

SESHADRI RAO GUDLAVALLERU ENGINEERING COLLEGE

(An Autonomous Institute with Permanent Affiliation to JNTUK, Kakinada)

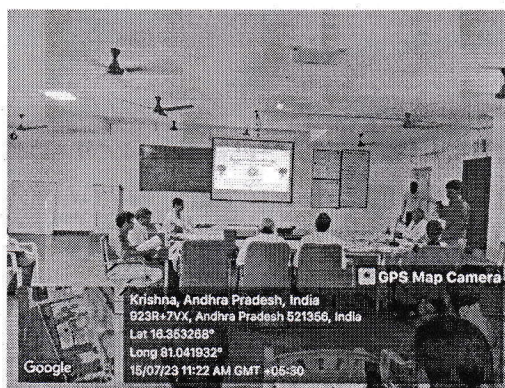
Seshadri Rao Knowledge Village, Gudlavalleru

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

17th July 2023

MINUTES OF BOARD OF STUDIES MEETING

The Board of Studies (BoS) meeting is organized at 9.30 A.M. on 15-07-2023 (Saturday) in ME Seminar Hall (N-216).



Dr.B.Dasu, BoS Chairman interaction with Experts during the BoS Meeting

Proposed I B.Tech Course Structure - R23 Regulations

I Year I Semester

Sl. No.	Course Code	Name of the Course / Laboratory	Category	No. of Hours per week			Total Credits
				L/D	T	P	
1		Engineering Physics	BS&H	3	0	0	3
2		Linear Algebra and Calculus	BS&H	3	0	0	3
3		Basic Electrical and Electronics Engineering	ES	3	0	0	3
4		Engineering Graphics	ES	2	0	2	3
5		Introduction to Programming	ES	3	0	0	3
6		Engineering Physics Lab	BS&H	0	0	2	1
7		Electrical and Electronics Engineering Workshop	ES	0	0	3	1.5
8		Computer Programming Lab	ES	0	0	3	1.5
9		IT Workshop	ES	0	0	2	1
10		NSS/NCC/Scouts & Guides/Community Service	Audit	0	0	0	0.5
Total:				14	0	12	20.5

I Year II Semester

Sl. No.	Course Code	Name of the Course / Laboratory	Category	No. of Hours per week			Total Credits
				L	T	P	
1		Communicative English	BS&H	2	0	0	2
2		Chemistry	BS&H	3	0	0	3
3		Differential Equations and Vector Calculus	BS&H	3	0	0	3
4		Basic Civil and Mechanical Engineering	ES	3	0	0	3
5		Electrical Circuit Analysis – I	PC	3	0	0	3
6		Communicative English Lab	BS&H	0	0	2	1
7		Chemistry Lab	BS&H	0	0	2	1
8		Engineering Workshop	ES	0	0	3	1.5
9		Electrical Circuits Lab	PC	0	0	3	1.5
10		Health and Wellness, Yoga and Sports	Audit	0	0	0	0.5
Total:				14	0	10	19.5

Category Full Form:

BS&H – Basic Sciences & Humanities

ES – Engineering Science

PC – Professional Core

Audit – Audit Course

The meeting started with a discussion on the above I B.Tech course structure and the concerned subjects syllabi of Electrical and Electronics Engineering for R23 regulations. After a thorough discussion, the course structure and the concerned subjects syllabi of I B.Tech is approved by the members of Board of Studies.

Regarding minor adjustments in light of the institute's vision, the BOS examined the department's vision and mission statements to ensure they aligned with the institute's vision and mission. It was decided that no modifications were necessary to the department's vision and mission.

BOS reviewed the current state of PEOs, which were developed in 2013 based on the requirements of global needs and technological advancements in Electrical Engineering and also keeping in view of National Education Policy and it was also further determined that the PEOs are sufficient, no alterations are required.


