



# NEW HORIZON COLLEGE OF ENGINEERING

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

## DEPARTMENT OF MECHANICAL ENGINEERING

### BOARD OF STUDIES MEETING

#### Minutes of Meeting

DATE :10<sup>th</sup> June 2022

VENUE :Industry 4.0 LAB

Time :10:00 am to 3:00 pm

**Chairman BOS (ME Board)**  
Department of Mechanical Engineering  
New Horizon College of Engineering (Autonomous)  
Bengaluru - 560 103.

## CONTENTS

Sl. No	Particulars	Page No
1	Agenda for the meeting	3
2	List of BOS Members	4
3	List of Members Present	6
4	Welcome address by Chairman of BoS	7
5	Agenda - 1	7
6	Agenda - 2	7
7	Agenda - 3	8
8	Agenda - 4	8
9	Agenda - 5	8
10	Vote of thanks by Chairman of BoS	8
11	Recommendations of the Board	9
12	Implementation Of Recommendation Of Bos Members	10
13	Approval Of Scheme & Syllabus Of Second Year Courses	11
14	Glimpses Of Offline/Online Bos Meeting	12

*gaw*

## AGENDA FOR THE MEETING

- ❖ **Agenda - 1** Approval of Syllabus for 3<sup>rd</sup> and 4<sup>th</sup> Semester 2021- 2025 batch - 160 credits
- ❖ **Agenda - 2** Approval of scheme for 1<sup>st</sup> to 8<sup>th</sup> semester - 2021-2025 batch
- ❖ **Agenda - 3** Discussion on challenges in implementing NEP( National Education Policy) 160 Cr scheme
- ❖ **Agenda - 4** Effect of reduction in core courses ( almost 30% reduction) on BE(Program) When compared to existing 175 Cr/200Cr scheme.
- ❖ **Agenda - 5** Workload, teaching hours and credits distribution.

*Devi*


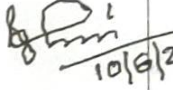
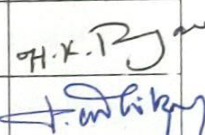
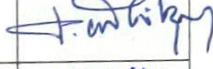

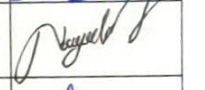





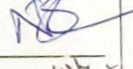
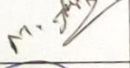

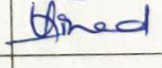
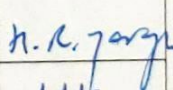

## LIST OF MEMBERS

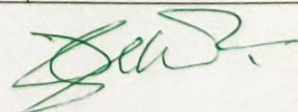
Sl. No	Category	Nomination of the committee	Name of the person	Designation & Affiliation
1	Head of the Department	Chairperson	Dr. Shridhar Kurse	Professor & HoD - ME
2	Special Invitees (one academician from Institution of National Eminence, IIT,NIT,IIM,IISC)	1	Dr. Manjunatha	Principal, NHCE
		2	Dr. R J Anandhi	Dean Academics, NHCE
		3	Dr. M R Ramesh	Associate Professor, Mechanical Engineering Dept. NITK, Surathkal
		4	Dr. D Chakradhar	Associate Professor, Mechanical Engineering Dept. IIT Pallakad.
3	Faculty member at different level with different specialization	<b>Members</b>		
		1	Dr. Adhikary P	Associate Professor
		2	Dr. Srinath M K	Associate Professor
		3	Dr. Nagendra J	Associate Professor
		4	Dr. Sudarshan T A	Sr. Assistant Professor
		5	Dr. Ashok Kumar	Associate Professor
		6	Dr. Hemanth Raju T	Associate Professor
4	Subject expert from outside the college nominated by Academic Council	<b>Members</b>		
		1	Dr. Shanmukha Nagaraj	Dean Academics, Professor, Dept., of Mechanical Engineering, RVCE, Bengaluru.
		2	Dr. Beem Kumar	Associate Professor, Jain University, Bengaluru.
		3	Dr. N Gnanasekaran	Assistant professor, Mechanical Engineering Dept. NITK Surathkal.

