

**Thirteen Board of Studies Meeting**

Venue: The Jasmine Hall / Hybrid

Date: 25.11.2025

Meeting ID: 937 1725 6718

Time: 10.00 a.m.

**Agenda:**

- Dissemination of Vision, Mission, PEOs and PSOs of the department
- Discussion on the minutes of previous BoS meeting and action taken
- Discussion on Stakeholders inputs on curriculum design under Regulations 2025
- Discussion on curriculum and syllabi for the semesters III and IV under Regulations 2025
- Discussion on Service Course syllabus offered to other programs under Regulations 2025
- Discussion on B.E. (Hons) and Minor degree
- Proposal for Additional Credit Courses (MOOC, Industry offered courses and Value-added courses)
- Discussion on Industrial training / Internship
- Discussion on Capsule courses
- Any other matter brought by the chair

**Members Present:**

| S.No | Name of the member with Designation  | Category              | Signature                      |
|------|--|-----------------------|--------------------------------|
| 1.   | Dr. K. Mohana Sundaram<br>Professor & HoD/EEE, KPRIET  | Chairman              | <i>[Handwritten Signature]</i> |
| 2.   | Dr. N. Narmadhai<br>Professor<br>Department of Electrical and Electronics Engineering<br>Government College of Technology, Coimbatore. | University<br>Nominee | }                              |
| 3.   | Dr. S. Jeevananthan<br>Professor, Department of EEE<br>Puducherry Technological University<br>Puducherry - 605 014                     | Academic<br>Expert-1  |                                |
| 4.   | Dr. Obbu Chandra Sekar<br>Professor, Department of Electrical Engineering<br>National Institute of Technology Delhi, Delhi - 110036    | Academic<br>Expert-2  |                                |
| 5.   | Mr. Sivaraman<br>Power Plant Control Engineer<br>Schneider Electric solar India Pvt Ltd, Chennai                                       | Industry<br>Expert    | <i>[Handwritten Signature]</i> |

# Department of Electrical and Electronics Engineering

KPR Institute of Engineering and Technology



|     |   |                          |                                  |
|-----|---|--------------------------|----------------------------------|
| 8.  | Mr. Sriramprakash Senthilraj<br>Lead Engineer<br>Bosch Global Software Technologies<br>Coimbatore                                 | Alumnus                  | Attended<br>11/11/2014           |
| 9.  | Er. Vandana Singhal<br>Ex-Chief Engineer (DP&R)<br>Central Electricity Authority Ministry of Power<br>(Govt. of India), New Delhi | Professor of<br>Practice | Attended<br>11/11/2014           |
| 10. | Dr. V. S. Chandrika, Professor/EEE  | Faculty<br>Member        | Checked<br>25/11/14              |
| 13. | Dr. C. Pazhanimuthu, AP/EEE   | Faculty<br>Member        | P. Pazhanimuthu                  |
| 14. | Dr. G. Saravanan, AP/EEE  | Faculty<br>Member        | G. Saravanan<br>25/11/2014       |
| 15. | Dr. I. Baranilingesan, AP/EEE   | Faculty<br>Member        | I. Baranilingesan<br>25/11/2014  |
| 16. | Dr. S. Ravindran, AP/EEE  | Faculty<br>Member        | S. Ravindran<br>25/11/2014       |
| 17. | Dr. T. Ramesh Kumar, AP/EEE   | Faculty<br>Member        | T. Ramesh Kumar<br>25/11/2014    |
| 18. | Dr. P. Ravikumar, AP/EEE  | Faculty<br>Member        | P. Ravikumar<br>25/11/2014       |
| 19. | Ms. B. Lalitha, AP/EEE  | Faculty<br>Member        | B. Lalitha<br>25/11              |
| 20. | Ms. R. Revathi, AP/EEE  | Faculty<br>Member        | R. Revathi<br>25/11/2014         |
| 21. | Dr. A. Mohamed Ibrahim, AP/EEE  | Faculty<br>Member        | A. Mohamed Ibrahim<br>25/11/2014 |
| 22. | Mr. V. Kamalkumar, AP/EEE   | Faculty<br>Member        | V. Kamalkumar<br>25/11/2014      |
| 23. | Mr. C. J. Vignesh, AP/EEE   | Faculty<br>Member        | C. J. Vignesh<br>25/11           |
| 24. | Dr. C. Dinesh, AP/EEE   | Faculty<br>Member        | C. Dinesh<br>25/11/2014          |
| 25. | Mr. K. Balamurugan, AP/EEE  | Faculty<br>Member        | K. Balamurugan<br>25/11/2014     |
| 26. | Mr. M. Mohanasundaram, AP/EEE   | Faculty<br>Member        | M. Mohanasundaram<br>25/11/14    |
| 27. | Mr. G. Xavier Richards, AP/EEE  | Faculty<br>Member        | G. Xavier Richards<br>25/11/2014 |
| 28. | Ms. Subika T, IV EE   | Student<br>Member        | T. Subika                        |
| 29. | Mr. Kavin V, IV EE  | Student<br>Member        | V. Kavin                         |
| 30. | Ms. K. Yashini, III EE  | Student<br>Member        | Yashini                          |
| 31. | Mr. A. Pranav, III EEE  | Student<br>Member        | Pranav                           |

