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
8.	Er. Sriramprakash Senthilraj (Batch: 2014) Lead Engineer Bosch Global Software Technologies, Coimbatore	Alumnus	Attended Online
9.	Er. Vandana Singhal Ex-Chief Engineer (DP&R) Central Electricity Authority Ministry of Power (Govt. of India), New Delhii	Professor of Practice	Attended Online
10.	Dr. V. S. Chandrika, Professor/EEE	Faculty Member	
13.	Dr. C. Pazhanimuthu, AP/EEE	Faculty Member	
14.	Dr. G. Saravanan, AP/EEE	Faculty Member	
15.	Dr. I. Baranilingesan, AP/EEE	Faculty Member	
16.	Dr. S. Ravindran, AP/EEE	Faculty Member	
17.	Dr. T. Ramesh Kumar, AP/EEE	Faculty Member	
18.	Dr. P. Ravikumar, AP/EEE	Faculty Member	
19.	Dr. B. Lalitha, AP/EEE	Faculty Member	
20.	Ms. R. Revathi, AP/EEE	Faculty Member	
21.	Dr. A. Mohamed Ibrahim, AP/EEE	Faculty Member	
22.	Mr. V. Kamalkumar, AP/EEE	Faculty Member	
23.	Mr. C. J. Vignesh, AP/EEE	Faculty Member	
24.	Dr. C. Dinesh, AP/EEE	Faculty Member	
25.	Mr. K. Balamurugan, AP/EEE	Faculty Member	
26.	Mr. M. Mohanasundaram, AP/EEE	Faculty Member	
27.	Ms. T. Subika, IV EE	Student Member	
28.	Mr. V. Kavin, IV EE	Student Member	
29.	Ms. K. Yazhini, III EE	Student Member	
30.	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, PEOs and PSOs of UG and PG programs 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

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

2. 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.

3. Stakeholders input on curriculum design under Regulation 2025 for UG and Regulation 2026 for PG

- The inputs received from stakeholders during the Quality Improvement Committee (QIC) meeting and PAC meeting are presented to the members of BoS for further necessary action.

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

The Chairperson presented the revised curriculum and syllabi under Regulations 2025 addressing all course additions, removals, code modifications and structural shifts for discussion and approval. The Board deliberated on the proposed changes in detail and resolved the following:

a. The Board systematically reviewed the proposed changes. The committee unanimously approved the modifications, adjusting the total credits for Semester I from 19 to 18 and Semester II from 21 to 22. A universal update to course codes, adopting an "R" prefix was also approved to denote the revised curriculum.

b. 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 Laboratory" (U25RME01).	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, "Engineering Chemistry" (U25RCY01) now introduced in Semester II.	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.

c. Semester II Curriculum Changes

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 (Python) and specialized EEE subjects.
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 (Regulations 2025R) for Semesters I and II was officially approved by the BoS for immediate implementation.

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

a. Discussed about the curriculum and syllabus for the semester III and IV under Regulation 2025(UG) and curriculum and syllabi for the semesters I to IV under Regulations 2026(PG), the following suggestions are given by BOS Members and the same has been reviewed and approved.

B.E – Electrical and Electronics Engineering – Regulation 2025 UG

Dr. Obbu Chandra Sekar's suggested the following points:

S.No.	SUGGESTIONS	ACTION TAKEN
1	Electromagnetic Theory course credit may be changed to 3 credits.	As per suggestions, the Electromagnetic Theory course credit is changed from 2 to 3 credit.
2	The Measuring Instruments and Sensor Systems Laboratory may be offered with 1 credit while the Measurements and Instrumentation theory course may be structured as a 3 credit course.	The Measuring Instruments and Sensor Systems Laboratory credit is revised to one credit and Measurements and Instrumentation theory course credit is revised to 3 credit.

Dr. N. Narmadhai suggested the following points:

S.No.	SUGGESTIONS	ACTION TAKEN
1	All theory courses may be standardized to 3 credits.	All theory courses in III and IV semesters are now revised to 3 credits.
2	The Analog and Digital Electronics Laboratory may be offered with 1.5 credits with 3 hours of practical sessions.	The Digital Logic Design course is changed as Theory with lab course with 4 credit.
3	The Microprocessor and Microcontroller Laboratory may be offered with 1.5 credits with 3 hours of practical sessions.	The Microprocessor and Microcontroller Laboratory credit is revised to1 credit.
4	In 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.	The Measurements and Instrumentation course syllabus is revised and reference books updated.