5	Experts from outside the college nominated by VTU	<b>Member</b>		
		1	Dr. Ranga Vital	Professor, Mechanical Engineering Dept. BMSCE
6	Representative from Industry / Corporate sector / allied area related to placements, nominated by Academic Council	<b>Members</b>		
		1	Mr. Ananthkumar Mani	Vice president PLM Practice Capgemini
		2	Mr. Binod Kumar	Placement Officer, NHCE
7	Post Graduate meritorious alumni nominated by Principal	<b>Members</b>		
		1	Mr. Mohammad Farooq Yellur	Businesses Consultant II Wells Fargo International Solutions Pvt Ltd
		2	Mr. Manjunatha B	Design Engineer Autoliv Bengaluru
8	Co-opted members	<b>Members</b>		
		1	Dr. Bopanna K D	Placement Co-ordinator - ME
		2	Mr. Shivaprakash	Sr. Assistant Professor, NHCE
		3	Mr. Manjesh B C	Alumini Coordinator, NHCE
		4	Dr. Gopal K	Associate Professor, NHCE
		5	Dr. Vinod Kumar G S	Sr. Assistant Professor, NHCE

*Handwritten signature in green ink.*

## LIST OF MEMBERS PRESENT

Sl. No.	Nomination of the committee	Name of the person	Affiliated To	Signature
1.	Chairperson	Dr. Shridhar Kurse	Head of the Department, NHCE, Bangalore	
2.	Special Invitees	Dr. Manjunatha	Principal, NHCE, Bangalore	
3.	Special Invitees	Dr. R J Anandhi	Dean Academics, NHCE, Bangalore	
4.	Special Invitees	Dr. M R Ramesh	Associate Professor, Mechanical Engineering Dept. NITK, Surathkal	online
5.	Subject expert from outside the college	Dr. Shanmukha Nagaraj	Dean Academics, Professor, Dept., of Mechanical Engineering, RVCE, Bengaluru.	 10/6/22
6.	VTU Nominee	Dr. Ranga Vital H. K.	Professor, Mechanical Engineering Dept. BMSCE NHCE, Bangalore	H.K.P. 
7.	Member	Dr. Adhikary P	NHCE, Bangalore	
8.	Member	Dr. Srinath M K	NHCE, Bangalore	
9.	Member	Dr. Nagendra J	NHCE, Bangalore	
10.	BOS Coordinator and Member	Dr. Sudarshan T A	NHCE, Bangalore	
11.	Member	Dr. Ashok Kumar	NHCE, Bangalore	
12.	Member	Dr. Hemanth Raju T	NHCE, Bangalore	
13.	Representative from Industry	Mr. Ananthkumar Mani	Vice president PLM Practice, Capgemini	
14.	Representative from Industry	Mr. Binod Kumar	Placement Officer, NHCE Head - ITC & CR	
15.	Post Graduate Meritorious Alumni	Mr. Mohammad Farooq Yellur	Businesses Consultant II, Wells Fargo International Solutions Pvt Ltd	online
16.	Member	Dr. Bopanna K D	Placement Coordinator, NHCE, Bangalore	
17.	Member	Dr. Nagabhushan N	NHCE, Bangalore	
18.	Member	Mr. Raghu Tilak Reddy	NHCE, Bangalore	
19.	Member	Mr. Ravikumar M	NHCE, Bangalore	
20.	Member	Dr. Vinod Kumar GS	NHCE, Bangalore	
21.	Member	Mr. Hanamant Yaragudri	NHCE, Bangalore	
22.	Member	Dr. Aditi	NHCE, Bangalore	



## WELCOME ADDRESS BY THE CHAIRMAN OF BOS

### *Minutes*

The Board of Studies meeting for Department of Mechanical engineering was scheduled on 10-06-2022 at 10.00 AM in Industry 4.0 lab of Mechanical Engineering Department, NHCE.

At the outset, Chairperson Dr. Shridhar Kurse – Professor & Head – Department of Mechanical Engineering, welcomed the Members for attending the Board of studies meeting held in Industry 4.0 lab via offline and online ( Blended) mode.

The chairperson expressed special thanks to Dr. Rangavittala H K, Professor, BMSCE, VTU Nominee and Subject expert from outside the college Dr. Shanmukha Nagaraj, Professor, RVCE, Bangalore, nominated by Academic Council for sparing the time from their busy schedule to attend the meeting.

