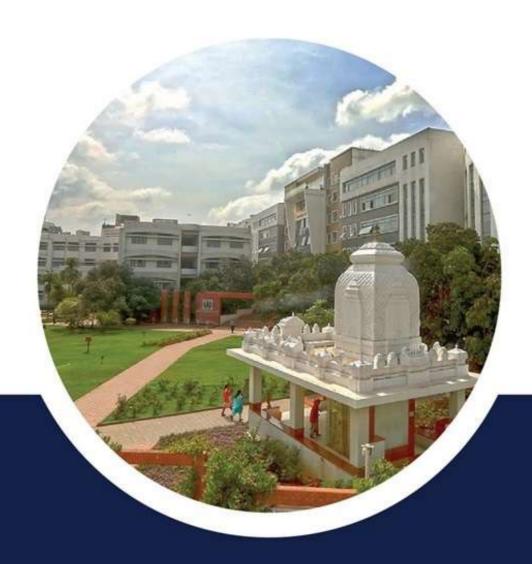


# DEPARTMENT OF MECHANICAL ENGINEERING



**NBA Compliance Report** 

# NATIONAL BOARD OF ACCREDITATION Compliance Report Format

(Tier – I/Tier – II)

<u>PART- A: Institutional Information</u>
(To be filled only once for all the programs under consideration)

A1. Name and Address of the College: - N	EW HORIZON COLLEGE OF ENGINEERING
City: Ring Road, Kadubisanahalli, Bellandur, Bengaluru Pin code: 560103	State: Karnataka
Phone No: 080-66297777	Fax: 080-28440770
Website:	E-mail:
https://newhorizonindia.edu/nhengineering/	principal@newhorizonindia.edu
A2. Year of Establishment: - 2001	
A3. First Approval Letter No.: FNo. 770-53-0	8 (NDEG)/ ET/2001, <b>Date:</b> 31/08/2001
A4. Head of the Institution: -	
Name: - Dr. Manjunatha	Designation: - Principal
Nature of Appointment: -Full Time, Since 2	011
Phone No: -080-66297777	Mobile: - +91 - 9901916000
E-mail:	Fax No: -080-28440770
principal@newhorizonindia.edu	
A5. Name and Address of the Affiliating Univ	versity: -
Visvesvaraya Technological University	
City: -Belagavi	
State: - Karnataka	Pin Code: 590018
Website: -www.vtu.ac.in	E-mail: -registrar@vtu.ac.in
Phone No: 0831-2498100	Fax: - 0831-2405467
A6. Type of the Institution:	
Institute of National	Autonomous
Importance University	*Any other (Please
·	specify)

Deemed University		
*Provide Details:		
A7. Ownership Status:		
Central Government		Trust
State Government		Society
Government Aided		Section 25 Company
Self-financing	$\sqrt{}$	*Any Other (Please
	<del></del>	specify)
11 D 11		

A8. Students Admissions (Institute level considering all UG programs):

Item	CAY 2023-24	CAYm1 2022 - 23	CAYm2 2021 – 22	Total
Sanctioned intake	1200	1140	1140	3480
Number of students admitted (Corresponding to sanctioned intake)	1200	1205	1131	3536
% of Students Admitted over last three ass Intake)	essment years	(Total Admitted	l/Sanctioned	100

Kindly note that the year mentioned here is exemplary, institute has to consider the academic years as per the definition of CAY given in the document and according to the prevailing year.

#### **Table A8**

**CAY: Current Academic Year** 

**CAYm1:** Current Academic Year minus 1 = Current Assessment Year

**CAYm2:** Current Academic Year minus 2 = Current Assessment Year minus 1

A9. Details of the Students actually admitted through Lateral Entry/Separate Division

Item	CAY (2023 - 24)	CAYm1 (2022 – 23)	CAYm2 (2021-22)
Number of students admitted through Lateral Entry	-	116	110
Number of students admitted through Separate Division	-	-	-
Total Number of students admitted in the second year	1159	1120	1187

Note: Provide student details of the second shift (if applicable)

<sup>\*</sup>Provide Details:

# A10. Provide separate Information for each of the program(s) for which compliance is to be submitted

Name of the Department	Name of the Program being offered	Name of the program to be considered	Year of start	Intake	Increase in Intake, if any	Year of Increase	AICTE Approval	Accreditatio n Status*
				60	-	NA	F.No.770-53- 278(E)/ET/200 1/Dated:30-04- 2003	
				120	YES, 60	2010- 2011	F.No. South- West/1- 436322181/201 1/EOA/Dated:0 1-09-2011	
Mechanical Engineering	BE in Mechanical Engineering	B.E in Mechanical Engineering	2003- 04	180	YES, 60	2013 - 2014	F.No. South- West /1- 1433602784/20 13/EOA Dated:19-03- 2013	Yes Granted Provisional Accreditation for three years up to 30-06-
				120	60, (Redu ction)	2021- 2022	F.No. South- West /1- 9322469979/20 21/EOA Dated:07-06- 2021	2024 under Tier-1
				60	60, (Redu ction)	2022- 2023	F.No. South- West /1- 10970214483/2 022/EOA Dated:08-06- 2022	

#### Write applicable one:

- 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

# **PART B- Program Information**

B1. Name of the Program: B.E in Mechanical Engineering

# **B2.** Faculty Information and Contributions

List of faculty in the department as per the format is given in Appendix I FACULTY INFORMATION (CAY-2023-24)

SL No	Name	PAN No.	Qualification	Area of Specialization	Designation	Date of joining	Date on which designated as professor / associate professor	Currently associated (Yes / No)	Nature of association (Regular/Contract/Adj unct)	If contractual mention	Date of Leaving (In case currently
1	Dr. Manjunatha	AELPM 2838P	ME/M. Tech and PhD	Mechanical Engineering	Professor and Principal	25-08- 2003	01-08- 2008	Yes	Regul ar	-	NA
2	Dr. Priyabrata Adhikary	AGVPA 3504G	ME/M. Tech and PhD	Renewable Energy & Turbo machine, RAC, FM	Professor and Head	17-07- 2017	01-08- 2018	Yes	Regul ar	-	NA
3	Dr. Piyush Kumar Soni	CLTPS9 045M	ME/M. Tech and PhD	Mechanical Engineering	Professor	22-11- 2022	NA	Yes	Regul ar	-	NA
4	Dr. Nagendra J	AJMPJ8 749E	ME/M. Tech and PhD	Mechanical Engineering	Associate Professor	25-07- 2011	01-08- 2019	Yes	Regul ar	-	NA
5	Dr. Srinath M K	CEMPS 7308D	ME/M. Tech and PhD	Mechanical Engineering	Associate Professor	25-07- 2011	01-08- 2019	Yes	Regul ar	-	NA
6	Dr. Sujin Jose	CPLPS5 622E	ME/M. Tech and PhD	Engg. Materials	Associate Professor	27-08- 2018	27-08- 2018	Yes	Regul ar	-	NA
7	Dr. Gopal K	BESPG 1902A	ME/M. Tech and PhD	I.C.engines, Combustion, Alternative Fuels, Optimization, Thermal Science, Renewable energy	Associate Professor	20-08- 2018	20-08- 2018	Yes	Regul ar	-	NA
8	Dr.Hemanth Raju	BACPR 0693F	ME/M. Tech and PhD	Mechanical Engineering	Associate Professor	26-07- 2010	01-08- 2019	Yes	Regul ar	-	NA
9	Dr. Bopanna . K. D	AQRPB 9187G	ME/M. Tech and PhD	Computer Integrated Manufacturing	Assistant Professor	25-07- 2012	NA	Yes	Regul ar	-	NA
10	Dr. Sudarshan T A	BGNPA 1241D	ME/M. Tech and PhD	Thermal Science and Engineering	Assistant Professor	25-07- 2012	NA	Yes	Regul ar	-	NA

