



# 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

### 1<sup>st</sup> 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

Sl 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

Campus: #14, Ramohalli Cross, Kumbalgotu, Mysore Road, Bengaluru – 560074

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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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## Department of Electrical & Electronics Engineering

### 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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## Department of Electrical & Electronics Engineering

### 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

**Dean Academics**  
DEAN ACADEMICS  
Rajarajeswari College of Engineering  
Bengaluru - 560074

**Principal**  
Principal  
Rajarajeswari College of Engineering  
Bengaluru - 560074



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## Department of Electrical & Electronics Engineering

Date:18.02.2025

The following members are attended for the Board of Studies (BoS) 2<sup>nd</sup> Meeting on  
18.02.2025 at 11:00 am, Board Room.

### Members Present

Sl No	Name	Designation	Role in BoS	Signature with date
1	Dr Y R Manjunatha	Professor, University of Visvesvaraya College of Engineering	VTU Nominee	 18/2/2025
2	Dr Joseph Rodrigues	Professor & Head – EEE Christ University, Bangalore	Academic Expert	ATTENDED ONLINE
3	Dr Agalya V	Professor, New Horizon College of Engineering, Bangalore	Academic Expert	
4	Mr Vinay Kumar	Assistant Executive Engineer, BESCOM	Industry Expert	
5	Mrs Anusha M	Advanced Analyst (Robotics Process Automation Developer)	Alumni	
6	Dr. L Rangaiah	Dean Academics, RRCE	Dean Academics	
7	Dr. P Ebby Darney	Prof. & Head – Dept of EEE	BOS Chairman	
8	Dr.R.Arul Jose	Associate Professor	Member	
9	Prof. Shivalingaiah K L	Associate Professor	Member	
10	Prof. Sincy Elezebeth Kuruvilla	Assistant Professor	Member	
11	Prof. Avinash C M	Assistant Professor	Member	
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13	Prof. Kiruthika K	Assistant Professor	Member	
14	Prof. Udhyami M B	Assistant Professor	Member	
15	Prof. Prutha G	Assistant Professor	Member	
16	Prof. Shwetha	Assistant Professor	Member	
17	Prof. Ramya R	Assistant Professor	Member	

BoS Chairman

CHAIRMAN  
BOARD OF STUDIES  
Dept. of Electrical and Electronics Engg.  
Rajarajeswari College of Engineering  
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