

DEPARTMENT OF MECHANICAL ENGINEERING

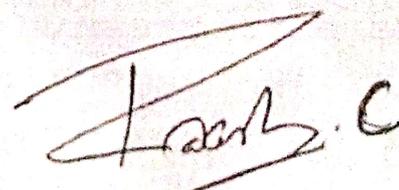
BOARD OF STUDIES MEETING

Minutes of Meeting

DATE : 13th August 2025

VENUE : Industry 4.0 Lab, NHCE

Time : 10:00 am to 2:00 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	Vote of thanks by Chairman of Bos	8
9	Recommendations of the Board	8
10	Implementation of Recommendation of Bos Members	9
11	Approval of Scheme & Syllabus of Second Year Courses (2024-28 batch) and Fourth Year Courses (2022-2026 batch)	12,13
12	Glimpses of Offline/Online Bos Meeting	14

AGENDA FOR THE MEETING

- Agenda - 1 Approval of Scheme and Syllabus for 3rd and 4th Semester 2024- 2028 batch
- Agenda - 2 Approval of Scheme and Syllabus for 7th and 8th Semester 2022- 2026 batch
- Agenda - 3 Workload, teaching hours and credits distribution.



LIST OF MEMBERS

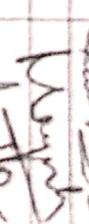
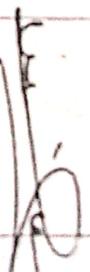
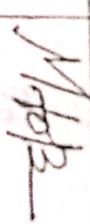
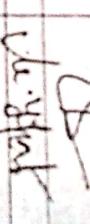
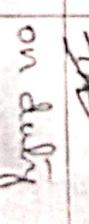
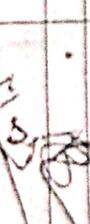
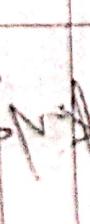
Category	Nomination of the committee	Name of the person	Designation & Affiliation	
0	Head of the Department	Prof. Rakesh C	HOD - ME	
1	Special Invitees (one academician from Institution of National Eminence: IIT, NIT, IIM, IISc)	Dr. Manjunatha	Principal, NHCE	
		Dr. R. J. Anandhi	Dean - Academics, NHCE	
		Dr. M R Ramesh	Associate Professor, Mechanical Engineering Dept. NITK, Surathkal	
2	Faculty members at different level with different specialization	Members		
		1	Dr. Srinath M K	Associate Professor, NHCE
		2	Dr. Hemanth Raju T	Associate Professor, NHCE
		3	Dr. Sudarshan T A	Sr. Assistant Professor, NHCE
		4	Dr. Gopal K	Associate Professor, NHCE
5	Dr. Nagabhushan N	Sr. Assistant Professor, NHCE		
3	Subject experts from outside the College nominated by Academic Council	Members		
		1	Dr. Vishwanath K C	Associate Professor, Dept., of Mechanical Engineering, Rajarajeswari College of Engineering, Bengaluru
4	Experts from outside the College nominated by VTU	Member		
		1	Dr. Lokesha M	Professor and Dean Student Welfare, SJB Institute of Technology, Bengaluru
		Members		
5	Representatives from Industry / Corporate sector / allied area related to placements, nominated by Academic Council	1	Dr. Madeva NagaraI	Manager (Design), Aircraft Research and Design Center, HAL, Bengaluru
		2	Mr. K. Murulidharan	Senior HR Manager Department of HRD, NHCE
		Member		
6	Post Graduate meritorious alumni nominated by Principal	Member		
		1	Mr. Aswajith	Alumni, NHCE

Members

1	Dr. Jayasheel Kumar	Sr. Assistant Professor, NHCE
2	Mr. Shivaprakash	Sr. Assistant Professor, NHCE
3	Mr. Raghu Tilak Reddy	Sr. Assistant Professor, NHCE
4	Mr. Hanamant Yaragudri	Sr. Assistant Professor, NHCE
5	Dr. Veeresh G	Sr. Assistant Professor, NHCE
6	Mrs. Smitha B S	Sr. Assistant Professor, NHCE
7	Mr. Gowtham	Assistant Professor, NHCE
8	Mr. Mohan Kumar	Assistant Professor, NHCE

