Minutes of Fourteen Board of Studies Meeting

Venue: EEE Board Room / Hybrid

Date: 27.04.2026

Meeting ID: 950 0026 4659

Time: 10.00 a.m.

Agenda:

- Dissemination of Vision and Mission of the department
- Dissemination of PEOs and PSOs of the UG and PG Programs
- Discussion on the minutes of previous BoS meeting and action taken
- Discussion on Stakeholders inputs on curriculum design under Regulations 2025 for UG and Regulation 2026 for PG
- Review and approve the transition from the old R2025 curriculum to the revised curriculum for semesters I and II
- Discussion on curriculum and syllabi for the semesters III and IV under Regulations 2025.
- Discussion on Service Course and Open Elective syllabi offered to other programs under Regulations 2025
- Discussion on B.E. (Hons) / Minor degree
- Proposal for Additional Credit Courses (MOOC, Industry offered courses and Value added courses)
- Discussion on Capsule courses
- Discussion on curriculum and syllabi for the semesters I to IV under Regulations 2026 (PG)
- Discussion on Industrial training / Internship
- Review and discussion of PO/PSO Targets
- Any other matter brought by the chair

Members Present:

S.No	Name of the member with Designation	Category	Signature
1.	Dr. K. Mohana Sundaram Professor & HoD/EEE, KPRIET	Chairman	Attended Online
2.	Dr. N. Narmadhai, Professor Department of Electrical and Electronics Engineering Government College of Technology, Coimbatore.	University Nominee	Attended Online
3.	Dr. S. Jeevananthan, Professor, Department of Electrical and Electronics Engineering Puducherry Technological University, Puducherry - 605 014	Academic Expert-1	Attended Online
4.	Dr. Obbu Chandra Sekar Professor, Department of Electrical Engineering National Institute of Technology Delhi, Delhi – 110036	Academic Expert-2	Attended Online

5.	Mr. P. Sivaraman Power Plant Control Engineer Schneider Electric solar India Pvt Ltd, Chennai	Industry Expert	Attended Online
6.	Er. Sriramprakash Senthilraj (Batch: 2014) Lead Engineer Bosch Global Software Technologies, Coimbatore	Alumnus	Attended Online
7.	Er. Vandana Singhal Ex-Chief Engineer (DP&R) Central Electricity Authority Ministry of Power (Govt. of India), New Delhii	Professor of Practice	Attended Online
8.	Dr. V. S. Chandrika, Professor/EEE	Faculty Member	
9.	Dr. C. Pazhanimuthu, AsP/EEE	Faculty Member	
10.	Dr. G. Saravanan, AP/EEE	Faculty Member	
11.	Dr. I. Baranilingesan, AP/EEE	Faculty Member	
12.	Dr. S. Ravindran, AP/EEE	Faculty Member	
13.	Dr. T. Ramesh Kumar, AP/EEE	Faculty Member	
14.	Dr. P. Ravikumar, AP/EEE	Faculty Member	
15.	Dr. B. Lalitha, AP/EEE	Faculty Member	
16.	Ms. R. Revathi, AP/EEE	Faculty Member	
17.	Dr. A. Mohamed Ibrahim, AP/EEE	Faculty Member	
18.	Mr. V. Kamalkumar, AP/EEE	Faculty Member	
19.	Mr. C. J. Vignesh, AP/EEE	Faculty Member	
20.	Dr. C. Dinesh, AP/EEE	Faculty Member	
21.	Mr. K. Balamurugan, AP/EEE	Faculty Member	
22.	Mr. M. Mohanasundaram, AP/EEE	Faculty Member	
23.	Ms. T. Subika, IV EE	Student Member	
24.	Mr. V. Kavin, IV EE	Student Member	
25.	Ms. K. Yazhini, III EE	Student Member	
26.	Mr. A. Pranav, III EEE	Student Member	

Minutes of the 14th Meeting of the Board of Studies

The meeting started with the Chairman's welcome note to all the members of the Board of Studies.

