# Board of Studies 5th



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

24th December, 2020

## 5th BOARD OF STUDIES (BOS) MEETING ON 26-12-2020

### **AGENDA**

- 1. Welcome by the Chairman
- 2. Discussion on B.Tech. (Electronics and Communication Engineering) R20-Course Structure
- 3. Discussion on R20-Syllabus of I B.Tech. and II B.Tech. Electronics and Communication Engineering
- 4. Discussion on R20-Syllabus for the subjects offered by ECE department to other departments
- 5. General suggestions by members
- 6. Any other information with the permission of the Chairman

7. Vote of thanks

V. Venkata Re Chairman, BOS (Dr. V. Venkata Rao)



# DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

26th December, 2020

# Minutes of the 5<sup>th</sup> Board of Studies (BoS) Meeting for R20 Course Structure and Syllabus held on 26<sup>th</sup> December, 2020 at 9:30 AM in the Department Seminar Hall

Dr. V. Venkata Rao, Chairman, Board of Studies chaired the online meeting and welcomed all the members to the fifth Board of Studies meeting in the department of Electronics and Communication Engineering. The discussion on the items mentioned in the Board of Studies meeting agenda was taken up and the following resolutions mentioned in the subsequent paragraphs were passed by the external and internal BOS members.

### **MEMBERS PRESENT**

1	Dr. V. Venkata Rao Professor and Head Department of ECE Narasaraopeta Engineering College Narasaraopet	Chairman, BOS
2	Dr. N. Balaji Professor Department of ECE, UCEK, JNTUK, Kakinada	JNTUK University Nominee
3	Professor, Department of ECE University College of Engineering, Yogi Vemana University Prodattur. Kadapa Dist.	Subject Expert
4	Dr. K. Naga Srinivasa Rao Batta, Assistant Professor, Department of ECE, NIT, Warangal	Subject Expert
5	Mr. T. Seetha Ram Kumar, Sub Divisional Engineer, BSNL, Guntur	Nominee from Industry
6	Dr. V. Anil Kumar, Associate Professor IIITH, Hyderabad	Nominee from Alumni
7	Dr. K. Srinivasa Ravi, Professor, Department of ECE, Narasaraopeta Engineering College	Member (Internal Subject Expert)

	Narasaraopet	
8	Dr. K. Raju, Professor, Department of ECE, Narasaraopeta Engineering College ,Narasaraopet	Member (Internal Subject Expert)
9	Dr. A.V. Nageswara Rao, Associate Professor, Department of ECE, Narasaraopeta Engineering College, Narasaraopet	Member (Internal Subject Expert)
10	Dr. B. Raghavaiah Professor Department of ECE Narasaraopeta Engineering College Narasaraopet	Member (Internal Subject Expert)
11	Mr. J. V K. Ratnam, Professor, Department of ECE, Narasaraopeta Engineering College, Narasaraopet	Member (Internal Subject Expert)
12	Mr. P. S. S. Chakravarthy, Professor, Department of ECE, Narasaraopeta Engineering College, Narasaraopet	Member (Internal Subject Expert)

# ITEM No. 1 Discussion on B.Tech., (Electronics and Communication Engineering) R20

After detailed discussions, the board expressed their suggestions and views regarding B.Tech., (Electronics and Communication Engineering) R20 Course Structure. The following suggestions/amendments/recommendations are given by the members of the board.

1. Electronic Workshop can be introduced in I B.Tech. -

Course Structure.

- 2. Change the subject title Control Systems in II B.Tech., I Semester to Linear Control Systems.
- Communication Systems subject title in II B.Tech., II Semester to be modified as Analog & Digital Communications. Communication Systems Laboratory also to be modified as Analog & Digital Communications Laboratory.
- 4. Change the subject title Introduction to Data Science in III B.Tech., I Semester Open Elective-I.
- 5. Interchange Embedded systems and Robotics Lab of III B.Tech., I Semester with English Employability Skills of III B.Tech., II Semester.

