th</sup> To 15 <sup>th</sup> Feb 2019 28 <sup>th</sup> Feb To 2 <sup>nd</sup> Mar 2019 25 <sup>th</sup> Mar 2019 28 <sup>th</sup> Mar To 5th April 2019	Malleshwa ram Rvce Spiel/Jnc Cufe Cmp New Horizon Cup	9 3 5 3 1 9	Participated Participated Participated Participated Participated Runners
12	Akhilesh Varma	1nh16 ec006	VI	Foot ball	28 <sup>th</sup> Feb To 2 <sup>nd</sup> Mar 2019 6 <sup>th</sup> To 8 <sup>th</sup> Mar 2019 21 <sup>st</sup> To 22 <sup>nd</sup>	Cufe Nitte Vtu New Horizon Cup	3 3 2 3	Participated Participated Participated Participated

					Mar 2019 3 <sup>rd</sup> To 5 <sup>th</sup>			
13	Vinod K	1nh18 ec421	IV	Foot ball	$\begin{array}{r} 28^{th} \ Feb \ To \\ 2^{nd} \ Mar \\ 2019 \\ 6^{th} \ To \ 8^{th} \\ Mar \ 2019 \\ 21^{st} \ To \ 22^{nd} \\ Mar \ 2019 \\ 3^{rd} \ To \ 5^{th} \\ Apr \ 2019 \end{array}$	Cufe Nitte Vtu New Horizon Cup	3 3 2 3	Participated Participated Participated Participated
14	Radhika B	1nh15 ec078	VII I	Voll eyba ll (W)	15 <sup>th</sup> & 16 <sup>th</sup> Mar 2019 18 <sup>th</sup> & 19 <sup>th</sup> Mar 2019 28 <sup>th</sup> Mar 2019 29 <sup>th</sup> To 30 <sup>th</sup> Mar 2019 3 <sup>rd</sup> To5th April 2019	Vtu (Bcz) Vtu (Iz) Amc Fisa New Horizon Cup	2 2 1 2 3	Ii Runners Up Participated Winners Winners Runners
15	Meghash ree R	1nh16 ec055	VI	Voll eyba ll (W)	15 <sup>th</sup> & 16 <sup>th</sup> Mar 2019 18 <sup>th</sup> & 19 <sup>th</sup> Mar 2019 28 <sup>th</sup> Mar 2019 29 <sup>th</sup> To 30 <sup>th</sup> Mar 2019 3 <sup>rd</sup> To5th April 2019	Vtu (Bcz) Vtu (Iz) Amc Fisa New Horizon Cup	2 2 1 2 3	Ii Runners Up Participated Winners Winners Runners
16	Deepika S	1nh15 ec017	VII I	Voll eyba ll (W)	15 <sup>th</sup> & 16 <sup>th</sup> Mar 2019 18 <sup>th</sup> & 19 <sup>th</sup> Mar 2019 28 <sup>th</sup> Mar 2019 29 <sup>th</sup> To 30 <sup>th</sup> mar 2019	Vtu (Bcz) Vtu (Iz) Amc Fisa New Horizon Cup	2 2 1 2 3	Ii Runners Up Participated Winners Winners Runners
17	Mounika E	1nh16 ec730	VI	Voll eyba ll (W)	15 <sup>th</sup> & 16 <sup>th</sup> Mar 2019 18 <sup>th</sup> & 19 <sup>th</sup> Mar 2019 28 <sup>th</sup> Mar 2019	Vtu (Bcz) Vtu (Iz) Amc Fisa New Horizon	2 2 1 2 3	Ii Runners Up Participated Winners Winners Runners

Sl.N	Name	Usn	Event	Date	Tourname	No.	Achievemen
0					nt	Of	ts
						Day	
						S	
1	Ritvik	1nh1	Basketb	1 <sup>st</sup> To 8 <sup>th</sup> Sep	Court Wars	08	Participation
	Msvv	6ec7	all (M)	2019	Rit	03	Runners
		25		9 <sup>th</sup> To 11 <sup>th</sup> Sep	Vtu (Bcz)	02	Runners
				2019	Vtu (Iz)	04	Winners
				16 <sup>th</sup> & 17 <sup>th</sup> Sep	Kreedostava	04	Participation
				2019	Pesit	03	Participation
				25 <sup>th</sup> To 28 <sup>th</sup>	Cmp	03	Participation
				Sep 2019	Practice	07	Participation
				1 <sup>st</sup> To 4 <sup>th</sup> Oct	Association		
				2019	Cup		
				14 <sup>th</sup> To 16 <sup>th</sup>			
				Oct 2019			
				$25^{\text{th}}, 30^{\text{th}}\&31^{\text{st}}$			
				Oct 2019			
				3 <sup>rd</sup> To 9 <sup>th</sup> Nov			
				2019			
2	J Ruth	1nh1	Basketb	$7^{\text{tn}}\&8^{\text{tn}}$ Aug	Mayur's	02	Participation
	Sharo	7ec0	all (W)	2019	Cup	08	Participation
	n	33		1 <sup>st</sup> To 8 <sup>st</sup> Sep	Court Wars	03	Winners
				2019	Rit	02	Participation
				9 <sup>th</sup> To 11 <sup>th</sup> Sep	Vtu (Bcz)	04	Iii Place
				2019	Kreedostava	03	Participation
				16 <sup>th</sup> & 17 <sup>th</sup> Sep	Pesit	07	Participation
				2019	Association		
				1 <sup>st</sup> To 4 <sup>st</sup> Oct	Cup		
				2019			
				141016			
				Oct 2019			
				3 <sup>rd</sup> To 9 <sup>m</sup> Nov			
2	Chi	11.1	V.11. 1	2019	Crear II-	02	Doutieire
3			volleyb	$20 \propto 27$ Sep	sparana 2010	02	Participation
	gs	12	all (IVI)	$1^{\text{st}}$ To $4^{\text{th}}$ Oct	2019 Kraadostava	04	III Place
		15		1 104 Oct	Kreedostava		
4	Ianard	1nh1	Volleyb	26 <sup>th</sup> & 27 <sup>th</sup> San	Snardha	02	Participation
-	hana		all (M)	$20 \times 27 \text{ Sep}$	2019	04	
	T	08		$1^{\text{st}}$ To $4^{\text{th}}$ Oct	Kreedostava	05	Participation
	1	00	Cricket	2019	Pesit	03	Participation
			(M)	$12^{\text{th}}$ To $16^{\text{th}}$	Rit	05	
			(111)	Oct 2019			
				$11^{\text{th}}$ $13^{\text{th}}$ $14^{\text{th}}$			
				Nov 19			
7	Adity	1nh1	Table	26 <sup>th</sup> & 27 <sup>th</sup> Sep	Spardha 19	02	Runners

# Table 9.7.22: Summary of achievement in sports activities (2019 – 20)

	1		- •			0.4	
	a Chou	7ec0	Tennis	2019 1 <sup>st</sup> Oct 2019	Kreedostava	01	Participation
	dhary	05		1 000 2017			
8	Souvi	1nh1	Footbal	14 <sup>th</sup> To 17 <sup>th</sup>	Chri-Spo	04	Participation
0	k Das	7ec0	1	Sep 2019	Spardha 19	02	Runners
	11 20 415	96	-	$26^{\text{th}} \& 27^{\text{th}} \text{Sep}$	Kreedostava	04	Participation
		10		2019	moodobtava	0.	1 alterpution
				$1^{\text{st}}$ To $4^{\text{th}}$ Oct			
				2019			
10	Milan	1nh1	Footbal	14 <sup>th</sup> To 17 <sup>th</sup>	Chri-Spo	04	Participation
	Rao	7ec0	1	Sep 2019	Spardha 19	02	Runners
		51		26 <sup>th</sup> & 27 <sup>th</sup> Sep	Kreedostava	04	Participation
				2019			-
				1 <sup>st</sup> To 4 <sup>th</sup> Oct			
				2019			
11	Μ	1nh1	Footbal	14 <sup>th</sup> To 17 <sup>th</sup>	Chri-Spo	04	Participation
	Sachit	6ec0	1	Sep 2019	Spardha 19	02	Runners
		46		26 <sup>th</sup> & 27 <sup>th</sup> Sep	Kreedostava	04	Participation
				2019			
				$1^{st}$ To $4^{tn}$ Oct			
				2019			
12	Akhil	1nh1	Footbal	14 <sup>th</sup> To 17 <sup>th</sup>	Chri-Spo	04	Participation
	esh	6ec0	1	Sep 2019	Spardha 19	02	Runners
	Varm	06		26 <sup>th</sup> & 27 <sup>th</sup> Sep	Kreedostava	04	Participation
	а			2019			
				1. 10 4. Oct			
12	Daiaa	1h 1	E o sthol	2019	Chui Suo	04	Dantiainatian
15	кајее	1nn1 8007	FOOLDAI	14 101/	Chri-Spo	04	Participation
	V Kumo	8eC /	1	3ep 2019	Sparuna 19 Kraadostava	02	Runners
	r Kuilla	41		$20 \approx 27$ Sep	Kleeuostava	04	Participation
	1			$1^{\text{st}}$ To $4^{\text{th}}$ Oct			
				2019			
14	Ritvik	1nh1	Basketh	25 <sup>th</sup> Jan To 3 <sup>rd</sup>	Malleshwar	10	Participation
	Msvv	6ec7	all (M)	Feb 2020	am Cup	06	Participation
	1110	25	····· (1/1)	$10^{\text{th}}$ To $15^{\text{th}}$	Spiel	03	Participation
				Feb 2020	Rvce	02	Winners
				22 <sup>nd</sup> To 24 <sup>th</sup>	Devadan	-	
				Feb 2020	Cup		
				28 <sup>th</sup> & 29 <sup>th</sup> Feb	· ·		
				2020			
15	J Ruth	1nh1	Basketb	25 <sup>th</sup> Jan To 3 <sup>rd</sup>	Malleshwar	10	3 <sup>rd</sup> Place
	Sharo	7ec0	all (W)	Feb 2020	am Cup	06	Runners
	n	33		10 <sup>th</sup> To 15 <sup>th</sup>	Spiel	03	Winners
				Feb 2020	Rvce		
				22 <sup>nd</sup> To 24 <sup>th</sup>			
				Feb 2020			

16	Chira	1nh1	Vollevb	1 <sup>st</sup> And 2 <sup>nd</sup> Feb			Runners
10	σS	6ec7	all (M)	2020	Umang	02	Runners
	5~	13		$23^{rd}$ And $24^{th}$	Ryce	02	Participation
		15		Eeb 2020	Cufee	02	Runners
				$28^{\text{th}}$ And $28^{\text{th}}$	Vtu (Bcz)	$02 \\ 02$	Ii Runners
				Eeb 2020	Vtu (De2) Vtu (Iz)	02	II Rumers
				$5^{\text{th}}$ And $6^{\text{th}}$ Mar	viu (IZ)	02	
				2020		02	
				$0^{\text{th}}$ And 1th			
				9 Anu Tui Mor 2020			
17	Ionard	1nh1	Vollovb	$1^{\text{st}}$ And $2^{\text{nd}}$ Eab			Duppore
1/	bono		v one yo $all (M)$	1 Alia 2 1'eu 2020	Umana	02	Runners Runners
	T	18		2020 $23^{rd}$ And $24^{th}$		02	Darticipation
	1	00		Eeb 2020	Cufee	02	Puppers
				$28^{\text{th}}$ And $28^{\text{th}}$	Vtu (Bcz)	02	Li Dunners
				Eeb 2020	Vtu (DCZ)	02	I Kullets Derticipation
			Cricket	$5^{\text{th}}$ And $6^{\text{th}}$ Mor	Viu (IZ)	02	Participation
			CHEKEI	2020	Duce	02	Participation
				$0^{\text{th}}$ And 1th	NVCC Vtu	04	1 articipation
				$M_{\rm or} 2020$	vtu	07	
				$14^{\text{th}}, 15^{\text{th}}20^{\text{th}}$		02	
				14  15  20 $23^{rd}$ Eab 2020			
				$16^{\text{th}}$ To $10^{\text{th}}$			
				Feb 2020			
				$11^{\text{th}} \text{To } 20^{\text{th}}$			
				11 10 20 Mar 2020			
18	Tanm	1nh1	Volleyb	$13^{\text{th}}$ To $15^{\text{th}}$	Vtu(Bcz)	03	2 <sup>nd</sup> Pupper
10		8001	v  one y  v	13 10 13 Mar 2020	v tu(DCZ)	05	2 Kuimei
	aya Sh	12		Wiai 2020			Op
10	Magh	12 1nh1	Volleyb	13 <sup>th</sup> To 15 <sup>th</sup>	Vtu(Boz)	03	2 <sup>nd</sup> Pupper
19	ashroo	11111 6000	v  one y  v	13 10 13 Mar 2020	v tu(DCZ)	05	2 Kuimei
	D	55		Wiai 2020			Op
20	Snoha	1nh1	Vollavb	13 <sup>th</sup> To 15 <sup>th</sup>	Vtu(Boz)	03	2 <sup>nd</sup> Pupper
20	NS	8ec1		$M_{ar} 2020$	v (u(DCZ)	05	L'IN
	C M	06		1v1a1 2020			Op
21	Shive	1nh1	Vollovb	13 <sup>th</sup> To 15 <sup>th</sup>	Vtu(Boz)	03	2 <sup>nd</sup> Pupper
	ni	Rec1		15 1015 Mar 2020	v tu(DCZ)	05	$\angle$ Kuiiici
	M Vadav	03		wiai 2020			Op
	r adav	03					

## Participation in Inter College and Intra College Events

The students of the each department have also participated in different inter-college fests and have also become winners in a few events. In addition, the students also participate in several activities/events organized by the college as well. Given below is the list of such participation in the various academic years

SINo	Event	Name of	Semester	Date
		Participating		
Aadam	ja Vaar 2010-2020	Student		
Academ	ic rear 2019-2020	Madhunitha R	5	
		Monika K Reddy	5	
1	One Tree One	Richita S	5	20.09.2010
1	Student	Svale Raikumar	5	29.08.2019
		Draival T I	5	_
		Proshika I M	5	
	for the Flood		7	
2	Victims of North	Prithing A	/	10.08.2019
-	Karnataka and	Payan Pai P	/	_
	Kerala	r avan Kaj K	/	
	Times Fresh Face	Naini Reddy	5	
3	by Times of			09.10.2019
	India			
	Bangalore	DhayanaSree Reddy	5	
4	Medical College	Shakthi A	5	16.10.2019
	Fest (Play Team)	Raksha Krishi	3	
		SHAKTI A	5	
		HARSHA E	7	_
		AKHILESH	7	_
		JOSHUA	1	_
		GRIDAR	5	_
		KEVIN	1	_
		CHIRAG SHARMA	5	_
		JANARDHAN	5	_
		Deeksha S	5	_
5	Spartan Race	Deepthi S	5	26.10.19
		NikshithaBollineni	3	_
		Arohi Jain	3	_
		Harshith Pant	3	
		Bhoomika	5	
		Jeshav	7	_
		Anurag	7	_
		Rakshitha	7	
		Shakthi A	5	
		Syale Rajkumar	5	
		Rakshitha	7	
6	Kannada	A Anil Bharat	5	04 11 2010
0	Rajyotsava	DhayanaSree Reddy	5	04.11.2019
		Madhunitha R	5	

# Table 9.7.23: List of Inter College and Intra College Events Participated

SELF ASSESSMENT REPORT 2019-20

		Monika K Reddy	5	
		Sowmiya A	5	
		Syale Rajkumar	5	
		Vignesh R	4	
		Manisha	3	
Acade	mic Year 2018-2019		I	1
		Akshitha R	5	
		Sahib	7	
1	PES fest	Jitin Jain Mathew	7	11.08.2018
		Anju	7	
		Jitin Jain Mathew	7	
2	Nagarjuna Fest	Anju	7	28.08.2018
		Jitin Jain Mathew	7	
3	Jain Fest	Akshitha R	5	27.9.2018
		Prathiksha	5	3.11.2018
4	Kannada	Sanjana Anand	7	
	Rajyaothsava	Kurthana	5	-
5	MUN Event	Jitin Jain Mathew	7	6.11.2018
_		Abhishekh VP	5	
		Ashwin	5	
	Independence	Megha	5	
6	Day /Cultural	Achal	7	15.8.2018
	Event	Bhavana Savant	7	-
		Anju	7	
		Bhavana	8	
7	Christ Univ Fest	Ashwin S	8	6.3.2019
-		Soumya	4	
		Bhavana	8	
0		Ashwin S	8	
8	NIFT Fest	Anju	6	4.04.2019
		Kevine P Kumar	4	
		Bhavana	8	
		Ashwin S	8	
9	ICAT Fest	Anju	6	26.3.2018
		Kevine P Kumar	4	
		KushiPonnamma	6	
10	NMIT Fest	Soumya	4	25.02.2019
		Dhanyashree V Reddy	4	
11	IIM-B Fest	KushiPonnamma	6	26.08.2018
12	Presidency University Fest	KushiPonnamma	6	30.03.2019
10	International	KushiPonnamma	6	
13	School of	Sahib Arora	4	20.09.2018
,				

	Management				
1.4		KushiPonnamma	6	7 10 2019	
14	SJB11 Fest	Sahib Arora	4	7.10.2018	
15	Krupanidhi	KushiPonnamma	6	21 10 2019	
<sup>15</sup> College Fest		Sahib Arora	4	21.10.2018	
		Soumya	4	12 11 2010	
10	RVCE	Dhanyashree V Reddy	4	12.11.2018	
		Anju	6		
. –	CMRIT College				
17	Fest	Bhavana	8	15.03.2019	
		Ashwin S	8		
19	Ramaiah Institute	Anju	6	25.04.2010	
10	of Technology			23.04.2019	