The following points were discussed during the meeting.

1. **The Vision and Mission of the department were presented to the members.**

VISION

To be a premier centre for quality education, innovation and research in the field of Electrical and Electronics Engineering to meet the global challenges with professional ethics and social consciousness.

MISSION

- Provide a holistic environment to students through knowledge-centric and skill-based education
- Collaborate with industries for effective research and innovation in Electrical Engineering and allied areas
- Enable students to serve the society through prolific ideas with professionalism and ethical values

2. **The PEOs and PSOs of the UG and PG programs were presented to the members.**

PROGRAM EDUCATIONAL OBJECTIVES (PEOs)

The Graduates of B.E. Electrical and Electronics Engineering, four years after graduation, will

PEO1: Apply the acquired knowledge and skills to meet the emerging needs of the society and also excel in their chosen profession

PEO2: Adapt to emerging technologies and continuously upskill through active research in Electrical Engineering and allied areas

PEO3: Demonstrate leadership skills and practice their profession conforming to ethical and human values

PROGRAM SPECIFIC OUTCOMES (PSOs)

The Graduates of B.E. Electrical and Electronics Engineering will be able to

PSO1: Analyse, design and test power electronic components integrated with computer-based systems to meet industrial and societal needs

PSO2: Deploy modern engineering tools to model, simulate, fabricate and integrate electrical systems with renewable energy to enhance sustainability

M.E. – EMBEDDED SYSTEMS

PROGRAM OUTCOMES (POs)

The Graduates of Embedded Systems will be able to

PO1: An ability to independently carry out research /investigation and development work to solve practical problems

PO2: An ability to write and present a substantial technical report/document

PO3: An ability to demonstrate a degree of mastery in embedded systems domain

PO4: An ability to work on professional software tools in the field of embedded system design through continuous learning

PO5: An ability to apply ethical principles and function effectively as an individual or team to design sustainable, energy-efficient and socially responsible embedded systems

PROGRAM EDUCATIONAL OBJECTIVES (PEOs)

The Graduates of Embedded Systems, four years after graduation, will

PEO1: Apply the acquired knowledge and skills to meet the emerging needs of the society and also excel in their chosen profession

PEO2: Adapt to emerging technologies and continuously upskill through active research in Embedded Systems and allied areas

PEO3: Demonstrate leadership skills and practice their profession conforming to ethical and human values

3. Action taken on the minutes of the 13th BoS meeting

- The 13th BoS Meeting was conducted on 25/11/2025 and all the suggestions were noted and incorporated.

Action taken on the suggestion given by Dr. Obbu Chandra Sekar

S. No.	SUGGESTIONS	ACTION TAKEN
1	The Electromagnetic Theory and Applications course credit may be changed to 3 credits, to allow sufficient contact hours for the depth of the subject.	As per the suggestion, the credit of the Electromagnetic Theory and Applications course was changed to 3.
2	The Measurement and Instrumentation course may be offered in Semester V along with intelligent measurement techniques, so that students study them after building the necessary foundation.	It will be incorporated in the Semester V syllabus, which will be taken up in the next BoS meeting.

Action taken on the suggestion given by Dr. N. Narmadhai

S. No.	SUGGESTIONS	ACTION TAKEN
1	All theory courses in Semesters III and IV may be standardized to 3 credits, to maintain uniformity in the credit structure.	All theory courses in Semesters III and IV have been revised to 3 credits.
2	The Analog and Digital Electronics Laboratory may be offered separately, so that each laboratory gets adequate time and focus for its experiments.	The Digital Logic Design course has been changed to a Theory with Laboratory course of 3 credits. The Analog Electronics and Application Laboratory has been introduced with project components.
3	The Microprocessor and Microcontroller Laboratory may be offered along with the theory course, so that the practical sessions are integrated with the concepts taught in theory.	The suggestion has been incorporated.
4	In the Measurements and Instrumentation course syllabus, the working principles of moving-coil and moving-iron instruments may be added and the reference books may be updated, to strengthen the understanding of basic instruments and to keep the references current.	It will be incorporated in the Semester V syllabus, which will be taken up in the next BoS meeting.