Er. Sriramprakash Senthilraj suggested the following points:

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 is added in Microprocessors and Microcontroller course syllabus.

Er. Vandhana Singhal suggested the following points:

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

Mr. Sivaraman suggested the following points:

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.	In Measurements and Instrumentation course syllabus, DC measurement techniques, Rogowski coil and IoT integration topics are added.
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 6^{th} or 7^{th} semester.	The simulation based value added courses will be added in upcoming semester.
3	The Power Generation, Transmission and Distribution syllabus may be updated by referring to CEA guidelines, Indian and IEEE standards and the SCADA Architecture topic may be removed	Based on CEA guidelines and IEEE standards, the Power Generation Transmission and Distribution course syllabus is updated and the SCADA topic is removed
4	The Power Quality Mitigation techniques may be introduced as an elective course.	The Power Quality Mitigation techniques will be added in professional elective course

5	Subjects such as HVDC, High Voltage Engineering and FACTS may be incorporated into the curriculum.	The suggested courses will be added in forth coming semesters.

Dr. S.Jeevananthan suggested the following points:

S.No.	SUGGESTIONS	ACTION TAKEN
1	In Electrical Machines course, "Three phase transformer connections, Parallel operation, and Autotransformer" topics may be reviewed and detailed further for clarity and completeness.	The topics "Three-phase transformer connections, Parallel operation, and Autotransformer" in the Electrical Machines course have been reviewed. Additional sub-topics and detailed content have been incorporated to enhance clarity and completeness.
2	In Electrical Machines course, the content under each sub topic should be specified clearly. For the Autotransformer section, the topics to be included must be detailed such as whether three-phase autotransformers, copper saving and numerical problems are to be covered.	The Electrical Machines syllabus has been updated to clearly specify the content under each sub-topic. In the Autotransformer section, detailed coverage has been added including three-phase autotransformers, copper-saving concepts and relevant numerical problems to ensure clarity and completeness.
3	In Electrical Machines course, the qualitative content may include like nameplate interpretation of electrical machines; the relevant Indian Standards for rotating electrical (DC) machines (e.g., IS 4722:2001) covering DC machine specifications and the IP standards for DC electrical machines (e.g., IP65).	The qualitative content of the Electrical Machines course has been enhanced by incorporating nameplate data interpretation for various electrical machines. Additionally, the syllabus has been updated to include the relevant Indian Standards for rotating (DC) electrical machines such as IS 4722:2001, along with the IP standards applicable to DC machines (e.g., IP65) to strengthen students' practical and industry-oriented understanding.

M.E – Embedded Systems – Regulation 2026 PG

Dr. N. Narmadhai suggested the following points:

S.No.	SUGGESTIONS	ACTION TAKEN
1	List the application oriented topics in Embedded System Design course of PG syllabus.	Application oriented topics have been included.
2	Embedded system design course has been mentioned as foundation course. That has changed to be PCC.	Microcontroller based system design has to been introduced as foundation course.

Er. Sriramprakash Senthilraj suggested the following points:

S.No.	SUGGESTIONS	ACTION TAKEN
1	RTOS based experiments may be added in Embedded Systems Design Lab of PG syllabus.	RTOS based experiments included.
2	Zephyr file topic may be added in Real Time Operating System course of PG syllabus	Zephyr file topic has been included.
3	OOPS concepts may be added in Embedded System Programming lab of PG syllabus.	OOPS concepts have been included.

b. Discussion on Service Course syllabus offered to other programs under Regulations 2025

- Discussed about the Service Course syllabus offered to other programs under Regulations 2025 and approved by the BoS members

c. Discussion on B.E. (Honors) and Minor degree

Discussed the honors and minor courses and approved by the BoS members.

d. 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.

e. Discussion on Industrial training / Internship

BoS Members approved the list of 133 industries across PAN India recommended for in-plant training / internship.

f. 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

g. Any other matter brought by the chair approved by the BoS members.
The meeting came to an end with the thanks note by the chairman





29/4/26

Chairman – BoS/EEE