**Participation in Inter-College Technical Events** 

Students of the department are encouraged to participate in technical activities conducted by other colleges. Several of our students have won events as well. The details of such participation are listed below

SI. No	USN	Name of the Student	Event Date	Event Details	Institution/ Organization	Achievement
1	1NH 16E C012	AthiraAjayak umar K (ECE) & research team	06-02- 2020	National Seminar on New Space: Small Satellites- Big Application s	Dr. SivanthiAditan ar College of Engineering, Tiruchendur.	ICE Centenary Innovation Award As Young research Team
2	1NH 16E C012	AthiraAjayak umar K (ECE) & research team	08-02- 2020	Internationl Cansat Workshop: Space Quest and launching of CanSata	Jeppiaar Institute of Technology Sriperumpudur , Chennai Chennai .	Young research engineer Award by National Design and research forum and UNISEC- India.
3	INH 17E C052	Mohammed Ghassan And Team	04-03- 2020	Hackathon	Nitte Meenakshi Institute of Technology, P.B.No.6429. Yelahanka, Bangalore 560064.	First Prize- 1 lakh rupees for winning under the category 'Future Mobility'.
4	1NH 16E	AthiraAjayak umar K	04 <sup>th</sup> to	CanSat/Roc ketry	Serbia	First Prize (outside country event)

Table 9.7.24: List of Inter-College Technical Events Participated

SELF ASSESSMENT REPORT 2019-20

	C012		$06^{\text{th}}$	Internation		]
	0012		October	al		
			2019	Competitio		
5	1NH 16E C754	Tarun	04 <sup>th</sup> to 06 <sup>th</sup> Octo ber 2019	CanSat/Roc ketry Internation al Competitio n	Serbia	Second Prize (outside country event)
6	1NH 16E C748	Shyam	04 <sup>th</sup> to 06 <sup>th</sup> Octo ber 2019	CanSat/Roc ketry Internation al Competitio n	Serbia	Third Prize (outside country event)
7	1NH 15E C019	Denzel Abraham George	Sept to Dec 2018	Exchange program at ESIGELEC , Rouen, France.	Rouen, France	Participation in outside country event
10	1NH 15E C019 1NH 15E C062	Denzel Abraham George and Nikhil Riyaz	30 Nov - 05 Dec 2018	UNISEC- India at the 7th annual UNISEC- Global conference	Tokyo, Japan	Participation in outside country event
11	1NH 16E C012	AthiraAjayak umar K	26 Oct to 03 Nov 2019	COSPAR Capacity Building Workshop on Small Satellites	Tel Aviv University, Israel	Participation in outside country event
12	1NH 16E C036	K Girivardhan	05-09- 2019	Indian Technology Congress 2019 - Human Digitalizati on: Future Intelligence (Seminar)	NIMHANS Convention Centre, Bengaluru	Participation
13	INH 17E C092	Shoaib Ahmed	01-11- 2019	India Innovation Challenge Design Contest	Texas Instruments – Online Event	Participation
14	INH 17E C011	BHARATH M	29-02- 2020 & 01-03- 2020	Technical Symposium	Indian Institute of Technology, Chennai,	Participation (Outside state event)

					Tamil Nadu	
15	1NH 16E C714 1NH 16E C715 1NH 16E C717 1NH 16E C730	Gagana M R .GouriShneh apriya S. Harshitha p. Mounica E.	13-06- 2020	National Conference on Advances in Engineerin g, Manageme nt and Sciences- 2020	Santhiram Engineering College, nandyal .	Outside State Participation (Outside state event)
16	1NH 15E C062 1NH 15E C727 1NH 15E C019	Nikhil Riyaz, Hariraj R and Denzel Abraham George.	17 <sup>th</sup> to 29 <sup>th</sup> June 2019	The Internation al Summer Space School: Future Space Technologi es and Experiment s in Space	Samara National Research University, Samara, Russia	Presented the Seminar on 6U CubeSat for studying CME from the sun's corona Participation of students outside country
17	1NH 15E C019	Denzel Abraham George	06 <sup>th</sup> & 07 <sup>th</sup> Oct 2018	AI4GOOD Hackathon by IBM at Amsterdam	IBM Open POWER Europe Summit and Hackathon, Amsterdam	Runner-up position for lung cancer malignancy detection model (outside country event)

# Hackathon

Students of our department also participated in the Hackathon. The details are given below

 Table: 9.7.25 : Participation in Hackathon

Event	Name	USN	Conducted	Remarks
Ideathon	Shashank B	INH16EC095	CISCO	Winner
	T E Habishek	INH16EC106	CISCO	Winner
	Roshini M	INH16EC085	CISCO	Winner
	ParithoshVema	INH16EC072	CISCO	Winner

## **III.Annual Student Activities:**

The list of Annual activities conducted in the College/Department of Electronics and Communication Engineering are tabulated in Table 9.7.9.The pictures of annual events are shown in figures.

Sl. No.	Event	Facilities	participants	Month of conduction
1	College annual day (SARGAM)	Seminar hall, LCD, PCs, Accommodation	Students from Engineering colleges	2018-19 (Sept) 2017-18 (Sept) 2016-17 (Sept)
2	Sports Day ECE	Recreation centre, Indoor and outdoor accommodation	Students from various Engineering disciplines	2018-19 (Sept) 2017-18 (Sept) 2016-17 (Sept)
3	ALUMNI meet Accommodation		ALUMNI Students from NHCE	2018-19 (Aug) 2017-18 (Aug) 2016-17 (Aug)

 Table 9.7.26. List of Annual activities



Figure 9.7e :Sargam 2019



Figure 9.7f :Sargam 2019



Figure 9.7g : Alumni meet 2019

# <u>9.7(D)</u> Co- Curricular and extra- curricular Activities of ME The several values learn from Co-curricular activities like:

- Cultural Values
- Development of Social Values
- Psychological Values
- Recreational Values
- Physical Development Values
- Educational value

Co-curricular activities play an important role in the development of vision, thought even though this is not part of core curriculum. The university has designed and developed an environment in which students participate in Co-Curricular activities while maintaining the academic standards .It will play a vital role for growth of students in different walks of life.

The role of Co- Curricular activities in student's life are important and listed as:

- 1. Overall Personality
- 2. Strengthened Self-confidence
- 3. Developed specialized skills
- 4. Improved Academic performance
- 5. Greater Opportunities
- 6. Sense of Responsibilities
- 7. Exposure to new activities

## III) Co-curricular Activities

Under co-curricular activities NHCE celebrates Engineers day, Mathematics day, Education day, and Teachers day, professional society activities under SAE, ISTE and annual day. Along with the above mentioned events various co-curricular activities like debate and discussion, Quiz, paper presentations, seminars and group discussion sessions are conducted.

The details of various categories of activities are listed below:

i. Annual activities:

Sl. No.	Event	Facilities	Participants	Month of conduction
1	College annual day (SARGAM)	Seminar hall, LCD, PCs, Accommodation	Students from Engineering colleges	(Sept-2017) (Sept-2018) (Sept- 2019)
2	National level Project Expo "TechHorizon"	Seminar hall, LCD, PCs, OHP, Accommodation	Students from Engineering Institutions	(May 2017) (May 2018) (May 2019)
3	National level paper presentation "MechHorizon"	Seminar hall, LCD, PCs Accommodation	Students from Engineering Institutions	(May 2017) (May 2018) (May 2019)
4	Sports competition "Kreedayantrik"	Recreation centre, indoor & outdoor accommodation	Students from various Engineering disciplines	(Oct 2019)

Table 9.7.27: List of Annual activities



Figure No 9.71: Glimpses of "Sargam"

# Techorizon 2019 Image: State St

New Horizon College of Engineering organized National Level Project exhibition *TecHorizon 2019* on 27-04-2019. Dr. K R Venugopal, Vice Chancellor, Bangalore University was Guest of Honour and Mr. O P Khanna, chairman, Needy Heart Foundation was Chief Guest. Around 600+ final engineering projects were exhibited. The theme for this year was "*smart India*". Good number of institutes from state as well as outside Karnataka were part of this mega event. Jury members were from the reputed organization and NHCE alumni association.



Figure No 9.7.2: Glimpses of "TechHorizon"



					ME			
_								
_	SL NO	NAME OF THE STUDENT	USN	DEPT	SEM	EVENT AND REASON	DATE	TIME
		Davian Kumar Baddu				Club Meeting	14.08.2019	3.50 Pm to 4.50 Pm
	1		1NH14ME091	ME	7th	Krishna Janmastami	24.08.2019	Full Day
	•	Tavan Kamar Keday	1111141112051	IVIL	7.01	One Tree One Student	29.08.2019	Full Day
_						KANNADA RAJYOTSAVA	04/11/2019,05.11.19	10.00am onwards
	2	Vishala	1NH14ME142	ME	7th	Krishna Janmastami	24.08.2019	Full Day
3	3	Manoj Gowda T C	1NH16ME055	ME	7th	Donation Camp for the Flood Victims of North Karnataka and Kerala	10.08.2019	Full Day
						Club Meeting	14.08.2019	3.50 Pm to 4.50 Pm
	4			ME	ME 7	Donation Camp for the Flood Victims of North Karnataka and Kerala	10.08.2019	Full Day
h		bannearach	11112011200-1	101L		KANNADA RAJYOTSAVA	22/10/2019, 23.10.19	2:50 TO 4:50
	)						04/11/2019,05.11.19	10.00am onwards
	5	Vaijinath	1NH16ME120	ME	7th	Krishna Janmastami	24.08.2019	Full Day
	6	Varun Uday Chebbi	1NH16ME121	ME	7th	Donation Camp for the Flood Victims of North Karnataka and Kerala	10.08.2019	Full Day
						Club Meeting	14.08.2019	3.50 Pm to 4.50 Pm
	7	Karan S Kumar	1NH17ME040	ME		Club Meeting	14.08.2019	3.50 Pm to 4.50 Pm
	8	Prashant N Prasad	1NH17ME072	ME	5th	Club Meeting	14.08.2019	3.50 Pm to 4.50 Pm
	9	Zaid Huq	1NH17ME109	ME	5th	Club Meeting	14.08.2019	3.50 Pm to 4.50 Pm
	10	Akash B G	1NH17ME402	ME	7th	Krishna Janmastami	24.08.2019	Full Day
		Andrea Marrison				Krishna Janmastami	24.08.2019	Full Day
	11	Arjun Kumar	1NH1/ME40/	MIE	/th	One Tree One Student	29.08.2019	Full Day
	12	Hariprasad P	1NH17ME414	ME	7th	Krishna Janmastami	24.08.2019	Full Day
	13	Naresh R	1NH17ME424	ME	7th	Krishna Janmastami	24.08.2019	Full Day
	14	Sachin M D	1NH17ME427	ME	5th	Club Meeting	14.08.2019	3.50 Pm to 4.50 Pm
	15	Shivu Kumar	1NH17ME428	ME	7th	Krishna Janmastami	24.08.2019	Full Day
						Club Meeting	14.08.2019	3.50 Pm to 4.50 Pm
							1	1

# Figure No 9.7.3: Glimpses of "Kreedayantrik"

## Figure No 9.7.4: Student participation at sports events

ii. Achievements in Co-curricular activities:

# Table 9.7.28: Summary of achievements in Co-curricular activities

SI.	Name of the activity	No. of students participated			
No.		2016-17	2017-18	2018-19	
1	Project Expo / Paper presentation	67	100	100	
2	Technical workshops	03	03	03	
3	Industrial Visit	5	07	07	



Figure No 9.7.5: Industrial visit

#### Workshop

Two days faculty development program "3D & Surface modeling through UXD/CATIA-Dasault systems" was organized by Department of Mechanical Engineering, in association with EDS Technologies Pvt Ltd, Bangalore was held from 17th to 19th July 2019 at CAED Lab, NHCE. The Programme also intends to develop the knowledge of participants for simulation with advanced software in the relevant field for inculcating learning values in students and guiding and monitoring their progress. The program enhanced the understanding on recent trends in Computer aided Design and manufacturing systems.





A One day hands-on workshop on "Computational Fluid Dynamics - simulation and analysis" was organized by Department of Mechanical Engineering, in association with KFour metrics Bangalore and POINTWISE Texas USA was held on 17th July 2019 at SAP NextGen- Centre of Excellence Lab, NHCE. This workshop intended to give exposure to the faculties about the scope and essential fundamentals of CFD. Computational Fluid Dynamics (CFD) being an important subject and skill in industry as well as academia was discussed in-depth during the sessions. The workshop was attended by participants from faculty members of various colleges and in house.

## Figure No 9.7.6: Technical Workshop

## IV) Extra-Curricular activities

#### b) Availability of sports facilities:

Sl. No.	Name of the Event		Sl. No.	Name of the
1	Republic Day		14	Birthday of
2	Independence day		15	Birthday of
3	Teachers Day		16	Birthday of
4	Engineers Day		17	Birthday of Krishnan
5	Kannada Rajyotsava		18	Deepavali
6	International Women's Day	Γ	19	Founders' D
7	Birthday of Subhas Chandra	Γ	20	Induction Pr
8	Birthday of Sir. M		21	Graduation I
9	Birthday of Sardar Vallabhai		22	Freshers' Da
10	Birthday of Rani		23	Annual Day
11	Birthday of Jhansi Rani		24	Fresh Face
12	Birthday of Chatrapathi		25	IT Quiz
13	Birthday of Dr. APJ Abdul	-		

## Table 9.7.29: List of Extra-Curricular activities organized every year

51. No.	Name of the Event
14	Birthday of Shaheed Bhagat Singh
15	Birthday of Swami Vivekananda
16	Birthday of Shaheed Hemu Kalani
17	Birthday of Major Sandeep Unni Krishnan
18	Deepavali
19	Founders' Day
20	Induction Program
21	Graduation Day
22	Freshers' Day
23	Annual Day "SARGAM"
24	Fresh Face
25	IT Quiz


FigureNo9.7.7:KannadaFigureNo9.7.8:Birthday ofDr.RajyotsavaAPJ Abdul Kalam

# Table 9.7.30: List of indoor games available in the campus

Sl. No.	Name Of The Sport Facility	Numbers Available	Place of Availability	Whether Available beyond Regular Timings	
1	Caroms	08 boards			
2	Chess	08 boards	Students	YES	
3	Table Tennis	03 boards	Recreation		
4	Madison Ball	12	Centre		
5	Yoga Mats	06			

#### Table 9.7.31: List of outdoor games available in the campus

Sl. No.	Name of the Sport Facility	Available Kits	Place of Availability	Whether Available beyond Regular Timings	
1	Volley ball	12 balls			
2	Basket ball	24 balls			
3	Throw ball	06 balls		YES	
4	Hand ball	10 balls	Onen ground		
5	Kho-Kho	2 poles	Open ground		
6	Foot ball/Cricket	12 balls			
7	Shot put	02			
8	Badminton	10 bats			

## Achievements in sport activities

Sl.	Nome of the grout	No. of students				
No.	Name of the sport	2016-17	2017-18	2018-19		
1	Volley ball	4	2	2		
2	Basket ball	2	2	2		
3	Football	3	4	3		
4	Hand ball	-	2	2		
5	Kabaddi	3	2	2		
6	Wrestling & Judo	2	-	-		
7	Weight Lifting	1	-	-		

#### Table 9.7.32: Summary of achievements in sport activities

# c) National Service Scheme (NSS):

NSS is a voluntary association of young people in Colleges, Universities. The cardinal principal of the NSS program is that it is organized through participation in community service; gets a sense of involvement in the task of nation building.

# List of NSS Events:

# Table 9.7.33: summary of NSS events conducted in the academic years of 2016-19

SI.	Event Name	No. of students participated
1	Blood donation camp (Lions club)	210
2	Women Empowerment	70
3	Orphanage Visit	25
4	Blood donation camp (Nimhans& Kidwai)	143
5	Blood donation camp (Nimhans)	203
6	Blood donation camp (Grace Blood Bank)	127
7	Blood donation camp (Lions club)	91



Figure 9.7.9: Blood donation camp

# DEPARTMENT OF MECHANICAL ENGINEERING

# **CRITERION 10**

# GOVERNANCE, INSTITUTIONAL SUPPORT AND FINANCIAL RESOURCES

# **CRITERION 10**

# GOVERNANCE, INSTITUTIONAL SUPPORT AND FINANCIAL RESOURCES (120)

# **10.1 Organisation, Governance and Transparency (55)**

# **10.1.1. State the Vision and Mission of the Institute (5)**

(Vision statement typically indicates aspirations and mission statement states the broad approach to achieve aspirations)

# **VISION OF THE INSTITUTE**

To emerge as an Institute of eminence in the fields of engineering, technology and management in serving the industry and the nation by empowering students with a high degree of technical, managerial and practical competence.

# **MISSION OF THE INSTITUTE**

To strengthen the theoretical, practical and ethical dimensions of the learning process by fostering a culture of research and innovative among faculty members and students.

To encourage long-term interaction between the academia and industry through their involvement in the design of curriculum and its hands-on implementation.

To strengthen and mould students in professional, ethical, social and environment dimensions by encouraging participation in co-curricular and extracurricular activities.

