

14th Board of Studies Meeting

Venue: Mechanical Board Room (Hybrid)

Date: 19.11.2025

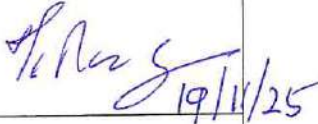
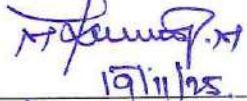
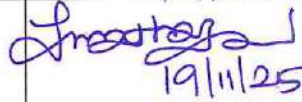
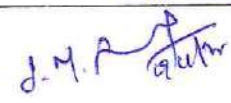
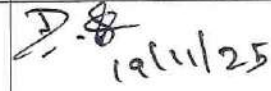
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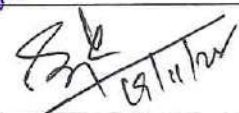
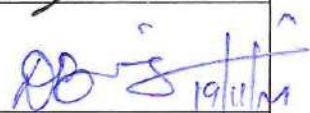
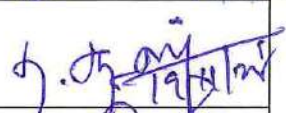
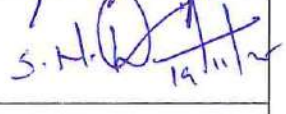
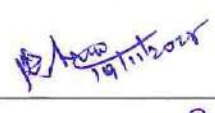
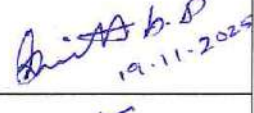
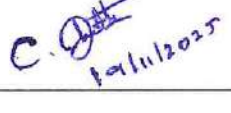
Time: 09.30 AM

Agenda:

- Action Taken Report on the recommendations of the previous BoS meeting.
- Curriculum structure (Semesters III to VIII) under Regulations 2025.
- Syllabi for Semesters III and IV under Regulations 2025.
- Proposal for Additional Credit Courses (e.g., 1CC, VAC, MOOC, etc.) under Regulations 2025.
- Ratification of items, if any.
- Inclusion of open elective course (Kone Elevators) under Regulations 2021.
- Review and discussion of CO/PO targets.
- Review and discussion of CO-PO mapping.
- Approval of Examiners for question paper setting and valuation.
- Discussion on Any Other Matters.

Members Present :

S.No	Name of the member with Designation	Category	Signature
1.	Dr. S. Ramesh Babu Professor & HoD	Chairman	
2.	Dr. K. Ragu Professor Department of Mechanical Engineering PSG College of Technology, Coimbatore	University Nominee	
3.	Dr. A. Arockiarajan Professor, Department of Applied Mechanics Indian Institute of Technology Madras, Chennai	Academic Expert-1	Online 
4.	Dr. E. Balasubramanian Professor & Head, CIA Department of Mechanical Engineering, NITTTR Chennai.	Academic Expert-2	Online 
5.	Dr. C. S. Rajamanickam Head –Thermal Management TATA AutoComp Systems Ltd. Technical Centre, Pune	Industry Expert	Online 
6.	Mr. A. R. Danavignesh Deputy Manager, Purchase Velan Valves India, Coimbatore	Alumini	
7.	Dr.B.Arulmurugan Associate Professor Mechanical Engineering, KPRIET	Faculty	
8.	Dr.M.Makeshkumar Associate Professor Mechanical Engineering, KPRIET	Faculty	
9.	Dr.N.Mathan Kumar Associate Professor Mechanical Engineering, KPRIET	Faculty	
10.	Dr.S.M.Senthil Associate Professor Mechanical Engineering, KPRIET	Faculty	
11.	Dr.R.Shenthilkumar Associate Professor Mechanical Engineering, KPRIET	Faculty	

12.	Dr. R. Anandkumar Assistant Professor III Mechanical Engineering, KPRIET	Faculty	
13.	Dr.N.Karthi Assistant Professor III Mechanical Engineering, KPRIET	Faculty	
14.	Dr.S.Gokulkumar Assistant Professor III Mechanical Engineering, KPRIET	Faculty	
15.	Mr.D.Balaji Assistant Professor III Mechanical Engineering, KPRIET	Faculty	
16.	Dr.N.Udhayakumar Assistant Professor II Mechanical Engineering, KPRIET	Faculty	
17.	Mr.S.N.Dinesh Assistant Professor II Mechanical Engineering, KPRIET	Faculty	
18.	Mr.P.Arunkumar Assistant Professor II Mechanical Engineering, KPRIET	Faculty	
19.	Mr.S.P.Srinath Final Year student, KPRIET	UG student	
20.	Mr.Chandrasekar Dhushanth Final Year student, KPRIET	UG student	