(Dr. B. Dasu)
BOS Chairman

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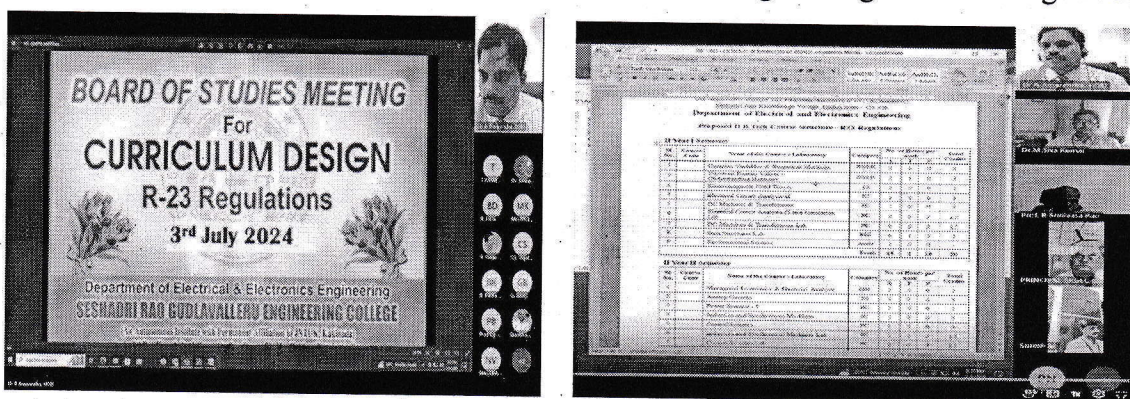
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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

5th July 2024

MINUTES OF BOARD OF STUDIES MEETING

The Board of Studies (BoS) meeting is organized in Microsoft Teams (online) from 2.00 PM to 4.00 PM on 03-07-2024 (Wednesday) to discuss the course structure and syllabi of II B.Tech in Electrical and Electronics Engineering of R23 regulations.



Dr.A.Amarendra, BoS Chairman interaction with Experts during the BoS Meeting

The minutes of the BoS meeting are as follows:

1. Dr.R.Srinivasa Rao suggested to remove the concepts of 'vector algebra' and 'vector calculus' in Unit-I of Electromagnetic Field Theory of II B.Tech I Semester because the concepts are already studied by students earlier. He also suggested to include 'numerical problems on basic concepts only' in every unit.
2. Dr.D.M.Vinod Kumar and Dr.K.Siva Kumar suggested to modify the title of Unit-I from 'DC Generators' to 'DC Machines' as the Unit-I comprises of concepts both on DC Generators and DC Motors in the subject of DC Machines and Transformers of II B.Tech I semester. He also suggested to replace the old edition of the text books with latest edition.
3. Dr.R.Srinivasa Rao suggested to replace one of the existing experiments by the simulation experiment on Filters in Electrical Circuit Analysis-II and Simulation Lab of II B.Tech I semester as the students are studying filters in Electrical Circuit Analysis-II subject.

4. Dr.D.M.Vinod Kumar, Dr.R.Srinivasa Rao and Dr.K.Siva Kumar verified with Dr.Y.V.Naga Kumari (subject expert) regarding the changes done in Unit-II of Managerial Economics & Financial Analysis in II B.Tech II semester. The experts felt that updated syllabi of Unit-II will be more beneficial to the students.
5. Dr.D.M.Vinod Kumar verified with Smt.L.Padmalatha (subject expert) over the high amount of syllabus in Analog circuits of II B.Tech II Semester. He suggested to reduce the syllabus if possible.
6. Dr.D.M.Vinod Kumar and Dr.R.Srinivasa Rao suggested to incorporate the concept of 'Introduction to Solar and Wind Energy' in Power Systems-I of II B.Tech II Semester. They also suggested to include 'qualitative treatment only'.
7. V.Haritha and M.Suresh suggested to include applications of various machines in Induction and Synchronous Machines of II B.Tech II Semester.
8. Dr.D.M.Vinod Kumar, Dr.R.Srinivasa Rao, Dr.K.Siva Kumar and Dr.L.Ravi Srinivas suggested to remove the concept of circle diagrams in Induction and Synchronous Machines of II B.Tech II Semester.
9. Dr.D.M.Vinod Kumar, Dr.R.Srinivasa Rao, and Dr.M.Siva Kumar suggested to remove the concepts of 'canonical forms' and 'diagonalization using linear transformation' in Control Systems of II B.Tech II Semester.
10. Dr.R.Srinivasa Rao and Dr.M.Siva Kumar suggested to replace the experiment on 'Characteristics of Magnetic Amplifier' with an simulation experiment in Control Systems lab of II B.Tech II Semester.
11. V.Haritha and M.Suresh suggested to plan for more number of field visits for the students to gain more practical exposure.