- Computer Science Engineering department can be requested to offer Computer Organization subject in their Open Elective.
- In one of the open elctives Basics of VLSI & Embedded Systems subject can be offered to other departments.
- 8. Practical Training will be provided by the college for those students who did not attend the Internship during II B.Tech. and III B.Tech. summer vacation.

### ITEM No. 2

# Discussion or R19-Syllabus of I B.Tech. and II B.Tech. Electronics and Communication Engineering.

After detailed discussions, the board expressed their suggestions and views regarding I B.Tech. and II B.Tech. Electronics and Communication Engineering R20 Syllabus. The following suggestions/amendments/recommendations are given by the members of the board.

- 1. In II B.Tech., I Semester, add MOSFETs analysis part Electronic Devices and Circuits subject.
- 2. In III B.Tech., II Semester Microprocessors and Microcontrollers subject add one Unit on ARM Processors.
- 3. In II B.Tech., I Semester Signals and Systems subject Sampling in Unit-V title to be deleted. Correlation, Auto correlation, Relation between Cross & Auto correlation topics to be added in Unit-I.
- 4. In II B.Tech., I Semester Switching Theory and Logic Design Unit-I syllabus has to be elaborated. Add minimization of switching functions using K-Map up to 6 variables, Tabular (Quine-McCluskey) method with only 4 variables and with single function. Include realization of sequence generator, Design of clocked sequential circuit to detect the given sequence with and without overlapping. Fundamentals of Logic Design text book by Charles H. Roth Jr. can be added in the references.
- 5. In II B.Tech., I Semester Control Systems subject keep the book titled Modern Control Engineering by Katsuhiko Ogata as text book.
- In II B.Tech., II Semester Communication Systems Lab experiments are splitted into Part-A and Part-B.
- 7. In II B.Tech., II Semester Electromagnetic Waves and Transmission Lines subject change Unit-I title as Review of Coordinate Systems & Static fields. Unit-III and Unit-IV can be clubbed into one Unit. Unit-V can be split into two Units as Transmission Lines-I and Transmission Lines-II.

8. In all the Laboratories include Experiments which are not there in the syllabus in Experiments beyond syllabus list.

### ITEM No. 3

Discussion on R20-Syllabus for the subjects offered by ECE department to other departments.

After detailed discussions, the board expressed their suggestions and views regarding R20-Syllabus for the subjects offered by ECE department to other departments. The following suggestion/amendment/recommendation is given by the members of the board.

- In II B.Tech., I Semester Electrical and Electronics Engineering branch, in Analog Electronics subject introduce concepts of Power Amplifiers and Oscillators.
- 2. In II B.Tech., I Semester Electrical and Electronics Engineering branch, add Analog to Digital Coverter experiment in Analog Electronics Laboratory.
- 3. In II B.Tech., II Semester Electrical and Electronics Engineering branch, add
  Introduction to FPGAs in Unit-V of Digital Electronics subject.
- 4. In all the Laboratories include Experiments which are not there in the syllabus in Experiments beyond syllabus list.

Meeting concluded with thanks to the Chair.

(Dr. V. VENKATA RAO)
Chairman
BOS (ECE)

(Dr. N. Balaji)

(Dr. K. Venkata Ramanaiah)

(Mr. T. Seetha Ram Kumar)

V And Kumol

(Dr. V. Anil Kumar)

Bx n Sring

(Dr. K. Naga Srinivasa Rao Batta)

K.s. Ram

(Dr. K. Srinivasa Ravi)

(Dr. K. Raju)

(Dr. A.V. Nageswara Rao)

(Mr. J. V. K. Ratnam)

(Dr. B. Raghavaiah)

(Mr. P. S. S. Chakravarthy)



(AUTONOMOUS)

### DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

26th December, 2020

### Board of Studies (BOS) of Electronics and Communication Engineering

### **ATTENDANCE SHEET**

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Chairman, BOS (Dr. V. Venkata Rao)