Action taken on the suggestion given by Er. Sriramprakash Senthilraj

S. No.	SUGGESTIONS	ACTION TAKEN
1	The PIC microcontroller may be included in the syllabus of the Microprocessors and Microcontroller course, to enhance practical exposure and industrial relevance.	The PIC microcontroller has been added to the Microprocessors and Microcontroller course syllabus.

Action taken on the suggestion given by Er. Vandana Singhal

S. No.	SUGGESTIONS	ACTION TAKEN
1	Basic metering related topics may be incorporated into the Power Transmission and Distribution course, to strengthen foundational understanding.	The basic and smart metering topics have been added to the Power Transmission and Distribution course.

Action taken on the suggestion given by Mr. P. Sivaraman

S. No.	SUGGESTIONS	ACTION TAKEN
1	The DC measurement techniques, Rogowski coil operation and IoT integration topics may be added in the Measurements and Instrumentation course syllabus, to cover the measurement practices followed in present-day industry.	It will be incorporated in the Semester V syllabus, which will be taken up in the next BoS meeting.
2	Job-oriented value-added courses such as Power System Simulation using ETAP and Power Electronics Devices Simulation using PSIM may be offered in the 6th or 7th semester, to improve the employability of students.	The simulation-based value-added courses will be introduced in the upcoming semesters.
3	The Power Transmission and Distribution syllabus may be updated by referring to CEA guidelines, Indian and IEEE standards, and the SCADA Architecture topic may be included, to align the course with the practices followed in the power sector.	Based on the CEA guidelines and IEEE standards, the Power Transmission and Distribution course syllabus has been updated and the SCADA topic has been included.
4	The Power Quality Mitigation techniques may be introduced as an elective course, to equip students to address power quality issues in modern power systems.	The Power Quality Mitigation techniques will be added as a professional elective course.
5	Subjects such as HVDC, High Voltage Engineering and FACTS may be incorporated into the curriculum, to give students exposure to the advanced transmission technologies used in the power sector.	The suggested courses will be added in the forthcoming semesters.

Action taken on the suggestion given by Dr. S. Jeevananthan

S. No.	SUGGESTIONS	ACTION TAKEN
1	In the Electrical Machines course, the topics “Three-phase transformer connections, Parallel operation and Autotransformer” may be included, as they are fundamental to the practical application of transformers.	The topics “Three-phase transformer connections, Parallel operation and Autotransformer” have been included in the Electrical Machines – I course.

2	In the Electrical Machines course, the relevant Indian Standards for rotating electrical machines and the IP standards for electrical machines may be included, so that students are aware of the standards followed for the rating and protection of machines.	As per the suggestion, the relevant standards have been included in the Electrical Machines – II course.

4. Discussion on Stakeholders' inputs on curriculum design under Regulations 2025 for UG and Regulations 2026 for PG

- The inputs received from stakeholders through feedback and during the Internal BoS Meeting were presented to the members of BoS for further necessary action.

5. Review and approve the transition from the old R2025 curriculum to the revised curriculum for semesters I and II

- The Chairman presented the revised curriculum and syllabi under Regulations 2025 addressing all course additions, removals, code modifications and structural shifts as suggested by the stakeholders for discussion and approval. The Board deliberated on the proposed changes in detail and resolved the following:
- The Board reviewed the proposed changes systematically and unanimously approved the modifications, adjusting the total credits of Semester I from 19 to 18 and of Semester II from 21 to 22. A universal update of the course codes, adopting an "R" prefix to denote the revised curriculum, was also approved.