(Dr.A.Amarendra)
BOS Chairman

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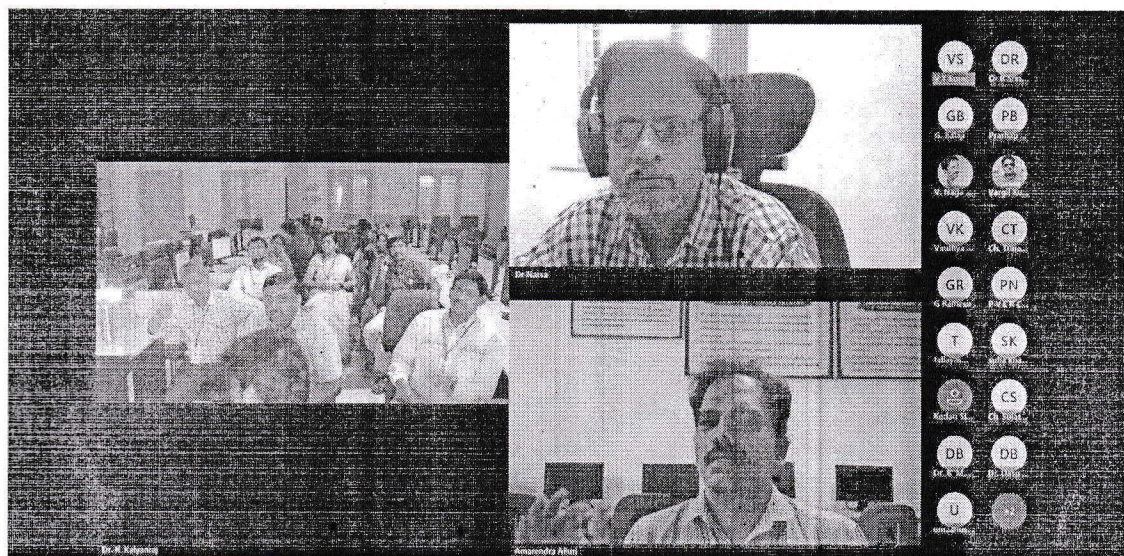
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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

25th July 2025

MINUTES OF BOARD OF STUDIES MEETING

The Board of Studies (BOS) meeting was conducted online via Microsoft Teams from 10.00 AM to 1.00 PM on 24-06-2025 (Tuesday) to discuss and finalize the course structure of B.Tech, and syllabi of III B.Tech, Honors, and Minor in Electrical and Electronics Engineering of R23 regulations.



Welcome Address by BOS chairman Dr.A.Amarendra



Members of Board of studies during the meeting

2. Dr.V.T. Somasekhar, Dr.T.Narsa Reddy, and Mr.Ch.Ravi Kumar , Dr.Rayapudi Srinivasa Rao suggested that the credits for final semester“Internship and Project” can be reduced to 10 or even less than 10 (if possible).

Agenda Point 3:

To discuss and finalize the III B.Tech. Syllabi of R23 regulations.

ELECTRICAL MEASUREMENTS AND INSTRUMENTATION
III Year - I Semester

Lecture : 3
Credits : 3

Internal Marks : 30
External Marks : 70

Course Objectives

- To impart knowledge on construction, operation and working principles of electromechanical, digital measuring instruments and Transducers.
- To familiarize various methods of measuring resistance, inductance and capacitance.

