



# PRAGATI ENGINEERING COLLEGE

(Autonomous)

ADB Road, Surampalem, E.G Dt., A.P. – 533 437

(Approved by AICTE, Permanently Affiliated to JNTUK, Kakinada, Accredited by NAAC with 'A' Grade)

(Recognized by UGC Under Sections 2(f) and 12 (B) of UGC act, 1956)

Ph: 08852 – 252233, 34. Website: www.pragati.ac.in

Learning is Supreme Duty

## Department of Electrical and Electronics Engineering

Date: 18/01/2021

### CIRCULAR

All the members of Board of Studies (BOS) are hereby informed that there will be a meeting on 20<sup>th</sup> January 2021 to discuss the following agenda.

#### AGENDA:

1. Welcome Address by Chairman-BOS.
2. Common BOS Guidelines.
3. Discussion on proposed R-19 B. Tech EEE Third year, Fourth year syllabi and ratification of the same.
4. Discussion on proposed R-19 B.Tech EEE Offered Open Electives for Other Departments syllabi and ratification of the same.
5. Discussion on proposed R-20 B.Tech EEE First Year course structure, syllabi and ratification of the same.
6. Discussion on proposed R-20, EEE offered Inter Departmental First Year courses syllabi and ratification of the same
7. Discussion on ratification of course objectives, Course outcomes and CO-PO mapping.
8. Discussion on ratification of new courses in R20 regulation.
9. Finalization of text books and reference books.
10. Ratification of the proposed model papers for internal and external examinations of both theory and laboratory courses (R-20)
11. Discussion on ATR as per suggestions given by stakeholders.
12. Any other item.

  
Dr. K. Sathyanarayana  
Chairman- BOS



## Item No:1 Welcome Address by Chairman – Board of Studies

On behalf of team EEE, I extend a warm welcome to you all for the first meeting of Board of Studies. I deem it a privilege in welcoming the dignitaries for the Board of Studies – EEE Dept.

- Dr. Srirama Srinivas, Professor of EE, IIT Madras, Chennai.
- Dr. P. Mallikarjuna Rao, Professor of EE, UCE, Andhra University
- Dr. K. Ravindra, Associate Professor of EEE, JNTUK, Kakinada
- Sri. B. Pradeep Raja Vardhan, Assistant Manager., Reliance Jio Infocomm Ltd., Visakhapatnam
- Members presented from the department of EEE of PEC.

Year of Establishment	2002 (B.Tech), 2011 (M.Tech)
AICTE Approval No	F. No. 730-50-311(E)/ET/2001
Duration of Programme	04 Years (B.Tech) & 02 Years (M.Tech)
Sanctioned Intake	B. Tech : EEE 60 from 2002-03 to the year 2011-12 120 from 2012-13 onwards M.Tech (PE&ED): 18 from 2011 onwards
Affiliation	Permanently affiliated to Jawaharlal Nehru Technological University, Kakinada

- ↓ The Electrical and Electronics Engineering Department of this college is started with the objective of giving best “Technical Education” to aspire power engineers. This department provides an environment where young minds can grow to their full potential and become strong, principled and committed citizens of the country.
- ↓ This department faculty consists of highly experienced Professors, well qualified & dedicated Associate Professors and young & dynamic Assistant Professors who work with commitment to give their best to the young Engineers.

### **ACHIEVEMENTS OF THE DEPARTMENT**

- Department of EEE successfully conducted two online AICTE sponsored Short Term Training Programs on “RECENT TRENDS IN ELECTRIC VEHICLES “ in the month of November 2020 and December 2020, with sanctioned amount of 1.54 lacks.
- AICTE sanctioned a grant of 11.06 lacks for MODROBs project on the title of “Voltage sag/swell mitigation using FPGA Controller based Unified Power quality Conditioner”
- AICTE-ISTE sanctioned to conduct three online Induction/Refresher Programs on “Hybrid Energy Storage Systems” , will be conducted before May 2021.

### **BEST PRACTICES**

- ❖ Consistent Academic performance in End Examination Results.
- ❖ Placements and higher education are increasing year by year.
- ❖ Student involvement in Project models.
- ❖ All the students are encouraged to present their innovative ideas.
- ❖ Releasing department News Letters in half yearly mode since 2007.
- ❖ Workshops organized in the latest areas of Electrical Engineering.
- ❖ Students are encouraged to undergo industrial training and internships.
- ❖ Industrial visits provided once in a semester for students.

### **FUTURE PLANS**

- To establish center of excellence in one or more thrust areas of Electrical Engineering.
- To enter into MOUs with reputed academic and Industrial organizations.
- To establish research oriented laboratories.
- To achieve 90% and above result.
- To achieve 100% placements among eligible candidates through campus selections.



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## RESOLUTIONS TAKEN:

1. Considered Item No. 3.

Resolved to ratify the proposed syllabi of following **courses** of third year and final year B.Tech (R-19 regulations) along with course objectives, course outcomes.