The chairperson also expressed his gratitude to Dr. M R Ramesh, Associate Professor, Mechanical Engineering Dept.NITK, Surathkal who was special Invitee

The meeting was also attended by members Mr. Binod Kumar Singh, TPO, NHCE and BOS members from Mechanical department with different specializations.

### AGENDA - 1

**TITLE** Approval of Syllabus for 3<sup>rd</sup> and 4<sup>th</sup> Semester 2021- 2025 batch - 160 credits

Discussion on Syllabus of 3<sup>rd</sup> and 4<sup>th</sup> Semester courses of 160 credits program was deliberated by the respective course coordinators.

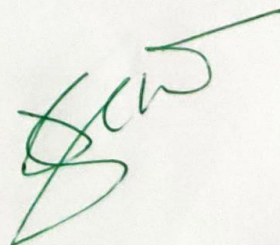
This agenda was unanimously approved by the members with few suggestions/ recommendations

### AGENDA - 2

**TITLE** Approval of scheme for 1<sup>st</sup> to 8<sup>th</sup> semester - 2021-2025 batch

Discussion on scheme of 1<sup>st</sup> to 8<sup>th</sup> semester of 160 credit program was presented by Dr. Shridhar Kurse.

This agenda was unanimously approved by the members with few suggestions/ recommendations.



### AGENDA - 3

**TITLE** Discussion on challenges in implementing NEP-160 credits

Dr. Shridhar Kurse, Professor and HOD of Department of Mechanical Engineering discussed the Challenges in implementing National Education Policy with all the Internal / External members. They gave some suggestions/recommendations.

### AGENDA - 4

**TITLE** Effect of reduction in core courses (almost 30% reduction) on BE (Program) when compared to existing 175 Cr/200Cr scheme

Dr. Shridhar Kurse, Professor and HOD of Department of Mechanical Engineering discussed the Effect of reduction in core courses (almost 30% reduction) on BE (Program) when compared to existing 175 Cr/200Cr scheme with all the Internal / External members. They gave some suggestions/recommendations.

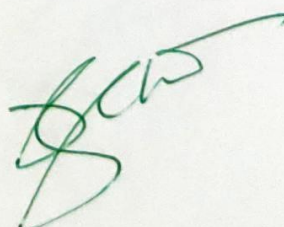
### AGENDA - 5

**TITLE** Workload, Teaching hours and credits distribution.

Dr. Shridhar Kurse, Professor and HOD of Department of Mechanical Engineering discussed the Workload, Teaching hours and credits distribution with all the Internal / External members. They gave some suggestions/recommendations.

### VOTE OF THANKS BY THE CHAIRMAN OF BOS

The Chairman – BoS, Dr. Shridhar Kurse thanked the external members, industry representative, Alumni representative for their fruitful participation on behalf of the Principal and the Management. He also thanked all the other members of the BOS and course coordinators for their active participation. The meeting was concluded at 3:00 pm.





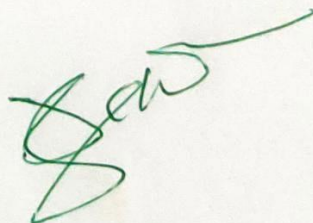
## RECOMMENDATIONS / SUGGESTIONS OF BOS MEMBERS

- ❖ Suggested to change the subject for ability enhancement course in 3<sup>rd</sup> semester
- ❖ Since Self-study column is zero for all the courses which can be removed in scheme
- ❖ Integrate subject with lab and conduct lab without SEE under same subject code
- ❖ Summer internship should be under practical
- ❖ Suggested to shift mechanics of materials subject to 3<sup>rd</sup> semester
- ❖ Suggested to have only one mathematics subject either in 3<sup>rd</sup> or 4<sup>th</sup> sem and also suggested to introduce one programming language.
- ❖ In 5<sup>th</sup> semester control engineering subject can be introduced as a core subject instead of elective subject.
- ❖ Professional elective subjects can be given from different specializations
- ❖ Suggested to introduce one more design subject to cover more concepts
- ❖ Suggested to change from major project to minor project in 7<sup>th</sup> semester and in 8<sup>th</sup> semester internship can be converted to major project worth of 15 credits
- ❖ Suggested to conduct CAMD CIE 1 with manual sketching and CIE 2 with software
- ❖ Suggested to take students to different power plants for practical exposure
- ❖ In theory oriented subjects suggested to remove credit for tutorial and add the same to Lecture
- ❖ Suggested to encourage students for in-house projects/internships for effective utilisation of centre of excellences
- ❖ In labs suggested to change the assessment pattern.
- ❖ Suggested to use some attractive names for the mechanical subjects
- ❖ In mechanics of materials lab suggested to include virtual tools to conduct experiments

## IMPLEMENTATION OF RECOMMENDATION OF BOS MEMBERS

The chairperson constituted the following faculty to review and implement the recommendations of the BOS members in the scheme and syllabus of the curriculum based on industry needs.