11	Dr. Veeresha G	AOSPV 9206P	ME/M. Tech and PhD	Machine design	Assistant Professor	25-07- 2012	NA	Yes	Regul ar	-	NA
12	Dr. Nagabhusha na Narasappa	AGJPN 7478A	ME/M. Tech and PhD	Manufacturin g	Assistant Professor	25-07- 2012	NA	Yes	Regul ar	-	NA
13	Dr. Jayasheel Kumar K A	CEJPK2 492F	ME/M. Tech and PhD	Manufacturin g	Assistant Professor	15-07- 2013	NA	Yes	Regul ar	1	NA
14	Dr. Gayatri Tanuja	ALEPG 7720J	ME/M. Tech and PhD	Mechanical Engineering	Assistant Professor	31-07- 2022	NA	Yes	Regul ar	-	NA
15	Raghu Tilak Reddy Maramreddy	AOEPM 9076J	M.E/M.Tech	Computer Integrated Manufacturin	Assistant Professor	26-07- 2010	NA	Yes	Regul ar	-	NA
16	Ravikumar M.	BOIPM 6416H	M.E/M.Tech	Thermal Sciences	Assistant Professor	25-07- 2011	NA	Yes	Regul ar	ı	NA
17	Shivaprakas h S	CBVPS 8802C	M.E/M.Tech	Tool Engineering	Assistant Professor	25-07- 2011	NA	Yes	Regul ar	1	NA
18	Rakesh C	ATDPC 3939N	M.E/M.Tech	Mechanical Engineering	Assistant Professor	27-07- 2011	NA	Yes	Regul ar	-	NA
19	Hanamant Yaragudri	ADAPY 4102G	M.E/M.Tech	Machine Design	Assistant Professor	25-07- 2012	NA	Yes	Regul ar	ı	NA
20	Smitha B S	BYSPS 6107F	ME/M.TEC H	Product Data Management	Assistant Professor	27-08- 2012	NA	Yes	Regul ar	ı	NA
21	Sunil Prashanth Kumar	DEFPK 6851H	M.E/M.Tech	Mechanical Engineering	Assistant Professor	20-07- 2015	NA	Yes	Regul ar	1	NA
22	Gowtham Raj R	BJSPR5 491Q	ME/M.TEC H	Product design and manufacturin g	Assistant Professor	31-07- 2022	NA	Yes	Regul ar	1	NA
23	Manjesh B C	AVAP M9044 R	M.E/M.Tech	Thermal power Engineering	Assistant Professor	16-08- 2010	NA	Yes	Regul ar	-	NA
24	Vinay D R	AHEPV 4106H	M.E/M.Tech	Design Engineering	Assistant Professor	02-08- 2017	NA	Yes	Regul ar	-	NA
25	Chetan Kumar D S	AHPPC 4423K	M.E/M.Tech	Machine design	Assistant Professor	24-07- 2013	NA	Yes	Regul ar	-	NA
26	Sujeeth Swamy	DHUPS 8030J	M.E/M.Tech	Computer Integrated Manufacturing	Assistant Professor	21-07- 2014	NA	Yes	Regul ar	-	NA
27	Rajesh A	ASUPA 2633F	M.E/M.Tech	Aeronautical engineering	Assistant Professor	24-07- 2013	NA	Yes	Regul ar	-	NA

#### B.2.1. Student Faculty Ratio (No of Faculty as per the sanctioned intake):-

(To be calculated at Department Level)

No. of UG Programs in the Department (n): 1

No. of PG Programs in the Department (n): 1

No. of PG Programs in the Department (m): NA

No. of Students in UG 2<sup>nd</sup> Year= u1

No. of Students in UG 3<sup>rd</sup> Year= u2

No. of Students in UG 4<sup>th</sup> Year= u3

No. of Students in PG 1<sup>st</sup> Year= NA

No. of Students in PG 2<sup>nd</sup> Year= NA

#### No. of Students = Sanctioned Intake + Actual admitted lateral students

(The above data to be provided considering all the UG and PG programs of the department)

S=Number of Students in the Department = UG1 + UG2 + UG3 + PG1 + PG2

**F** = Total Number of Faculty Members in the Department (excluding first year faculty)

Student Faculty Ratio (SFR) = S / F

Year	CAY (2023-24)	CAYm1 (2022-23)	CAYm2 (2021-22)
u1.1	64	74	138
u1.2	74	138	197
u1.3	138	197	197
UG	276	409	532
p1.1	-	-	-
p1.2	-	-	-
PG			
Total No. of Students	S1 = 276	S2 = 409	S3= 532
in the Department (S)			
No. of Faculty in the	F1=19	F2= 20	F3=31
Department (F)			
Student Faculty Ratio	SFR1= 14.53	SFR2= 20.45	SFR3=17.16
(SFR)			
Average SFR	SFR=(SFR1	+SFR2+SFR3)/3	17.38

#### **B2.2.** Faculty Details of the Department (UG + PG)

S1 .	Designation		CAY m1			CAY	
No.							
			2022-23	1		2023-24	T
		Witl	With PhD With PhD			PhD	
				Witho			Without
		Regular	Contractu	ut	Regular	Contract	PhD
			al	PhD		ual	
a.	Professors	3	-	-	3	-	-
b.							
	Associate Professors	6	-	-	5	-	-
c.	Assistant Professors		_			_	
		4	_	15	6		13
d.	Total Number of					•	
	Faculty in the		28		27		
	Department(UG + PG)						

#### **B2.3. 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 B2.1

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 B2.1

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 B2.1

Year	Professors		Associate Pro	ofessors	Assistant Pro	ssistant Professors	
	Required	Available	Required	Available	Required	Available	
	F1		F2		F3		
CAY	2	3	3	5	9	19	
CAYm1	2	3	5	6	14	19	
CAYm2	3	3	6	7	18	21	
Average	2	3	5	6	14	20	
Numbers							

# B 2.4 Faculty as participants in Faculty development/training activities/STTPs

Name of the Faculty	(Faculty development/Training activities/STTPs)				
	CAY m1	CAYm2	CAYm3		
	2022-23	2021-22	2020-21		
Shivaprakash S	13	7	16		
Dr. Gopal K	4	10	6		
Chetan Kumar D S	1	6	4		
Dr. Hemanth Raju T	3	3	7		
Dr. Nagendra J	3	1	7		
Dr. Shridhar Kurse	2	2	1		
Dr. Priyabrata Adhikary	1	1	1		
Dr. Srinath M K	2	2	2		
Dr. Puneeth H V	-	1	1		
Dr. Ashok Kumar	2	1	1		
Dr. Sujin Jose	2	2	2		
Raghu Tilak Reddy Maramreddy	2	3	1		
Ravikumar M.	3	3	5		
Rakesh Chandrashekar	3	3	4		
Dr. Bopanna . K. D	2	2	2		
Hanamant Yaragudri	2	2	4		
Dr. Nagabhushana Narasappa	2	2	1		
Smitha B S	2	2	2		
Jayasheel Kumar K A	1	2	1		
Sunil Prashanth Kumar S	1	3	-		
Vinay D R	1	2	1		
Manjesh B C	1	3	2		
Dr. Sudarshan T A	3	1	1		
Dr. Veeresha G	1	1	3		
Rajesh A	1	3	4		
Sujeeth Swami	1	1	1		

#### **B 2.5. Research and Development**

S1.		Academic Research						
No.		Number of	quality publications in	Ph.D. guid	led/Ph.D.			
		refereed/S0	CI Journals, Citations,	Awarded during the				
		Books, Boo	ok Chapters	assessmen	t period while			
	Name of the Faculty			working in	the institute			
		As	After evaluation (till date	As	After			
		provided	of compliance report)	provided	evaluation			
		in SAR		in SAR	(till date of			
					compliance			
					report)			
1	Dr. Gopal K	08	Journal-21, Citation-1150		02			
2	Dr. Priyabrata Adhikary	06	Journal-07, Citation-496					
3	Dr. Manjunatha	4	Journal-13, Citation-10	01	04			
4	Dr. Nagendra J	06	Journal-13, Citation-115					
5	Dr. Srinath M K	07	Journal-15, Citation-114		02			
6	Dr. Puneeth H V	06	Journal-03, Citation-40					
7	Dr. Ashok Kumar	06	Journal-11, Citation-157					
8	Dr. Sujin Jose	05	Journal-12, Citation-139		01			
9	Dr. Hemanth Raju T	07	Journal-12, Citation-97					
10	Raghu Tilak Reddy Maramreddy	05	Journal-03					
11	Ravi kumar M.	06	Journal-08, Citation-07					
12	Shivaprakash S	06	Journal-04, Citation-33					
13	Rakesh Chandrashekar	02	Journal-10, Citation-37					
14	Dr. Bopanna . K. D	04	Journal-07, Citation-07					
15	Hanamant Yaragudri	08	Journal-03, Citation-03					
16	Dr. Nagabhushana Narasappa	10	Journal-06, Citation-39					
17	Smitha B S	06	Journal-04, Citation-17					
18	Jayasheel Kumar K A	07	Journal-04, Citation-08					
19	Chetan Kumar D S	06	Journal-04					
20	Sunil Prashanth Kumar S	05	Journal-04, Citation-09					
21	Vinay D R	05	Journal-01, Citation-12					
22	Manjesh B C	04	Journal-01					
23	Dr. Sudarshan T A	07	Journal-05, Citation-01					
24	Dr. Veeresha G	08	Journal-05, Citation-16					
25	Rajesh A	12	Journal-03, Citation-178					
26	Sujeeth Swami	02	Journal-09, Citation-11					
27	Dr. Gayatri Tanuja Guddla	-	Journal-04, Citation-16					
28	Gowtham Raj R	-	Journal-04, Citation-05					