# **10.1.2** Availability of the Institutional Strategic Plan and Its effective implementation and Monitoring (25)

Institutional strategic plan has been made by performing deep analysis of Strength, weakness, Opportunity and Threat of the institute. Several meetings and interactions with Management, Director, Dean Academic, Dean Research, Registrar, all HoD's, Faculty members, Supporting staff, Students, Parents and Alumni were held for the same. The strategic plan is given below:

Following key points about institute were discussed to carry out the analysis

- Infrastructure Strategic plan
- Teaching Learning( Curriculum) Strategic plan
- Student Centric Strategic plan

- Faculty Strategic plan
- Research and Development Strategy plan
- Co-curricular Activity Strategy plan
- Extra-curricular Activity Strategy plan

After several brainstorming session by keeping above key points in mind, following strategy plans and its implementation & monitoring have been set up that transform New Horizon College of Engineering into globally recognize technical institute.

The Quantification for all the above Strategic plans are mentioned in the following table:

#### (i) Strategic plan

	Strategic Plan						
	Infrastructure						
Academic Years		2019-2020	2020-2021	2021-2022	2022-2023	2023-2024	
S.No	Key Progress Area (KPA)	Progressive Enhancement Targets (PET)-Year wise					
1	Class rooms with Smart Boards	3 per Department	6 per Department	All Class rooms	All Class rooms	All Class rooms	
2	Modernization of Lab	25%	30%	50%	new	new	
3	Industry Institute Intraction cell & ED cell	Existing and Coordinating with all the department & Outside world					
3	Centre of Excellence	Existing and Coordinating with all the department & Outside world					

#### Table:10.1.2a Infrastructure Strategic plan

	(CoE)					
4	CMS &LMS	Institute is Presently using				
5	Library ebooks	100% Existing				
6	Seminar Hall	3 in Institute	+1	+2	+3	+4
7	Introduction of UG and PG courses	7UG & 3 PG	+2UG	+2UG	+2UG	+2UG
8	eGovernance	Existing				

# Table: 10.1.2b Teaching Learning( Curriculum) Strategic plan

		Strategic Plan					
			<b>Teaching</b>	Learning( Cu	urriculum)		
Academic Years		2019-2020	2020-2021	2021-2022	2022-2023	2023-2024	
S.No	Key Progress Area (KPA)	Progressive Enhancement Targets (PET)-Year wise					
1	NIRF ranking	106	114	110	105	100	
2	ATAL Ranking	TOP 06-25	Top 5	Top 3	Top 2	Top 1	
3	Profession al Society tie up	12	15	20	25	30	
4	Branding (Marketing	PAN INDIA & Social	PAN INDIA,	PAN INDIA,	PAN INDIA +	PAN INDIA +Asian and	

	)	Media	Print &	Print &	Asian	Europe
			Social	Social		
			Media	Media		
	Innovative	1 Online	1 Online	2 Online	2 Online	3 Online
5	teaching &	Course per	Course per	Course per	Course per	Course per
	Learning	Department	Department	Department	Department	Department
	Outcome					
	based					
6	education	Implementat	Enhance &	Enhance &	Enhance &	Enhance &
C C	(OBE	ion	Improve	Improve	Improve	Improve
	Implement					
	ation)					
		A 11	6 Years 4	6 Years 3		
7	NBA	Programs	Program	Program	-	-
		Tiograms	Tier 1	Tier 1		
0	NAAC	All	All	All	All	All
0	NAAC	Programs	Programs	Programs	Programs	Programs
	Industrial					
9	Collaborat	10 Courses	15 Courses	20 Courses	25 Courses	30 Courses
	ed Courses					
	Leadership					
10	courses in	2 Courses	4 Courses	6 Courses	8 Courses	10 Courses
	curricula					

# Table: 10.1.2 c Student Centric Strategic plan

	Strategic Plan							
	Student Centric							
Academic Years		2019-2020	2020- 2021	2021- 2022	2022- 2023	2023-2024		
S.No	Key Progress Area (KPA)	Progressive Enhancement Targets (PET)-Year wise						

1	Admission-UG	Top 8000	Top 6000	Top 5000	Top 3000	Top 2000
2	Admission-PG	GATE Top 2000	GATE Top 1000	GATE Top 800	GATE Top 600	GATE Top 500
3	Lateral Entry Admission	Тор 5000	Тор 4000	Тор 3000	Top 2000	Top 1000
4	Placement-UG	75% Avg 4 Lakhs	80% Avg 5 Lakhs	82% Avg 5.5 Lakhs	85% Avg 6 Lakhs	87% Avg 6.5 Lakhs
5	Fee Concession	10%	12%	15%	17%	20%
6	Best Student - Awards	Existing				
7	Top academic Students Scholarship (Class-Wise)	Existing				

		Strategic Plan				
				Faculty		
Academic Years		2019-2020	2020-2021	2021-2022	2022-2023	2023-2024
S.No	Key Progress Area (KPA)	Progres	Progressive Enhancement Targets (PET)-Year wise			
1	Pass % (UG)	90% and above	90% and above	90% and above	90% and above	90% and above
2	Pass % (PG)	100% and above	100% and above	100% and above	100% and above	100% and above
3	Faculty Average	8 Years	10 Years	12 Years	14 Years	16 Years

	Experience					
4	Publication per Dept	10 Publications	15 Publications	20 Publications	25 Publications	30 Publications
5	Ph.D per Department in Percentage wise	30	32	35	40	50
8	Industrial training	2 per Department	3 per Department	5 per Department	7 per Department	10 per Department
9	Faculty from industry	5 Nos.	7 Nos.	9 Nos.	12 Nos.	15 Nos.

# Table: 10.1.2 e Research and Development Strategy plan

		Strategic Plan				
			Researc	h and Deve	lopment	
Academic Years		2020-2021	2021-2022	2022-2023	2023-2024	2024-2025
S.No	Key Progress Area (KPA)	Progressive Enhancement Targets (PET)-Year wise				
1	Research FDP/workshop	10 Nos.	14 Nos.	20 Nos.	24 Nos.	30 Nos.
2	Ph.D registration in Percentage	30	40	50	60	70
3	Ph.D completion in Percentage	30	40	50	60	70
4	Ph.D Guidance in Percentage	20	30	40	50	60
5	Funded project applied per	10	20	30	40	50

	Department					
6	Funded seminar/workshop conducted	10	20	30	40	50
7	International conference	1	2	3	4	5
8	Sponsored project	1 Crore	2 Crores	3 Crores	4 Crores	5 Crores
9	Consultancy	1 Crores	1.25 Crores	1.5 Crores	2 Crores	2.5 Crores
10	MoU with industry	10	15	20	25	30
11	MoU with IIsc, IIT, NIT and premier institutions	2	3	4	5	б
12	Patent provisionally filed	209 Nos.	100 Nos.	125 Nos.	150 Nos.	200 Nos.
13	Patent published	40 Nos.	50 Nos.	75 Nos.	100 Nos.	125 Nos.
14	Research Centre	11 Nos.	+2 Nos.	+2 Nos.	+2 Nos.	+3 Nos.
15	Technology incubator	10 Nos.	20 Nos.	30 Nos.	40 Nos.	50 Nos.

Table: 10.1.2 f	Co-curricular	Activity	Strategy	plan
-----------------	---------------	----------	----------	------

		Strategic Plan				
		Co-curricular Activity(Students)				
Academic		2020-	2021-	2022-	2023-	2024-
Years		2021	2022	2023	2024	2025
S.No	Key Progress Area (KPA)	Progressive Enhancement Targets (PET)- Year-wise				

1	Industrial visit	4	6	8	10	12
2	Exchange programme	2%	4%	6%	8%	10%
3	Value added courses	4	6	8	10	12
4	MOOC courses	1	2	3	4	5

# Table: 10.1.2 g Extra-curricular Activity Strategy plan

			Strategic Plan				
			Extra-curricular Activity (Students)				
Academic		1	2020-2021	2021-	2022-	2023-	2024-
Years				2022	2023	2024	2025
S.No	Key Pro Area (1	ogress KPA)	Progressive Enhancement Targets (PET)-Year-wise				ear-wise
1	Sports &	Games	10	12	14	15	20
2	Tournam lev	nents @ el	5	6	7	8	10
3	Alumni association		100%	100%	100%	100%	100%
4	NSS		Existing				
5	Satellite	e Club	2%	4%	6%	8%	10%
6	Rocketr	y Club	2%	4%	6%	8%	10%

# ii) Monitoring

SL NO STRATEGIC PLAN		MONITORING
1	Infrastructure	Registrar
2	Teaching learning	Dean – Academics

3	Student	Dean – Students Affairs
4	Faculty	HOD's
5	Research & Development	Dean – Research & Development
6	Co-curricular	Dean – Academics
7	extra-curricular	Library

# **10.1.3** Governing body, administrative setup, functions of various bodies, service rules, Procedure, recruitment and promotional policies (10)

List the governing, senate and all other academic and administrative bodies; their memberships, functions and responsibilities; the meetings and attendance therein, in a tabular form. A few sample minutes of the frequency of meetings and action-taken reports should be annexed.

The published rules including service rules, policies and procedures; year of publication shall be listed. Also state the extent of awareness among the employees/students.

- To ensure observance and compliance of instructions issued by AICTE, Government of Karnataka and affiliating University.
- To ensure that the building, land, furniture and facilities are not being used for any other purpose (such as holding political meetings, communal meetings), except for running AICTE approved courses in the institute.
- To submit reports and returns from time to time to AICTE, Government of Karnataka and affiliating University.
- Create peaceful and favourable atmosphere for study free from ragging.

## Powers and Functions of Chairperson of Governing Council

• The Chairperson shall intimate the date of the Governing Council meeting to the Principal-cum-Member Secretary for arrangement of Governing Council meeting. In case the Principal-cum-Member Secretary fails or ignores to arrange Governing Council meeting, the Chairperson can call for Governing Council meeting.

- In the event of taking vote on any decision and if a tie occurs, then decision of Chairperson shall be final.
- The Chairperson shall ensure that the decisions taken in Governing Council meeting are implemented by Member Secretary.
- The Chairperson shall ensure that the Governing Council is functioning properly to meet the mission of the Institute.

## Powers and Functions of Member Secretary of Governing Council

- Member Secretary of Governing Council of the Institute shall be the Principal, who executes the decisions taken in the Governing Council on behalf of the Governing Council.
- By the order of the Chairperson, Member Secretary shall arrange the Governing Council meeting. In case of unfavouring situations, he/she will intimate the cancellation of the meeting the Chairperson and other members of the Governing Council.
- He would take correspondence on behalf of the Governing Council meeting in relation with the decisions taken in it and get it confirmed by the Chairperson and members present. With confirmation, the proceedings would be forwarded to AICTE, Government of Karnataka and affiliating University.
- The Member Secretary would maintain the properties of the institution and remain in-charge of it, the title deeds and papers related to the need of the institution.
- He will exercise powers and functions as maybe imposed and assigned by the Governing Council from time to time.
- The Member Secretary would issue appointment letters to the staffs selected by the Recruitment Committee after the approval from the sponsoring trust and the Governing Council of the institute.
- To ensure observance and compliance of instructions issued by AICTE, Government of Karnataka and affiliating University.
- To ensure that the building, land, furniture and facilities are not being used for any other purpose (such as holding political meetings, communal meetings), except for running AICTE approved courses in the institute.
- To submit reports and returns from time to time to AICTE, Government of Karnataka and affiliating University.

• Create peaceful and favourable atmosphere for study free from ragging.

#### Powers and Functions of Chairperson of Governing Council

- The Chairperson shall intimate the date of the Governing Council meeting to the Principal-cum-Member Secretary for arrangement of Governing Council meeting. In case the Principal-cum-Member Secretary fails or ignores to arrange Governing Council meeting, the Chairperson can call for Governing Council meeting.
- In the event of taking vote on any decision and if a tie occurs, then decision of Chairperson shall be final.
- The Chairperson shall ensure that the decisions taken in Governing Council meeting are implemented by Member Secretary.
- The Chairperson shall ensure that the Governing Council is functioning properly to meet the mission of the Institute.

#### **Governing Council**

The composition of Governing Council as follows;

Sl	Member	Address	Designation	Position
No.				
1	Dr. Mohan Manghnani	New Horizon College of Engineering, Marathalli, Outer Ring Road, Kadubisanahalli, Bangalore- 560 103	Chairman, NHEI	Chairperson
2	Mr. H N Surya Prakash	New Horizon College of Engineering, Marathalli, Outer Ring Road, Kadubisanahalli, Bangalore- 560 103	Registrar	Member
3	Dr. R Bodhisatvan	New Horizon College of Engineering, Marathalli, Outer Ring Road, Kadubisanahalli, Bangalore- 560 103	Principal- NHC(M)	Member
4	Dr. M. S. Ganesha Prasad	New Horizon College of Engineering, Marathalli, Outer Ring Road, Kadubisanahalli,	Dean & Head – Department	Member

#### Table 10.1.3.1 Governing Council

		Bangalore- 560 103	of Mechanical Engineering	
5	Dr. Prashanth C S R	New Horizon College of Engineering, Marathalli, Outer Ring Road, Kadubisanahalli, Bangalore- 560 103	Dean- Academics	Member
6	Dr. Vijilius H Raj	New Horizon College of Engineering, Marathalli, Outer Ring Road, Kadubisanahalli, Bangalore- 560 103	Controller of Examination	Member
7	Prof. Gurucharan Singh	New Horizon College of Engineering, Marathalli, Outer Ring Road, Kadubisanahalli, Bangalore- 560 103	Executive Director – Training & Placements	Member
8	Dr. B.V. Ravishankar	Principal BMS & EC Member VTU	Educationist	Member
9	Prof. H Devraj UGC Nominee	New No. 23/2 III Main Road, Gandhi Nagar, Adyar Chennai – 600 020	Commission (UGC) Nominee	Member
10	AICTE Nominee	Director, AICTE, Palace Road, Bangalore- 560001	Council (AICTE) Nominee	Member
11	DTE Nominee	Directorate of Technical Education, Bangalore – 560001	State Government Nominee	Member
12	Sri. Sagar Nidavani	Executive Council Member VTU	University (VTU) Nominee	Member
13	Prof. T G Sitharam	Professor – Department of Civil Engineering	Professor	Member
14	Dr. Manjunatha	New Horizon College of Engineering, Marathalli, Outer Ring Road, Kadubisanahalli,	Principal	Ex Officio Member

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2019-20

Bangalore- 560 103	Secretary

# Academic Council

Structure/Constitution	Functions/Responsibilities	Frequency
		of Meetings
Academic Council constituted with	Recommend and approve faculty boards academic regulations	
•Institution's distinguished Principal as Council Chairman	curriculum-scheme and syllabi, teaching & learning practice	
•Dean- Academic affairs as Member Secretary	•Frame regulations regarding students admission into	
•All Heads of the Departments as Council Members	programmes and to conduct of examinations	
•1-Professor, 1-Associate Professor or 1- Assistant Professor(as per seniority in institution) from each department as representing council members(for a period of 2-years)	<ul> <li>Suggest and recommend proposed teaching methods/techniques(LCD projector, Smart Board, Online etc</li> <li>and student performance evaluation metrics to enhance quality education</li> </ul>	
•4(Min.)-External experts from engineering education or Industry as council members nominated by Board of Governors(B.O.G)	•Approve students for conferment of degrees, diplomas or certificates by the University	
•1-External expert for each major engineering discipline nominated by vice chancellor, VTU, Belgaum as council member	•Recommend to the B.O.G for about 1. Institute new programmes of study 2. Student scholarships, fellowships, medal, prizes with the guideline of relevance	Twice in a Year
•Institution's controller of examination(COE) as council member	•Promote and verify research activities of the institution	

# Table 10.1.3.2 Academic Council

Sl No.	Category	Sl No.	Name
Ι	Principal of the College – Chairman	1	Dr. Manjunatha

II	All Heads of the Dept. – Members	1	Dr. M S Ganesh Prasad
		2	Dr. Niranjan P S
		3	Dr. B Rajalakshmi
		4	Dr. Sanjeev Sharma
		5	Dr. Ram Kumar S
		6	Dr. R.J. Anandhi
		7	Dr. Shridhar Kurse
		8	Dr. Ananda Vardhan
		9	Dr. Revathi V
		10	Dr. Anusuya Devi V S
		11	Dr. Asha V
		12	Dr. Sheelan Misra
		13	Dr. Srinivasa G
		14	Dr. Sowmya Narayanan
III	Controller of Examination	1	Dr. Vijilius H Raj
IV	Teachers of the College representing	1	Dr. Mohan Kumar
	unrerent level of teaching start	2	Prof. Aravinda
		3	Dr. Adhikari
		4	Dr. A R Sainath
V	Experts from outside the college	1	Dr. Krishnan – PESIT
	R&D, Tech. Edn	2	Mr. Ashish – Skyfi lab
		3	S K L N Prasanna, Guhring
			Industries, TT – Head, Bangalore
		4	Dr. Sanjay Gupta, Director Innovation Council, Dell

			Services
		5	Ajit Kumar Padhi, Director Operation, NASSCOM
VI	Nominees of University (VTU)	1	Dr. Shadashive gowda, Principal- Vidya Vardhaka College of Engineering, Mysuru
		2	Dr. Shivyoginath, Prof., Dept. of Civil Engineering, Basaveswara Engineering College, Bagalkot
		3	Dr. Mary Cherian, Prof., Dept. of CSE, Dr. A.I.T. Bangalore
VII	Dean Academics – Member Secretary	1	Dr. Prashanth C S R

# Meetings:

Academic Year	Date of Meeting	No. of Members Attended	No. of Members Absent
CAY(2019-20)	21-09-2019	21	3
0.11(201) 20)	29-06-2019	24	-
	05-10-2018	18	8
CAY m1(2018-19)	23-06-2018	22	4
	22-01-2018	21	2
CAY m2(2017-18)	03-08-2017	20	2
0.11	28-01-2017	20	-
CAY m3(2016-17)	23-07-2016	22	3
	22-01-2016	20	1

