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## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

### Minutes of Board of Studies Meeting

**Date:** 30<sup>th</sup> May 2021

The third External Board of Studies Meeting of the Department of Electronics and Communication engineering was held online on 29.05.2021 at 04:00PM via MS Teams platform to finalize curriculum for all semesters of R-20 (Autonomous) regulation as well as finalizing the syllabus for II-I and II-II semesters and also to finalize the syllabus for III-I and III-II semesters under R-19 regulations.

The following members were present:

S.No.	Name of the BoS Member	Designation	Signature
1	Prof.M.Y.Bhanu Murthy	Chairman, Prof & HoD ECE	
2	Dr.N.Balaji	University Nominee and External BoS Member	
3	Dr.B.Anuradha	Subject Expert and External BoS Member	
4	Dr.K.Giri Babu	Dean of Academics, Member	
5	Dr.P.Ammi Reddy	Professor, Member	
6	Dr.M.R.N.Tagore	Professor, Member	
7	Dr.Sk.Enaul Haq	Assoc.Professor, Member	
8	Dr.K.Vasu Babu	Assoc.Professor, Member	
9	Mr.G.V.Satya Kumar	Assoc.Professor, Member	
10	Mr.Sk.Riyazuddin	Assoc.Professor, Member	

At the onset of the meeting, the Chairman of BoS, Prof.M.Y.Bhanu Murthy, welcomed all the members and introduced members to the External Subject Experts. The meeting began with the presentation of curriculum by the chair for semesters II-I, II-II, III-I, III-II, IV-I and IV-II under R-20 regulations. He then presented the syllabus of all subjects of II-I and II-II semesters under R-20 regulations followed by presentation of syllabus of all subjects of III-I and III-II semesters under R-19 regulations, prepared by the internal BOS members.

Due to prevailing COVID-19 pandemic and as per the guidelines received from JNTUK for autonomous institutions, the course structure and syllabus has been prepared, and the class work was commenced.

### **Resolutions in Meeting**

**Agenda 1:** To discuss and finalize the course structure of R-20 (Autonomous) regulations for all years and syllabus of the proposed II-I and II-II Semester courses along with Honors/Minor Degree Courses.

**Resolutions:** Course Structure of B.Tech Programme of R-20 (Autonomous) regulations and syllabus of II-I and II-II Semester is approved by the Board of Studies Committee.

Encl: **Annexure -I**

**Agenda 2:** To discuss and finalize the syllabus of the proposed III-I and III-II Semesters of R-19 (Autonomous) regulations along with Minor Degree Courses.

**Resolutions:** After due consultations and the suggestions of BoS experts, the proposed course contents of III-I and III-II semesters are finalized.

Encl: **Annexure-II**

**Agenda 3:** To discuss the syllabus for Minor Degree Course in CSE department for R19 batch students.

**Resolutions:** After due deliberations, the External BoS Committee accepted the syllabus for Minor Degree Course for R19 Regulations.

Encl: **Annexure-III**

### **General Comments**

1. Data Structures subject is included in II-II semester of R-20 regulations as per the recommendation of Training and Placement cell.
2. External BoS expert Dr.N.Balaji enquired about internal and external evaluation procedures. Dr. P.Ammi Reddy explained the norms being followed at VVIT.
3. External BoS expert Dr.B.Anuradha has asked to include year of publication and edition for the recommended text books in each subject.
4. The external BoS members expressed their satisfaction towards the contents for each subject prepared by the internal BoS members.
5. BoS Chairman Prof. M.Y.Bhanu Murthy informed the BoS members that the syllabus of core subjects is framed for the sake of GATE, competitive and job oriented exams mostly.
6. The committee also gave their consent to the department to offer Minor Degree Program for II B.Tech ECE students of R19 regulations.

### **Curriculum related Comments**

**Comments by University Nominee and External BoS Member Dr.N.Balaji:**

1. Proposed to include Computer Architecture based concepts in skill oriented course - 2 to be offered in II-II semester in R-20 curriculum.
2. Suggested the committee to include 'applications of sequential circuits' in the "Digital System Design with VHDL" course and recommended a textbook "Digital System Design with FPGA: Implementation using Verilog

and VHDL " authored by CemUnsalan, Bora Tar McGraw Hill Education, 2017" to be included in the syllabus.

3. Recommended including PIC in Microprocessor and Microcontroller Subject.
4. Suggested the committee to add topics related to 'Security Issues' in "Computer Networks" subject and recommended the text book "Data Communications and Networking" authored by B.A.Forouzan to be included in the syllabus.
5. Also recommended the committee to add 'Wireless Sensor Networks' course in Professional Electives.
6. Further suggested including a text book authored by Ahmed and Natarajan in Digital Signal Processing syllabus to cover IIR and FIR Filters.

**Comments by Subject Expert and External BoS Member Dr.B.Anuradha:**

1. Opined to include same stream subjects related to the specific areas of study in Professional Elective pools.
2. Advised to replace the word 'study' with 'design' in the names of laboratory experiments.
3. Suggested including the topic Photonic Crystal Fibers under Advanced Topics in the syllabus of the subject Optical Communications, as further reading.
4. Advised to include MEMS/Mechatronics subjects in Open Electives from Mechanical Department.
5. Suggested to re-arrange the order of Professional Electives.

**According to the comments made by the University Nominee and the Subject Expert, the Chairman Prof.M.Y.Bhanu Murthy decided to implement the following in the course structure and syllabus:**

1. Computer Architecture based concepts will be included in the syllabus of skill oriented course-2 under R20 regulations.
2. 'Applications of Sequential Circuits' shall be included in "Digital System Design with VHDL" course along with the adding the text book authored

by Bora Tar, in the syllabus.

3. 'PIC' to be included in Microprocessor and Microcontroller Subject.
4. 'Security Issues' to be added in the syllabus of Computer Networks along with inclusion of textbook authored by B.A.Forouzan.
5. 'Wireless Sensor Networks' will be added in the pool of Professional Elective Courses.
6. The word 'study' shall be replaced with 'design' in the list of lab experiments wherever applicable.
7. 'Photonic Crystal Fibers' to be included as further reading in the subject 'Optical Communications.'
8. 'Mechatronics' shall be included in the pool of Open Electives.
9. The order of Professional Electives will be re-arranged to ensure same stream subjects related to specific areas of study fall under each Professional Elective.
10. Prof.M.Y.Bhanu Murthy has proposed to opt for online virtual labs until college reopens.
11. In reply to the suggestion of Dr.N.Balaji about the introduction of Digital ICs in the subject Digital System design (DSD), the chairman has given the clarification about its inclusion in the respective units of syllabus along with coding.
12. After due deliberations, the committee accepted the syllabus of Linear IC Applications, Antennas and Wave Propagation, VLSI Design, Cellular Mobile Communications, Satellite Communications without any changes.

  
(Prof.M.Y.Bhanu Murthy)

**Chairman, BoS**