#### **B2.6.** Sponsored Research/Consultancy

(B) Details as provided in the SAR previously

tails as provided in the Name of	Project Title	Project Type	Funding	Amount	Duration
the faculty		Research/	Agency		
·		Consultancy			
Mr. Vinod	Design And Fabrication Of Human	Research	KSCST	Rs. 8,000/-	3 months
Kumar G	Exoskeleton To Achieve Ease During	project			
S	Movement				
Prof.	To Design And Fabricate A Machine	Research	KSCST	Rs. 7,000/-	3 months
Kamalashish	To Clean The Slope Surfaces In Step	project			
Deb	Farming With Proper Finish.				
Prof. Vinay D R	Design And Fabrication Of Solar	Research	KSCST	Rs. 7,000/-	3 months
	Powered Floating Waste Collector	project			
Prof. Ronald	Insulin Storage Freezer Using	Research	KSCST	Rs. 6,000/-	3 months
Reagon	Thermoelectric Devices And Water	project			
	Cooling				
Mr. Karthik S.N	Effect Of Heat Treatment On	Research	KSCST	Rs. 6,000/-	3 months
	Mechanical Properties Of Cu30ni5zn	project			
	(Copper, Nickel (30%) And Zinc (5%)				
	Alloys				
Prof.	Design And Fabrication Of	Research	KSCST	Rs. 6,500/-	3 months
Pavan.P.Kadole	Multipurpose Machine For	project			
	Agricultural Purpose				
Mr. Hanamath Y	Design And Fabrication Of Automatic	Research	KSCST	Rs. 6,000/-	3 months
	Vacuum Operated	project			
	Chalk Dust Collector.				
Prof. Raghu	Fabrication Of 3 Axis Pneumatic	Research	KSCST	Rs. 6,000/-	3 months
Tilak Reddy M.	Trailer Lift	project	****	7 7 000/	
Prof. Chetan	Design And Fabrication Of Sepration	Research	KSCST	Rs. 5,000/-	3 months
Kumar	Of Waste Garbage	project			
D.S.	Using Smart Crusher	D 1	Wa Cam	D 6000/	0 .1
Mr. Manjesh	Hybrid Solar Windmill	Research	KSCST	Rs. 6,000/-	3 months
D C XI 1		project	Magan	D 7.000/	2 4
Prof. Veeresha	Fabrication Of Automatic	Research	KSCST	Rs. 7,000/-	3 months
G.	Sewage Cleaning Machine	project	VCCCT	D = 5.500/	2 41
Mr. Puneeth H V	Design, Analysis And Rapid	Research	KSCST	Rs. 5,500/-	3 months
	Prototyping Of Instrumentation Probe For Aero Engine Application	project			
Drof Donoung V	<u> </u>	Dagaamah	ИСССТ	Do 6 000/	2 months
Prof. Bopanna K D	Design And Utilization Of Solar Induced Convective Flow For Power	Research project	KSCST	Rs. 6,000/-	3 months
ען	Generation Using Solar Updraft Tower	project			
Dr. Kanapathy	Development Of "Single Card	Research	Itca,	Rs.	2.5 Years
Gopalakrishnan	Satellite-Bus (Sics-B)": 10 Cm X10	project	Unisec	5,00,000/-	2.3 1 cars
Oopaiakiisiilali	Cm (Timeline: 30 Months). Indo-Israel	project	India,	3,00,000/-	
	Joint Development(Mech: Design		Drl, Tsc		
	And Development Of Satellite		P Ltd		
	This Development of Saterific		1 Lu	<u> </u>	