Co-opted members

LIST OF MEMBERS PRESENT

Sl. No.	Nomination of the committee	Name of the person	Affiliated To	Signature
1.	Chairperson	Prof. Rakesh C	Head of the Department, NHCE, Bangalore	
2.	Special Invitees	Dr. Manjunatha	Principal, NICE, 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. Vishwanath K C	Associate Professor, Dept., of Mechanical Engineering, Rajarajeswari College of Engineering, Bengaluru.	
6.	VTU Nominee	Dr. Lokesh M	Dean Student Welfare, SJB Institute of Technology, Bengaluru	
7.	Member	Dr. Srinath M K	NHCE, Bangalore	
8.	BOS Coordinator and Member	Dr. Sudarshan T A	NHCE, Bangalore	
9.	Member	Dr. Gopal K	NHCE, Bangalore	
10.	Member	Dr. Hemant Raju T	NHCE, Bangalore	
11.	Member	Dr. Jayasheel Kumar	NHCE, Bangalore	on duty
12.	Representative from Industry	Dr. Madava NagaraI	Manager(Design), Aircraft Research and Design Center, HAL, Bengaluru	Online
13.	Graduate meritorious alumni	Mr. Aswajith	Alumni, NHCE	
14.	Member	Prof. Mohan Kumar	Placement Coordinator, NHCE, Bangalore	
15.	Member	Dr. Nagabhushan N	NHCE, Bangalore	
16.	Member	Prof. Raghv Tilak Reddy	NHCE, Bangalore	
17.	Member	Prof. Ravikumar M	NHCE, Bangalore	
18.	Member	Prof. Shiva Prakash	NHCE, Bangalore	
19.	Member	Prof. Hanamant Yargudri	NHCE, Bangalore	
20.	Member	Dr. Veeresh	NHCE, Bangalore	
21.	Member	Prof. Gowthan	NHCE, Bangalore	
22.	Member	Prof. Smitha B S	NHCE, Bangalore	
23.	Member	Prof. Rajesh A	NHCE, Bangalore	

WELCOME ADDRESS BY THE CHAIRMAN OF BOS

Minutes

The Board of Studies meeting for Department of Mechanical engineering was scheduled on 13-08-2025 at 10.00 AM in Industry 4.0 Lab, NHCE.

At the outset, Chairperson Prof. Rakesh C – Professor & Head – Department of Mechanical Engineering, welcomed the Members for attending the Board of studies meeting held in Industry 4.0 Lab, NHCE via offline and online (Blended) mode.

The chairperson expressed special thanks to Dr. Lokesha M, Dean Student Welfare, SJB Institute of Technology, Bengaluru, VTU Nominee, Subject expert from outside the college Dr. Vishwanath K C. Rajarajeswari College of Engineering, Bengaluru nominated by Academic Council. Industry representative Dr. Madava Nagaral, Manager(Design), Aircraft Research and Design Center. HAL. Bengaluru 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 BOS members from Mechanical department with different specializations.

AGENDA - 1

TITLE Approval of Scheme and Syllabus for 3rd and 4th Semester 2024- 2028batch

Discussion on scheme of 3rd to 8th semester of 160 credit program was presented by Prof. Rakesh C. and syllabus was presented by respective course coordinators. This agenda was unanimously approved by the members with few suggestions/ recommendations.

AGENDA - 2

TITLE Approval of Syllabus for 7th and 8th Semester 2022- 2026 batch

...ion on syllabus of 7th and 8th semester of 160 credit program(2022-20 date) was presented by
...ive course coordinators. This agenda was unanimously approved by the members with few
...estions/ recommendations

AGENDA - 3

TITLE

Workload, Teaching hours and credits distribution.

Prof. Rakesh G, 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, Prof. Rakesh C 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 2:00 pm.

