

Department of Electronics and Telecommunication Engineering

31st July, 2020

Minutes of the Board of Studies

The Board of Studies Meeting of Electronics and Telecommunication Engineering was held online due to the Covid-19 pandemic situation on 25th July 2020 at 11:30 AM. Following members attended the meeting.

1.	Prof. Shekhar Sharma	Chairman & Head of the Dept.
2.	Prof. Vimal Bhatia, IIT, Indore	External Expert
3.	Prof. Vibha Vyas, CoE, Pune	External Expert
4.	Prof. Gaurav Trivedi, IIT Guwahati	External Expert
5.	Mr. Manish Joshi, Sciencetech, Indore	External Expert from Industry
6.	Dr. P. D. Vyavahare	Special Invitee
7.	Prof. (Mrs.) S.V. Charhate,	Member
8.	Prof. (Mrs.) Anjana Jain,	Member
9.	Dr. (Mrs.) Anjulata Yadav	Member
10.	Dr. S. K. Jain	Member
11.	Dr. L. D. Malviya	Member
12.	Dr. (Mrs.) Preeti Trivedi	Member
13.	Mr. Manish Panchal	Member
14.	Mr. Amit Naik	Member
15.	Mrs. Jaya Dipti Lal	Member
16.	Mr. Ashwin Shrivastava	Member
17.	Mr. Ajay Parmar	Member

The following points are discussed and resolved in the meeting:

1. The scheme of examination of 2nd year B. Tech. (Electronics and Telecommunication Engg.) is unchanged, since it was already changed in the last BoS meeting, as per AICTE guidelines. Keeping in view the advancements in the subjects and providing pathway to adapt to the changing scenario, the scheme of examination for 3rd year and 4th year B. Tech. (Electronics and Telecommunication Engg.) are changed as per the AICTE guidelines, and the scheme of M. E. (Electronics and Communication Engg.) is suggested to be revised. However, to avoid the duplication of topics among subjects and making the syllabi more specific, revisions within 5% of the existing subject contents were proposed and approved in the syllabi of different subjects. New syllabi of the following subjects were reviewed and approved:

<u>CLASS</u>	<u>SEM.</u>	<u>CATEGORY</u>	<u>SUBJECT CODE AND NAME OF THE SUBJECT</u>
B.TECH. 3 rd year	A	PCC	EC 35... : MICROPROCESSORS AND MICROCONTROLLERS
	.."	PCC	EC 35... : ANTENNA AND WAVE PROPAGATION (LAB)
	.."	PCC	EC 35... : VLSI DESIGN
	.."	PCC	EC 35... : DATA COMMUNICATION
	B	PCC	EC35... : MOBILE COMMUNICATION
	.."	PCC	EC 35... : COMPUTER NETWORKS
	.."	PCC	EC 35... : APPLIED DIGITAL SIGNAL PROCESSING
	.."	PEC 2	EC 35... : EMBEDDED SYSTEMS
	.."	PEC 2	EC 35... : INTELLIGENT SYSTEMS
	.."	ESC	EC 35... : ELECTRONICS DESIGN AND SIMULATION WORKSHOP
4 th Year	A	PCC	EC45... : WIRELESS AND MOBILE NETWORKS
		PEC 3	CO 45... :DATA SCIENCE
	.."	PEC 3	EI 45... : VLSI TECHNOLOGY
	.."	PEC 3	BM 45... : DIGITAL IMAGE PROCESSING
	.."	OEC 1	EC 45... : INTERNET OF THINGS
	.."	OEC 1	EC 45... : ADVANCED DIGITAL SIGNAL PROCESSING
4 th Year	B	OEC 2	EC 45... : GAME THEORY IN WIRELESS COMMUNICATION
	.."	OEC 2	EC 45... : BASIC CRYPTOGRAPHY

The proposed changes in terms of words added or replaced in respective subjects are also elaborated below:

EC 25017: SIGNALS AND SYSTEMS

Unit 3:

Following lines are to be added before "Fourier Transform":
"Continuous-time and Discrete-time"

Following lines are to be deleted:
"applications of Fourier analysis for communication systems"

Following lines are to be added at the end before filtering:
"Magnitude and Phase response, Time and frequency domain aspects of systems"

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Unit 4:

Following lines are to be added after "Transfer function of LTI systems":

"system behavior"

Following lines are to be added after "system function of discrete time LTI systems":

"system behavior"

Unit 5:

Following lines are to be added after "Reconstruction of signals from its samples:"

"ideal interpolator, zero-order hold, first-order hold."

EC25564: ELECTROMAGNETIC WAVES

The sequence of units is to be changed as follows:

Unit 1 should be as **Unit 4**

Unit 2, 3, 4 should be **Unit 1, 2, 3**.

EC 25567: ANALOG AND DIGITAL COMMUNICATION

Unit 5:

Following lines are to be deleted:

"Information, Entropy, Mutual information, Capacity of channels, Shannon's theorem of channel capacity, Digital Modulation tradeoffs."

Following lines are to be added at the end of Unit 5:

"Comparison of Digital Modulation schemes using a single carrier"

EC 35004: ANTENNA & WAVE PROPAGATION LAB

In the proposed new "Antenna & Wave Propagation Lab",

The list of the experiments is as follows:

1. Familiarization and study of Advanced antenna measurement system and RF anechoic chamber
2. Familiarization and calibration study of vector Network Analyzer (MSP2202).
3. Design and simulation of Microstrip patch antenna (Virtual lab)
4. Characterization of Circular polarization in MSA (Virtual lab)
5. Measurement of Radiation parameters of Microstrip antenna through VNA and anechoic chamber
6. Measurement of Co-polarization and cross polarization of arbitrary test antenna using RF anechoic chamber and measurement system
7. Measurement of insertion losses and cable losses using Vector network analyzer
8. Calculation and generation of radiation pattern of RMSA (Microstrip) in azimuth & elevation plane.

9. Calculation and generation of radiation pattern of YAGI antenna (Microstrip) in azimuth & elevation plane.
10. Calculation and generation of radiation pattern of annular ring antenna (Microstrip) in azimuth & elevation plane.
11. Measure the variation of field strength/inverse square, power flow of arbitrary test antenna in RF anechoic chamber.

EC 35509: MICROWAVE DEVICES & CIRCUITS

This subject "Microwave Devices and Circuits" is now shifted to VII Semester (i.e. in the 4th year semester "A") in the new scheme, with the following changes.

Unit 1- Following lines are to be deleted:

"and finline"

Unit-4- Following lines are to be added after sentence; "Simulation Techniques for design of Microwave Components"

"and Devices";

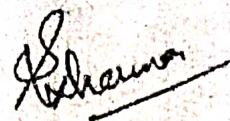
So final sentence would be "Simulation Techniques for Design of Microwave Components and Devices."

Unit 5- Following lines are to be deleted:

"Analysis and design of finline components"

M. E. (Electronics and Communication Engg.)

The scheme of M.E. is discussed and it is suggested that some new subjects can be added in the current scheme in order to update it as per the requirement.



Chairman,
Board of Studies
Electronics and Telecom. Engg. Dept.