	16-12-2015	22	2
	09-11-2015	20	1
CAY m4(2015-16)	18-09-2015	19	1
	31-07-2015	20	-
	06-06-2015	17	3

#### **Statutory Committees**

A number of committees are present in the college that are formed taking into the considerations of the students and faculties. There is diversification that ensures that the committees address any issues faced by the stake holders and also aims for the improvements under the purview of the respective committees. The various committees and their in-charges are as follows:

Sl	Committees	In-charge	Designation
no			
1	Accreditation Committee	Dr. M. S. Ganesha Prasad	Dean & Head – Department of Mechanical Engineering
2	Admission Committee	Mr. H N Suryaprakash Ms. Aruna	Registrar Head- Admissions
3	Alumni Committee	Dr. M. S. Ganesha Prasad	Dean & Head – Department of Mechanical Engineering
4	Anti- Ragging Committee	Mr. H N Suryaprakash	Registrar
5	Anti- Sexual Harassment Committee	Dr. R.J. Anandhi	Professor & Head – ISE
6	Co- Curricular Committee	Dr. Anitha S. Rai	Head- Library & Information Center

 Table 10.1.3.3 Statutory Committees

7	Community Development Center (Public Welfare Committee)	Mr. H N Suryaprakash Ms. Deepa Ganesh	Registrar HOD- Marketing & Branding
8	Counselling Committee	Dr. Reena Jain	Head-Counselling
9	Cultural Committee	Dr. Anitha S. Rai	Head- Library & Information Center
10	Curriculum Development Committee	Dr. C S R Prashanth	Dean- Academics
11	Disciplinary Committee	Mr. H N Suryaprakash	Registrar
12	Energy Conversion Audit Committee	Dr. Ram Kumar S Mr. Karthik	HOD-EEE Estate Manager
13	Examination Committee	Dr. Vijilius Helena Raj	Controller Of Examinations
14	Finance Committee	Mrs. Malathi Madhusudan	Senior Executive Director – Accounts & Finance
15	Hostel (Boys) Development & Welfare Committee	Mr. H N Suryaprakash	Registrar
16	Girls Hostel Development & Welfare Committee	Ms. Aruna	Head- Admissions
17	Infrastructure Development Committee	Dr. P S Niranjan Mr. Rao	Head- GPE Program & HOD- Civil Engg. Project Manager
18	In-Plant Training/ Industrial/ Career Guidance/	Prof. Gurucharan Singh	Executive Director- Training & Placements

	Placement Committee		
19	Instrumentation Cell	Dr. Sanjeev Sharma	HOD- ECE
20	Internal Quality Assessment & Assurance Cell	Dr. Gopal Krishna Mr. Anil Kumar Hangal	Dean – R&D Head – Quality Assurance
21	Library Committee	Dr. Anitha S. Rai	Head- Library & Information Center
22	NCC Committee	Dr. M. S. Ganesha Prasad Mr. H N Suryaprakash	Dean & Head – Department of Mechanical Engineering Registrar
23	NSS Committee	Dr. Anitha S. Rai	Head- Library & Information Center
24	News Letter Committee	Dr. S. Mohan Kumar	Associate Professor, Department of ISE
25	Physical Education & Sports Committee	Dr. Ganesh Prasad Mr. Vinay	Dean & Head – Department of Mechanical Engineering Physical Education Director
26	Professional Societies	Dr. K. Gopala Krishnan	Dean- R & D
27	Public Relations & Marketing Committee	Mr. Adarsh J Navale	HOD- Marketing & Branding
28	Purchase Committee	Mrs. Malathi Madhusudan Mr. H N Suryaprakash	Senior Executive Director – Accounts & Finance Registrar
29	Recruitment Cell	Ms. Manjula V.	Head- HR

30	Research & Development	Dr. K. Gopala Krishnan	Dean- R & D
	Committee		
31	SC/ST Welfare Cell	Mr. H N Suryaprakash	Registrar
32	Software / Hardware Training Committee	Dr. C S R Prashanth	Dean- Academics
33	College Internal Complaints Committee (CICC)	Ms. Manjula V.	Head- HR
34	Staff Welfare Committee	Ms. Manjula V.	Head- HR
35	Value Added Programs Committee	Dr. M. S. Ganesha Prasad	Dean & Head – Department of Mechanical Engineering
36	Women Empowerment Committee	Dr. R.J. Anandhi	Professor & Head – ISE
37	Student Mentoring Committee	Dr. Anusuya	Professor & Head- Chemistry
38	Student Grievances Redressal	Mr. Suryaprakash	Registrar
39	Universal Human Values Committee	Dr. Anusuya	Professor & Head- Chemistry

#### Accreditation Committee

As an upcoming engineering college in Bangalore as well as in Karnataka, the college which is already recognised by accreditation councils has formed this committee to look into the requirements for upcoming state and national level accreditations.

#### Table 10.1.3.3.1 Accreditation Committee

Sl. No.	Name	Designation	Position
1	Dr. Manjunatha	Principal	Chairman
2	Mr. H N Suryaprakash	Registrar	Member
3	Dr. C S R Prashanth	Dean- Academics	Member
4	Dr. K. Gopala Krishnan	Dean – Research	Member
5	Dr. Sheelan Misra	HoD- MBA	Member
6	Dr. Anitha S Rai	HoD – Library & Information Center	Member
7	Dr. Ganesh Prasad	Dean-Mechanical Engineering	Member Secretary

# Meetings:

Academic Year	Date of Meeting	No. of Members Attended	No. of Members Absent
	14-07-2020	All	Nil
	18-06-2020	All	Nil
	10-06-2020		
	05-06-2020		
CAY(2019-20)	01-06-2020		
	27-05-2020		
	22-01-2020		
	20-07-2019		
CAY m1(2018-19)	18-01-2019	All	Nil
CAT m1(2018-19)	06-09-2018	All	Nil

	08.08.2017	5	2
CAY m2(2017-18)	12.06.2017	All	NIL
			l
	10.02.2017	All	NIL
CAY m3(2016-17)	19.08.2016	All	NIL
	05.07.2016	All	NIL
	25.02.2016	6	1
CAY m4(2015-16)	19.08.2015	All	NIL
	11.05.2015	All	NIL
CAY m5(2014-15)	17.10.2014	All	NIL

# **Admission Committee:**

This is an integral committee of the institute that deals with the admission of the students into the various undergraduate and postgraduate programs. Based on the students' qualifications and rankings in entrance exams, this committee provides admissions to the students to pursue their course of choice.

Sl. No.	Name	Designation	Position
1	Dr. Manjunatha	Principal	Chairman
2	Mr. H N Suryaprakash	Registrar	Member
3	Mrs. Malathi Madhusudan	Senior Executive Director – Accounts & Finance	Member
4	Ms. Manjula V.	Head- HR	Member
5	Ms. Aruna	Head- Admissions	Member- Secretary
6	Dr. Manjunatha	Principal	Chairman

Table 10.1.3.3.2 Admission Committee

Academic Year	Date of Meeting	No. of Members Attended	No. of Members Absent
CAY(2019-20)	24.04.2020	All	NIL
CAY m1(2018-19)	12.04.2019	All	NIL
CAY m2(2017-18)	09.04.2018	All	NIL
CAY m3(2016-17)	04.04.2017	All	NIL
CAY m4(2015-16)	20.04.2016	All	NIL
CAY m5(2014-15)	13.04.2015	All	NIL

# **Meetings:**

# Alumni Committee

Alumina of an educational institute contributes a lot to the growth of the organization. Besides being a major stakeholder of the institute, they give guidance and feedback to their juniors with respect to their career opportunities. This committee was constituted to keep constant rapport with the alumni.

Table 1	0.1.3.3.3	Alumni	Committee
---------	-----------	--------	-----------

Sl. No.	Name	Designation	Position
1	Dr. Manjunatha	Principal	Chairman
2	Dr. C S R Prasanth	Dean – Academics	Member
3	Dr. Niranjan	HoD – Civil	Member
4	Dr. Ram Kumar S	HOD- EEE	Member
5	Dr. R.J. Anandhi	HOD- ISE	Member
6	Dr. Sheelan Misra	HOD – MBA	Member
7	Dr. Asha V	HOD – MCA	Member
8	Dr. Revathi V	HoD – BSH ( Physics Cycle )	Member

9	Dr. M S Ganesha Prasad	Dean, Professor & HoD – ME	Member- Secretary
			•

Academic Year	Date of Meeting	No. of Members Attended	No. of Members Absent
CAY(2019-20)	20-02-2020	All	Nil
(	29-07-2019	All	Nil
CAY m1(2018-19)	19-03-2019	8	1
	20-11-2018	All	Nil
CAY m2(2017-18)	04.08.2017	7	2
(2017 10)	05.07.2017	5	4
	11.01.2017	8	1
CAY m3(2016-17)	14.12.2016	9	Nil
	10.08.2016	8	1
CAY m4(2015-16)	12.05.2016	19	2
CATT III+(2013-10)	19.11.2015	18	3
CAY m5(2014-15)	09.04.2015	20	1
	15.10.2014	20	1

# Meetings:

## **Anti-Ragging Committee**

Ragging is a very common problem faced by students in the campus during and after college hours. The consequences of the students who faced ragging are very serious and shocking. Thus, this committee was constituted to control ragging and provide relief to students who come under this shadow. The committee has the powers to take stringent action on students involving in such activities. The Committee comprise of the following members.

Sl. No.	Name	Designation	Position
1	Dr. Manjunatha	Principal	Chairman
2	Mr. H N Suryaprakash	Registrar	Member Secretary
3	Dr. C S R Prashanth	Dean – Academics	Member
4	Dr. M S Ganesha Prasad	Dean & Head – Department of Mechanical Engineering	Member
5	Ms. Aruna	Director – Admissions	Member
6	Dr. Revathi V	HOD – Physics	Member
7	Inspector- Marathalli Police Station	Inspector	Members
8	Ms. Sreeja	Parent	Member
9	Mr. Karthik	Parent	Member
10	Mr. Nanjundiah	BEO (Retd.)	Member
11	Ms. Shanti P	Girls Hostel Warden	Member
12	Mr. Devraj R.	Boys Hostel Warden	Member
13	Ms.Sunitha Prabhakar	Student Counselor	Member
14	Mr. Adharsh Madhusudan	Student	Member
15	Ms. Sharon Ann Gomes	Student	Member

# Table 10.1.3.3.4 Anti-Ragging Committee

# Meetings:

Academic Year Date of Meeting	No. of Members	No. of Members Absent
-------------------------------	-------------------	-----------------------

		Attended	
CAN(2010-20)	17.01.2020	All	Nil
CAT(2019-20)	22.07.2019		
CAY m1(2018-19)	17.01.2019	All	Nil
C/11 III(2010 1))	20.07.2018		
CAY m2(2017-18)	22.01.2018	14	01
	20.07.2017	13	02
CAY m3(2016-17)	11.01.2017	14	01
	23.07.2016	13	02
CAY m4(2015-16)	21.01.2016	14	01
	22.07.2015	13	02
CAY m5(2014-15)	20.01.2015	14	01
	16.07.2014	All	Nil

#### **Anti-Sexual Harassment Committee**

Sexual Harassment is a very sensitive issue and the students facing such problems will not be in a mind-set to address these issues. Thus this committee was constituted to tackle such problems and help the students. Powers are vested in the hands of the committee to take stringent action on students involving in such activities. The committee is constituted as follows.

Table 10.1.3.3.5 Anti-Sexual Harassment Committee

Sl. No.	Name	Designation	Position
1.	Dr.Manjunatha	Principal	Chairman
2.	Ms.Manjula	Head-HR	Member
3.	Ms.Aruna	HOD-Admissions	Member
4.	Dr. Revathi V	HOD-Physics	Member

5.	Ms.Cynthia	Student Counselor	Member
6.	Ms.Shanthi	Girls Hostel Warden	Member
7.	Ms.Vijaya	Advocate	Member
8.	Mr.Sadiq Pasha	Police-Inspector-HAL	Member
9.	Ms.Shanmathi K	Student Representative	Member
10.	Dr.R J Anandhi	HOD-ISE	Member-Secretary

# Meetings:

Academic Year	Date of Meeting	No. of Members Attended	No. of Members Absent
CAY(2019-20)	13.01.2020	All	Nil
CAY m1(2018-19)	24.10.2018	All	Nil
CAY m2(2017-18)	01.01.2018	All	NIL
CAT III2(2017-18)	20.09.2017	09	01
	17.09.2016	All	Nil
CAY m3(2016-17)	10.08.2016	09	01
	06.08.2016	09	01
CAY m4(2015-16)	22.09.2015	07	03
CAY m5(2014-15)	16.02.2015	09	01
	25.09.2014	All	Nil

## **Co-curricular Committee**

The committee of the college is constituted to look into the likes of the students, besides academics. Aimed at ensuring an overall development of the young ester, the committee promotes various activities by forming clubs involving students, helping them excel in competitions.

Sl. No.	Name	Designation	Position
1	Dr. Manjunatha	Principal	Chairman
2	Prof. Sreeja	Associate Professor – MCA	Member
3	Prof. Manjesh C	Asst. Prof.– ME	Member
4	Prof. Aravinda	Sr. Asst. Professor – ECE	Member
5	Keshav	VIII Sem-CSE	Student Member
6	Chandan Kumar V T	VI Sem-Automobile	Student Member
7	Santhosh Kadali	VI Sem- MCA	Student Member
8	Dr. Anitha S Rai	Head-LIbrary	Member Secretary

# Table 10.1.3.3.6 Co-curricular Committee

# Meetings:

A andomia Voor	Date of	No. of Members	No. of Members
Academic Year	Meeting	Attended	Absent
CAY(2019-20)	20.01.2020	All	Nil
	24.07.2019	All	Nil
CAY m1(2018-19)	13.01.2019	All	Nil
	16.07.2018	08	01
CAY m2(2017-18)	17.01.2018	All	Nil
	14.08.2017	08	01
	19.01.2017	08	01
CAY m3(2016-17)	19.12.2016	08	01
	11.10.2016	All	Nil
CAY m4(2015-16)	18.07.2016	All	NIL
	08.12.2015	All	NIL

	21.07.2015	07	02
CAV = 5(2014, 15)	15.12.2014	All	Nil
CAT III5(2014-13)	04.07.2014	All	Nil

# **Community Development Centre (Public Welfare Committee)**

This committee looks into the interest and development of the faculties and students of the college issues pertaining to campus facilities addressed to this committee who resolve it.

Sl. No.	Name	Designation	Position
1	Dr. Manjunatha	Principal	Chairman
2	Mr. H N Suryaprakash	Registrar	Member
3	Mrs. Malathi Madhusudan	Senior Executive Director – Accounts & Finance	Member
4	Ms. Manjula V.	Head- HR	Member
5	Mr. Adarsh J Navale	Head- Marketing & Branding	Member- Secretary

Table 10.1.3.3.7 Public Welfare Committee

# Meetings:

Academic Year	Date of Meeting	No. of Members Attended	No. of Members Absent
CAY(2019-20)	06.01.2020	All	Nil
CAY m1(2018-19)	28.01.2019	All	Nil
CAY m2(2017-18)	24.01.2018	All	Nil
CAY m3(2016-17)	23.01.2017	All	Nil

CAY m4(2015-16)	11.01.2016	All	Nil
CAY m5(2014-15)	12.01.2015	All	Nil

#### **Counselling Committee**

An essential committee in the college addressing issues of students. This committee was constituted to help distracted, diverted and students who lack concerntration in studies to getback to studying. The committee includes the counselors who assist and guide the students to get back to the curriculum.

Sl. No.	Name	Designation	Position
1	Dr. Manjunatha	Principal	Chairman
2	Ms. Deepa	Student Counselor	Member
3	Ms. Revathi Srinivasan	Student Counselor	Member
4	Dr. Sudha Thomas	Student Counselor	Member
5	Ms. Cynthia M.War	Student Counselor	Member
6	Ms. Rakhi N.Gopan	Student Counselor	Member
7	Ms. Sunitha Prabhakar	Student Counselor	Member
8	Dr. Reena Jain	Head-Counselor	Member Secretary

#### Table 10.1.3.3.8 Counselling Committee

#### **Meetings:**

Academic Year	Date of Meeting	No. of Members Attended	No. of Members Absent
CAV(2019,20)	04.02.2020	All	Nil
CAT(2019-20)	07.08.2019	All	Nil
CAY m1(2018-19)	07.02.2019	All	Nil
	10.08.2018	All	Nil

	05.02.2018	07	01
CAY m2(2017-18)	08.11.2017	07	01
	02.08.2017	06	02
	23.01.2017	05	03
$CAX m_3(2016, 17)$	26.10.2016	08	Nil
CAT III5(2010-17)	15.09.2016	07	01
	03.08.2016	07	01
CAV m4(2015, 16)	10.05.2016	07	01
CAY m4(2015-16)	18.10.2015	06	02
CAV = 5(2014, 15)	23.04.2015	07	01
CAT III5(2014-15)	16.10.2014	All	Nil

#### Cultural Committee

Based on the lines of the co-curricular committee, the cultural committee helps the students to distinguish themselves apart from their curriculum. Students are encouraged to take part in various cultural events in college and other colleges and showcase their talents.