S. No.	Name of the Programme	Name of the Course	Year and Semester
1.	B. Tech (R-19)	Electrical Power Transmission Systems	III-I EEE
2.		Power Electronics	III-I EEE
3.		Digital Control Systems	III-I EEE
4.		Electrical Machines-II Laboratory	III-I EEE
5.		Control Systems Laboratory	III-I EEE
6.		Power Electronic Controllers and Drives	III-II EEE
7.		Power System Analysis	III-II EEE
8.		Electrical Distribution System	III-II EEE
9.		Artificial Intelligence Techniques	III-II EEE
10.		Electrical Machine Modeling and Analysis	III-II EEE
11.		Advanced Control Systems	III-II EEE
12.		Power Electronics Laboratory	III-II EEE
13.		Utilization of Electrical Energy	IV-I EEE
14.		Renewable Energy Sources	IV-I EEE
15.		Power System Protection	IV-I EEE
16.		High Voltage Engineering	IV-I EEE
17.		Energy audit, conservation and Management	IV-I EEE
18.		Electrical Machine Design	IV-I EEE
19.		HVDC Transmission	IV-I EEE
20.		Power System and Simulation Laboratory	IV-I EEE
21.		Electrical Measurement and instrument Laboratory	IV-I EEE
22.		Power System Operation and Control	IV-II EEE
23.		Electric Power Quality	IV-II EEE
24.		Hybrid Electric Vehicles	IV-II EEE
25.		Special Electrical Machines	IV-II EEE
26.		Advanced Power Converters	IV-II EEE
27.		Smart Grid	IV-II EEE
28.		Power System Deregulation	IV-II EEE
29.		PLC and SCADA	IV-II EEE
30.		Flexible AC Transmission Systems(FACTS)	IV-II EEE

The approved syllabi are enclosed herewith. (Annexure-I for R-19 B.Tech EEE III & IV Year Syllabi)

2. Considered Item No. 4

Resolved to ratify the proposed syllabi of following **courses** of EEE Offered Open Electives For other Departments (R-19 regulations) along with course objectives, course outcomes.

S. No.	Name of the Programme	Name of the Course	Year and Semester
1.	B. Tech (R-19)	Energy audit, conservation and Management	III-I Mechanical, ECE, CSE and IT

2.		Power Safety and management	III-II CIVIL, Mechanical, ECE, CSE and IT
3.		Power Electronics	IV-I Mechanical, ECE, CSE and IT

The approved syllabi are enclosed herewith. (Annexure-II for EEE Offered Open Electives For Other Departments).

3. Considered Item No. 5.

Resolved to ratify the proposed R-20 **course structure** and syllabi for B.Tech programme for first year and first and second semesters.

The approved R-20 **course structures** syllabi are enclosed herewith. (Annexure-III for R-20 B.Tech).

S. No.	Name of the Programme	Name of the Course	Year and Semester
1.	B. Tech	Electrical Engineering workshop	I-I EEE
2.	(R-20)	Electrical Circuit Analysis-I	I-II EEE

4. Considered Item No. 6.

Resolved to ratify the proposed Inter Departmental First Year courses (R-20), syllabi.

The approved Inter Departmental First Year courses (R-20), syllabi are enclosed herewith. (Annexure-IV for R-20 B.Tech).

S. No.	Name of the Programme	Name of the Course	Year and Semester
1.	B. Tech (R-20)	Basic Electrical and Electronics Engineering	I-II ME
2.		Basic Electrical and Electronics Engineering Lab	I-II ME
3.		Basic Electrical Engineering	I-II ECE
4.		Basic Electrical Engineering Laboratory	I-II ECE

5. Considered Item No. 7.

The members ratified course objectives, course outcomes and CO-PO mapping of all the courses in the course structure

6. Considered Item No. 8.

The members ratified 17 new courses for III & IV year in R-19 regulation and 3 new courses for I year in R20 regulation. The details are enclosed in Annexure V.

7. Considered Item No. 9.

Resolved to ratify the text books and reference books as mentioned in the Item Nos. 3,4,5 and 6

8. Considered Item No. 10.

Resolved to ratify the proposed model papers for internal and external examinations of both theory and laboratory courses are enclosed herewith. (Annexure- VI(a), VI(b), VI(c), VI(d) and VI(e)).

9. Considered Item No. 11.

Based on the ATR, the suggestions given by the stakeholders are included. The details are enclosed in Annexure VII.

10. Considered Item No. 12.

- i. Resolved to conduct the BOS-meeting at least once in a year.
- ii. Resolved to specify the subject codes for all courses in B. Tech (R-20) programme.

11. As per the suggestions given in earlier BOS, Entrepreneurship course is introduced.

Finally Chairman of BOS thanked all the members for their valuable inputs and active participation in the meeting.



Dr. K. Sathyanarayana  
Chairman- BOS