



RajaRajeswari College of Engineering

(An Autonomous Institute, Affiliated Visvesvaraya Technological University, Belagavi ,

Approved by AICTE, UGC & GoK, Accredited by ISO 9001-2015 Certified Institution)

Sponsored by: MOOGAMBIGAI CHARITABLE AND EDUCATIONAL TRUST



Department of Electrical & Electronics Engineering

1st Board of studies meeting – Minutes

Minutes of meeting of Board of Studies in the department of EEE held on 05.09.2024
from 11:30 AM to 1:00 PM

Members Present

SI No	Name	Designation	Role in BoS
1	Dr Y R Manjunatha	Professor, UVCE	VTU Nominee
2	Dr Joseph Rodrigues	Professor & Head – EEE Christ University	Academic Expert
3	Dr Agalya	Professor, NHCE, Bangalore	Academic Expert
4	Mr Vinay Kumar	Assistant Executive Engineer	Industry Expert
5	Mrs Anusha M	Advanced Analyst	Alumni
6	Dr. P Ebby Darney	Prof. & Head – Dept of EEE	BOS Chairman
7	Dr.R.Arul Jose	Associate Professor	Member
8	Prof. Shivalingaiah K L	Assistant Professor	Member
9	Prof. Sincy Elezebeth Kuruvilla	Assistant Professor	Member
10	Prof. Avinash C M	Assistant Professor	Member
11	Prof. Nandini N	Assistant Professor	Member
12	Prof. Kiruthika K	Assistant Professor	Member
13	Prof. Udhyami M B	Assistant Professor	Member
14	Prof. Prutha G	Assistant Professor	Member

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Department of Electrical & Electronics Engineering

Agenda:

1. Discussion on the Scheme and Syllabus for the 1st and 2nd Semesters of Electrical and Electronics Engineering (Chemistry and Physics Cycle).
2. Review of the Syllabus for *Elements of Electrical Engineering*, *Fundamentals of Electrical Engineering*, and *Renewable Energy Sources*.
3. Discussion on the Scheme for the 3rd and 4th Semesters of the B.E. program and the Evaluation Mechanism for Continuous Internal Evaluation (CIE) and Semester End Examination (SEE).

Dr. P. Ebby Darney, Chairman, extended a warm welcome to the dignitaries Dr. Manjunatha, Dr. Joseph Rodrigues, Dr. Agalya, and Mr. Vinay Kumar attended the meeting in person, while Ms. Anusha joined the meeting online.

Agenda 1:

- The Chairman emphasized that the scheme and syllabus are designed for activity-based learning, aimed at achieving effective results.
- It was proposed that the maximum credit limit for B.Tech courses should be approximately 160 credits.
- The Chairman also outlined the 1st-year program structure for both the Physics and Chemistry cycles.
- The BoS members reviewed the syllabi for all 1st-year subjects and provided their suggestions and feedback.
- For IPCC subjects, it was suggested that minimum passing marks be set for both theory and laboratory components.
- For non-credit courses, assessments like quizzes, presentations, and assignments can be used for evaluation.
- The evaluation of IPCC subjects, for both theory and lab components, should be done out of 100 marks each, and then scaled down to 50 marks each.

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Agenda 2:

Elements of Electrical Engineering:- Emerging Science Course for EEE Branch

- The basic concepts of electromagnetism—including Faraday's Law, Lenz's Law, and Fleming's Rules—can be removed from the syllabus since these topics have already been covered at the Pre-University (PU) level.
- Instead, topics such as Mesh Analysis, Nodal Analysis, Superposition Theorem, and Maximum Power Transfer Theorem should be added to the syllabus, as suggested by Dr. Agalya and Dr. Manjunatha.
- In the fourth module, the Board of Studies (BoS) members agreed to replace the topic of Measurements with Transformers and DC Motors.
- In the fifth module, the basics of Moving Coil (MC) and Moving Iron (MI) instruments, along with a case study on Electricity Bill (EB) calculation, should be included, as recommended by Mr. Vinay Kumar.
- The term "simple numerical" should be revised to "simple numericals on specific topics" for better clarity.
- A section on prerequisites should be added to the syllabus.
- Reference books should be updated to include the latest editions, as suggested by Dr. Agalya.

Fundamentals of Electrical Engineering:- Engineering Science Course

- **Remove AC fundamentals from Module 2** as these topics have already been covered at the pre-university level (suggested by Dr. Manjunatha).
- **Incorporate transformers from Module 4 into Module 3** alongside DC machines (agreed by all BoS members).
- **Redesign Module 4** to focus on the **applications of renewable energy and electric vehicles** (suggested by Dr. Agalya).
- In **Module 5**, combine equipment safety and personal safety into a single topic: **Electrical Safety**, and include a case study on **electricity bill calculation** (suggested by Mr. Vinay Kumar).



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Renewable Energy Sources:- Emerging Technology Course

- In **Module 1**, replace the brief description of all types of energy sources with an **introduction to green buildings** (suggested by Dr. Joseph Rodrigues).
- In **Module 2**, add the application of solar energy by incorporating a section on **solar-based charging stations** in the second half of the module (suggested by Dr. Joseph Rodrigues).
- In **Module 4**, include a block diagram approach to the **hydel power plant** (suggested by Dr. Joseph Rodrigues).
- In **Module 5**, introduce an application of green energy by adding a section on **hydrogen-based transportation** in the second half of the module (suggested by Dr. Joseph Rodrigues).
- **If feasible, organize industrial visits** relevant to the syllabus, and conduct case studies based on these visits (suggested by Dr. Manjunatha).

Agenda 3:

- **Transformers and Generators** in the 3rd semester is renamed as **Machines I**, and **Electric Motors** in the 4th semester is renamed as **Machines II**.
- In **Machines II**, include special electrical machines such as **BLDC motors, PMSM, stepper motors, servo motors, and switched reluctance motors**.
- **Analog Electronic Circuits** should be renamed as **Analog and Digital Logic Circuits**, with the syllabus of **Digital Logic Circuits** added alongside Analog Electronic Circuits.
- In the **Ability Enhancement Course**, add the topic of **Electrical Appliances and Applications**.
- The subject **Transmission & Distribution** should be renamed as **Power Generation, Transmission & Distribution**.
- For the **Microcontroller** subject, in addition to Microprocessors, cover the basics of **Digital Signal Processor (DSP) applications**, and rename the subject as **Microprocessor and Microcontroller**.

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- In the Ability Enhancement Course, include topics like AI Tools, IPR (Intellectual Property Rights), and Placement-related subjects.
- CO-PO mapping should be reviewed and updated accordingly.

BOS Chairman
CHAIRMAN
BOARD OF STUDIES
Dept. of Electrical and Electronics Engg.
Rajarajeswari College of Engineering
Bengaluru - 560074

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