Table 10.1.3.3.9	Cultural (	Committee
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Sl. No.	Name	Designation	Position
1	Dr. Manjunatha	Principal	Chairman
2	Dr. Revathi V	HOD-Physics	Member
3	Dr. Asha V.	ProfMCA	Member
4	Prof. Kavitha	Asst. Professor – ISE	Member
5	Dr. Nisha	Associate Professor – ECE	Member
6	Mr. Keshav	Student member	Member

7	Ms. Varshini	Student member	Member
8	Dr. Anitha S. Rai	Head- Library & Information Center	Member- Secretary

#### Meetings:

Academic Year	Date of Meeting	No. of Members Attended	No. of Members Absent
CAY(2019-20)	22.01.2020	All	Nil
	05.08.2019	All	Nil
CAY m1(2018-19)	10.01.2019	All	Nil
	11.07.2018	All	Nil
CAY m2(2017-18)	05.02.2018	08	01
CAY m3(2016-17)	01.08.2017	All	Nil
CAY m4(2015-16)	11.08.2016	08	01
	07.10.2015	08	01
CAY m5(2014-15)	21.08.2015	All	Nil
	17.11.2014	08	01

## **Curriculum Development Committee**

The committee is essential with respect to the framing of the academic syllabus for undergraduate and postgraduate courses across all departments. The committee involving the Heads of all the Departments aims at framing a curriculum that brings out syllabus that meets the outside/industry requirements and at the same time ensures teaching is done in a very effective way.

Sl. No.	Name	Designation	Position
1	Dr. Manjunatha	Principal	Chairman
2	Dr.Prashanth C.S.R	Dean – Academics	Member Secretary

3	Dr. Shridhar Kurse	HoD – AU	Member
4	Dr. Anand Vardhan H	HoD – BT	Member
5	Dr. Niranjan	HoD – Civil	Member
6	Dr. Rajalakshmi	HoD – CSE	Member
7	Dr. Sanjeev Sharma	HoD – ECE	Member
8	Dr. Ram Kumar S	HoD – EEE	Member
9	Dr. R J Anandhi	HoD – ISE	Member
10	Dr. M.S. Ganesha Prasad	HoD – ME	Member
11	Dr. Asha V	HoD – MCA	Member
12	Dr. Sheelan Mishra	HoD – MBA	Member
13	Dr. Revathi V	HoD – BSH (Physics Cycle)	Member
14	Dr. V S Anusuya Devi	HoD – BSH(Chemistry Cycle)	Member
15	Dr. Srinivasa K.G	HOD – Mathematics	Member
16	Dr. Sowmya G.R.N	HOD – Lifeskills	Member

# Meetings:

Academic Year	Date of Meeting	No. of Members Attended	No. of Members Absent
CAY(2019-20)	23.07.2020	All	Nil
CAY m1(2018-19)	28.06.2019	All	Nil
	22.06.2018	All	Nil
CAY m2(2017-18)	08.02.2018	All	Nil
CAY m3(2016-17)	16.10.2017	All	Nil
CAY m4(2015-16)	20.01.2016	All	Nil
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	10.06.2015	All	Nil
	02.02.2015	All	Nil
CAY m5(2014-15)	27.10.2014	All	Nil

# **Disciplinary Committee**

Indiscipline is a serious aspect of concern amongst students owing to peer pressure and other kinds of distractions around them. Their behavior changes and they react differently to various situations. This committee monitors the students and ensures that no indiscipline happens. Also, in the event of any indiscipline activities, action is taken by the committee.

#### Table 10.1.3.3.11 Disciplinary Committee

Sl. No.	Name	Designation	Position
1	Dr. Manjunatha	Principal	Chairman
2	Mr. H. N. Suryaprakash	Registrar	Member
3	HoD of the Concerned Department	HoD	Member

# **Meetings:**

Academic Year	Date of Meeting	No. of Members Attended	No. of Members Absent
CAY(2019-20)	13.02.2020	All	Nil
	16.08.2019	All	Nil
CAY m1(2018-19)	12.02.2019	All	Nil
	26.08.2018	All	Nil
CAY m2(2017-18)	02.02.2018	12	01

	16.08.2017	All	Nil
CAY m3(2016-17)	09.05.2017	All	Nil
CAV = 4(2015, 16)	07.04.2016	11	02
CAT III4(2013-10)	10.09.2015	All	Nil
CAV = 5(2014, 15)	13.05.2015	All	Nil
CAT III5(2014-15)	04.09.2014	All	Nil

# **Energy Conservation Audit Committee**

This committee constituted by the Electrical department, is responsible of an eco-friendly campus. They are responsible for conservation of electricity in the college campus buildings and ensure that there is no wastage for power, thus saving it for the future.

Sl. No.	Name	Designation	Position
1	Dr. Manjunatha	Principal	Chairman
2	Dr. RamKumar.S	HoD-EEE	Member Secretary
3	Dr.Ganesh.C	Prof-EEE	Coordinator
4	Ms. Karthika.M	Sr. Asst.Prof-EEE	Member
5	Mr.Inbasakaran.S	Sr. Asst.Prof-EEE	Member
6	Mr.Vinod Kumar.S	Sr. Asst.Prof-EEE	Member
7	Mr.Lithesh.J	Asst.Prof-EEE	Member

 Table 10.1.3.3.12 Energy Conversation Committee

### Meetings:

Academic Year	Date of Meeting	No. of Members Attended	No. of Members Absent
CAY(2019-20)	06.02.2020	All	Nil
CAY m1(2018-19)	03.01.2019	All	Nil

24.08.2017	11 1	
24.00.2017	All	Nil
31.03.2017	All	Nil
13.02.2017	All	Nil
13.10.2016	All	Nil
02.02.2016	07	01
06.01.2016	All	Nil
03.08.2015	All	Nil
16.02.2015	06	02
10.09.2014	07	01
	31.03.2017         31.03.2017         13.02.2017         13.10.2016         02.02.2016         06.01.2016         03.08.2015         16.02.2015         10.09.2014	24.00.2017     All       31.03.2017     All       13.02.2017     All       13.10.2016     All       02.02.2016     07       06.01.2016     All       03.08.2015     All       16.02.2015     06       10.09.2014     07

### **Examination Committee**

The committee monitors the autonomous examinations conducted in the college. Starting from the notification of the exam till the declaration of the results, the committee manages all the activities in coordination with the heads of the departments ensuring smooth running of the entire process.

 Table 10.1.3.3.13 Examination Committee

Sl. No.	Name	Designation	Position
1	Dr. Manjunatha	Principal	Chairman
2	Dr. Vijilius Helena Raj	Controller of Examination	Member- Secretary
3	Mr. Aravinda	Sr. Asst. Prof	Member
4	Dr. Revathi V	Professor & Head	Member
5	Mr.Anil Kumar Hangal	Head Quality Assurance	Member

Note: All HoDs of various Departments are Ex-officio Members of Examination Committee

# Meetings:

Academic Year	Date of Meeting	No. of Members Attended	No. of Members Absent
	05.02.2020	All	Nil
CAN(2010, 20)	03.01.2020.		
CAT(2019-20)	15.11.2019		
	10.10.2019		
	04.05.2019	All	Nil
CAN 1/2010 10	11.02.2019		
CAY m1(2018-19)	20.11.2019		
	29.10.2018		
CAV = 2(2017, 19)	23.02.2018	All	Nil
CAT III2(2017-18)	26.09.2017	All	Nil
CAN = 2(2016, 17)	13.02.2017	All	Nil
CAY m3(2016-17)	01.09.2016	All	Nil
CAV = 4(2015, 16)	27.01.2016	All	Nil
CAY m4(2015-16)	08.09.2015	All	Nil
CAY m5(2014-15)	NA		

# **Finance Committee**

The committee is responsible for all the monetary activities in the institution. Students' fee collection, funds for procurement of equipment, dispatching salaries and remuneration are under the purview of this committee.

Table	10.1.3.3.14	Finance	Committee
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Sl. No.	Name	Designation	Position
1	Dr. Manjunatha	Principal	Chairman

2	Mr. H N Suryaprakash	Registrar	Member
3	Dr. M. S. Ganesha Prasad	Dean & Head – Department of Mechanical Engineering	Member
4	Dr. C S R Prashanth	Dean- Academics	Member
5	Dr. K. Gopala Krishnan	Dean- R & D	Member
6	Dr. Sheelan Misra	HOD – MBA	Member
7	Ms. Geetha	Senior Accounts Executive	Member
8	Mrs. Malathi Madhusudan	Senior Executive Director – Accounts & Finance	Member- Secretary

# Meetings:

Academic Year	Date of	No. of Members	No. of Members
	Meeting	Attended	Absent
CAX(2010, 20)	14.03.2020	All	Nil
CAT(2019-20)	17.09.2019		
CAV m1(2018, 10)	19.03.2019	All	Nil
CAT III(2010-13)	19.09.2018		
$CAY m^{2}(2017-18)$	10.03.2018	All	Nil
CAT III2(2017-18)	20.09.2017	All	Nil
$CAY m^{3}(2016, 17)$	14.03.2017	All	Nil
CAT III5(2010-17)	19.09.2016	All	Nil
CAY m4(2015-16)	18.03.2016	All	Nil
CAT III4(2013-10)	15.09.2015	All	Nil
CAY m5(2014-15)	19.03.2015	All	Nil
CATT III5(2017-15)	08.09.2014	All	Nil

# Hostel(Boys) Development & Welfare Committee

The committee looks into the requirement of the students(boys) staying on the campus, in the hostel. The committee monitor with regard to hostel food, accommodation, Maintenance, and discipline in the Hostel.

Sl. No.	Name	Designation	Position
1	Dr. Manjunatha	Principal	Chairman
2	Mr. Sambashiva Rao	Warden	Member
3	Mr. Sreenivas H S	Warden	Member
4	Mr. Pankajaksan	Warden	Member
5	Mr. Devaraj. R	Sr. Warden	Member
6	Mr. Suryaprakash	Registrar	Member Secretary

### **Meetings:**

Academic Year	Date of Meeting	No. of Members Attended	No. of Members Absent
	intering	Tittenaca	
CAV(2019-20)	22.01.2020	All	Nil
CAT(201)-20)	23.07.2019		
CAV m1(2018-19)	23.01.2019	All	Nil
CAT III(2010-17)	25.07.2018		
CAY m2(2017-18)	29.01.2018	All	Nil
	25.07.2017	All	Nil
CAY m3(2016-17)	20.01.2017	06	01
	06.10.2016	All	Nil
CAY m4(2015-16)	25.02.2016	All	Nil
	28.07.2015	06	01

CAV m5(2014, 15)	30.01.2015	All	Nil
CAT III5(2014-13)	23.07.2014	All	Nil

### Hostel(Girls) Development & Welfare Committee

The committee looks into the requirement of the students(girls) staying on the campus, in the hostel. The committee monitor with regard to hostel food, accommodation, Maintenance, and discipline in the Hostel.

Sl. No.	Name	Designation	Position
1	Dr. Manjunatha	Principal	Chairman
2	Mr. Suryaprakash	Registrar	Member
3	Ms. Shanthi	Warden	Member
4	Ms. Yogitha	Warden	Member
5	Ms. Aruna M	Director-Admission	Member Secretary

### Table 10.1.3.3.16 Hostel (Girls) Development & Welfare Committee

## **Meetings:**

Academic Year	Date of Meeting	No. of Members Attended	No. of Members Absent
CAY(2019-20)	22.01.2020	All	Nil
	23.07.2019		
CAY m1(2018-19)	23.01.2019	All	Nil
	25.07.2018		
CAY m2(2017-18)	30.01.2018	05	01
	24.07.2017	All	Nil
CAY m3(2016-17)	23.01.2017	All	Nil
	06.10.2016	05	01

	27.01.2016	All	Nil
CAY m4(2015-16)	27.07.2015	All	Nil
	13.02.2015	05	01
CAY m5(2014-15)	24.07.2014	All	Nil

# Infrastructure Development Committee

All hardware infrastructure requirements of the college are taken care by this committee. Furniture and furnishings, lights & fans, other essential infrastructure in the buildings and on the campus are provided by this committee.

# Table 10.1.3.3.17 Infrastructure Development Committee

Sl. No.	Name	Designation	Position
1	Dr. Manjunatha	Principal	Chairman
2	Mr. Rao	Project Manager	Member
3	Ms. Shailee	Quantity Surveyor	Member
4	Dr. P S Niranjan	HOD – Civil Engg.	Member – Secretary

# Meetings:

Academic Year	Date of Meeting	No. of Members Attended	No. of Members Absent
CAY(2019-20)	08.01.2020	All	Nil
	09.05.2019		
CAY m1(2018-19)	18.01.2019	All	Nil
	16.05.2018		
CAY m2(2017-18)	04.10.2017	All	Nil
	05.06.2017	All	Nil
CAY m3(2016-17)	05.04.2017	All	Nil

	10.02.2017	All	Nil
	02.12.2016	All	Nil
	10.08.2016	All	Nil
	06.05.2016	All	Nil
CAY m4(2015-16)	01.02.2016	All	Nil
	05.10.2015	All	Nil
CAN = 5(2014, 15)	25.02.2015	All	Nil
CAY m5(2014-15)	20.08.2014	All	Nil

#### In-Plant training/Industrial/Career Guidance/placement committee

This committee is very essential for the graduating undergraduate and postgraduate students, aspiring to get placed in companies as well as to start companies of their own. In plant Training and career guidance are given to the students in their pre-final year and pre-final semester respectively, preparing them for the forthcoming campus interviews.

Sl. No.	Name	Designation	Position
1	Dr. Manjunatha	Principal	Chairman
2	Ms. Ankita Srivastava	EEE	Member
3	Dr. Mohan Naik	ECE	Member
4	Mr. Girish Tilak	AU	Member
5	Mr. Govinda Raj	MCA	Member
6	Mr. Sudharshan	Mechanical	Member
7	Mr. Bopanna K D	Mechanical	Member
8	Dr. Anand	BT	Member
9	Mr. Sivabalan	CSE	Member

 Table 10.1.3.3.18 In-Plant Traing/Industrial/Career Guidance/Placement Committee

10	Ms.Vandana	ISE	Member
11	Ms. P Suma	Civil	Member
12	Dr. Sheelan	MBA	Member
13	Dr. Sainath	MBA	Member
14	Mr. Binod Kumar Singh	ТРО	Member
15	Mr. Mahesh	ТРО	Member
16	Mr. Rajendra	ТРО	Member
17	Mr. Pavan Kumar M	Executive – HR (Corporate Relations)	Member
18	Mr. Rajendra	ТРО	Member
19	Ms. Manisha Joshi	Sr. Executive – HR (Corporate Relations)	Member
20	Mr. Anis Mirza	HR Manager – Corporate Relations	Member
21	Mr. Binod Kumar Singh	HR Manager – Corporate Relations	Member
22	Mr. Gopalakrishna	Asst. HR Manager – Corporate Relations	Member
23	Mr. Ravi Shankar	HR Manager – Corporate Relations	Member
24	Mr.Viswas – 1NH14CS165 (CSE)	Student Member	Member
25	Mr.Rajith Bose M – 1NH14IS087 (ISE)	Student Member	Member
26	Mr. Yashas Bharadwaj – 1NH14ME759 (MECH)	Student Member	Member
27	Mr.Jai Kumar – 1NH14AU021 (AUTO)	Student Member	Member

28	Prof Gurucharan Singh	Executive Director – Dept of	Member-
20	1101. Outuenatan Shigh	HRD (CR T&P)	Secretary

## Meetings:

Academic Year	Date of Mosting	No. of Members	No. of Members
	Meeting	Attended	Absent
CAV(2010, 20)	06.07.2020	All	Nil
CAT(2017-20)	02.05.2020		
CAV = 1(2019, 10)	30.04.2019	All	Nil
CAY m1(2018-19)	22.01.2019		
(AX = 2(2017, 10))	02.02.2018	25	02
CAY m2(2017-18)	10.11.2017	All	Nil
	04.02.2017	26	01
CAY m3(2016-17)	07.11.2016	All	Nil
	18.07.2016	All	Nil
	06.02.2016	All	Nil
CAY m4(2015-16)	07.11.2015	All	Nil
	18.07.2015	All	NII
CAX = 5(2014, 15)	07.11.2014	All	Nil
CAY m5(2014-15)	17.07.2014	All	Nil

### **Instrumentation Cell**

This body constituted in the college plays a very important role with respect to the laboratory equipment's. Timely calibrations and preventive maintenance ensures that the machines (electrical) do not come for repairs or come in less numbers. Thus, this cell is responsible for keeping a check on the machines and certifying the same.

Sl. No.	Name	Designation	Position
1.	Dr. Manjunatha	Principal	Chairman
2.	Dr. Ganesh Prasad	Dean – Mechanical Engg	Member
3.	Dr. Ramkumar	Prof. & HOD-EEE	Member
4.	Dr. Rajalakshmi	Prof. & HOD-CSE	Member
5.	Dr. Sanjeev Sharma	Prof. & HOD-ECE	Member Secretary
6.	Prof. Aravinda K	Sr. Asst Professor	Member

# Table 10.1.3.3.19 Instrument Cell Committee

# Meetings:

Academic Year	Date of Mosting	No. of Members	No. of Members
	wreeting	Attenueu	Absent
CAY(2019-20)	24.08.2019	All	Nil
CAY m1(2018-19)	16.08.2018	All	Nil
CAY m2(2017-18)	02.02.2018	25	02
	10.11.2017	All	Nil
	04.02.2017	26	01
CAY m3(2016-17)	07.11.2016	All	Nil
	18.07.2016	All	Nil
	06.02.2016	All	Nil
CAY m4(2015-16)	07.11.2015	All	Nil
	18.07.2015	All	NII
CAY m5(2014-15)	07.11.2014	All	Nil
	17.07.2014	All	Nil

# Internal Quality Assessment and Assurance Cell

The committee was constituted to ensure that all the standards with regard to curriculum are met. Any discrepancies with respect to internal valuation, methods of teaching-learning are addressed by this committee. The Principal is the Chairman of the committee and it is constituted as follows.