a. Changes in Semester I Curriculum

S. No.	Course Code & Course Name	Modification	Remarks
1	U25ENG01 - English Proficiency I	Revised to Professional Communication – I (U25REN01)	To transition the focus from basic language proficiency to industry-oriented professional communication.
2	U25MA101 - Calculus and Differential Equations	Replaced with Multivariable Calculus and Applications (U25RMA101).	To provide a more specialized mathematical foundation that directly applies to core electrical engineering concepts.
3	U25CSG01 - Problem Solving using C Programming	Split into a distinct theory course, "C Programming" (U25RCSG01) and a dedicated lab, "C Programming Lab" (U25RCSG02).	To ensure students receive dedicated practical laboratory time to strengthen their coding fundamentals.
4	U25MEG03 - Engineering Graphics	Shifted from Semester II to Semester I as "Engineering Graphics" (U25RMEG01).	To introduce foundational drafting and design skills earlier in the engineering timeline.

5	U25RGE01 - Makerspace	A new laboratory course, "Makerspace" (U25RGE01), is introduced.	To cultivate a hands-on, innovation-driven mindset from the very beginning of the degree.
6	U25CY102 - Applied Chemistry for Electronics Engineers	This course was removed from Semester I, with "Engineering Chemistry" (U25RCY01) now introduced in Semester II.	To balance the cognitive load of basic science courses across the first year.
7	U25CSG03 - Digital Technologies	"Digital Technologies" (U25CSG03) and "Electrical Engineering Disciplines and Skills" (U25EE101) were removed from Semester I.	To streamline the first semester to focus purely on foundational sciences, mathematics and programming.
8	U25RMNC01 - Induction Program	The 3-credit Induction Program is split. "Induction Program" (U25RMNC01) is now a 3-week Mandatory Non-Credit course, and "Universal Human Values" (U25RMCC01) is offered as a 3-credit Mandatory Credit Course.	To align strictly with AICTE guidelines for non-credit prerequisites while maintaining academic rigor for UHV.

b. Changes in Semester II Curriculum

S. No.	Course Code & Course Name	Modification	Remarks
1	U25ENG02 - English Proficiency II	"English Proficiency II" (U25ENG02) is updated to "Professional Communication - II" (U25REN02)	To maintain continuity with the first-semester changes and reinforce corporate readiness.
2	U25PH205 - Physics for Electrical and Electronics Engineering	"Physics for Electrical and Electronics Engineering" (U25PH205), is replaced by "Material Science" (U25RPH03)	Material science provides crucial underlying knowledge for semiconductors, insulators, and magnetic materials.
3	U25CSG05 - Computational Problem Solving using Python	"Computational Problem Solving using Python" (U25CSG05) is decoupled into "Python Programming" (U25RCSG03) and "Python Programming Laboratory" (U25RCSG05)	A dedicated laboratory component yields better algorithmic understanding and debugging skills.
4	U25EE201 - Electric Circuit Analysis	"Electric Circuit Analysis" (U25EE201) is divided into a theory component (U25REE201) and "Electric Circuit Analysis Laboratory" (U25REE202)	Circuit analysis is a core pillar of EEE; a separate 4-hour lab ensures critical hands-on experience.
5	Basics of Civil Engineering	"Basics of Civil Engineering" and "Basics of Mechanical Engineering" are entirely removed.	To free up credit space for deeper focus on modern programming and specialized EEE subjects in line with AICTE norms.

6	U25RMCC03 - Design Thinking	"Design Thinking" (U25RMCC03) is moved to Semester II. "Environmental Science and Sustainability" (U25RMCC04) is moved to Semester I.	Students are better equipped for Design Thinking after Makerspace in Sem I. EVS is moved to Sem I to instil sustainable practices from day one.

- The Board reviewed the updated curriculum matrix and found it to be aligned with current industry standards and pedagogical best practices. The revised curriculum under Regulations 2025 (Revised) for Semesters I and II was officially approved by the BoS for immediate implementation.