### **Minutes of the 13<sup>th</sup> 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, Mission of the department, PEOs and PSOs 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

## 2. Action taken on the minutes of the 12<sup>th</sup> BoS meeting

The 12<sup>th</sup> BoS Meeting was conducted on 31/05/2025 and all the suggestions were noted and incorporated.

| S.No. | SUGGESTIONS  | ACTION TAKEN   |
|-------|--|--|
| 1.    | Dr.A.Ruby Meena suggested to provide more problem in Calculus and Differential Equations and Mathematical Transforms | In line with recommendations, the curriculum will be augmented with additional problems; these will be delivered and assessed via simulation-based exercises |
| 2.    | Dr.Ashok Kumar Thirunarayana suggested the one elective course or one credit course on Battery Technology            | Incorporating the suggestion in upcoming semester  |

## 3. Stakeholders input on curriculum design under Regulation 2025

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

- Discussed about the curriculum and syllabus in semester III, IV under Regulation 2025 and the following suggestions are given by BOS Members and the same has been reviewed and approved.

**Dr. Obbu Chandra Sekar suggested the following points:**

| S.No. | SUGGESTIONS   | ACTION TAKEN  |
|-------|---|---|
| 1     | Electromagnetic Theory and Applications course credit may be changed to 3 credits.  | As per suggestions, the Electromagnetic Theory and Applications 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 credits with project component. |

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 laboratory course with 3 credits.   |
| 3     | The Microprocessors, Microcontrollers and Interfacing Laboratory may be offered with 1.5 credits with 3 hours of practical sessions.  | The Microprocessor, Microcontroller and Interfacing Laboratory credit is revised to 1 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, Microcontroller and Interfacing course to enhance practical exposure and industrial relevance. | The PIC microcontroller is added in Microprocessors, Microcontroller and Interfacing 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:**

| <b>S.No.</b> | <b>SUGGESTIONS</b>   | <b>ACTION TAKEN</b>  |
|--------------|--|--|
| 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 <sup>th</sup> or 7 <sup>th</sup> 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 forthcoming semesters.  |

**Dr. S.Jeevananthan suggested the following points:**

| <b>S.No.</b> | <b>SUGGESTIONS</b>  | <b>ACTION TAKEN</b>  |
|--------------|---|--|
| 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. In the Autotransformer section, detailed coverage has been added including three-phase autotransformers & copper-saving concepts along with numerical problems.              |
| 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 with relevant standards |