Sl. No.	Name	Designation	Position
1	Dr. Manjunatha	Principal	Chairman
2	Dr. Girija Srinivasalu	Director- NHQASDC	Member
3	Dr. Gopal Krishna	Dean – R&D	Member
4	Dr. M.S. Ganesha Prasad	Dean – ME	Member
5	Dr. Anitha Rai	HOD-Library	Member
6	Mr. Anil Kumar Hangal	HoD – QA	Member Secretary
7	Dr. Prashanth CSR	Dean Academics	Member

# Meetings:

Academic Year	Date of Monting	No. of Members	No. of Members
	wieeting	Attenueu	Absent
CAY(2019-20)	06.01.2020	All	Nil
CAY m1(2018-19)	21.05.2019	All	Nil
	26.09.2018		
CAY m2(2017-18)	09.08.2017	All	Nil
	10.05.2017	All	Nil
CAY m3(2016-17)	22.03.2017		
	25.01.2017		
	06.09.2016		

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	07.07.2016	All	Nil
CAV m4(2015, 16)	05.05.2016		
CAT III4(2013-10)	28.03.2016		
	16.01.2016		
	09.07.2015	All	Nil
	17.04.2015		
CAY m5(2014-15)	26.02.2015		
	10.12.2014		
	15.10.2014		

#### Library Committee

Books and other e-learning media are very essential for gaining knowledge as learning is a continuous process. Faculties and students require resources to attain knowledge of the day-to-day requirements. The Library Advisory committee headed by the Principal ensures all these requirements are fulfilled through the member secretary and the inputs from the other members. Procuring books, technical journals, technical magazines, applying for access to e-journals, providing food reference books and adequate reading spaces are provided by this committee, which comprises the following members.

Sl. No.	Name	Designation	Position
1	Dr. Manjunatha	Principal	Chairman
2	Mr. H N Suryaprakash	Registrar	Member
3	Dr. M. S. Ganesha Prasad	Dean & Head – Department of Mechanical Engineering	Member
4	Dr. C S R Prashanth	Dean- Academics	Member
5	Dr. Sanjeev Sharma	HOD-ECE	Member
6	Dr. Revathi V	HOD-Physics	Member

 Table 10.1.3.3.21 Library Committee

7	Dr. Sheelan Mishra	HOD-MBA	Member
8	Dr. Siddamallaiah	Principal Librarian (Retd.), NIMHANS	External Member
9	Ms. Vanditha	ECE Branch	Student Member
10	Mr. Keshav	CSE Branch	Student Member
11	Dr. Anitha S Rai	Head – Library & Information Center	Member- Secretary

# Meetings:

Academic Year	Date of Meeting	No. of Members Attended	No. of Members Absent
CAV(2010, 20)	14.07.2020	All	Nil
CA1(2019-20)	08.04.2019		
CAV = 1(2018, 10)	12.12.2018	All	Nil
CAT III1(2018-19)	04.04.2018		
CAY m2(2017-18)	15.12.2017	All	Nil
CAY m3(2016-17)	13.05.2017	All	Nil
	13.12.2016	All	Nil
CAY m4(2015-16)	03.05.2016		
	14.12.2015		
CAV = 5(2014, 15)	05.05.2015	09	02
CAT III3(2014-15)	13.12.2014	All	Nil

# NCC Committee

The committee in the college is constituted to look into the students' interests inclined towards National Cadet Corps(NCC). NCC is the Indian military cadet corps, which is open to school and college students on voluntary basis. National Cadet corps is a Triservices organization, comprising the Army, Navy and Air Force, engaged in grooming

the youth of the country into disciplined and patriotic citizens. The National Cadet Corps in India is a voluntary organization which recruits cadets from high schools, colleges and universities all over India. The committee in college has the same motto.

Sl. No.	Name	Designation	Position
1	Dr. Manjunatha	Principal	Chairman
2	Shri. H N Suryaprakash	Registrar	Member
3	Mr. Vinay J T	Physical Education Director	Member
4	Mr. Pavan Prabhakar	Asst. Prof. – Mechancial Department	Member
5	Dr. M. S. Ganesha Prasad	Dean, Professor & HoD – ME	Member- Secretary

#### Table 10.1.3.3.22 NCC Committee

# Meetings:

Academic Year	Date of Meeting	No. of Members Attended	No. of Members Absent
CAY(2019-20)	12.02.2020	All	Nil
	04.10.2019		
CAY m1(2018-19)	14.03.2019	All	Nil
	24.09.2018		
CAY m2(2017-18)	02.02.2018	All	Nil
CAY m3(2016-17)	25.01.2017	All	Nil
CAY m4(2015-16)	19.04.2016	All	Nil
	21.09.2015		
CAY m5(2014-15)	12.05.2015	All	Nil
	16.10.2014		

## NSS Committee

The National Service Scheme is an Indian government-sponsored public service program conducted by the Department of Youth Affairs and Sports of the Government of India. Popularly known as NSS, the scheme was launched in 1969. Aimed at developing student's personality through community service, NSS is a voluntary association of young people in Colleges, Universities and at +2 level working for a campus-community linkage. The committee in college aims at moulding interested students on the same lines.

Sl. No.	Name	Designation	Position
1	Dr. Manjunatha	Principal	Chairman
2	Mr. H N Suryaprakash	Registrar	Member
		Dean & Head –	
3	Dr. M. S. Ganesha Prasad	Department of	Member
		Mechanical Engineering	
4	Prof. Puneeth	Sr. Asst. Professor	Member
5	Dr. Mohan	Associate Professor	Member
6	Ms. Pratiksha	Student Member	Member
7	Mr. Mohan	Student member	Member
8	Dr. Anitha S Rai	Head-Library & Information Center	Member Secretary

Table	10.1.3	.3.23	NSS	Committee
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#### **Meetings:**

Academic Year	Date of Meeting	No. of Members Attended	No. of Members Absent
CAY(2019-20)	18.01.2020	All	Nil
	20.08.2019		
CAY m1(2018-19)	20.01.2019	All	Nil
	08.07.2018		
CAY m2(2017-18)	19.01.2018	All	Nil

$CAV m^{2}(2016, 17)$	08.07.2017	All	Nil
CAT III5(2010-17)	09.01.2017		
CAV = 4(2015, 16)	04.01.2016	All	Nil
CAT III4(2013-16)	07.07.2015		
CAV m5(2014, 15)	01.01.2015	All	Nil
CAT III5(2014-15)	04.07.2015		

### **News Letter Committee**

Events and other happenings on the campus and off the campus with regard to the students and college is brought out in the college newsletter. The committee constituted helps to achieve this.

Besides getting articles and covering the relevant issues; compiling, editing, printing and

publishing of the newsletter is taken care by this committee.

Sl. No.	Name	Designation	Position
1	Dr. Manjunatha	Principal	Chairman
2	Mr. H N Suryaprakash	Registrar	Member
3	Mr. Adarsh J Navale	HOD- Marketing & Branding	Member
4	Dr. S. Mohan Kumar	Associate Professor, Department of ISE	Member Secretary
5	Mr. Md Yasin	Student Representative	Member
6	Mr. Sumukh	Student Representative	Member

 Table 10.1.3.3.24 News Letter Committee

# Meetings:

Academic Year	Date of Meeting	No. of Members Attended	No. of Members Absent
CAY(2019-20)	11.06.2020	All	Nil
CAY m1(2018-19)	15.05.2019	All	Nil
CAY m2(2017-18)	02-02-2018	All	Nil
	07-08-2017	05	01
CAY m3(2016-17)	03-01-2017	All	Nil
	03-05-2016	05	01
CAY m4(2015-16)	02-01-2016	All	Nil
	14-12-2015	All	Nil
CAY m5(2014-15)	05-05-2015	All	Nil
	13-12-2014	All	Nil

#### **Physical Education and Sports Committee**

Parallel to studies, in order to give motivation and an opportunity to excel in sports to interested stdents, this committee looks into the needs of budding sports persons. The college campus has facilities and equipment for a number of sports, for which there is good participation & boys and girls, pursuing undergraduates and postgraduates programs. Students participate in the sports, helping them to perform well in college event at state and national levels.

 Table 10.1.3.3.25 Physical Education and Sports Committee

Sl. No.	Name	Designation	Position
1	Dr. Manjunatha	Principal	Chairman
2	Dr. Shridhar Kurse	HoD – AU	Member
3	Dr. Anand Vardhan H	HoD – BT	Member
4	Dr. Niranjan	HoD – Civil	Member
5	Dr. Rajalakshmi	HoD – CSE	Member

6			
6	Dr. Sanjeev Sharma	HoD – ECE	Member
7	Dr. Ram Kumar S	HoD – EEE	Member
8	Dr. R J Anandhi	HoD – ISE	Member
9	Dr. Sheelan Mishra	HoD – MBA	Member
10	Dr. Asha V	HoD – MCA	Member
11	Dr. Revathi V	HoD – BSH (Physics Cycle)	Member
12	Dr. V S Anusuva	HoD – BSH(Chemistry)	Member
	Devi		
	Devi		
13	Dr MS Ganasha	Dean Professor & HoD	Mombor
15	DI. M.S. Galleslia	Deall, Floressol & HoD –	WICHIDEI
	Prasad	ME	Secretary
14	Mr. Vinay J T	Physical Education Director	Member
		-	

# Meetings:

Academic Year	Date of Meeting	No. of Members Attended	No. of Members Absent
CAY(2019-20)	17-02-2020	All	Nil
	15-10-2019	All	Nil
CAY m1(2018-19)	04-04-2019	All	Nil
CAT III(2010-17)	01-12-2018	All	Nil
$CAY m^{2}(2017-18)$	17.01.2018	All	Nil
CITI III2(2017-10)	27.06.2017		
CAY m3(2016-17)	16.01.2017	All	Nil
	20.06.2016		
CAY m4(2015-16)	20.01.2016	All	Nil
	10.06.2015		
CAY m5(2014-15)	02.02.2015	All	Nil

27.10.2014	

#### **Professional Societies Committee**

Membership in professional societies is very essential to and individual as weel as instate as a whole. Amongst the various state, national and internation professional societies, the same is reflected, where faculties as well as students and student groups are members. The committee encourages and promotes in obtaining memberships for faculties and students.

1	Dr. Manjunatha	Principal	~~ ·
		1 morpar	Chairman
2	Prof. Kamalashish Deb	Professor	Member
3	Dr. Clara Kanmani. A	Professor	Member
4	Prof. Surendra B V	Professor	Member
5	Mr. Arunkumar.M	Asst Professor	Member
6	Mrs. Swathi B	Asst Professor	Member
7	Dr. Nisha K C R	Professor	Member
8	Dr. Sujin Jose	Professor	Member
9	Dr. Smita Harwani	Professor	Member
10	Dr. A.P. Nirmala,	Professor	Member
11	Dr. J Kavitha	Professor	Member
12	Dr. Prakash Krishnaiah	Professor	Member
13	Mr. Ramachandra Naik	Asst. Professor	Member

### Table 10.1.3.3.26 Professional Societies Committee

#### **Meetings:**

Academic Year	Date of Meeting	No. of Members Attended	No. of Members Absent
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CAY(2019-20)	12.03.2020 29.01.2020 24.10.2019	All All	Nil Nil
CAY m1(2018-19)	O3.07.2019 04.04.2019 02.02.2019	All All	Nil Nil
CAY m2(2017-18)	17.10.2017 09.08.2017	All	Nil
CAY m3(2016-17)	10.04.2017	All	NII
CAY m4(2015-16)	05.05.2016 08.03.2016 20.10.2015	All	Nil
CAY m5(2014-15)	10.05.2015 06.04.2015 16.09.2014	All	Nil

# **Public Relation Committee**

An essential committee in the running of the organization, this committee is a preface for the admission committee. This committee is required to have a constant rapport with the public and must ensure that people know about the institution so as to help students who want to pursue undergraduate and post graduate programs to get admission to the college.

Sl. No.	Name	Designation	Position
1	Dr. Manjunatha	Principal	Chairman

2	Mr. H N Suryaprakash	Registrar	Member
3	Dr. M. S. Ganesha Prasad	Dean & Head – Department of Mechanical Engineering	Member
4	Ms. Manjula	Director – HR	Member
5	Mr. Deepak Kumar	Web Developer	Member
6	Mr. Adarsh J Navale	Head- Marketing & Branding	Member- Secretary

# Meetings:

Academic Year	Date of Meeting	No. of Members Attended	No. of Members Absent
CAY(2019-20)	20.01.2020	All	Nil
CAY m1(2018-19)	26.02.2019	All	Nil
CAY m2(2017-18)	26.03.2018	All	Nil
	12.08.2017		
CAY m3(2016-17)	28.02.2017	All	Nil
CAY m4(2015-16)	03.05.2016	All	Nil
	14.12.2015		
CAY m5(2014-15)	05.05.2015	All	Nil
	13.12.2014		

# **Purchase Committee**

This committee of the college is constituted to meet all the hardware requirements for the smooth running of the institute. Requisions given by all the departments for its running are provided by this committee.

 Table 10.1.3.3.28 Purchase Committee

	Sl. No.	Name	Designation	Position
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1	Dr. Manjunatha	Principal	Chairman
2	Shri.H. N. Suryaprakash	Registrar	Member
3	Dr Prashanth CSR	Dean Academics	Member
4	Ms. Manjula V	Director-HR	Member
5	Ms. Malathi Madhusudan	Sr. Executive Director, Accounts & Finance	Member Secretary

# Meetings:

Academic Year	Date of Meeting	No. of Members Attended	No. of Members Absent
CAY(2019-20)	16.03.2020	All	Nil
CAY m1(2018-19)	18.04.2019	All	Nil
CAY m2(2017-18)	10.04.2018	All	Nil
CAY m3(2016-17)	05.04.2017	All	Nil
CAY m4(2015-16)	18.04.2016	All	Nil
CAY m5(2014-15)	15.04.2015	All	NII

### **Recruitment committee**

This committee of the college is responsible for the recruitment of staff for the college, which includes the non-teaching faculty also. The preliminary interview takes place at the department level under the HoD. The final round and selection comes under the purview of this committee.

Sl. No.	Name	Designation	Position
1	Dr. Mohan Manghnani	Chairman-NHEI	Chairman
2	Dr. Manjunatha	Principal	Member

3	Dr. C S Ra Prashanth	Dean-Academics	Member
4	Respective Dept Heads	HoD	Member
5	Subject Experts 1	Subject Expert	Member
6	Subject Expert 2	Subject Expert	Member
7	Ms. Manjula	Director-HR	Member Secretary

# Meetings:

Academic Year	Date of Meeting	No. of Members Attended	No. of Members Absent
CAX(2010,20)	03.02.2020	All	Nil
CAY(2019-20)	06.01.2020		
	08.03.2019	All	Nil
	04.02.2019		
CAY m1(2018-19)	14.12.2018		
	11.10 2018		
	03.09. 2018		
	22.02.2018	All	Nil
	12.02.2018		
CAY m2(2017-18)	18.10.2017		
	10.10.2017		
	21.08.2017		
	26.07.2017	All	Nil
CAY m3(2016-17)	17.04.2017		
	20.02.2017		
	12.12.2016		

	22.08.2016		
CAY m4(2015-16)	14.01.2016	All	Nil
CAY m5(2014-15)	14.01.2015	All	NII

#### **Research and Development Committee**

Research and development plays a major role in the development of any organization, which also includes educational institutions. The research committee headed by the Principal was constituted for the same reason. The committee encourages faculties and students to publish technical paers and articles, write textbooks, apply for support for project work, get grants for research, apply for patents, etc.,. The committee co-ordinator oversees all the activities. The members of this committee are as follows.

Sl. No.	Name	Designation	Position
1	Dr. Manjunatha	Principal	Chairman
2	Prof. Kamalashish Deb	Professor	Member
3	Dr. Clara Kanmani. A	Professor	Member
4	Prof. Surendra B V	Professor	Member
5	Mr. Arunkumar.M	Asst Professor	Member
6	Mrs. Swathi B	Asst Professor	Member
7	Dr. Nisha K C R	Professor	Member
8	Dr. Sujin Jose	Professor	Member
9	Dr. Smita Harwani	Professor	Member
10	Dr. A.P. Nirmala,	Professor	Member
11	Dr. J Kavitha	Professor	Member
12	Dr. Prakash Krishnaiah	Professor	Member
13	Mr. Ramachandra Naik	Asst. Professor	Member

Table 10.1.3.3.30 Research &	& Development Committee
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14	Mr. Rama	anjenya	Library Officer	Member	
15	Dr. Gopalkrishnan		Dean-R & D	Member Secretary	
	Meetings:				
Academ	nic Year	Date of Meeting	No. of Members Attended	No. of Members Absent	
		12.03.2020	All	Nil	
CAY(2	019-20)	29.01.2020			
		25.10.2019			
		O3.07.2019	All	Nil	
CAY m1	(2018-19)	04.04.2019			
		02.02.2019			
		09.02.2018	All	Nil	
		01.12.2017			
CAY m2(	(2017-18)	17.10.2017			
		19.04.2017	All	Nil	
$C \wedge V = 2$	(2016, 17)	27.03.2017			
CATINS	(2010-17)	09.02.2017			
		28.10.2016			
		03.06.2016	All	Nil	
	(2015, 10)	27.04.2016			
	CAY m4(2015-16)				
		16.02.2016			
		29.02.2016			

	13 01 2016		
	13.01.2010		
	09.11.2015		
	13.10.2015		
	04.09.2015		
	06.05.2015	All	Nil
	13.04.2015		
CAY m5(2014-15)	06.03.2015		
	31.10.2014		
	02.09.2014		

# SC/ST Welfare Cell

This committee in the college is set up to look into the welfare of the SC/ST students admitted for the various courses. Besides this, the committee allocates monetary assistance to the students in the form of scholarship so as to help them pursue their education.