6. Discussion on curriculum and syllabi for the semesters III and IV under Regulations 2025

- The curriculum and syllabi for Semesters III and IV under Regulations 2025 (UG) were discussed. All the suggestions given by the BoS Members were reviewed and approved.

7. Discussion on Service Course and Open Elective syllabi offered to other programs under Regulations 2025

- The Service Course and Open Elective syllabi offered to other programs under Regulations 2025 were discussed and approved by the BoS members.

8. Discussion on B.E. (Hons) / Minor degree

- The B.E. (Hons) and Minor courses were discussed and approved by the BoS members.

9. Proposal for Additional Credit Courses (MOOC, Industry-offered courses and Value-added courses)

- Members of BoS approved all the MOOC/Online Courses, One Credit Courses, Value-Added Courses, Industry-offered courses and Liberal Arts courses.

10. Discussion on Capsule courses

- BoS Members approved the following capsule courses for the academic year 2026 – 2027.

S.No.	Course Title	Offered in
1.	Emotional Intelligence in Leadership	III Semester

11. Discussion on curriculum and syllabi for the semesters I to IV under Regulations 2026 (PG)

M.E. – Embedded Systems (Regulations 2026)

- The curriculum and syllabi under Regulations 2026 (PG) were discussed. All the suggestions given by the BoS Members were reviewed and approved.

Dr. N. Narmadhai suggested the following points:

S.No.	SUGGESTIONS	ACTION TAKEN
1	Application-oriented topics may be included in the Embedded System Design course of the PG syllabus, to make the course more relevant to practical design problems.	Application-oriented topics have been included.
2	The Embedded System Design course is mentioned as a foundation course; it may be changed to a Professional Core Course (PCC), as it is a core subject of the programme.	The course has been changed to PCC and "Microcontroller Based System Design" has been introduced as the foundation course.

Er. Sriramprakash Senthilraj suggested the following points:

S.No.	SUGGESTIONS	ACTION TAKEN
1	RTOS based experiments may be added in the Embedded Systems Design Laboratory of the PG syllabus, to give students hands-on exposure to real-time programming.	RTOS based experiments have been included.
2	The Zephyr file topic may be added in the Real Time Operating System course of the PG syllabus, as Zephyr is widely used in the embedded industry.	The Zephyr file topic has been included.
3	OOP concepts may be added in the Embedded System Programming Laboratory of the PG syllabus, to enable students to write modular and reusable embedded code.	OOP concepts have been included.

12. Discussion on Industrial training / Internship

- BoS Members approved the list of industries across PAN India recommended for in-plant training / internship.

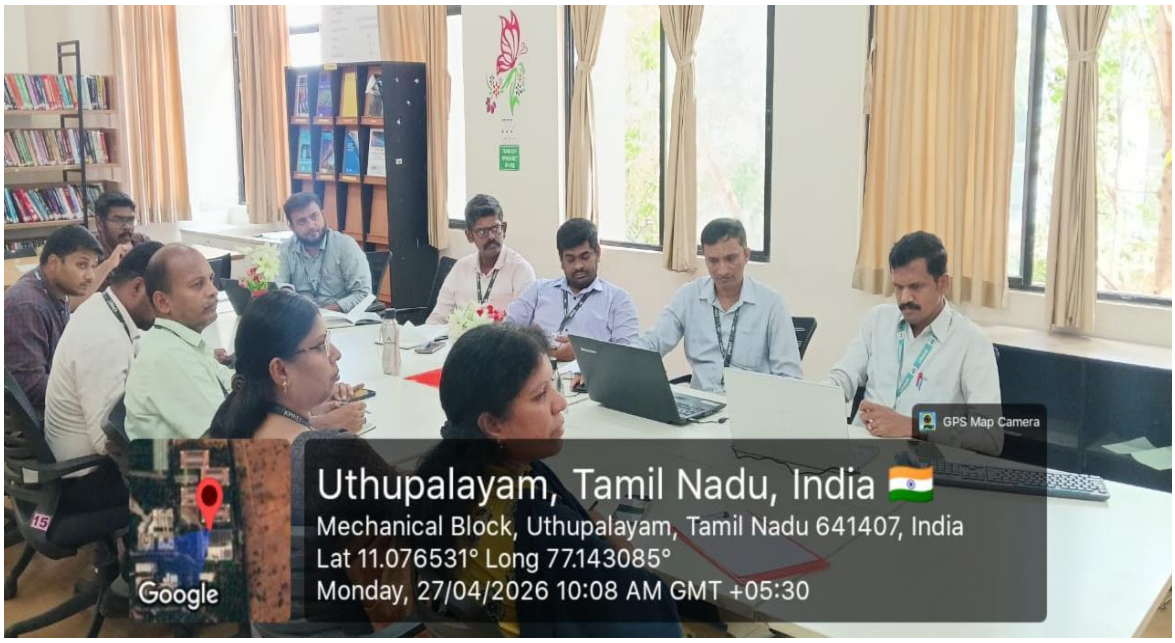
13. Review and discussion of PO/PSO Targets

