



JEPPIAAR INSTITUTE OF TECHNOLOGY

(An Autonomous Institution)

Self-Belief | Self Discipline | Self Respect

Kunnam, Sunguvarchatram, Sriperumbudur-631604



MINUTES OF MEETING

2nd BOARD OF STUDIES MEETING

DATE: 12.06.2024 at 09.30 AM

VENUE: Hybrid mode in Syndicate Room

The 2nd meeting of the Board of Studies (BoS) of the undergraduate programme, B.E. for the Department of Mechanical Engineering, Jeppiaar Institute of Technology was held on 12.06.2024 at 09.30 AM in the syndicate room of the institute through hybrid mode.

The following are the list of BOS members:

S.NO	NAME	DESIGNATION	ROLE
1	Dr.S.Karthikayan	Professor & Head, Department of Mechanical Engineering, Jeppiaar Institute of Technology, Chennai.	Chairman
2	Dr.Simon Jeyaraj	Professor, Department of Mechanical Engineering, National Institute of Technology, Calicut.	External Expert - Academics
3	Dr.P.Vamsi Krishna	Professor, Department of Mechanical Engineering, National Institute of Technology, Warangal.	External Expert - Academics
4	Dr.N.Sendhil Kumar	Associate Professor, Department of Mechanical Engineering, National Institute of Technology, Puducherry.	University Representative

5	Mr.N.Lakshminarasimhan	Senior General Manager (P&HR), Brakes India Private Limited, Padi, Chennai.	External Expert - Industry
6	Mr.Sridhar Dheena	Strategic Sourcing Lead, PSA Stellantis, Thoraipakkam, Chennai.	External Expert - Industry
7	Mr.M I Abdhul Halik	Operations Lead, Forte Consulting, Chennai.	Alumni Member
8	Mr.S.Arun	Assistant Professor, Department of Mechanical Engineering, Jeppiaar Institute of Technology, Chennai.	Member
9	Mr.D.Ajithkumar	Assistant Professor, Department of Mechanical Engineering, Jeppiaar Institute of Technology, Chennai.	Member
10	Mr.J.Sudhakar	Assistant Professor, Department of Mechanical Engineering, Jeppiaar Institute of Technology, Chennai.	Member
11	Mr.M.Kubendiran	Assistant Professor, Department of Mechanical Engineering, Jeppiaar Institute of Technology, Chennai.	Member
12	Mr.M.Sugadevaboopathi	Assistant Professor, Department of Mechanical Engineering, Jeppiaar Institute of Technology, Chennai.	Member
13	Mr.S.Jasper	Assistant Professor, Department of Mechanical Engineering, Jeppiaar Institute of Technology, Chennai.	Member

Agenda:

1. Introduction of Board of Studies members.
2. Follow up of 1st Board of Studies meeting.
2. Suggestions and improvements in approval of curriculum.

Mr.S.Arun, Assistant Professor Department of Mechanical Engineering welcomed all the Board of Studies members to the meeting and started the presentation of department. He presented the structure and syllabus of entire 4-year theory subjects and laboratories including professional and open electives framed by the committee as per the suggestions given by the academic and industrial experts in 1st BoS meeting.

Follow up of 1st BoS meeting:

- Engineering Graphics subject have been moved to semester 1.
- Computer aided machine drawing laboratory contents are merged with Computer aided design laboratory in 5th semester.
- Renewable Energy System subject with 3 credits is included as one of the professional electives under the domain Thermal & Energy.
- Design of Machine Elements and Design of Transmission Systems subject contents have been clubbed and titled as Machine Design in 5th semester.
- Kinematics of Machinery and Dynamics of Machinery subject contents have been clubbed and titled as Theory of Machines in 4th semester.
- Advanced IC Engines subject has been renamed as Modern IC engine in professional elective.
- Geometric Dimensioning & Tolerance, Coordinate Measuring Machines topics were included in Metrology and Measurements.
- Heat and mass transfer subject is moved to 6th semester from 4th semester since it is too early for students to study.
- The text books and reference books were updated with latest editions in the curriculum.
- The following subject titles are renamed as

Semester	Old subject title	New subject title
03	Manufacturing Process I	Manufacturing Processes
03	Manufacturing Process II	Machine Tool Technology
07	Fundamentals of Robotics	Robotics and Automation

The following electives subjects are identified by the panel members in various domains:

Semester	Professional Elective	Name of the course
05	Professional Elective 1 (Design)	Ergonomics & Human Factors Engineering
		Computer Aided Design & Manufacturing
		Product Design and Development
		Design of Jigs and Fixtures
		Design for manufacturing and assembly
07	Professional Elective 2 (Manufacturing)	Lean Manufacturing
		Process Planning & Cost Estimation
		Computer Integrated Manufacturing Systems
		Non-Traditional Machining Processes
		Precision Manufacturing
07	Professional Elective 3 (Thermal)	Power Plant Engineering
		Gas Dynamics and Jet Propulsion
		Refrigeration & Air Conditioning
		Modern IC Engines
		Renewable Energy Systems
08	Professional Elective 4 (Materials)	Non-Destructive Testing & Evaluation
		Testing of Materials
		Nano Materials and applications
		Composites materials and mechanics
		Mechanical behavior of materials

Suggestions from Board of Studies Members:

- Professional Elective 1 under the domain of Design Engineering in 5th semester to be moved to 7th semester as Professional Elective 2.
- Professional Elective 2 under the domain of Manufacturing in 7th semester to be moved to 5th semester as Professional Elective 1 considering the core subjects in 3rd and 4th year.
- Unit 4 & 5 in Machine tool technology to be combined as a single unit CNC Machine & Programming.

- Non-Traditional Machining Processes subject to be removed and the topics from that subject to be added as Unit 5 in Machine Tool Technology.
- Sustainable Manufacturing to be introduced as an elective subject under manufacturing domain.
- Air compressor experiment under Refrigeration & Airconditioning category to be moved to IC engine category in Thermal Engineering Laboratory.
- Gears and gear trains topics to be added in unit 5 in Theory of machines and title of unit 5 to be changed as “Mechanism” instead of “Mechanism of control”.
- Suggested to add “Solar Energy - Principles” by Goushami book in references of Renewable energy Systems professional elective.
- Suggested to combine the unit 2 and 3 as single unit in Engineering Thermodynamics and suggested to add Psychrometry as unit 5.
- Suggested to add few more topics in unit 5 – Refrigeration & Air conditioning in subject Thermal Engineering and to remove the basic topics in unit 1 of elective paper “Refrigeration and Air Conditioning”.
- Unit 5 – Cryogenic Engineering to be introduced in elective paper Refrigeration and Air Conditioning.
- Contents of Unit 1 and 2 in Modern IC Engines elective paper to be elaborated further with advanced technologies as per the title.
- Title of an elective paper “Plant Simulation” to be renamed as “Plant Layout and Material Handling”.
- BoS members suggested to have the syllabus content in each unit within 4 lines.
- Parallely there were discussions about the mini project, internship and project work evaluations by Dr.Shenbaga Ezhil with BoS members.
- It has been finalized that each department will offer three subjects as open elective, and all these will be consolidated as common open electives for all the departments.

Finally Dr.Shenbaga Ezhi, IQAC Director concluded the meeting with vote of thanks.


S.ARUN,

**Assistant Professor,
Department of Mechanical Engineering**



JEPPIAAR INSTITUTE OF TECHNOLOGY

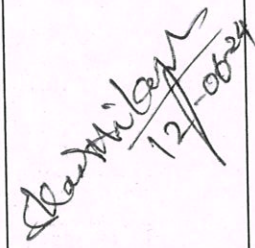
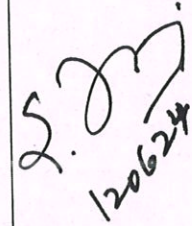
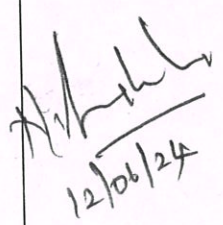
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MEMBER OF BOARD OF STUDIES

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2	Dr.Simon Jeyaraj	Professor, Department of Mechanical Engineering, National Institute of Technology, Calicut.	External Expert - Academics	 12/06/24
3	Dr.P.Vamsi Krishna	Professor, Department of Mechanical Engineering, National Institute of Technology, Warangal.	External Expert - Academics	Attended Online
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9	Mr.D.Ajithkumar	Assistant Professor, MECH, JIT, Chennai.	Member	Signature 12/6/24
10	Mr.J.Sudhakar	Assistant Professor, MECH, JIT, Chennai.	Member	J. 12.6.24
11	Mr.M.Kubendiran	Assistant Professor, MECH, JIT, Chennai.	Member	Signature 12/6/24
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