Table 10.1.3.3.31 S	SC/ST Welfare	Committee
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Sl. No.	Name	Designation	Position
1	Dr. Manjunatha	Principal	Chairman
2	Dr. Vishwanath Y	Sr. Asst Prof – ISE	Member
3	Mr. Ravi Kumar M.	Asso. Prof ME	Member
4	Mr. Madhusudhan	Asst. Prof. – ME	Member
5	Mr. H N Suryaprakash	Registrar	Member- Secretary

Academic Year	Date of Meeting	No. of Members Attended	No. of Members Absent
CAY(2019-20)	10.02.2020	All	Nil

	06.08.2019		
CAY m1(2018-19)	04.02.2019	All	Nil
	02.08.2018		
$CAY m^{2}(2017-18)$	26.02.2018	All	Nil
CAT III2(2017-10)	01.09.2017		
CAY m3(2016-17)	20.02.2017	All	Nil
	17.08.2016		
CAY m4(2015-16)	10.02.2016	All	Nil
	35.08.2015		
CAY m5(2014-15)	24.02.2015	All	Nil
	08.09.2014		

## Software/Hardware Training Committee

This committee is responsible for given training to the staff (technical) who have been newly recruited on using the laboratory equipment in the respective departments. Besides, training is also given to them on operating any newly procured machines, so as to facilitate the smooth running of the laboratory sessions.

Sl. No.	Name	Designation	Position
1	Dr. Manjunatha	Principal	Chairman
2	Dr.Prashanth C.S.R	Dean – Academics	Member Secretary
3	Dr. Rajalakshmi	HoD – CSE	Member
4	Dr. Sanjeev Sharma	HoD – ECE	Member
5	Dr. R J Anandhi	HoD – ISE	Member
6	Dr. Asha V	HoD – MCA	Member

 Table 10.1.3.3.32 Software/Hardware Training Committee

Academic Year	Date of Meeting	No. of Members	No. of Members
		Attended	Absent
CAN(2010, 20)	24.08.2020	All	Nil
CAY(2019-20)	10.01.2020		
CAV m 1(2018, 10)	09.04.2019	All	Nil
CAT III1(2018-19)	09.08.2018		
$CAV m^{2}(2017, 18)$	08-03-2018	All	Nil
CAT III2(2017-18)	11-12-2017	All	Nil
$CAV m_3(2016-17)$	13-04-2017	All	Nil
CAT III5(2010-17)	13-12-2016	All	Nil
CAV m4(2015, 16)	05-03-2016	05	01
CAT III4(2013-10)	14-12-2016	All	Nil
CAY m5(2014-15)	05-05-2015	All	Nil
C/11 III5(2017-15)	13-12-2014	All	Nil

# Meetings:

# **College Internal Complaints Committee (CICC)**

This committee in the college was formed to address all the internal issues of the faculties, so that they get solutions to the various problems. Suggestions and remedies are given by the members so that the problems are tackled by the faculties.

Table 10.1.3.3.33 College Internal	l Complaints Committee
------------------------------------	------------------------

Sl. No.	Name	Designation	Position
1	Dr. Manjunatha	Principal	Chairman
2	Shri. H. N. Suryaprakash	Registrar	Member
3	Dr. Prashanth C.S.R	Professor & Dean –	Member

		Academics	
4	Dr. Girija N Srinivasalu	Director – NHQASDC	Member
5	Ms. V. Manjula	Head – Human Resources	Convener

## **Meetings:**

Acadamic Vaar	Date of Meeting	No. of Members	No. of Members
Academic Tear	Date of Meeting	Attended	Absent
CAY(2019-20)	10.08.2019	All	Nil
CAY m1(2018-19)	08.07.2018	All	Nil
CAY m2(2017-18)	22-06-2017	All	Nil
CAY m3(2016-17)	07-03-2017	All	Nil
	06-02-2017	All	Nil
	16-04-2016	All	Nil
	22-03-2016	All	Nil
CAY m4(2015-16)	01-03-2016	All	Nil
	27-01-2016	All	Nil
	22-12-2015	All	Nil

## **Staff Welfare Committee**

This committee constituted on the similar lines of the Staff Grievances Redressal Committeelooks into providing welfare schemes to all the staff of the college. The committee addresses the requirements of the staff and takes necessary steps of action.

Sl. No.	Name	Designation	Position
1	Dr. Mohan Manghnani	Chairman	Chairman
2	Dr. Manjunatha	Principal	Member

#### Table 10.1.3.3.34 Staff Welfare Committee

3	Ms. Malathi Madhusudan	Sr. Executive Director – Accounts & Finance	Member
4	Shri. H. N. Suryaprakash	Registrar	Member
5	Ms. V. Manjula	Head – Human Resources	Member Secretary

#### **Meetings:**

Academic Year	Date of Meeting	No. of Members Attended	No. of Members Absent
CAY(2019-20)	25.08.2020 27.04.2020	All	Nil
CAY m1(2018-19)	22.04.2019	All	Nil
CAY m2(2017-18)	01 .12.2018	All	Nil
	27-03-2017	All	Nil
CAY m3(2016-17)	08-03-2017	All	Nil
	23-01-2017	All	Nil
	02-04-2016	All	Nil
CAY m4(2015-16)	13-10-2015	All	Nil
	11-08-2015	All	Nil
	09-06-2015	All	Nil
CAY m5(2014-15)	09-12-2014	All	Nil
	11-11-2014	All	Nil

## Value Added Programs Committee

The college has a number of streams of study-Global, Professional & executive. The streams are distinct and provide exclusive training to help in the overall development of the students. Organizing industrial trips at International and National levels, providing industry enriched training are some of the responsibilities of this committee.

Sl. No.	Name	Designation	Position
1	Dr. Manjunatha	Principal	Chairman
2	Dr.Prashanth C.S.R	Dean – Academics	Member
3	Dr. Shridhar Kurse	HoD – AU	Member
4	Dr. Anand Vardhan H	HoD – BT	Member
5	Dr. Niranjan	HoD – Civil	Member
6	Dr. Rajalakshmi	HoD – CSE	Member
7	Dr. Sanjeev Sharma	HoD – ECE	Member
8	Dr. Ram Kumar S	HoD – EEE	Member
9	Dr. R J Anandhi	HoD – ISE	Member
10	Dr. Sheelan Mishra	HoD – MBA	Member
11	Dr. Asha V	HoD – MCA	Member
12	Dr. Revathi V	HoD – BSH (Physics Cycle)	Member
13	Dr. V S Anusuya Devi	HoD – BSH(Chemistry Cycle)	Member
14	Ms. Malathi Madhusudhan	Senior Executive Director – Accounts & Finance	Member
15	Dr. M.S. Ganesha Prasad	Dean, Professor & HoD – ME	Member Secretary

# Table 10.1.3.3.35 Value Added Programs Committee

# Meetings:

Academic Year	Date of Meeting	No. of Members Attended	No. of Members Absent
CAY(2019-20)	10-01-2020	All	Nil
0(_0, _0)	18-07-2019		
CAY m1(2018-19)	28-03-2019	All	Nil

	12-10-2018		
CAY m2(2017-18)	05.10.2017	All	Nil
CAY m3(2016-17)	08.05.2017	10	01
0111 110(2010 17)	05.10.2016	All	Nil
CAY m 4(2015-16)	05.05.2016	10	01
CITI III+(2013 10)	05.10.2015	All	Nil
	02.05.2015	10	01
CAY m5(2014-15)	10.02.2015	All	Nil
	26.10.2014	All	Nil

# Women Empowerment Committee

This committee of the college addresses issues regarding to the empowerment of the women staff on the campus. The committees role is in ensuring that the powers are also vested in the hands of the women.

Sl. No.	Name	Designation	Position
1	Dr. Manjunatha	Principal	Chairman
2	Dr. Sheelan Mishra	HOD-MBA	Member
3	Dr. V. S. Anusuya	HOD-Chemistry	Member
4	Ms. Dharmambal	Sr. Asst. Professor	Member
5	Ms. Rajeswari	Sr. Asst. Professor	Member
6	Ms. Cynthia	Student Counselor	Member
7	Ms. Shanthi	Girls Hostel Warden	Member
8	Ms. Shanmathi K	Student Representative	Member
9	Dr. R.J. Anandhi	Professor & Head – ISE	Member- Secretary

 Table 10.1.3.3.36 Women Empowerment Committee

Academic Year	Date of Meeting	No. of Members Attended	No. of Members Absent
CAY(2019-20)	10.08.2019	All	Nil
CAY m1(2018-19)	12.10.2018	All	Nil
	12.02.2018	All	Nil
CAY m2(2017-18)	11.10.2017	09	01
	12.08.2017	08	02
CAY m3(2016-17)	15.10.2016	All	Nil
CAY m4(2015-16)	31.03.2016	09	01
	11.09.2015	08	02
CAY m5(2014-15)	27.03.2015	All	Nil
	22.09.2014	09	01

**Meetings:** 

#### **Student Mentoring Committee**

This committee of the college is responsible for keeping a constant track of the students' performance at the department level. The heads of the department along with the class teachers allocate a group of students to a mentee (faculty) who keeps track of the academic performance of the student. Extreme cases are dealt in the presence of the parents; some are referred to the Counsellors by the committee to resolve the issue.

fable 10.1.3.3.37	7 Student	Mentoring	Committee
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Sl. No.	Name	Designation	Position
1	Dr. Manjunatha	Principal	Chairman
2	Dr. C S R Prashanth	Dean- Academics	Member
3	Dr. P S Niranjan	Head- GPE Program & HOD- Civil Engg.	Member
4	Dr. R.J. Anandhi	HOD- ISE	Member

5	Dr. Sheelan Mishra	HOD-MBA	Member
6	Dr. Asha V	HOD- MCA	Member
7	Dr. Revathi V	HOD- Physics	Member
8	Dr.V.S.Anusuya Devi	HOD- Chemistry	Member

#### **Meetings:**

Academic Year	Date of Meeting	No. of Members Attended	No. of Members Absent
CAX(2010,20)	20.05.2020	All	Nil
CAT(2019-20)	25.10.2019		
CAV = 1(2019, 10)	02-04-2019	All	Nil
CAY m1(2018-19)	22-10-2018		
$CAV m^{2}(2017, 18)$	17-01-2018	07	03
CAT III2(2017-16)	01-08-2017	08	02
CAY m3(2016-17)	09-01-2017	067	03
CAY m4(2015-16)	12-04-2016	All	Nil
CAT III4(2013-10)	20-10-2015	All	Nil
CAY m5(2014-15)	30-04-2015	All	Nil
CAT III5(2014-15)	14-10-2014	All	Nil

#### **Student Grievances Redressal Committee**

Adolescence students who come from various backgrounds to study face a lot of problems. Besides a number of distractions are available to take them off their path of leraning. Thus to address the numerous problems of the diverse students from varied backgrounds, the students grievance redressal cell was formed to resolve the issues of the students. The committee is as follows.
Sl. No.	Name	Designation	Position
1	Dr. Manjunatha	Principal	Chairman
2	Mr. H N Suryaprakash	Registrar	Member
3	HoD of the Concerned Department	HoD	Member

### Table 10.1.3.3.38 Student Grievances Redressal Committee

### **Meetings:**

Academic Year	Date of Meeting	No. of Members Attended	No. of Members Absent
CAY(2019-20)	26-09-2019	All	Nil
CAY m1(2018-19)	01-04-2019	All	Nil
	30-08-2018		
CAY m2(2017-18)	01-02-2018	17	01
	29-08-2017	16	02
CAY m3(2016-17)	17-01-2017	All	Nil
	27-10-2016	16	02
CAY m4(2015-16)	01-03-2016	All	Nil
	04-11-2015	All	Nil
CAY m5(2014-15)	02-04-2015	All	Nil
	07-11-2014	12	01

### **Universal Human Values committee**

The objective of this committee is to build a strong connection between faculty and students to create holistic awareness about Universal Human Values and create holistic awareness about Universal Human Values. It will help students in the right development of their world-view, mindset, perspective and values.

Sl. No.	Name	Designation	Position
1.	Dr Manjunatha	Principal	Chairman
2.	Dr. Sowmya Narayanan	HoD- Life skills & Lifelong learning	Member
3.	Mr.Aravinda. K	Sr. Assistant Professor	Member
4.	Dr. Anitha S. Rai	Head- Library & Information Center	Member
5.	Ms Vijaya	Advocate	Member
6.	Dr. Anusuya Devi V S	HoD & Professor– Chemistry	Member Secretary

Table 10.1.3.3.39 Univ	ersal Human Values	<b>Committee</b>
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### Meetings:

Academic Year	Date of Meeting	No. of Members Attended	No. of Members Absent
CAY(2019-20)	09.01.2020 07.08.2019	All	Nil
CAY m1(2018- 19)	11.01.2019 08.08.2018	All	Nil
CAY m2(2017- 18)	NA		
CAY m3(2016- 17)	NA		
CAY m4(2015- 16)	NA		
CAY m5(2014- 15)	NA		

# **10.1.4.** Decentralization in working and grievance redressal mechanism (5)

List the names of the faculty members who have been delegated powers for taking administrative decisions. Mention details in respect of decentralization in working. Specify the mechanism and composition of grievance redressal cell including Anti Ragging Committee & Sexual Harassment Committee.

sl	Department	<b>Delegation of</b>	Common	Exclusive
no		power to	responsibility	responsibility
1	Mechanical engineering	Dean & Professor	Administrative work	Sports Activities Alumni
2	Civil Engineering	HoD & Professor	Administrative work	Global Trips, GPE Program
3	Electronics & Communication	HoD & Professor	Administrative work	Professional body Activities(IEEE)
4	Computer Science & Engineering	HoD & Professor	Administrative work	IT infrastructure
5	Electrical & Electronics Engineering	HoD & Professor	Administrative work	Energy Management
6	Information Science & Engineering	HoD & Professor	Administrative work	Professional body activities(CSI) Anti Sexual harassment committee(ICCC)
7	Automobile Engineering	HoD & Professor	Administrative work	Ek Bharath Shresta Bharath
8	Basic Science & Humanities	HoD & Professor	Administrative work	

### Table 10.1.4.1: Delegation of Powers

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			1	1
9	Library and	Head	Administrative	Student Extra
	Information		work in the Library	curricular Club
	Centre			activities
				Cultural Coordinator Students Feedback

Student Grievances Redressal Committee Adolescence students who come from various backgrounds to study face a lot of problems. Besides a number of distractions are available to take them off their path of leraning. Thus to address the numerous problems of the diverse students from varied backgrounds, the students grievance redressal cell was formed to resolve the issues of the students. The committee is as follows.

Sl. No.	Name	Designation	Position
1	Dr. Manjunatha	Principal	Chairman
2	Mr. H N Suryaprakash	Registrar	Member
3	HoD of the Concerned Department	HoD	Member

Table 10.1.4.2 Student Grievances Redressal Committee

### **Anti-Ragging Committee**

Ragging is a very common problem faced by students in the campus during and after college hours. The consequences of the students who faced ragging are very serious and shocking. Thus, this committee was constituted to control ragging and provide relief to students who come under this shadow. The committee has the powers to take stringent action on students involving in such activities. The Committee comprise of the following members.

Sl. No.	Name	Designation	Position
1	Dr. Manjunatha	Principal	Chairman

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2	Mr. H N	Registrar	Member Secretary
	Suryaprakash		
3	Dr. C S R Prashanth	Dean – Academics	Member
4	Dr. M S Ganesha	Dean & Head – Department	Member
	Prasad	of Mechanical Engineering	
5	Ms. Aruna	Director – Admissions	Member
6	Dr. Revathi V	HOD – Physics	Member
7	Inspector- Marathalli	Inspector	Members
	Police Station		
8	Ms. Sreeja	Parent	Member
9	Mr. Karthik	Parent	Member
10	Mr. Nanjundiah	BEO (Retd.)	Member
11	Ms. Shanti P	Girls Hostel Warden	Member
12	Mr. Devraj R.	Boys Hostel Warden	Member
13	Ms.Sunitha Prabhakar	Student Counselor	Member
14	Mr. Adharsh	Student	Member
	Madhusudan		
15	Ms. Sharon Ann	Student	Member
	Gomes		

### **Anti-Sexual Harassment Committee**

Sexual Harassment is a very sensitive issue and the students facing such problems will not be in a mind-set to address these issues. Thus this committee was constituted to tackle such problems and help the students. Powers are vested in the hands of the committee to take stringent action on students involving in such activities. The committee is constituted as follows.

#### Table 10.1.4.4 Anti-Sexual Harassment Committee

SI.	Name	Designation	Position

No.			
1.00			
1.	Dr.Manjunatha	Principal	Chairman
2.	Ms.Manjula	Head-HR	Member
3.	Ms.Aruna	HOD-Admissions	Member
4.	Dr. Revathi V	HOD-Physics	Member
5.	Ms.Cynthia	Student Counselor	Member
6.	Ms.Shanthi	Girls Hostel Warden	Member
7.	Ms.Vijaya	Advocate	Member
8.	Mr.Sadiq Pasha	Police-Inspector-HAL	Member
9.	Ms.Shanmathi K	Student Representative	Member
10.	Dr.R J Anandhi	HOD-ISE	Member-Secretary

## **10.1.5 Delegation of financial powers (5)**

Institution should explicitly mention financial powers delegated to the Principal, Heads of Departments and relevant in-charges. Demonstrate the utilization of financial powers for each year of the assessment years.