**5. 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

**6. Discussion on B.E. (Honors) and Minor degree**

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

**7. 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 and Industry offered courses and Liberal arts courses.

**8. Discussion on Industrial training / Internship**

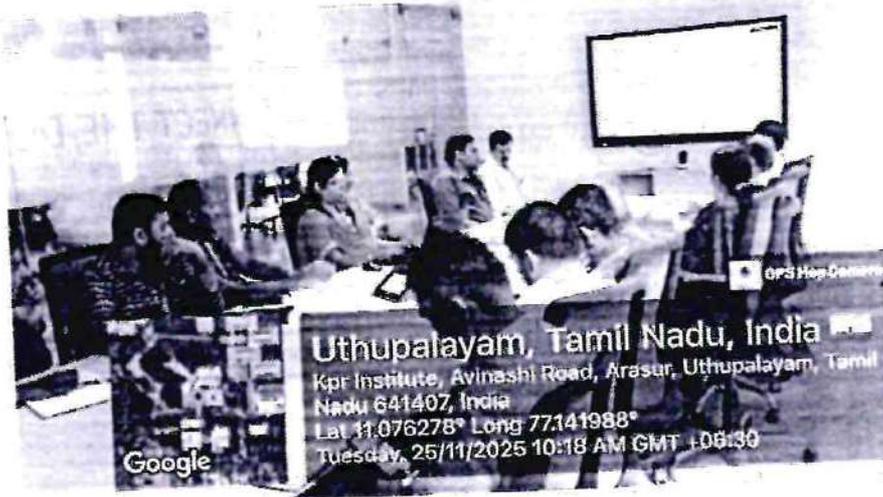
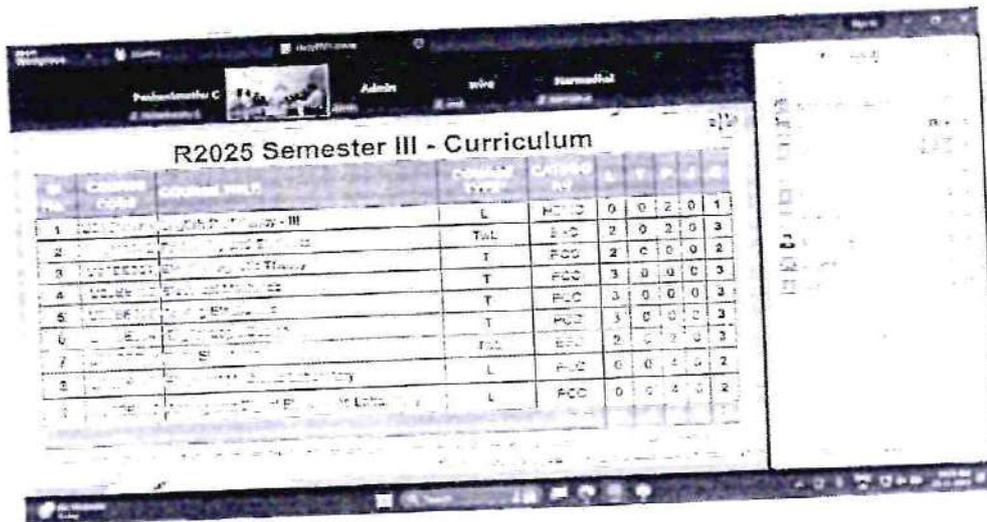
BoS Members approved the list of 133 industries across PAN India recommended for in-plant training / internship.

**9. Discussion on Capsule courses**

BoS Members approved the following capsule courses for the academic year 2025 – 2026.

| S.No | Course Title                    | Offered by  |
|------|---------------------------------|-------------|
| 1.   | Digital Twins for Smart Systems | II, IV & VI |

10. 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

| R2025 Semester III - Curriculum |             |                                  |             |         |   |   |   |   |           |
|---------------------------------|-------------|----------------------------------|-------------|---------|---|---|---|---|-----------|
| Sr                              | Course Code | COURSE TITLE                     | COURSE TYPE | CREDITS | L | T | P | C | Practical |
| 1                               | EE2001      | Advanced Power Electronics - III | L           | 4       | 0 | 0 | 2 | 0 | 1         |
| 2                               | EE2002      | Advanced Power Electronics - III | T           | 4       | 2 | 0 | 2 | 0 | 3         |
| 3                               | EE2003      | Advanced Power Electronics - III | T           | 4       | 2 | 0 | 2 | 0 | 2         |
| 4                               | EE2004      | Advanced Power Electronics - III | T           | 4       | 3 | 0 | 0 | 0 | 3         |
| 5                               | EE2005      | Advanced Power Electronics - III | T           | 4       | 3 | 0 | 0 | 0 | 3         |
| 6                               | EE2006      | Advanced Power Electronics - III | T           | 4       | 3 | 0 | 0 | 0 | 3         |
| 7                               | EE2007      | Advanced Power Electronics - III | L           | 4       | 0 | 0 | 2 | 0 | 2         |
| 8                               | EE2008      | Advanced Power Electronics - III | L           | 4       | 0 | 0 | 2 | 0 | 2         |

*[Handwritten Signature]*  
Chairman - BoS/EEE