Minutes of the 14th Board of the Studies Meeting:

The meeting started with the Chairman, Dr.S.Ramesh Babu, HOD, Department of Mechanical Engineering welcoming the members of the Board of Studies and presented the Vision, Mission, POs, PEOs, and PSOs.

Following points were discussed at the Board of Studies:

RESOLUTIONS:

1. Action taken on the minutes of the 13th BOS meeting:

The minutes of the 13thBoS meeting and the action taken there on are approved

S. No.	Minutes of 13 th BoS Meeting	Action Taken/ Remarks
1.	The committee recommended to restructure the syllabus of the Introduction to Mechanical Elements course and aligning the theoretical content with the corresponding laboratory experiments.	The syllabus has been revised to include fundamental concepts, and the theoretical modules are now directly mapped to laboratory experiments.
2.	Suggested renaming of the Interfacing of Electronics and Electrical Components course Unit II from "Introduction to Arduino" to "Introduction to Microprocessor and Microcontroller."	The unit title has been updated to "Introduction to Microprocessor and Microcontroller" in the revised syllabus.
3.	Suggested incorporating thermodynamics topics into the Basics of Mechanical Engineering course.	Core concepts of thermodynamics have been integrated into the Basics of Mechanical Engineering syllabus.
4.	Recommended changing the title of Unit II in the Introduction to Design Thinking course.	The title of Unit II has been revised in accordance with the committee's recommendation.

2. Curriculum I to VIII semesters of UG Programme under Regulations 2025

Dr. K. Ragu University Nominee **suggested** that the course title may be revised to **"Design of Transmission System"** instead of **Design Transmission System**.

The BOS members reviewed and approved the curriculum of I to VIII Semester(s) of UG Programme under Regulations 2025.

3. Syllabus for III and IV semesters for B.E. Mechanical Engineering and Syllabus for IV semester (open elective) offered to other departments of UG Programme under Regulations 2025

S.No.	Subject	Suggestions
Dr. Balasubramanian - Academic Expert		
1	U25ME302 - Engineering Materials and Metallurgy	All Course Outcomes (COs) are currently mapped at the apply level. The course in-charge may review and confirm the suitability of the mapped knowledge levels.
2	U25ME303- Manufacturing Technology	The title of CO5 (Unit V) may be revised from "Automatic and CNC Machines" to "CNC Machines and Automation" for better clarity and relevance.
3	U25ME304 - Fluid Mechanics and Machinery	All COs are mapped at the apply level. The course in-charge may verify the appropriateness of the knowledge levels.
4	U25ME305 – Mechanics of Solids	The topic " Theory of Failures " may be included in Unit II or Unit III , as both units extensively cover beam-related concepts.
5	Motor Drives and Control (EEE Paper)	Basic concepts of electrical drives and introduction and types of motors may be incorporated in Unit I .
6	Robotic welding	➤ Total contact hours may be revised from 13 hours to 15 hours since it is a one credit course. ➤ Wire Arc Additive Manufacturing can be included as an additional topic. ➤ The title "Robotic Welding" may be reconsidered since the content falls under Emerging Technologies
7	U25ME401 - Sensor and Transducers	➤ The knowledge level of CO5 may be upgraded from understand to apply level. ➤ CO-PO mapping may be revisited and refined. ➤ Additional topics such as motion detectors, encoders, and potentiometers may be added to Unit II.
8	U25ME402 - Thermal Engineering	The course content may be reduced as the current syllabus appears extensive for the allotted hours.
9	U25ME403 - Theory of Machines	In Unit I , analytical methods may be added alongside graphical methods for comprehensive learning.
10	U25MEX01-Additive Manufacturing and 3D-Printing	The topic Design for Additive Manufacturing (DfAM) may be moved to Unit I instead of being listed under beyond syllabus content.