Course Outcomes
Upon successful completion of the course, the student should be able to

- demonstrate the construction and working of various types of analog measuring instruments.
- describe the construction and working of wattmeter and power factor meters and understand the operating principles of DC potentiometers
- determine the unknown values of resistance, inductance and capacitance by using various bridges.
- measure various physical quantities using appropriate transducers
- understand the working principle of various digital meters and use CRO for phase and

Discussion on the Syllabi of III B.Tech

1. Dr.V.T.Somasekhar suggested to add the concept of “shaft encoders” in unit IV of the subject “Electrical Measurements and Instrumentation”.
2. Dr.V.T.Somasekhar suggested to include an experiment on B-H Curve in “Electrical Measurements and Instrumentation Lab”.
3. Dr.V.T.Somasekhar suggested to add an experiment on Zigbee in “IOT Applications of Electrical Engineering Lab”.

Honors

4. Dr.V.T. Somasekhar suggested to add the concept of matrix converters (if possible) in the subject “Power Electronic Converters”.
5. Dr.V.T.Somasekhar suggested to have mostly hardware experiments in the “Electric Drives Lab”.

Minors

6. The syllabus of all the subjects in Minors is satisfactory.


(Dr.A.Amarendra)
BOS Chairman

Agenda Point 1:

To discuss on Vision, Mission, POs and PSOs of the program.

1. It is approved to raise the target value from 2 to 2.2 for POs 1 to 5, PSO1 and PSO2 while keeping the target for the remaining POs unchanged from the 2022-2026 batch onwards.

Department Vision, Mission, POs, PSOs

Department VISION
To be a pioneer in electrical and electronics engineering education and research, preparing students for higher levels of intellectual attainment, and making significant contributions to profession and society.

Department MISSION
1. To impart quality education in electrical and electronics engineering in dynamic learning environment and strive continuously for the interest of stake holders, industry and society.
2. To create an environment conducive to student - centered learning and collaborative research.
3. To provide students with knowledge, technical skills, and values to excel as engineers and leaders in their profession.

Discussion on Vision, Mission, POs and PSOs of the B.Tech program during BOS Meeting

Agenda Point 2:

To discuss and finalize the III B.Tech & IV B.Tech. course structure of R23 Regulations.

III Year I Semester

Sl. No.	Course Code	Name of the Course / Laboratory	Category	No. of Hours per week			Total Credits
				L	T	P	
1		Digital Circuits	PC	3	0	0	3
2		Electrical Measurements and Instrumentation	PC	3	0	0	3
3		Power Systems-II	PC	3	0	0	3
4		Professional Elective - I	PE	3	0	0	3
5		Open Elective - I	OE	3	0	0	3
6		Analog and Digital Circuits Lab	PC	0	0	3	1.5
7		Electrical Measurements and Instrumentation Lab	PC	0	0	3	1.5
8		Soft Skills	SEC	0	1	2	2
9		Tinkering Lab	ES	0	0	2	1
10		Community Service Internship (Evaluation)	SIPW	0	0	0	2
Total:				15	1	10	23

Discussion on III B.Tech course structure of EEE

1. Dr. Rayapudi Srinivasa Rao, Dr. V.T. Somasekhara, Dr. T. Narsa Reddy, and Mr. K. Ramesh Naidu suggested to maintain the uniform distribution of credits across all core labs.

Fig. 2: Review of Syllabus for the subject “Electrical Distribution Systems”

3. The course objectives, course outcomes and course content of the subjects were reviewed. They were found satisfactory and approved.
4. Dr.V.T.Somasekhar proposed enhancing the subject Battery Management Systems and Charging Stations by integrating a wider range of battery types and fundamental fuel cell concepts.
5. Dr.V.T.Somasekhar recommended incorporating selected hardware-based experiments into the Power Systems and Simulation Laboratory to facilitate more effective utilization of the Power Systems Laboratory.