Dr. Kamapathy Gopalakrishnan  Design And Development Of Cubesat Cunisee India, (Mech: Design And Development Under Unisee India, (Mech: Design And Development Under Unisee India, (Mech: Design And Development Of Satellite Monolithe Structure, Machining, Orbital Mechanics-Calculation- Simulation  Dr. M.S. Agumenting The Life Of Polymer Gancsha Material Used In 3D Printers By Using Reinforced Polymer Material In FDM Technology Pros. Boyama K Design And Fabrication Of An Artificial Leg Mechanism For Above Knee Amputees  Mr. Sujeeth Solar Operated Water Purilication Unit Solar Operated Water Purilication Unit Prof. Vinayak B Design And Fabrication Of Ar Tadpole Model Solar Powered Tricycle  Prof. Vinayak B Design And Development Of Human Arm Exoskeleton  Dr. M. S. Ganesh Prasad  Mr. Kumalasish Deh Deh Deh Deh Deh Deh Deh Deh Design And Fabrication Of The Canacase Lubricant And Perform Exhaust Gas Analysis For The Same  Prof. Lakshmanu Naik Design And Fabrication Of Machine Conhustion Properties Of Fuel Bright Engine  Mr. Kumalasish Deh Deh Design And Fabrication Of Machine Conhustion Properties Of Engine  Mr. Kumalasish Deh Deh Design And Fabrication Of Machine Conhustion Properties Of Engine  Mr. Kumalasish Design And Fabrication Of Machine Conhustion Properties Of Engine  Mr. Kumalasish Deh Deh Design And Fabrication Of Machine Conhustion Properties Of Engine  Mr. Kumalasish Design And Fabrication Of Machine Conhustion Properties Of Engine  Mr. Kumalasish Design And Fabrication Of Machine Conhustion Properties Of Engine  Mr. Kumalasish Design And Fabrication Of Machine Conhustion Properties Of Engine  Mr. Kumapathy Design And Pobreath Office Properties And Elects Of Different Blends Of Biodiesel On Conhustion Properties Of Fuel Briquete From Pongania And N Glycerim Mixing Different Binders Dr. Kanapathy Design And Development Of Conpalakrishnan Poscipalakrishnan Design And Development Of Conpalakrishnan Congalakrishnan Congalakrishnan Congalakrishnan Design And Development Of Congalakrishnan Congalakrishnan Conga		Monolithic Structure, Machining,		1		
Dr. Kanapathy Gopalakrishnan   Design And Development Of Cubesat 2: Adsb Including Launch Cost; Indo-Israel Joint Development Under Unisce India, Mechanics-Calculation—Simulation   Dr. M.S. Agumenting The Life Of Polymer Material In FDM Mechanics-Calculation—Simulation   PLtd Material Used In 3D Printers By Using Reinforced Polymer Material In FDM Research Project   Research Project Pros. Agumenting The Life Of Polymer Material In FDM Reinforced Polymer Material In FDM Reinforced Polymer Material In FDM Artificial Leg Mechanism For Above Knee Amputees   Prof. Bopanna K Design And Fabrication Of An Artificial Leg Mechanism For Above Knee Amputees   Design And Fabrication Of Portable Solar Operated Water Purification Unit Prof. Vinoyak B Design And Fabrication Of A Tadapole Model Solar Powered Tricycle   Design And Development Of Human Arm Exoskeleton   Pros. Machanisms   Prosecutive Properties And Alcohol As An Alternative Fuel For Gasoline Engine   Prof. Liashmana   Arm Exoskeleton   Properties And Effects Of Different Blends Of Biodiesel On Crankcuse Lubricant And Perform Exhaust Gas Analysis For The Same   Prof. Liashminarism   Design And Fabrication Of Machine Properties And Effects Of Different Blends Of Biodiesel On Crankcuse Lubricant And Perform Exhaust Gas Malysis For The Same   Project   Projec						
Gopalakrishnan   2u; Adsb Including Launch Cost; Indo-Israel Joint Development Of Satellite Monolithic Structure, Machining, Orbital Mechanics-Calculation-Simulation Material Used In 3D Printers By Using Reinforced Polymer Material In FDM Technology   Prof. Nagendra Smulton Challenged People   Prof. Bagendra Sparam   Challenged People   Prof. Bagendra Solar Operated Water Purification Unit Solar Operated Water Purification Unit Solar Operated Water Purification Unit Tricycle   Prof. Vinod Design And Development Of Human Ammara (Alcohol As An Alternative Fuel For Gasoline Engine   Alcohol As An Alternative Fuel For Gasoline Engine   Prof. Elashmana (Alcohol As An Alternative Fuel For Gasoline Engine   Prof. Elashmana (Alcohol As An Alternative Fuel For Gasoline Engine   Prof. Lakshmana (Basous Fuel Production Mr. Combustion On Physical And Cascous Fuel Properties Of Fuel Brisada (Alcohol As An Alternative Fuel For Gasoline Engine   Prof. Lakshmana (Basous Fuel Properties Of Fuel Brisada (Basous Fuel Prof.) Pr		Simulation)				
Israel Joint Development Under Under Under Unisee India, (Mech: Design And Development Of Satellie Monolithic Structure, Machining, Mechanics-Calculation—Simulation   Dr. M.S. Agumenting The Life Of Polymer Research Simulation   Material Used In 3D Printers By Using Prasad   Reinforced Polymer Material In FDM Technology   Research Prof. Nagendra   Research Prof. Nagendra   Research Prof. Ropanna K   Design And Fabrication Of An Artificial Leg Mechanism For Above Knee Amputees   Mr. Sujeeth   Design And Fabrication Of Portable Swami   Solar Operated Water Purification Unit Prof. Vinayak B   Design And Fabrication Of A Tadpole Model Solar Powered Tricycle   Prof. Vinod   Design And Fabrication Of Human Art Exoskeleton   Prof. Vinod And An An An An An An An Exoskeleton   Research Project Prof. Standard Anderol As An Alternative Fuel For Gasoline Engine   Mr. Kamalasish   A Comparative Study Of Acetylene And Alcohol As An Alternative Fuel For Gasoline Engine   Prof. Lakshmana   Design And Fabrication Of Machine Properties And Effects Of Different Blends Of Biodiesel On Crankcase Lubricant And Perform Exhaust Gas Analysis For The Same   Project Sas Analysis For The S	Dr. Kanapathy	Design And Development Of Cubesat	Research	Itca,	Rs.	2.5 Years
Unisce India.(Mech: Design And Development Of Satellite Monolithic Structure, Machining, Orbital Mechanics-Calculation-Simulation  Dr. M.S. Agumenting The Life Of Polymer Ganesha Material Used In 3D Printers By Using Reinforced Polymer Material In FDM Technology  Prof. Nagendra Smart Conveyance For Physically Agaram Challenged People Challenged People Prof. Polymer Material In FDM Artificial Leg Mechanism For Above Knee Amputess  Mr. Sutjeeth Design And Fabrication Of An Artificial Leg Mechanism For Above Knee Amputess  Mr. Sutjeeth Design And Fabrication Of Portable Swami Solar Operated Water Purification Unit Prof. Vinod Design And Fabrication Of An Artificial Leg Mechanism For Above Knee Amputess  Dr. M S Ganesh Prof. Vinod Design And Fabrication Of An Art Exoskelcton GS  Dr. M S Ganesh Arm Exoskelcton  Mr. Kamalaish Deb Mechanism For Above Caption Mechanism For Mechan	Gopalakrishnan	2u; Adsb Including Launch Cost; Indo-	project	Unisec	5,00,000/-	
Development Of Satellite Monolithic Structure, Machining, Orbital Mechanics-Calculation-Simulation		Israel Joint Development Under		India,		
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Gopalakrishnan     Pocketqube Satellite: Testing And Validation 4 Variants     project     ogies P Ltd       Dr. Kanapathy     Design And Development Of Gopalakrishnan     Research Tsc Technol Rs.3,50,000/- 6 months project     Tsc Technol Rs.3,50,000/- 6 months ogies P Ltd       Dr. Kanapathy     Unitysat/Slimsat 0.33u Satellite Research     Tsc Rs.3,00,000/- 2 Years		· ·		Tsc Technol		6 months
And Validation 4 Variants  Dr. Kanapathy Gopalakrishnan  Cansat/Rocketry 4 Variants-Prototype Dr. Kanapathy Unitysat/Slimsat  Dr. Kanapathy Unitysat/Slimsat  Dr. Kanapathy  Dr. Kanapathy  Cansat/Rocketry 4 Variants-Prototype Dr. Kanapathy  Dr. Kanapathy  Dr. Kanapathy  Dr. Kanapathy  Cansat/Rocketry 4 Variants-Prototype Dr. Kanapathy					, , , , , , , , , , , , , , , , , , , ,	
Dr. Kanapathy Gopalakrishnan  Cansat/Rocketry 4 Variants-Prototype Dr. Kanapathy Unitysat/Slimsat  Design And Development Of Research project project Ogies P Ltd  Rs.3,50,000/- 6 months ogies P Ltd  Tsc Technol Rs.3,50,000/- 6 months roject Project Rs.3,00,000/- 2 Years		1				
GopalakrishnanCansat/Rocketry 4 Variants-Prototypeprojectogies P LtdDr. KanapathyUnitysat/Slimsat0.33uSatelliteResearchTscRs.3,00,000/-2 Years	Dr. Kanapathy		Research	Tsc Technol	Rs.3,50,000/-	6 months
Dr. Kanapathy Unitysat/Slimsat 0.33u Satellite Research Tsc Rs.3,00,000/- 2 Years		1	project			
				_	Rs.3,00,000/-	2 Years
		=	project	Technol		

	Qualification Testing & Flight Model)		ogies P		
	X 3 =1u With Deployer For Itca		Ltd		
	Consortium/Cspd Serbia And Unisec				
	India: (Mech: Design				
	And Development Of Satellite				
	Monolithic Structure, Machining,				
	Orbital Mechanics-Calculation-				
	Simulation)				
Dr. Kanapathy	Design And Development Of	Research	Tsc	Rs.4,00,000/-	2 Years
Gopalakrishnan	Cubesat 2u; Adsb Including Launch	project	Technol		
	Cost; Indo-Israel Joint		ogies P		
	Development Under Unisec		Ltd		
	India.(Mech: Design And				
	Development Of Satellite				
	Monolithic Structure, Machining,				
	Orbital Mechanics-Calculation-				
Dr. M S Ganesha	Simulation)	Research	Vacan	Do 5 000/	2
Dr. M S Ganesha Prasad,	Design And Optimization Of Water Tanker For Reducing The Spillage		KSCST	Rs. 5,000/-	3 months
Prasau,	Under Dynamic Conditions	project			
Prof. Kadole	Portable Water Turbine	Research	KSCST	Rs. 5,000/-	3 months
Pavan	rottable water ruibilie	project	KSCS1	Ks. 5,000/-	3 monuis
Prabhakar		project			
Prof. Sujeeth	Carbon - Di - Oxide Powered Solar	Research	KSCST	Rs. 5,000/-	3 months
Swami	Desalination Unit	project	RSCST	Ks. 5,000/-	3 monuis
Prof. Ronald	Improvisation Of Solar Portable All	Research	KSCST	Rs. 6,000/-	3 months
Reagon R	Terrain Wheelchair With Crank And	project	RSCST	143. 0,000/	3 months
Trougon It	Shaft Mechanism	project			
Prof. Srinath M	Hardness And Wear Analysis	Research	KSCST	Rs. 4,000/-	3 months
K,	Of DLC Coated Al alloy Plates	project		,	
	With And Without Heat Treatment				
Mr. Bopanna K	Enhancing The Life Of Portable	Research	KSCST	Rs. 4,000/-	3 months
D	Battery Using Fin Structure	project			
Dr. Kanapathy	Design Of Expandable Motion	Research	7dplus	Rs.	9 months
Gopalakrishnan	Simulator On Wheels	project	Network	9,25,000/-	
			Company		
Dr. Kanapathy	Design Of Cubesat Deployment	Research	7dplus	Rs.	6 months
Gopalakrishnan	Parachute AndTesting	project	Network	9,25,000/-	
			Company		
Dr.M.S. Ganesha	Enhancement of Productivity Studies	Consultancy	Pulse	Rs,	12 Months
Prasad		project	Sports	1,80,000/-	
Dr. Manjunatha			Private		
			Limited		
Dr.M.S. Ganesha	Enhancement of Productivity Studies	Consultancy	Sri Balaji	Rs. 50,000/-	3 Months
Prasad		project	Industries		
Dr. Manjunatha	TWINGS IN I	g :	ODERCO OF	D 10 000 '	2)/( :
Dr. P. Adhikary	HVAC Low side design	Consultancy project	OPTCOOL	Rs. 10,000/-	3 Months
Dr. Srinath. M.	Design and Validation	Consultancy	Deeksha	Rs. 50,000/-	6 Months
K., and		project	Enterprises		
Dr. Nagendra. J					
<u> </u>	I .	1	1	1	