Budgets for running the department are very essential. These are prepared by every department before the commencement of the academic year. In this regard, Heads of the Departments, with senior faculties give the requisition to the Principal with regard to stationery, lab requirements, etc, for which budget allocations are approved by the Principal in discussion with the Management.

On the same lines, proposals are sent to the Principal for procuring new equipment for the labs, interactive technologies in the classrooms, conduction of workshops/ conferences/ seminars by the Heads of Departments for which fund allocations are made.

### Table 10.1.5.1: Financial Powers

Sl no	Designation	Financial power( rs.)
1	Principal	50,000/-

2	Registrar	10,000/-
3	HoDs of Engineering Departments	10,000/-
4	HoDs of Basic Sciences	10,000/-
5	HoDs of PG Programs	10,000
6	Head-Library and Informaiton Centre	10,000
7	Dean- R & D	50,000
8	Executive Director- Accounts & Finance	5,00,000

- The Finance Committee has the power to approve bills worth Rs. 10,00,000/-(Rupees Ten Lakh only)
- Further, bills worth more than Rs. 10,00,000/- (Rupees Ten Lakhs) will be approved by the NEW HORIZON EDUCATIONAL & CULTURAL TRUST (NHCET)

# **10.1.6.** Transparency and availability of correct/unambiguous information in public Domain (5)

The information is made available in the following link HR Policies:



http://newhorizonindia.edu/nhengineering/wp-content/uploads/2020/07/HR-POLICIES-2019-NHCE-10-Copy.pdf

Students:



http://newhorizonindia.edu/nhengineering/academic-guidelines/



Antiragging rules:

http://newhorizonindia.edu/nhengineering/ragging-free-campus-2/

Department BOS/BOE Procedures:



http://newhorizonindia.edu/nhengineering/mechanical-engineering/wpcontent/uploads/2020/05/ME-BOS-BOE-Constitution.pdf

### **10.2. Budget Allocation, Utilization, and Public Accounting at Institute** Level (15)

Summary of current financial year's budget and actual expenditure incurred (for the institution exclusively) in the three previous financial years.

### Total Income at Institute level: For CFY, CFYm1, CFYm2 & CFYm3

# **CFY:** Current Financial Year, **CFYm1** (Current Financial Year minus 1), **CFYm2** (Current Financial Year minus 2) and **CFYm3** (Current Financial Year minus 3)

Total Income				Actual Expenditure (till 31/03/20)			Total No. of Students: 5369
Fee	Govt.	Grant (S)	Other Sources (Placement Training, Bus Fees, etc.,)	Recurring Including Salaries	Non- recurring	Special Projects (Land, Building, WIP)	Expenditure per student
707599674	0	5741147	127604280	536995761	41753603	4177391	108573

#### Table 10.2a: Institute Income and Expenditure for CFY 2019-20

### Table 10.2a1: Institute Income and Expenditure for CFYm1 2018-19

	Tota	ll Income		Actual Expenditure (till 31/03/19)			Total No. of Students: 5510
Fee	Govt.	Grant (S)	Other Sources (Placement Training, Bus Fees, etc.,)	Recurring Including Salaries	Non- recurring	Special Projects (Land, Building, WIP)	Expenditure per student
666506475	0	1511600	136876932	561993276	38268285	0	108940

	Tota	Income		Actual Expenditure (till 31/03/18)			Total No. of Students: 5785
Fee	Gov t.	Grant (S)	Other Sources (Placement Training, Bus Fees, etc.,)	Recurring Including Salaries	Non- recurring	Speci al Projec ts (Land, Buildi ng, WIP)	Expenditure per student
633628870	0	6012514	102783721	531735851	73098860	0	104552

### Table 10.2a2: Institute Income and Expenditure for CFYm2 2017-18

### Table 10.2a3: Institute Income and Expenditure for CFYm3 2016-17

	Total	Income		Actual	Actual Expenditure (till 31/03/17)		
Fee	Govt.	Grant (S)	Other Sources (Placement Training, Bus Fees, etc.,)	Recurring Including Salaries	Non- recurring	Special Projects (Land, Building, WIP)	Expenditure per student
603117585	0	204500	73194407	469888719	44404088	0	88519

# **Table 10.2b:** Institute Budget and Expenditure for assessment years 2019-20, 2018-19,2017-18, 2016-17

		Actual		Actual		Actual		Actual
Τ.4	Budgeted	expenses	Budgeted	Expenses	Budgeted	Expenses	Budgeted	Expenses
Items	in CFY	in CFY	in CFYm1	in CFYm1	in CFYm2	in CFYm2	in CFYm3	in CFYm3
		(31/03/20)		(31/03/19)		(31/03/18)		(31/03/17)

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Infrastr ucture Built-up	15330000	6748473	14000000	6663271	31240000	23742664	26900000	26737805
Library	892500	2491663	850000	1983781	660000	3904459	600000	3815241
Laborat ory Equipm ent	13650000	21705381	13600000	23413881	17930000	28801047	16300000	12904526
Laborat ory Consum able	2500000	6319236	2200000	6255668	2000000	6737831	1850000	6139286
Teachin g & Non Teachin g Staff Salary	409860000	378318050	372600000	387350116	324000000	350480991	270000000	292120180
Mainten ance and Spares	52625000	38441733	50300000	41254680	54800000	39996490	48150000	47235609
Researc h & Develop ment	1500000	4708075	1200000	5086789	1000000	1315784	950000	231922
Training & Travel	8925000	18577870	8500000	21678725	9350000	10977807	8500000	20802921
Others (Global & Professi onal Training )	15000000	13629581	13500000	13435190	11500000	10977807	12500000	20688631
Misc	102257000	91986693	98405000	93139460	82555000	127899831	76100000	83616686
Total	622539500	582926755	575155000	600261561	535035000	604834711	461850000	514292807

**10.2.1.** Adequacy of budget allocation (5)

(The institution needs to justify that the budget allocated during assessment years was adequate)

Sl No.	Assessment Year	Budget Allocated in Rs.	Actual Expenditure in Rs.	Adequate/ Non Adequate
1	CFY	622539500	582926755	Adequate
2	CFYm1	575155000	600261561	Adequate
3	CFYm2	535035000	604834711	Adequate
4	CFYm3	461850000	514292807	Adequate

Table 10.2.1: Institute planned budget and expenditure

### **10.2.2.:** Utilisation of allocated funds (5)

(The institution needs to state how the budget was utilised during assessment years)

SI No	Assessment	Budget	Actual Expenditure	Percentage of
51110.	Year	Allocated in Rs.	in Rs.	Utilisation
1	CFY	622539500	582926755	93.64%
2	CFYm1	575155000	600261561	104%
3	CFYm2	535035000	604834711	113%
4	CFYm3	461850000	514292807	111%

# **10.2.3.:** Availability of the audited statements on the institute's website (5)

(The institution needs to make audited statements available on its website)

The audited statements is available on the institution website and the link is as follows:



http://newhorizonindia.edu/nhengineering/audited-statements/

### **10.3: Program Specific Budget Allocation, Utilisation (30)**

Total Budget at program level: for CFY, CFYm1, CFYm2 & CFYm3

**CFY:** Current Financial Year, CFYm1 (Current Financial Year minus 1), CFYm2 (Current Financial Year minus 2) and CFYm3 (Current Financial Year minus 3).

Total Budget: 80000000		Adequate Expenditure (till 31.03.2020):78932571		Total No of Students:727
Non-Recurring	Recurring	Non-Recurring	Recurring	Expenditure per Student
12800000	67200000	12629211	66303360	108573

Table 10.3a: Program specific budget allocation for CFY 2019-20

Table 10.3a1: Program specific budget allocation for CFY 2018-19

Total Budget: 86000000		Adequate Expe 31.03.19): 8	Total No of Students:784	
Non-Recurring	Recurring	Non- Recurring	Recurring	Expenditure per Student
13760000	72240000	13665434	71743526	108940

Total Budget:85000000		Adequate Expenditure (till 31.03.18) : 84687120		Total No of Students:810
Non- Recurring	Recurring	Non- Recurring	Recurring	Expenditure per Student
13600000	71400000	13549939	71137180	104552

### Table 10.3a2: Program specific budget allocation for CFY 2017-18

### Table 10.3a3: Program specific budget allocation for CFY 2016-17

Total Budget:76000000		Adequate Expenditure (till 31.03.17): 75241150		Total No of Students:850
Non- Recurring	Recurring	Non-Recurring	Recurring	Expenditure per Student
12160000	63840000	12038584	63202566	88519

I t m s	Budgeted in CFY	Actual expenses in CFY (31/03/20)	Budgeted in CFYm1	Actual expenses in CFYm1 (31/03/19)	Budgete d in CFYm2	Actual expenses in CFYm2 (31/03/18)	Budgeted in CFYm3	Actual expenses in CFYm3 (31/03/17)
La bor ato ry Eq uip me nt	1152000	1136629.022	1548000	1554443.072	731000	685965.672	782800	759935.615
Sof twa re	768000	757752.6816	1032000	1033448.416	484500	457310.448	524400	504115.705
La bor ato	1104000	1057696.451	980400	930957.664	765000	694434.384	524400	474019.245

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ry Co nsu ma ble s								
Ma int ena nce & spa res	5976000	5706824.883	8015200	7883247.008	6145500	6080535.216	4590400	4567137.805
R & D	1376000	1357640.221	1720000	1733801.888	1997500	2024022.168	1573200	1580064.15
Tr ain ing & Tr ave l	2752000	2446909.701	1565200	1520279.488	1530000	1422743.616	1307200	1459678.31
Mi scel lan eou s (Ite ms to be me nti one d)	66872000	66469118	71139200	70752782	73346500	73322109	66697600	65896199
Tot al	8000000	78932571	86000000	85408960	85000000	84687120	76000000	75241150

# Table 10.3b: Program specific budget and expenses for assessment years 2019-20, 2018 19,2017-18, 2016-17

### **10.3.1.:** Adequacy of Budget allocation (10)

(Program needs to justify that the budget allocated over the assessment years was adequate for the program)

Sl No	Assessment Year	Budget Allocated in Rs.	Actual Expenditure in Rs.	Percentage of Utilisation
1	CFY	8000000	78932571	Adequate
2	CFYm1	86000000	85408960	Adequate
3	CFYm2	85000000	84687120	Adequate
4	CFYm3	7600000	75241150	Adequate

#### 10.3.1.: Program budget and expenditure

**10.3.2.:** Utilisation of allocated funds (20)

(Program needs to state how the budget was utilised during the last three assessment years)

10.3.2.: Utilis:	ation of a	llocated funds
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Sl No	Assessment Year	Budget Allocated in Rs.	Actual Expenditure in Rs.	Percentage of Utilisation
1	CFY	8000000	78932571	98.66%
2	CFYm1	86000000	85408960	99.31%
3	CFYm2	85000000	84687120	99.63%
4	CFYm3	7600000	75241150	99%

### **10.4. Library and Internet (20)**

(Indicate whether zero deficiency report was received by the Institution for all the assessment years. Effective availability/purchase records and utilization of facilities/equipment etc. to be documented and demonstrated).

Digital Library Services	Yes
Availability of Digital Library Contents	Yes
Number of Courses	10
Number of eBooks	25589
Availability of Exclusive Server	Yes
Availability of Intranet /Internet	Yes
Availability of Exclusive Space/Room	Yes
Number of users per day	250
Digital Library is provided in the Central Library where students can access all kinds of e-journals	E-Journals Links Elsevier - https://www.sciencedire ct.com/ Taylor & Francis - http://www.tandfonline. com/ Springer Nature - http://link.springer.com/ Institution of Civil Engineers - https://www.ice.org.uk/ Emerald - https://www.emeraldins ight.com/ ASME - https://asmedigitalcolle ction.asme.org/journals E-Books Links

# **10.4.1.** Quality of Learning resources (hard/soft) (10)

	Electrica
	Elsevier -
	https://www.sciencedire
	<u>ct.com/</u>
	McGraw Hill Education
	-
	http://mcgrawhilleducat
	ion.pdn.ipublishcentral.
	<u>com/</u>
	Taylor & Francis -
	http://www.crcnetbase.c
	<u>om/</u>
	Springer Nature
	http://link.springer.com/
	New Age Publishers-
	https://digital.elib4u.co
	<u>m/</u>
	Doolst
	<u>https://prod.packtpub.co</u>
	<u>m/1n</u>
Video Course online	NPTEL
	NDLI
	GIAN
	National Knowledge
	Network
	Sarvajanika
	Granthalaya
	-

Students can access eBooks/journals using internet in the Library.

Ground Floor section of the Library is open 24 hours a day for utilization. They are spacious, well ventilated, having power sockets, lights & fans and Wi-Fi connectivity. The Digital Library, Video Conference Room, Reading Rooms are all located here. Lower level contains the Main Books Stock, Reference Section, Library Office and Photocopier Room.

Library has resources for Undergraduate, Postgraduate and PhD students.

Textbooks, Journals, Bound Volumes, Conference Proceedings, General Reference Material, Technical Magazines, Newspapers and CDs-DVDs are available for reference.

Library Services	Yes
Carpet Area of library (in m2)	4055 m2
Reading Space (in m2)	6703 m2
Nymber of seats Reading Space	450
Number users issue book per day	220
Number of users visits per day	600
Timings : Ground Floor	24/7, 365 days
Lower Level	8.00am – 6.30pm
Number of Library Staff	10
Number of Library staff with degree in Library	08
Management computerization for search, Indexing, Issue return record, Bar-coded	Yes
Library Additional Services	Institutional Repository
	Electronic Resources
	E-Portals
	Online Course(E-shikshana)
	Remote Access of e-resources
	Library App

# **10.4.2. Internet** (10)

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- Name of the Internet provider:
- BSNL and Jio Communication
- Available bandwidth:300 Mbps

- Wi-Fi availability: Yes
- Campus is Wi-Fi enabled
- About 40 access points are available in the campus
- Internet access in labs, classrooms, library and offices of all Departments: Yes
- Internet can be accessed in labs through Wi-Fi. Few systems provided with internet connection.
- Wi-Fi at the corridors gives access to internet in the classrooms.
- Library has a designated browsing centre with about 50 systems having internet connection. Wi-Fi accessibility also available.
- Departments have designated systems with internet connection. Wi-Fi accessibility as well as Ethernet available.
- Security Arrangements: Yes
- Kaspersky internet security and Antivirus Protectioin is available across the institution.



Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC Accredited by NAAC with 'A' Grade, Accredited by NBA The Trust is a Recipient of Prestigious Rajyotsava State Award 2012 Conferred by the Government of Karnataka

# Declaration

The head of the institution needs to make a declaration as per the format given -

- I undertake that, the institution is well aware about the provisions in the NBA's accreditation manual concerned for this application, rules, regulations, notifications and NBA expert visit guidelines in force as on date and the institutes hall fully abide by them.
- It is submitted that information provided in this Self-Assessment Report is factually correct.
- I understand and agree that an appropriate disciplinary action against the Institute will be initiated by the NBA. In case, any false statement/information is observed during pre-visit, visit, post visit and subsequent to grant of accreditation.

Head of the Institute Name : Dr Manjunatha Designation: Principal

Principal New Horizon College of Engineering Outer Ring Road, Bellandur Post, Bangalore 560 103.

Place: Bengaluru Date: 01.10.2020

> NEW HORIZON KNOWLEDGE PARK, Ring Road, Bellandur Post, Bangalore - 560 103. India Tel : 080-6629 7777 Web : www.newhorizonindia.edu E-mail : registrar@newhorizonindia.edu

### Annexure 1

### (A)Program Outcomes (PO)

### **Engineering Graduates will be able to:**

1. **Engineering knowledge**: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

2. **Problem analysis**: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

3. **Design/development of solutions**: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the

public health and safety, and the cultural, societal, and environmental considerations.

4. **Conduct investigations of complex problems**: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

5. **Modern tool usage**: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations.

6. **The engineer and society**: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

7. Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

8. **Ethics**: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

9. **Individual and team work**: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

10. **Communication**: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

11. **Project management and finance**: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

**12. Life-long learning**: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

### (B) PROGRAM SPECIFIC OUTCOMES (PSOs)

### (Program should specify 2-4 program specific outcomes)

### **Engineering Graduates will be able to:**

1. Specify, fabricate, test, and operate various machines along with essential communications.

2.Analyse, design, develop, and implement the concepts of mechanical systems and processes towards product development.



# www.newhorizonindia.edu

# NEW HORIZON PUBLIC SCHOOL (SSLC - Established 1970)

(Formerly known as New Horizon English School) Email: principalnhps@newhorizonindia.edu Tel: +91-80-2526 1735

# NEW HORIZON PUBLIC SCHOOL (ICSE - Established 1982)

Email: principalnhps@newhorizonindia.edu Tel: +91-80-2526 1735

# NEW HORIZON COLLEGE OF EDUCATION (Established 1980)

Email: principalbed@newhorizonindia.edu Tel: +91-80-2526 1735

# NEW HORIZON PRE UNIVERSITY COLLEGE (Established 1982)

Email: principalnhpuc@newhorizonindia.edu Tel: +91-80-2542 9361

### NEW HORIZON COLLEGE (Established 1998)

Email: principalnhcm@newhorizonindia.edu principalnhck@newhorizonindia.edu Tel: +91-80-6629 7777 / +91-80-2542 9361

# NEW HORIZON COLLEGE OF ENGINEERING (Established 2001)

Email: principal@newhorizonindia.edu Tel: +91-80-6629 7777

# NEW HORIZON PRE PRIMARY TEACHERS TRAINING ACADEMY

(Established 2012) Email: principalbed@newhorizonindia.edu Tel: +91-80-2526 1735