S.No.	Subject	Suggestions
Dr. K. Ragu – University Nominee		
11	U25MEX01-Additive Manufacturing and 3D-Printing	➤ In Unit IV, the wording may be updated to "Principle & Process" instead of "principle process." ➤ A thorough review of the unit content is recommended.
Mr. A.R. Danavignesh - Alumnus		
12		➤ A few minor typographical errors may be corrected. ➤ Course Objectives, Course Outcomes, and CO-PO mapping may be reviewed for consistency and accuracy.

4. Proposal for Additional Credit Courses (e.g., 1CC, VAC, MOOC, etc.) under Regulations 2025

The BOS members reviewed and approved the following Proposed additional Credit Courses (e.g., 1CC, VAC, Capsule and MOOC, etc.) under Regulations 2025.

I - Industry Oriented One Credit Courses

- CNC Programming and Operation
- Geometric Dimensioning and Tolerancing
- Industrial Internet of Things
- Special Machine Techniques
- Robot Programming
- Non-Destructive Testing

II - Value Added Courses

- Plant Layout using Tecnomatix
- Practical Computational Fluid Dynamics
- Design of Experiments using Minitab
- Battery Assembly & Battery Management System

III - Capsule Course

- Prototyping and Reverse Engineering - Hands on Training
- Electric Vehicle - Foundation Course

IV - Online/MOOC Courses

- NPTEL courses

5. Ratification of items, if any.

U25MEG02 – Basics of Mechanical Engineering (1-0-2-0-2) TwL
(For Second semester of other Departments)

Unit IV: Energy Conversion Systems

Existing

Engines - IC engines - Petrol and diesel engines, two stroke and four stroke engines - General layout of electric vehicle – Power plant - Working – Thermal power plant, nuclear power plant, gas power plant - Renewable energy - Solar, wind, tidal, OTEC.

Changes

Introduction to IC and EC Engines – General layout and working of electric vehicle – Power plant – Working and types – Thermal power plant, Hydro power plant, nuclear power plant and gas power plant.

List of Experiments

Existing:

1. Determine the velocity ratio using simple and compound gear trains
2. Construct and demonstrate a basic pneumatic circuit using single-acting and double-acting cylinders
3. Perform step turning operation on a lathe machine
4. Perform drilling operation on drilling machine
5. Demonstrate the working of 3D printer by printing a simple object
6. Determination of heat transfer coefficient under natural convection from vertical cylinder
7. Verification of Bernoulli's theorem
8. Performance characteristics of a centrifugal pump
9. Determination of port timing of two-stroke engine
10. Determination of valve timing of four-stroke engine

Changes

1. Determine the velocity ratio using simple and compound gear trains
2. Construct and demonstrate a basic pneumatic circuit using single-acting and double-acting cylinders
3. Demonstrate the working of 3D printer by printing a simple object

4. Determination of heat transfer coefficient under natural convection from vertical cylinder
5. Verification of Bernoulli's theorem
6. Performance characteristics of a centrifugal pump
7. Demonstrating components of IC engines.

The BOS members reviewed and approved the same.

6. Inclusion of open elective course (Kone Elevators) under Regulations 2021.

The BOS members reviewed and approved the syllabus of VI semester course - **Vertical Transportation Systems** offered under open elective for Regulations 2021.

7. Review and discussion of CO/PO targets.

The BOS members reviewed and approved the same.

8. Review and discussion of CO-PO mapping.

Course Objectives, Course Outcomes, and CO-PO mapping may be reviewed with the Course in-charge for consistency and accuracy.

9. Approval of Examiners for question paper setting and valuation.

All BoS members reviewed and approved the list of examiners for question paper setting and valuation purposes.

10. Discussion on Any Other Matters.

- All members of the BoS reviewed and approved the Mandatory Credit Courses under the Innovation category—Pitch Deck for Startup offered in the 3rd semester and Innovation for Enterprise Creation offered in the 4th semester.
- The BOS Chairman presented the **B.E./B.Tech. Honours and Minor Degree** offered under Regulations 2025 for B.E. Mechanical Engineering Students.
- It is resolved that the recommendations may be passed to the standing committee of the academic council.



19/11/25
Chairman-BoS/MECH