Dr.M.S. Ganesha	Testing and Validation	Consultancy	Pulse	Rs. 90,000/-	6 Months
Prasad	Tosting and Variousion	project	Sports	165. 70,000/	O IVIOINIIS
Dr. Manjunatha		project	Private		
D1. Manjanama			Limited		
Dr.M.S. Ganesha	Enhancement of Productivity	Consultancy	Pulse Sports	Rs.	1 year
Prasad	Studies	project	Private	1,80,000/-	1 year
Dr. Manjunatha	Studies	project	Limited	1,00,000/-	
Dr.M.S. Ganesha	Testing and Evaluation	Consultancy	Sai	Rs. 25,000/-	1 Month
Prasad	resting and Evaluation	project	Enterprises	Ks. 25,000/-	1 Wionui
Dr. Manjunatha		project	Enterprises		
Dr.M.S. Ganesha	Enhancement of Productivity	Consultancy	Sri Balaji	Rs. 30,000/-	2 Months
Prasad	Studies	project	Indus	Ks. 50,000/-	2 Monuis
Dr. Manjunatha	Studies	project	ilidus		
Dr. Sridhar kurse	Feasibility Studies, Testing and	Consultancy	Hitesh	Rs. 50,000/-	3 Months
Dr.M.S. Ganesha	Evaluation	project	Creations	Ks. 50,000/-	5 Monuis
Prasad	Evaluation	project	Creations		
Dr. Manjunatha					
	E al adiana (Davia da Escaller	C 1	I. P. D. 1	D.	C
Dr.M.S. Ganesha	Evaluation of Projects; Feasibility	Consultancy	Indian Bank	Rs.	6 months
Prasad	Studies	project		1,00,000/-	
Dr. Manjunatha Dr. Sheelan					
Misra	m .: 187 1:1 .:	C 1	361111	D 50,000/	2.14
Dr. P. Adhikary	Testing and Validation	Consultancy	Mahalakshmi	Rs. 50,000/-	3 Months
D 1/4 C 1	The state of the s	project	Timber	D 50,000/	234 4
Dr.M.S. Ganesha	Testing and Validation	Consultancy	Exotic	Rs. 50,000/-	3 Months
Prasad		project	Innovation		
			Private		
			Limited		
Dr. Manjunatha	Rapid Prototyping	Consultancy	Super Power	Rs. 5,000/-	3 Months
		project	Solutions		
Dr.M.S. Ganesha	Testing and Validation	Consultancy	Venkatesh-	Rs. 10,000/-	3 Months
Prasad		project	wara paper		
Dr. Manjunatha			mart		
Dr.M.S. Ganesha	Online Evaluation Tools	Consultancy	Edu Merge	Rs. 50,000/-	3 Months
Prasad		project			
Dr.M.S. Ganesha	Testing and Evaluation	Consultancy	Techser	Rs. 25,000/-	3 Months
Prasad		project	Power		
			solutions		
Dr. Manjunatha	Rapid Prototyping	Consultancy	K.S.R	Rs. 50,000/-	3 Months
		project	Ceramic		

Total Research Project Funds: Rs. 57, 85,853/-

**Total Consultancy Project Funds:** Rs. 10, 05,000/-

**Total Funds:** Rs. 67, 90,853/-

# (II) Details after evaluation (till the date of Compliance Report)

Name Of The Faculty	Project Title	Project Type Research/ Consultancy	Funding Agency	Amount	Duration
Dr.M.S. Ganesha Prasad	Electric Vehicle Charging Station	Research Project	KSCST	Rs. 6,000/-	3 Months
ProfRavi Kumar M.	Performance And Exhaust Analysis Of Ultrasonic Transesterified Blends Of Pongamia Oil With Biodiesel	Research Project	KSCST	Rs. 7,000/-	3 Months
Prof. Veeresh G	Design And Fabrication Of Cost Effective Agricultural Machine	Research Project	KSCST	Rs. 8,000/-	3 Months
Prof. M. Ragu Tilak Reddy	Design And Fabrication Of Plastic Extrusion Model	Research Project	KSCST	Rs. 5,000/-	3 Months
Prof. Megha Shukla	Kitchen Waste Water Harvesting	Research Project	KSCST	Rs. 6,000/-	3 Months
ProfRavi Kumar M. & Dr.M.S. Ganesha Prasad	Design & Performance Analysis Of Pv Solar Dryer For Retention Of Vital Nutrients In Fruits/Vegetables	Research Project	KSCST	Rs. 7,000/-	3 Months
Prof. Vinod Kumar G S	Fabrication Of Artificial Intelligence Solar Based Fire Fighting Agv	Research Project	KSCST	Rs. 6,000/-	3 Months
Dr. Hemanth Raju T	Development And Wear Characterization Of Al7075-Zircon Particulate Composites For Automotive Applications	Research Project	KSCST	Rs. 7,000/-	3 Months
Prof. Kemaparaju C. R	Design And Fabrication On Fin Tube Heat Exchanger	Research Project	KSCST	Rs. 7,000/-	3 Months
Prof. Vinay. D. R	Low-Cost, Eco Friendly Portable Water Filter	Research Project	KSCST	Rs. 6,000/-	3 Months
Prof. Chetan Kumar D. S	Electricity Generation By A Stirling Engine	Research Project	KSCST	Rs. 5,500/-	3 Months
Prof. Santosh. A. N. And Dr. K. Gopal	Design And Fabrication Of Bike Engine Holder	Research Project	KSCST	Rs. 4,000/-	3 Months
Dr. Hemanth Raju T	Evaluation Of Mechanical Properties Of Al6061-Al2o3-Zircon Hybrid Metal Matrix Components By Using Stir Casting Technique	Research Project	KSCST	Rs. 6,000/-	3 Months
Prof. Vinod Kumar G S	Automatic Metal Cutting Machine Using Geneva Mechanism	Research Project	KSCST	Rs. 7,000/-	3 Months
ProfRavi Kumar M	Performance And Emission Characteristics Of Piliostigma Thonningii Bio Diesel Powered Generator For Irrigation Purposes	Research Project	KSCST	Rs. 8,000/-	3 Months
Prof. Kemaparaju C. R	Sos Ring For Women's Safety Using Bluetooth Low Energy	Research Project	KSCST	Rs. 5,000/-	3 Months
Dr. Srinath. M. K	Tribological Studies Of Heat Treated Aluminium Silicon Alloy	Research Project	KSCST	Rs. 6,000/-	3 Months
Prof. Veeresh G	1 Design And Fabrication Of High Pressure Pipe Bending Tool	Research Project	KSCST	Rs. 7,000/-	3 Months
Prof. Hanamat. Y	Innovative Study Of Evaluation Of Physical And Mechanical Properties	Research Project	KSCST	Rs. 6,000/-	3 Months