The faculties have reviewed the curriculum and affected the changes regarding issues raised by external BOS members



Third Semester			
Sl No.	Course Code	Course Name	Faculty Name
1.	21MEE322A	Computer Aided Machine Drawing	Dr. Nagabhushan N
2.	21MEE35A	Fluid Mechanics and Hydraulic Machines Theory	Dr. Ashok Kumar
3.	21MEL35A	Fluid Mechanics and Hydraulic Machines Lab	Dr. Ashok Kumar
4.	21MEE36A	Mechanics of Materials	Mr. Hanamant Yaragudri
5.	21MEL36A	Mechanics of Materials Lab	Mr. Hanamant Yaragudri
6.	21MEE37A	Mechanical Measurements and Metrology	Dr. Vinod Kumar G S
7.	21MEL37A	Mechanical Measurements and Metrology Lab	Dr. Vinod Kumar G S
Fourth Semester			
Sl No.	Course Code	Course Name	Faculty Name
1.	21MEE45A	Engineering Thermodynamics	Mr. Ravikumar M
2.	21MEL45A	Engineering Thermodynamics Lab	Mr. Ravikumar M
3.	21MEE46A	Manufacturing Technology Theory	Mr. Raghu Tilak Reddy
4.	21MEL46A	Manufacturing Technology Lab	Mr. Raghu Tilak Reddy
5.	21MEE47A	Material Science & Metallurgy	Dr. Hemanth Raju
6.	21MEL47A	Simulation Lab	Dr. Aditi

*[Handwritten signature]*

## APPROVAL OF SCHEME & SYLLABUS OF SECOND YEAR COURSES

The Board of Studies members reviewed the modified draft of the scheme & syllabus with their recommendations/suggestions being incorporated appropriately.

Finally, the members approved the draft of the same with the modifications for final implementation.

SUBJECT CODE	SUBJECT	% Additions / Deletions in Modules	Proposed Experiential Learning in the Modules	Industrial inputs in the Modules	Percentage change in the syllabus
21MEE322A	Computer Aided Machine Drawing	20%	Case Study	Surface modelling	20%
21MEE35A	Fluid Mechanics and Hydraulic Machines Theory	20%	Case Study	Hands on Experience with real time examples	20%
21MEL35A	Fluid Mechanics and Hydraulic Machines Lab	20%	Experiments related to Pumps and Turbines	Power generation Methods	20%
21MEE36A	Mechanics of Materials	10%	Case study	MAT Lab introduction in assignments	10%
21MEL36A	Mechanics of Materials Lab	30%	Case study	Study of NDT and DT tests	30%
21MEE37A	Mechanical Measurements and Metrology	15%	Industrial Visit	Plant Visit	15%
21MEL37A	Mechanical Measurements and Metrology Lab	10%	Case study	Study of surface roughness	10%
21MEE45A	Engineering Thermodynamics	10%	Case Study	Plant Visit	10%
21MEL45A	Engineering Thermodynamics Lab	10%	Cut-open section study of 4-stroke and 2-stroke Engine Parts	Software Tool for performance analysis	10%
21MEE46A	Manufacturing Technology Theory	20%	Case Study	Industrial Visits	20%
21MEL46A	Manufacturing Technology Lab	20%	Case Study	Industrial Visit	20%
21MEE47A	Material Science & Metallurgy	10%	Case Study	Exposure to advanced materials	10%
21MEL47A	Simulation Lab	50%	Case Study	MAT lab, Simulink, Sci Lab	50%

*[Handwritten Signature]*

GLIMPSES OF OFFLINE/ONLINE BOS MEETING



A handwritten signature in green ink, appearing to be 'Dew', is located in the bottom right corner of the page.