



PRAGATI ENGINEERING COLLEGE

(Autonomous)

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

(Approved by AICTE, Permanently Affiliated to JNTUK, Kakinada)

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

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

06-06-2022

PEC/ECE/Circular/BoS/2021-20/22

CIRCULAR

All the members of Board of Studies (BoS) are here by informed that there will be a meeting on 09-06-2022 for discussing the following agenda.

Agenda:

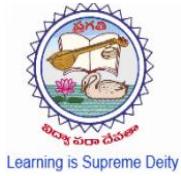
1. Welcome Address by BoS-Chairman.
2. Ratification of III&IV-year course structure and syllabi of R-20 regulation for B Tech program.
3. Ratification of interdepartmental courses offered by ECE department of R-20 regulation for III&IV-year.
4. Discussion of Ratification of new courses.
5. Discussion of Ratification of Course Objectives, Course Outcomes, and CO- PO mapping for each course.
6. Finalization of text books and reference books.
7. Any other item.

Sailaja V.

BoS Chairman

**HOD-ECE
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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

09-06-2022

Minutes of the Meeting-Board of Studies

The 7th Board of Studies of meeting of ECE Department was held on 09-06-2022 to review and ratify Course structure of R20 Regulation and Syllabus of III and IV years through virtual Mode

The following are the resolutions taken during Session

Resolutions:

Considered Item no 2: It is resolved to ratify the course structure and syllabi of R-20 regulation B Tech III&IV-year courses with the following modifications

III & IV Year Courses:

1. Analog and Digital Communications :

- This course should have proper discussion on modulation and demodulation techniques in a general manner instead of separation of Analog and digital.
 - SSB technique should be combined with AM techniques and arrange a separate chapter for Angle Modulation.
 - In Angle modulation in unit –III give more emphasis on Capturing effect in demodulation of FM using PLL and reframe the syllabus in line with Shamshanmukam author.
2. For **Internships**, the members suggested that the student has to submit the report by video presentation to make the evaluation process as simpler.
 3. In Skill oriented Course, rename the course ARM/ Aurdino based Programming as interactive programming /Interfacing with processors.
 4. In **Digital Signal Processing** ,overlapping of frequency analysis of LTI systems with signals and systems
 5. In **Optical Communication**, give more emphasis on optical detector, *transimpedance amplifier* (TIA) is a current to voltage converter (Trans –Z) amplifier.

6. Include FET amplifiers in **Optical Communication** Subject
7. Prescribe **Satellite Communication: Concepts and Applications** Second Edition by N.Raja Rao For Satellite Communication Subject
8. More exercise problem should be solved in **Skill oriented Courses**
9. In IoT theory Course ,include industrial IoT as a separate chapter

Considered Item no 3: It is resolved to ratify courses offered by ECE department to other branches of R-20 regulation III&IV years.

- Rename the title of **Principles of Communication** as **Principles of Communication Engineering**
- Prescribe Communication Systems, 2E - RP Singh, SD Sapre for **Principles of Communication Engineering** Subject
- Rename the title of **Transducers & Sensors** as **Sensors and Transducers** as per textbook title.
- In **Digital Signal Processing**, syllabus should be minimized in DFT, FFT with basic concepts only.
- In convolution topic also remove filtering method for convolution of long sequences .

Considered Item no 4: Refer to the Annexure III, New courses introduced in the R20 Course structure for III and IV years. Total 38 New courses were introduced and Syllabus is ratified

Considered Item no 5: Course objectives, Course outcomes and CO-PO mapping were reviewed and advised faculty members to verify the mapping again.

Considered Item no 6:

1. It is resolved to include 2 text books and 3 reference books for every course of III&IV Year- R-20 course structure and the subject title should map with text book title.

Suggestions:

1. Fundamentals should be strong and methodologies adopted should enhance the knowledge gained by students along with skills.
2. Every lab must be on design oriented and include simulation concepts in theory courses.

3. Emphasis should be given on Entrepreneurship and Business Management Courses in OPEN ELECTIVE.
4. Members suggested that Paper should be Framed internally for External Examinations which will benefit students as Syllabus is excess in some subjects.



BoS-Chairman

(Dr.V.Sailaja)

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