RECOMMENDATIONS / SUGGESTIONS OF BOS MEMBERS

- ❖ External member Dr. Vishwanath suggested to keep only internship in 8th semester and to
remove the Elective subjects and to match the credits accordingly
- ❖ Dr. Lokesh M, VTU nominee suggested to integrate labs with theory courses
- ❖ In Computer Integrated manufacturing Lab Course suggested to merge two experiments as a
single experiment
- ❖ Suggested to use pro manufacturing software for CIM lab part programming
- ❖ In Mechanical Vibrations Course suggested to have practical instruments to analyse few
concepts.
- ❖ Suggested to collaborate MATLAB to analyse Mechanical Vibration course topics
- ❖ In industrial Robotics course suggested to include robots calibration topics
- ❖ External Members appreciated the Fluid Mechanics course core syllabus.
- ❖ In Fluid mechanics subject suggested to teach the theory topics and lab parallelly same topics.
- ❖ Suggested to include creep, fatigue concepts in metrology and measurement subject
- ❖ In Computer Aided Machine drawing suggested to include threads concepts.
- ❖ Suggested to include one or two numerical on intersection of solids in CAMD course.
- ❖ Dr. Vishwanath suggested to use industrial real time drawings in CAMD subject.
- ❖ In Manufacturing Technology course suggested to add friction stirring process.
- ❖ In Manufacturing Technology course suggested to include merchant circle diagram.
- ❖ Dr. Lokesh M suggested to include Statistics in measurements in MSM course.
- ❖ Dr. Lokesh M, BOS Member appreciated Bioinspired Design course

Chairman BOS (ME Board)

Page 8 of 15

IONS TAKEN ON THE RECOMMENDATIONS / SUGGESTIONS OF BOS MEMBERS

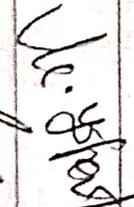
The valuable suggestions and recommendations provided by the BOS members, including restructuring of the 8th semester, integration of labs with theory, curriculum enhancements in various courses, inclusion of advanced topics, adoption of relevant software, use of industrial real-time data, and procurement of necessary instruments, have been duly noted. The department assures that these will be given utmost consideration, with suitable actions initiated for curriculum revision, resource procurement, and pedagogical improvements. The approved changes will be progressively implemented in the upcoming academic sessions to enhance teaching-learning quality and align with industry and academic requirements.

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

3rd Sem

Sl No	Faculty	Subject	Subject code	Signature
1	Prof. Hanamant	Mechanics of Materials(Theory and Lab)	24MEE32/24ME132	
2	Prof. Ravi Kumar M	Fluid Mechanics and Machinery(Theory and Lab)	24MEE33/24ME133	
3	Prof. Smitha	Material science and metallurgy	24MEE34	
4	Dr. Nagabushan	Computer Aided Machine Drawing (2-0-1-0)	24MEE35	
Ability Enhancement Course(1-0-0-0)				
1	Dr. Gopal K	Sustainable Manufacturing and Green Technologies	24MEE361	
2	Prof. Shivaprakash	Tool Engineering	24MEE362	
3	Dr. Gopal K	Bioenergy and Biofuels	24MEE363	
4	Dr. Sudarshan	Instrumentation in Thermal Engineering	24MEE364	
5	Dr. Srinathi	Bio Inspired Design and Innovation	24MEE365	

BOS Meeting - Department of Mechanical Engineering

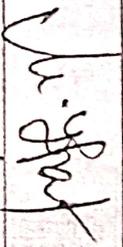

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No	Faculty	Subject	Subject code	Signature
1	Dr. Sudarshan	Engineering Thermodynamics(Theory and Lab)	24MEE42/24MEL42	
2	Prof. Raghu Tilk Reddy	Manufacturing Technology(Theory and Lab)	24MEE43/24MEL43	
3	Prof. Smitha	Mechanical Measurements and Metrology(Theory and Lab)	24MEE44/24MEL44	
4	Dr. Hemanth Raju	Mini Project	24MEE48	

Professional Elective Course-1

1	Prof. Ravi Kumar	Introduction to Solar energy	24MEE451	
2	Prof. Rakesh	Rotor Dynamics	24MEE452	
3	Prof. Rajesh	Aerospace propulsion System	24MEE453	
4	Dr. Sudarshan	Non Traditional Machining	24MEE454	
5	Prof. Rajesh	Fundamentals of Nanotechnology	24MEE455	

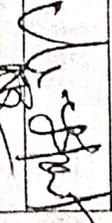
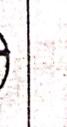
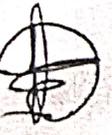
Ability Enhancement Course

1	Dr. Sujin Jose	Mat Lab for Mechanical Engineers	24MEE461	
2	Dr. Gopal K	Energy management and auditing	24MEE462	
3	Prof. Gowtham	Tools for Energy systems design and drafting	24MEE463	
4	Prof. Gowtham	Air and Water Resources Engineering Lab	24MEE464	
5	Prof. Mohan Kumar	Introduction to Augmented and Virtual Reality	24MEE465	