	Of Polyethylene Based Wood				
	Plastic Composites				
ProfRavi Kumar M	Comparative Study On Tool Wear Prediction Based On Machine Learning Techniques.	Research Project	KSCST	Rs. 6,000/-	3 Months
Prof. Sudarshan. T. A	Study On Performance And Emission Characteristics Of Fenugreek Oil Blended With Diesel	Research Project	KSCST	Rs. 7,000/-	3 Months
Dr. Srinath. M. K	Analysis Of Aluminium 6082 Alloy With Sic Reinforcement	Research Project	KSCST	Rs. 4,000/-	3 Months
Prof. Sujeeth Swamy. S & Prof. Ravikumar. M	Multipurpose Solar Operated Iot Desalination System For Potable And Agriculture Uses	Research Project	KSCST	Rs. 7,000/-	3 Months
Prof. Ravikumar. M	Novel Drying Technique For Avoiding Food Spoilage	Research Project	KSCST	Rs. 7,000/-	3 Months
Prof. Rajesh. A	Vibration Analysis Of An Optimized Aircraft Wing	Research Project	KSCST	Rs. 7,000/-	3 Months
Prof. Karthik. S. N	Friction Stir Welding Of Dissimilar Metals And Its Characterization	Research Project	KSCST	Rs. 6,000/-	3 Months
Dr. Gayathri. T. G	Blind-Aid Spectacle For Visually Impaired People Using Deep Learning Algorithms And Face Recognition Techniques	Research Project	KSCST	Rs. 6,000/-	3 Months
Prof. Shiva Prakash. S	Developing A System To Prevent Accidents From Sleep Driving	Research Project	KSCST	Rs. 6,000/-	3 Months
Prof. Veeresha. G	Design And Fabrication Of Lake Water Cleaning System	Research Project	KSCST	Rs. 6,000/-	3 Months
Prof. Sujeeth Swamy	Blutooth Based Agrobot For Spraying Pesticides	Research Project	KSCST	Rs. 5,000/-	3 Months
Dr. Shridhar Kurse	Mechatronics And Development Of Unmanned Ground Vehicle For Millitary Purpose	Research Project	KSCST	Rs. 6,000/-	3 Months
Dr. Manjunatha Dr.Sridhar Kurse	Design Of Structure For Picosatellite: Testing And Validation 3 Variants	Research Project	TSC Technologies P Ltd	Rs.15,00,000 /-	6 Months
Dr. Manjunatha Dr.Sridhar Kurse	Design And Development Of Cubesat 3u; Adsb Including Launch Cost; Indo-Israel Joint Development Under UnisecIndia.(Mech: Design AndDevelopment Of Satellite Modular Structure,Machining, OrbitalMechanics-Calculation- Simulation	Research Project	TSC Technologies P Ltd	Rs. 8,00,000/-	2 Years
Dr. Manjunatha Dr.Sridhar Kurse	Integration Of Automation Panels And Sampling Systems	Research Project	Instrol W L L	Rs. 5,25,000	9 Months
Dr. Manjunatha Dr.Sridhar Kurse	Design And Development Of Cubesat 3u; Adsb Including Launch Cost; Indo-Israel Joint Development Under UnisecIndia.(Mech: Design AndDevelopment Of Satellite Modular Structure, Machining, OrbitalMechanics-Calculation- Simulation	Research Project	ITCA,Unisec India,Drl, TSC P Ltd	Rs.7,00,000/-	1 Year

Dr. Manjunatha Dr.Sridhar Kurse	Integration Of Automation Panels And Sampling Systems	Research Project	Instrol W L L	Rs.4,25,000/-	9 months
Dr. Manjunatha Dr.Sridhar Kurse	Phase 2 - Development Of " Dual CardSatellite-Bus (DICS-B)": 10Cm X10 Cm (Timeline: 24 Months). Indo-Israel Joint Development (Mech: Design And Development Of Satellite Modular Structure,Machining, Orbital Mechanics-Calculation-Simulation)	Research Project	ITCA,Unisec India,Drl, TSC P Ltd	Rs. 10,75,000/-	2 Years
Dr. Manjunatha Dr.Sridhar Kurse	Design And Development Of Cubesat 3u; Adsb Including Launch Cost; Indo-Israel Joint Development Under UnisecIndia.(Mech: Design AndDevelopment Of Satellite Modular Structure, Machining, Orbital Mechanics-Calculation- Simulation	Research Project	ITCA,Unisec India,Drl, TSC P Ltd	Rs. 5,25,000/-	1 Year
Dr. Srinath. M. K. and Dr. Manjunatha	Centre of Excellence for Bio- Mechanical Engineering Sciences	Research Project	VGST	Rs. 40,00,000/-	2 Years
Dr.Gopal K	AICTE - ATAL FDP, Govt. of India	Research Project	AICTE	Rs. 93,000/-	12 months
Dr. M. S. Ganesha Prasad	AICTE- STTP, Govt. of India	Research Project	AICTE	Rs. 3,53,000/-	12 Months
Dr. Ashok. Kumar	Characterization of Lubrication Oil	Consultancy Project	Eshwar Oils	Rs. 10,000/-	2 months
Dr. P. Adhikari	HVAC Design	Consultancy Project	ICON, Kolkata	Rs. 10,000/-	4 months
Dr. Sridhar Kurse	Product design	Consultancy Project	HVAC	Rs. 10,000/-	4 months
Dr. Sridhar Kurse	Lubrication Oil Characterization	Consultancy Project	Shri Ashutosh Auto Agency	Rs. 10,000/-	4 months
Dr. Sridhar Kurse	Skill Development Programme	Consultancy Project	Centre of Excellence Consultancy - Training and Development SAP	Rs. 90,000/-	2 months
Dr. Sridhar Kurse	Skill Development Programme	Consultancy Project	Centre of Excellence Consultancy - Training and	Rs. 104000	2 months
Dr. Sridhar Kurse	Skill Development Programme	Consultancy Project	Development IIOT	Rs. 90000	2 months
Dr. Sridhar Kurse	Skill Development Programme	Consultancy Project	Centre of Excellence Consultancy - Training and	Rs. 110000	2 months
Dr. Sridhar Kurse	Skill Development Programme	Consultancy Project	Development IIOT	Rs. 120000	2 months

Dr. Sridhar Kurse	Skill Development Programme	Consultancy Project	Centre of Excellence Consultancy - Training and	Rs. 80000	2 months
Dr. Sridhar Kurse	Skill Development Programme	Consultancy Project	Development IIOT	Rs. 47200	2 months
Dr. Sridhar Kurse	Skill Development Programme	Consultancy Project	Centre of Excellence Consultancy - Training and	Rs. 126000	2 months
Dr. Sridhar Kurse	ANSYS CFX Certification Training	Consultancy Project	M/s SKYFI Education Labs Pvt.Ltd.	Rs. 1,05,000/-	2 months
Dr. Sridhar Kurse	ANSYS CFX Certification Training	Consultancy Project	M/s SKYFI Education Labs Pvt.Ltd	Rs.75,600/-	2 months
Dr. P. Adhikari	Green Auditing	Consultancy Project	M/s ECO emergime Engineers LLP	Rs.60,300/-	2 months
Dr. P. Adhikari	Green Auditing	Consultancy Project	M/s ECO emergime Engineers LLP	Rs. 40,000/-	2 months
Dr.Nagendra J	Design of Elevator Structure	Consultancy Project	OTIS Elevator Company(I) Ltd.	Rs. 68,592/-	2 months
Dr.Nagendra J	Design of Elevator Structure	Consultancy Project	OTIS Elevator Company(I) Ltd.	Rs.45,262/-	2 months

**Total Research Project Funds:** Rs. 1,01,88,500/-**Total Consultancy Project Funds:** Rs. 12,01,954/-

**Total Funds:** Rs. 1,13,90,454/-

## **B.3. Student's Performance**

Student Intake Table

Item				
(Information to be provided cumulatively	CAY	CAY m1	CAY m2	CAY m3
for all the shifts with explicit headings,	(2023-24)	(2022-23)	(2021 - 22)	(2020-21)
wherever applicable)				

Sanctioned intake of the program (N)	60	60	120	180
Total number of students admitted in first year minus number of students migrated to other programs/institutions plus no. of students migrated to this program (N1)	40	44	62	83
Number of students admitted in 2 <sup>nd</sup> year in the same batch via lateral entry (N2)	-	4	14	18
Separate division students, if applicable (N3)	-	-	-	-
Total number of students admitted in the program( N1+N2+N3 )	40	48	76	101

