



**JEPPIAAR INSTITUTE OF TECHNOLOGY**

(An Autonomous Institution)  
Self-Reliant | Self-Discipline | Self-Respect

Kunnam, Sunguvarchattram, Sriperumbudur-631604



**MINUTES OF MEETING**  
**1<sup>st</sup> BOARD OF STUDIES MEETING**

**DATE: 05.06.2024 at 11.00 AM**

**VENUE: Online mode using Microsoft Teams in Syndicate Room**

The 1<sup>st</sup> 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 05.06.2024 at 11.00 AM in the syndicate room of the institute through online 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. Discussion and approval of 4 years structure.
3. Discussion and approval of curriculum contents.

Mr.S.Arjun, 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.

**Following insights were given by Dr.N.Sendhil Kumar:**

- Suggested to include the subject Renewable Energy System either as core or elective paper in higher semester.
- Advised to include the standard textbooks and references with recent editions in curriculum.
- Since the curriculum has to be framed for 140 credits as per National Educational Policy, suggested to reduce the repeated topics and contents and club the subjects.
- Suggested not to have the theory and laboratory of the subject in different semesters.
- Since students wouldn't have much knowledge about the mechanical components in 1<sup>st</sup> year, Computer aided machine drawing laboratory is to be moved to higher semesters instead of 2<sup>nd</sup> semester.
- The subject Fundamentals of Robotics in 7<sup>th</sup> semester can be renamed as robotics or Robotics and automation as per the content given in the curriculum.

**Following insights were given by the Dr.Simon Jeyaraj:**

- The subject computational physics in 1<sup>st</sup> semester should contain the topics from molecular physics and similarly it is suggested to have subject in chemistry.
- Manufacturing process I can be renamed as Manufacturing Engineering or Manufacturing Technology, since the topics like casting, welding, sheet metal, forming and injection moulding are covered.
- Manufacturing Process II can be renamed as Machine tools & machining science, since the curriculum is framed with advanced machining process topics such as Computer Numerical Controls and special machines.
- It is advised to change the subject Heat and Mass Transfer from 4<sup>th</sup> year to 3<sup>rd</sup> year.

- Computational Fluid Dynamics or Finite Element Analysis subjects can be given as core subject in 3<sup>rd</sup> year of the course.
- It is suggested to had programming subjects and electronics-based subjects in 2<sup>nd</sup> or 3<sup>rd</sup> year, since students must know the basics of multidisciplinary domains.
- Subject name Manufacturing Process in Elective should be renamed as Advanced Machining Process or Non-traditional machining processes.
- Suggested to rename the title Advanced IC Engines as Modern IC engines.

**Following insights were given by the Dr.P.Vamsi Krishna:**

- It is suggested to include Artificial Intelligence and Machine Learning subject has one of the elective courses.
- CAD/CAM subject has to brought into core paper in 3<sup>rd</sup> year instead of framing it in elective course. It is also suggested to frame the topics in particular to Design and Manufacturing since Computer Integrated Manufacturing course is listed in electives.
- It is advised to frame the topics related to metrology and measurements in Mechanical Measurements & Metrology which is in 6<sup>th</sup> semester and topics related to control systems in Instrumentation & control in elective course.
- Subject name Kinematics and dynamics have been shown as core and in elective. It is suggested to change the name in elective course as Mechanical Vibrations.
- Industrial engineering and operations research paper have been placed in 6<sup>th</sup> semester. Suggested to have separate paper for Industrial management as core subject in 4<sup>th</sup> semester and Operations Research as separate subject either in core or elective.

**Following insights were given by the Mr.N.Lakshmi Narasimhan:**

- Suggested to move the subject Engineering Graphics and Engineering Practices laboratory to semester 1.
- Industry specific topics such as Geometric Dimensioning and Tolerance (GD&T), advanced metrological techniques and instruments, six sigma, 5S concepts, Total Productive Maintenance (TPM) to be added in curriculum.

**Following insights were given by Alumni & Faculties:**


- Our alumni suggested to frame the syllabus with recent technologies and developments in core domine such as DRONE technologies, Industrial Internet of Things, Industrial



Automation and Additive Manufacturing which motivates the students to participate in more professional society events ASME, SAE and IEEE.

- Faculty members suggested to have Engineering practices laboratory common to all the departments in 1<sup>st</sup> year.
- Faculty members suggested to have computer science-based subjects such as Data Science, Database Management System, Machine learning, etc as open electives.
- Faculties suggested to have a list of subjects from the following domains as electives
  1. Design
  2. Management
  3. Materials
  4. Manufacturing
  5. Thermal & Energy Engineering
  6. Advanced Technologies
  7. Information Technology

Finally Dr.Shenbaga Ezhi, IQAC Director concluded the meeting by summarizing the suggestions given by BoS members and vote of thanks. Also, she invited the BoS members for offline meeting scheduled on 12.06.2024.

  
S.ARUN,

Assistant Professor,  
Department of Mechanical Engineering



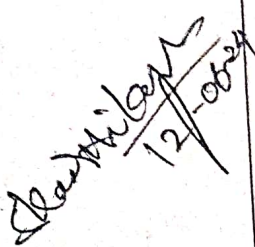
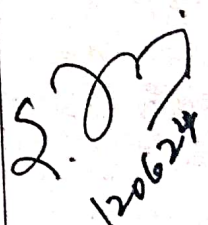
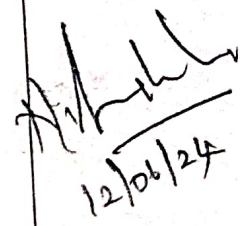
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## MEMBER OF BOARD OF STUDIES

S.No	Name	Designation	Role	Signature
1	Dr.S.Karthikeyan	Professor & Head, Department of Mechanical Engineering, Jeppiaar Institute of Technology, Chennai	Chairman	 12/06/24
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
4	Dr.N.Sendhil Kumar	Associate Professor, Department of Mechanical Engineering, National Institute of Technology, Karaikal, Puducherry.	University Representative	 12/06/24
5	Mr.N.Lakshminarasimhan	Senior General Manager (P&HR), Brakes India Pvt Ltd, Padi, Chennai.	Eternal Expert - Industry	Attended Online
6	Mr.Sridhar Dheena	Strategic Sourcing Lead, PSA Stellantis, Therapakkam, Chennai.	Eternal Expert - Industry	Attended Online



	Mr.M.I.Abdhul Halik	Operations lead, Forte Consulting, Chennai.	Alumni Member	Attended Online
8	Mr.S.Arun	Assistant Professor, MECH, JIT, Chennai.	Member	S.A. 12/6/24
9	Mr.D.Ajithkumar	Assistant Professor, MECH, JIT, Chennai.	Member	D.A. 12/6/24
10	Mr.J.Sudhakar	Assistant Professor, MECH, JIT, Chennai.	Member	J.S. 12/6/24
11	Mr.M.Kubendiran	Assistant Professor, MECH, JIT, Chennai.	Member	M.K. 12/6/24
12	Mr.M.Sugadevaboopathi	Assistant Professor, MECH, JIT, Chennai.	Member	M.S. 12/6/24
13	Mr.S.Jasper	Assistant Professor, MECH, JIT, Chennai.	Member	S.J. 12/6/24