No	Faculty	Subject	Subject code	Signature
1	Dr. Sudarshan	Fundamentals of Heat Transfer	22MEE71	
2	Dr. Sudarshan	Fundamentals of Heat Transfer Lab	22MEL71	
3	Prof. Sujith	Computer Integrated Manufacturing	22MEE72	
4	Prof. Sujith	Computer Integrated Manufacturing Lab	22MEL72	
5	Dr. Srinath	Control Engineering	22MEE73	
6	Dr. Hemanth Raju	Project Phase - II	22MEE74	

8th semester

Sl No	Faculty	Subject	Subject code	Signature
Professional Elective Course-III				
1	Dr. Srinath	Additive Manufacturing	22MEE811	
2	Prof. Rajesh	Industrial Robotics	22MEE812	
3	Dr. Hemanth Raju	Mechanical Vibrations	22MEE813	
4	Prof. Ravi Kumar	Refrigeration and Air Conditioning	22MEE814	
5	Prof. Mohan Kumar	Hydraulics and Pneumatics	22MEE815	

Professional Elective Course-IV				
1	Dr. Sudarshan	Energy Engineering	22MEE821	
2	Dr. Gopal K	Sustainable energy systems design	22MEE822	
3	Dr. Nagabushan	Nanotechnology	22MEE823	
4	Dr. Nagabushan	Tools for Energy systems design and drafting	22MEE824	
5	Prof. Ravi Kumar	Advanced Semiconductor Materials and its applications	22MEE825	
6	Prof. Rajesh A	Internship	22MEE83	

APPROVAL OF SCHEME & SYLLABUS OF SECOND YEAR COURSES(2024-28 Batch)

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
24MEE32	Mechanics of Materials	20%	Case Study	Surface modelling	20%
24MEL32	Mechanics of Materials Lab	20%	Case Study	Hands on Experience with real time examples	20%
24MEE33	Fluid Mechanics	20%	Case Study	Hands on Experience with real time examples	20%
24MEL33	Fluid Mechanics Lab	20%	Experiments related to pumps and Turbines	Power generation Methods	20%
24MEE34	Material Science and Metallurgy	15%	Industrial Visit	Plant Visit	15%
24MEE35	Computer Aided Machine Drawing	10%	Case study	Study of surface roughness	10%
24MEE42	Engineering Thermodynamics	10%	Case Study	Plant Visit	10%
24MEL42	Engineering Thermodynamics Lab	10%	Cut-open section study of 4-stroke and 2-stroke Engine Parts	Software Tool for performance analysis	10%
24MEE43	Manufacturing Technology	20%	Case Study	Industrial Visits	20%
24MEL43	Manufacturing Technology Lab	20%	Case Study	Industrial Visit	20%
24MEE44	Mechanical Measurements and Metrology	20%	Case Study	Industrial Visit	20%

APPROVAL OF SCHEME & SYLLABUS OF 4th YEAR COURSES(2022-26 Batch)

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
22MEE71	Fundamentals of Heat Transfer	10%	Case study	Plant Visit	20%
22MEL71	Fundamentals of Heat Transfer Lab	20%	Case study	simulation	15%
22MEE72	Computer Integrated Manufacturing	10%	Case study	Plant Visit	15%
22MEL72	Computer Integrated Manufacturing Lab	20%	Case study	Numerical validation	20%
22MEE73	Mechanical Vibrations	10%	Case study	Design with material selection	20%
22MEE81	Additive Manufacturing	10%	Case study	Plant Visit	10%
22MEE812	Industrial Robotics	10%	Case study	Plant Visit	10%
22MEE813	Control Engineering	20%	Case study	Numerical validation	20%
22MEE814	Refrigeration and Air Conditioning	10%	Case study	Plant Visit	15%
22MEE815	Hydraulics and Pneumatics	10%	Case study	Plant Visit	15%
22MEE821	Energy Engineering	20%	Case study	Plant Visit	20%
22MEE822	Sustainable energy systems design	10%	Case Study	Design with material selection	20%
22MEE823	Advanced Nanotechnology	10%	Case Study	Design with material selection	15%
22MEE824	Industrial Internet of Things	20%	Case Study	Numerical validation	20%
22MEE825	Advanced Semiconductor Materials and its applications	10%	Case Study	Numerical validation	15%



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