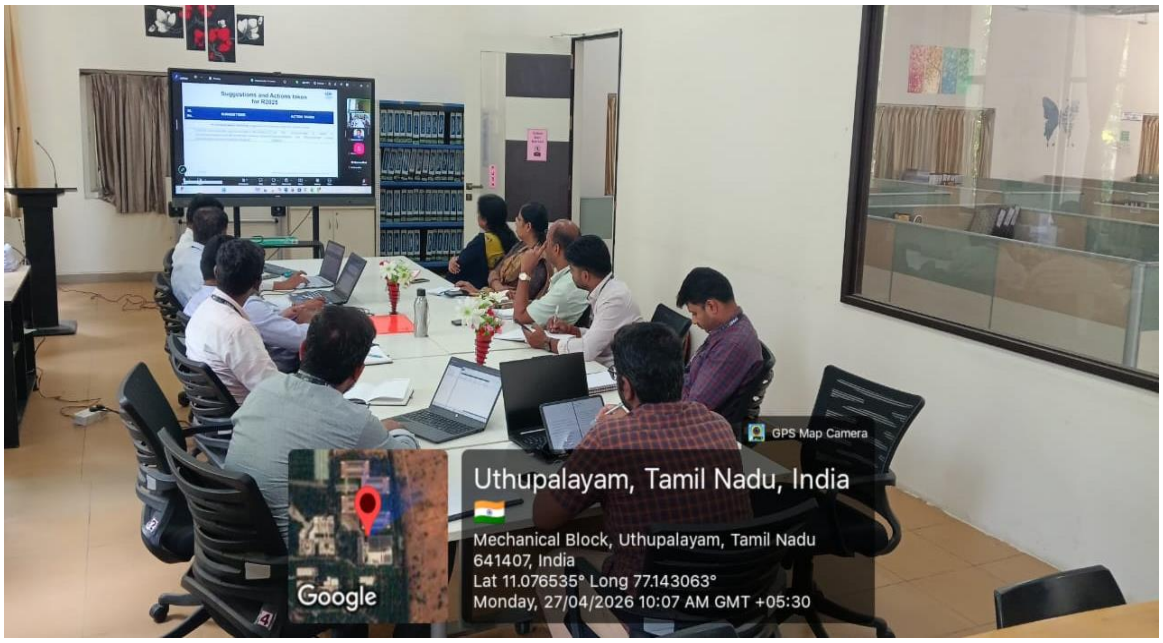
- The PO/PSO targets and their attainment in the department were reviewed by the BoS Members.

14. Any other matter brought by the Chair

- Other matters raised by the Chair were discussed and approved by the BoS members.

The meeting came to an end with a vote of thanks by the Chairman.





29/4/26
Chairman – BoS/EEE