



PRAGATI ENGINEERING COLLEGE

(Autonomous)

ADB Road, Surampalem, E.G. Dist., 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)

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Department of Electrical and Electronics Engineering

Date: 01/08/2019

CIRCULAR

All the BOS members are requested to attend for the BOS meeting on 03.08.2019 and 04.08.2019 in the simulation lab of EEE Department regarding ratification of B.Tech and M.Tech (R-19 course structure and syllabi).

AGENDA:

1. Welcome Address by Chairman-BOS.
2. Discussion on proposed R-19 course structure of B. Tech & M.Tech and ratification of the same
3. Discussion on proposed R-19 B. Tech First Year and Second Year courses syllabi & M.Tech Subjects syllabi and ratification of the same.
4. Ratification of the proposed R-19 model papers for internal and external examinations of both theory and laboratory courses.
5. Discussion on ratification of course objectives, Course outcomes and CO-PO mapping.
6. Discussion on ratification of new courses in R19 regulation.
7. Discussion on ATR as per suggestions given by stakeholders.
8. Finalization of names of reputed institutions for setting question paper and valuation of answer scripts.
9. Finalization of text books and reference books.
10. 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. V. Mohan Raj Kumar, Assistant Vice President-Electrical, Reliance Infrastructure Limited, New Delhi
- Sri. B. Pradeep Raja Vardhan, Electrical Engineering Dept., 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

- Many students completed and are pursuing post graduate programs in premier institutes like IITs, NITs and INDIAN Universities.
- Alumni are placed in reputed organizations like Tata Motors, BARC, BHEL, L&T, IOCL, HCL etc.,
- Good numbers of students won prizes in inter collegiate tournaments.

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.

RESOLUTIONS TAKEN:

1. Considered Item No. 2.

Resolved to ratify the proposed R-19 course structure for B.Tech and M. Tech programmes for all years and semesters.

The approved R-19 course structures are enclosed herewith. (Annexure-I for R-19 B.Tech and Annexure - II for R-19 M.Tech).

2. Considered Item No. 3.

Resolved to ratify the proposed syllabi of following courses of First year and Second year B. Tech and M. Tech Programmes (R-19) along with course objectives and course outcomes.

S. No.	Name of the Programme	Name of the Course	Year and Semester
1.	B. Tech	Basic Electrical Engineering	I-I ECE
2.		Electrical Circuit Analysis-I	I-II EEE
3.		Basic Electrical and Electronics Engineering	I-II ME, I-II CSE & I-II IT
4.		Electrical and IT Workshop	I-II EEE
5.		Basic Electrical and Electronics Engineering Lab	I-II CSE & I-II IT
6.		Basic Electrical Engineering Laboratory	I-II ECE
7.		Electrical Circuit Analysis-II	II-I EEE
8.		Electrical Machines - I	II-I EEE
9.		Electromagnetic Fields	II-I EEE
10.		Basic Electrical and Electronics Engineering	II-I CE
11.		Electrical Circuits Laboratory	II-I EEE
12.		Basic Electrical and Electronics Engineering Lab	II-I ME
13.		Electrical Machines-II	II-II EEE
14.		Control Systems	II-II EEE
15.		Electrical Power Generation and Distribution	II-II EEE
16.		Electrical Measurements and Instrumentation	II-II EEE
17.		Electrical Machines-I Laboratory	II-II EEE
18.	M. Tech	Electrical Machine Modeling and Analysis	I Semester PE&ED
19.		Analysis of Power Electronic Converters	I Semester PE&ED
20.		Power Electronic Control of DC Machines	I Semester PE&ED
21.		Flexible AC Transmission Systems	I Semester PE&ED
22.		Elective –I Modern Control Theory Power Quality Optimization Techniques	I Semester PE&ED
23.		Elective – II Energy Auditing, Conservation and Management Artificial Intelligence Techniques HVDC Transmission	I Semester PE&ED
24.		Power Converters Simulation laboratory	I Semester PE&ED

25	Switched Mode Power Conversion	II Semester PE&ED
26	Power Electronic Control of AC Machines	II Semester PE&ED
27	Digital Controllers	II Semester PE&ED
28	Custom Power Devices	II Semester PE&ED
29	Elective – III Renewable Energy Systems Electrical Distribution Systems Reactive Power Compensation and Management	II Semester PE&ED
30	Elective – IV Smart Grid Technologies Special Machines Programmable Logic controllers and Applications	II Semester PE&ED
31	Power Converters and Drives laboratory	II Semester PE&ED

The approved syllabi are enclosed herewith. (Annexure-III, Annexure-IV for R-19 B.Tech and Annexure-V for R-19 M.Tech).

3. Considered Item No. 4.

Resolved to ratify the proposed **scheme of model papers** for Internal and external examinations (Theory & Lab) of both B. Tech and M. Tech (R-19) programmes.

The approved scheme of model papers are enclosed herewith. (Annexure -VI for B.Tech R-19 and Annexure - VII for M.Tech R-19).

4. Considered Item No. 5.

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

5. Considered Item No. 6.

The members ratified 2 new courses in 1st year R-19 regulation.

6. Considered Item No. 7

Based on the ATR, the suggestions given by the stakeholders are included.

7. Considered Item No. 8.

Resolved to approve for setting of question papers and valuation of answer scripts by the reputed institutions including NITs, JNTUK, State level universities and Autonomous colleges.

8. Considered Item No. 9.

Resolved to ratify the text books and reference books as mentioned in the Item No. 3. For all laboratories, lab manuals will be provided.

9. Considered Item No. 10.


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-19) and M. Tech (R-19) programmes.

iii. Following suggestions are offered by the members

a) Detailed schedule of Zero semester is to be provided.

- b) Provide options to students to register for more number of courses (> 160 credits) to allow interested students to learn more.
- c) Suggested to give credits for courses under MOOCs.
- d) Bring all elective courses under a single basket and give option to the student to choose from them.
- e) Expressed disparity between course title and course outcome with respect to Socially relevant project (II year I semester). Suggested to resolve at institute level.
- f) Experts suggested that more focus should be on skill oriented and employability courses.
- g) As per the NEP-2020, Entrepreneurship course should be included.


Dr.K.Satyanarayana
Chairman BOS