#### **Academic Performance Table\*-**

Year of entry	<i>N</i> 1 + <i>N</i> 2 + <i>N</i> 3 (As defined above)	Number of students who have successfully graduated in stipulated period of study)			
	(ris defined above)	I Year	II Year	III Year	IV Year
CAY (2023-24)	40				
CAY m1(2022-23)	48	44			
CAYm2 (2021-22)	76	62	73		
CAYm3 (2020-21)	101	83	97	94	
CAYm4 (LYG) (2019-20)	155	138	153	145	127
CAYm5 (LYGm1) (2018- 19)	204	184	191	189	181
CAYm6 (LYGm2) (2017- 18)	231	192	181	181	173

## B3.1. Success rate without backlog in stipulated period

 $SI=(Number\ of\ students\ who\ graduated\ from\ the\ program\ without\ backlog\ in\ the\ stipulated\ period\ of\ course\ duration)/(Number\ of\ students\ admitted\ in\ the\ first\ year\ of\ that\ batch\ and\ admitted\ in\ 2^{nd}\ year$ 

via lateral entry and separate division, if applicable)

Item	Latest Year of Graduation, LYG (2022 - 23)	Latest Year of Graduation minus 1, LYGm1 (2021 -22)	Latest Year of Graduation minus 2, LYGm2 (2020 - 21)
Number of students admitted in the corresponding First Year + admitted in 2 <sup>nd</sup> year via lateral entry separate division, if applicable.	186	204	231
Number of students who have graduated without backlogs in the stipulated period		104	110
Success Index (SI)	0.39	0.51	0.48
Average Success Index		0.46	

#### **B3.2.** Success rate with backlog in stipulated period of study

SI=(Number of students who graduated from the program with backlog in the stipulated period of course duration)/(Number of students admitted in the first year of that batch and admitted in 2<sup>nd</sup>year via lateral entry and separate division, if applicable)

Item	LYG (CAYm4) (2022 -23)	LYG <i>m</i> 1(CAYm5) ( <b>2021 - 22</b> )	LYGm2 (CAYm6) ( <b>2020 - 21</b> )
Number of students admitted in the corresponding First Year + admitted in 2nd year via lateral entry and separate division, if applicable.	186	204	231
Number of students who have graduated with backlogs in the stipulated period.	127	181	173
Success Index (SI)	0.68	0.89	0.75
Average Success Index		0.77	

#### **B3.3. First Year Academic Performance**

Academic Performance = ((Mean of  $1^{st}$ Year 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.

Academic Performance	CAYm1 (2022 -23)	CAYm2 (2021 -22)	CAYm3 (2020 - 21)
Mean of CGPA or Mean Percentage of all successful students (X)	7.92	6.98	7.05
Total no. of successful students (Y)	63	84	118
Total no. of students appeared in the examination (Z)	63	85	120
$API = x^* (Y/Z)$	API=7.92	API=6.9	API=6.93
Average $API = (AP1 + AP2 + AP3)/3$		7.25	

#### **B3.4.** Academic Performance in Second Year

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

Academic Performance	CAYm1 (2022 -23)	CAYm2 (2021 -22)	CAYm3 (2020 -21)
Mean of CGPA or Mean Percentage of all successful students (X)	7.33	7.36	7.44
Total no. of successful students (Y)	73	97	153
Total no. of students appeared in the examination (Z)	76	101	155
API = X* (Y/Z)	API = 7.04	API = 7.07	AP1 = 7.34
Average $API = (AP1 + AP2 + AP3)/3$		7.15	

#### **B3.5.** Academic Performance in Third Year

 $API = ((Mean\ of\ 3^{rd}Year\ Grade\ Point\ Average\ of\ all\ successful\ Students\ on\ a\ 10\ point\ scale)\ or\ (Mean\ of\ the\ percentage\ of\ marks\ of\ all\ successful\ students\ in\ Third\ Year/10))\ x\ (number\ of\ successful\ students\ in\ Third\ Year/10))\ x$ 

*students/number of students appeared in the examination)* 

Successful students are those who are permitted to proceed to the final year.

Academic Performance	CAYm1 (2022 -23)	CAYm2 (2021 -22)	CAYm3 (2020 -21)
Mean of CGPA or Mean Percentage of all successful students(X).	7.19	7.59	7.5
Total no. of successful students (Y).	94	145	189
Total no. of students appeared in the examination (Z).	97	153	191
API = x* (Y/Z)	API=6.96	API = 7.19	API = 7.42
Average $API = (AP1 + AP2 + AP3)/3$		7.19	

# **B3.6.** Placement, Higher Studies and Entrepreneurship

Item	CAYm1 (2022 -23)	CAYm2 (2021 - 22)	CAYm3 (2020 - 21)
Total No. of Final Year Students (N)	145	189	181
No. of students placed in companies or Government Sector (x).	84	102	64
No. of students admitted to higher studies with valid qualifying scores (GATE or equivalent State or National Level Tests, GRE, GMAT etc.) (y).	29	30	38
No. of students turned entrepreneur in engineering/technology (z)	2	3	3
x + y + z =	115	135	105
Placement Index: (x + y + z)/N	0.79	0.71	0.58
Average placement= (P1 + P2 + P3)/3		0.69	

**PART C. Criterion wise Compliance Status** 

S.N.	Criteria	Observations made by NBA	Compliance Status
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		(During the last accreditation visit)	(Action taken by the
		,	institution)
1		,	Vision, Mission & PEOs
1.1.	Formulation	The Department has properly formulated the vision, mission and PEOs	Vision, Mission, PEOs and Dissemination are retained as
1.2.	Dissemination	Dissemination of process of vision /mission/PEOs is proper.	recommended by NBA peer team.
1.3.	Assessment	Proper justification needed for the mapping PEOs with Mission of the	<ul> <li>PEOs have been framed in alignment with NEP policy</li> <li>PEO mapping with the Mission of the Department was discussed in BOS and Minutes of the Meeting (MOM) are available in the BOS file.</li> </ul>
		Department	<ul> <li>Justification for the process of defining PEO is disseminated through the academic syllabus handbook.</li> </ul>
			<ul> <li>The mapping of PEOs has taken a new dimension to the new NEP-based curriculum which categorizes the courses emphasized on hands-on practical approaches.</li> </ul>
1.4.	Any other observations of the NBA	-	-
2		Со	urse outcome and Program Outcomes
2.1.	Formulation	Stake holder's feedback has not been documented.	<ul> <li>As suggested by the NBA committee members the stake holders feedback on CO PO mapping and curriculum framework is documented.</li> <li>The course outcomes and program outcomes are mapped based on the advice received from the stake holders. This has been documented in the Board of Studies file</li> <li>The points were also discussed with the Program Assessment Committee (PAC) and Department Advisory Board (DAB) and documented in the respective files.</li> <li>Graduate Exit survey analysis is reported.</li> </ul>
		Industry interaction is not documented	<ul> <li>The following documents for the industry interaction are maintained</li> <li>Details of Center of Excellence (COE):MOU, Internship, expert lecture and webinar documents are maintained</li> <li>Industry expert lecture file is maintained</li> <li>Development programs for faculties file is maintained</li> <li>Faculty training from industry file is maintained</li> </ul>