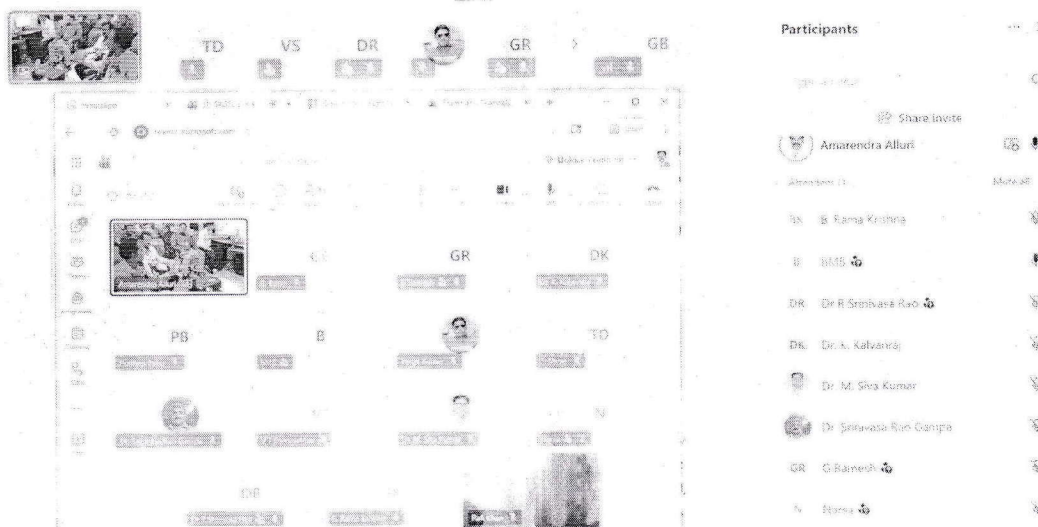


Fig. 3: Attendee information for the virtual BoS meeting in Microsoft Teams

6. The list of student development programs under the R23 regulations for the academic year 2026–2027 was reviewed and approved by the members of the Board of Studies.

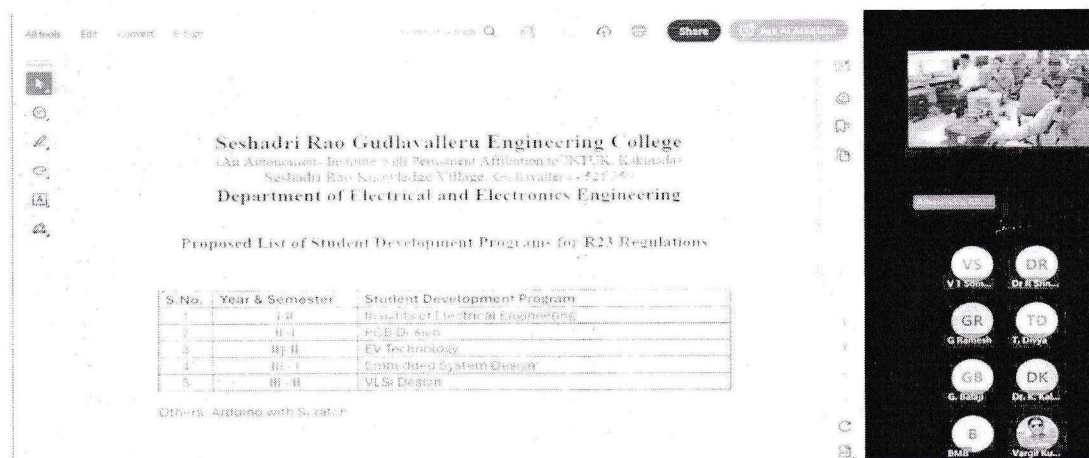


Fig. 4: Proposed List of Student Development Programs under the R23 Regulations

A. Ahmed
BoS Chairman
EEE Department