2.2.	Mapping	The process requires proper documentation for attaining COs and PO's	<ul> <li>Continuous Internal Evaluation (CIE), alternative assessment, quiz and other evaluation process the rubrics have been framed as discussed in PAC and DAB and approved.</li> <li>CO, PO attainment is automated through Contineo software. So that the attainment is flawless.</li> </ul>
2.3.	Any other observations of the NBA	Teaching learning process: The quality of teaching needs to be improved and implementation of student feedback should be maintained	<ul> <li>Regular Classroom audit: From the office of the Dean-Academics, regular classroom visits are undertaken, as part of an initiative to assess and evaluate the teaching pedagogies employed by the faculty members.</li> <li>Innovative teaching process and Teaching aids: The faculty members are actively incorporating state-of-the-art Information and Communications Technology (ICT) tools to enhance and modernize their teaching pedagogy.</li> <li>Promoting experiential Learning: The faculty members are actively embracing strategies which encompass a diverse range of modalities, including the utilization of physical models, online videos, and live experimental setups during instructional sessions.</li> </ul>
	l	I	
3.		Curr	iculum Design, if applicable
3.1.	Process to identify the gap, if applicable and action taken thereof	Articulation matrix tables are not properly done following OBE (point wise)	<ul> <li>The articulation matrix is reframed based on the course content, advice from the stakeholders and his recorded in PAC,DAB and approved in regulatory bodies</li> <li>Justification of all the courses for CO PO mapping is discussed and ratified, approved by Program Assessment Committee (PAC), Department Advisory Board (DAB), Board of Studies (BoS).</li> <li>It has been incorporated and approved by the BoS members and updated in the BoS Minutes of Meeting.</li> </ul>
3.2.	Curriculum Structure & Component (as applicable)	All CO's are not covered in curriculum process	<ul> <li>The Curriculum is revised based on the new NEP model.</li> <li>The revised curriculum ensures that all the Course outcomes and program outcomes along with PEO's are mapped and justified.</li> </ul>
3.3.	Any other observations of the NBA	CO attainment calculation is not properly carried out	<ul> <li>For the evaluation and assessment of CO's and PO's, multiple rubrics are used.</li> <li>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 in CO-PO mapping.</li> <li>After calculating course-wise PO attainment for each level of assessment for eight semesters, Program-wise attainment is calculated for different levels of assessment.</li> <li>Also, the entire process is automated by software tool called Contineo. This enables us to calculate the attainment in a systematic way.</li> </ul>

# 4 Details of the Action taken on the Observation of NBA during last visit:

	Weakness / Areas of improvement		
	Observed during last visit	Action taken to overcome	
1.	Success rate of student is very less	<ul> <li>Measures for improving the success rate:</li> <li>Faculty members conduct extra coaching classes for the students, based on their needs.</li> <li>Students with backlogs are motivated to clear all courses and obtain good result, to improve the success rate.</li> <li>There is an improvement in the success</li> </ul>	
		rate without backlogs.	

	Co	oncerns
1	Observed during last visit  Participation of stake holders and industry are missing in curriculum design	<ul> <li>Action taken to overcome</li> <li>In every BOS meeting inputs are taken from stake holders.</li> <li>Three industrial centers of excellence Lab are established in the department with certified training to faculty members.</li> <li>Faculty members have undergone certified training from industry for the open elective courses.</li> <li>In addition, expert lectures are organized only by the industrial experts.</li> <li>Stakeholders involvement in curriculum Design:         <ul> <li>The curriculum is designed in consultation with Industrial experts.</li> <li>Based on the stakeholder's inputs, new courses are added in the curriculum.</li> <li>Enhancement courses which provide the</li> </ul> </li> </ul>
		<ul><li>with Industrial experts.</li><li>Based on the stakeholder's inputs, new courses are added in the curriculum.</li></ul>
		Action is taken to improve stakeholder's involvement:  • The resource person for guest lectures and expert lectures is taken from the Industry

		<ul> <li>The number of Events conducted has increased in core Subjects as well as in the latest trends in engineering.</li> <li>The students are motivated to participate in Hackathons and project exhibitions conducted by industries and renowned institutes.</li> <li>The students and faculty are encouraged to complete the industry-ready certification courses.</li> <li>Interdisciplinary projects and internships are encouraged among students, for which problem statements are defined by industry experts.</li> </ul>
2	The curriculum is not well balanced considering all specialization	Aligning with the new NEP policy Ability Enhancement Course, Emerging Technology course and Engineering Science course have been introduced considering all specializations through which the syllabus is framed and documented.  Specialization No. of Courses (2 <sup>nd</sup> to 4 <sup>th</sup> Year)  Design 11 Materials Science 6 Manufacturing 18 Thermal 11 Others 10  Based on the specialization courses offered in the
		curriculum, the faculties with the specific specializations are available to educate the students.
3	Understanding of outcome-based education is not up to the mark. awareness is less among the stake holders	<ul> <li>At the commencement of every semester, BOS Chairman conducts Orientation programs to the students.</li> <li>Awareness is provided by the Head of the department about OBE, vision, mission, PEOs, POs and COs, in parent teacher meeting as well.</li> <li>In addition, the faculty members present the syllabus during the classes, providing the insight of respective course outcomes.</li> <li>Faculty members are encouraged to take up the OBE NPTEL courses.</li> <li>During the induction program for the new faculty members, the importance is OBE</li> </ul>

Faculty members have less publication in reputed SCI journa	Actions/Measures to improve the quality o publications:
	<ul> <li>All faculty members have published Journal Papers in Q1, Q2, Q3, Q4, SC journals in the present cycle. This contributes towards the self-appraisal of each faculty member.</li> </ul>
	<ul> <li>Faculty members are encouraged to collaborate among researchers, both within our institution and with external partners.</li> <li>Faculty development programs are conducted in the institution through the department of R&amp;D, focusing on research methodologies, paper writing, and publication strategies.</li> </ul>
	This is reflected by the fact that there are more than 150 SCI Journals published by the faculties.
Faculty requires interaction with external academic community	<ul> <li>Faculties have attended Faculty Development Programs at Othe Educational Institutions.</li> <li>Faculties are attending Workshops, Shor Term Training Programs (STTP), Globa Initiative of Academic Networks (GIAN Course, arranged by premier institutes such as IIT's and NIT's.</li> <li>Faculties are also interacting with othe scientific communities, such as medica researchers to gain knowledge and conduct research to support the R and D activities Based on this, a new Course known as the "Bio-Inspired Design and Innovation" was introduced in the curriculum. A new "Centre of Excellence", has also been established, on Bio-Mechanica Engineering Sciences.</li> <li>Through Institution's Innovation Cel (IIC) cell the faculty members of the department have given guest lectures a other educational institutions.</li> <li>Research papers are published by collaborating with external academicians.</li> </ul>

7	students require more professional exposure in terms of activities and participation  Quality of admitted students is declining	<ul> <li>Every year students participate in International Machine Tool Exhibition, organized by International Machine Tool Manufacturer's Association (IMTMA)</li> <li>Scheduled industry visits to technology centers at 2 visits per semester.</li> <li>Industry expert MOOC courses are mandatory for professional electives.</li> <li>As per the new NEP policy students carry out internships in reputed companies.</li> <li>The students are motivated to participate in Hackathon and project exhibitions conducted by industries and renowned institutes.</li> <li>The students are encouraged to complete the industry ready certification courses.</li> <li>The quality of admitted students is enhanced as per the following actions taken:</li> <li>Scholarship is provided to meritorious students.</li> <li>Co-curricular as well as Extra-curricular student achievements are duly recognized and appreciated.</li> <li>The courses introduced with the help of Industry sponsored labs, facilitate the students in obtaining placements as well as global certification.</li> </ul>
8	The target setting for PO attainment, gap analysis and action taken require improvement	<ul> <li>Refined process was implemented and followed in the department:</li> <li>For each course within the program, Course Outcomes (COs) are assessed using a variety of assessment methods.</li> <li>The calculation of CO attainment involves qualitative analysis by course instructors, who use defined thresholds and CO targets to determine whether the COs have been met or not.</li> <li>Course coordinators report the CO attainment value, action plan for improvement, and recommendations for accomplishing CO targets.</li> <li>At the end of the program for a particular batch, Program Outcomes (POs) and Program Specific Outcomes (PSOs) are</li> </ul>

assessed, with 80% weight given to direct
assessment and 20% to indirect
assessment, conducted through surveys of
graduates, alumni, and employers.
The department frames survey questions to
indirectly measure POs/PSOs.
• Thorough analysis of these attainment
levels informs the identification and
implementation of action plans for
subsequent batches.
Rubrics are utilized for the evaluation and
assessment of COs, POs, and PSOs,
facilitating a comprehensive and
structured approach to monitoring and
improving the program's educational
outcomes.



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 Government of Karnataka

## Declaration

It is hereby declared that information provided in this Compliance Report is factually correct. I understand and agree that an appropriate action against the Institute will be initiated by the NBA (which may include debarring the institution for three years), in case any false statement/information is observed during the assessment of the compliance report.

Date: 28.12.2023

Place: Bengaluru

Dr. Manjunatha

Principal

Dr. Manjunatha Principal

New Havizon College of Engineering Road, Bellandur Post, Near Marathahalli, Bangalore - 560 103



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