



Date: 12.06.23

**ACTION TAKEN REPORT ON BOS**

Name of the Department: BE Electronics and Communication Engineering

The Tenth Board of Studies meeting for BE Electronics and Communication Engineering for the academic year odd 2023-24 was conducted on 3.06.2023 at 10.00am in Hybrid mode. Google meet (<https://meet.google.com/ipy-hoob-pdg>).

I. New courses introduced(UG):

a) Regulation 2019R

S.No.	Regulation	Course code	Course name	Credits
1.	2019R	19EC7305	Digital Design Verification	3
2.	2019R	19EC7306	Embedded Controllers and IoT System Design	3

(b) Regulation 2022

S.No.	Regulation	Course code	Course name	Credits
1	R2022	22EC3204	Circuits and Networks	3

(b) Regulation 2022 and Regulation 2019R

**Honor Degree Vertical I**

**Emerging Technologies in Communication Engineering**

1.	R2022	22EC5204/19EC5204R	Tele Communication Switching and Networks	3
2.	R2022	22EC6201/19EC6201R	Optical Communication Networks	3
3.	R2022	22EC6202/22EC6203 & 19EC6202R/19EC6203R	Wireless Broadband Networks / Digital switching Systems	3
4.	R2022	22EC7202/19EC7202R	Software Defined Networks	3
5.	R2022	22EC7203/22EC7204 & 19EC7203R/19EC7204R	4G/5G Communication Networks/ Wireless systems and standards	3
6.	R2022	22EC8201/19EC8201R	Underwater Communication	3

**Honor Degree Vertical II**

**Sensor Technologies and IoT**

7.	R2022	22EC5205/19EC5205R	Real-Time Embedded Systems Design	3
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R2022	22EC6204/22EC6205 & 19EC6204/19EC6205R	IOT Processors/ Advanced Processor Architectures	3
R2022	22EC6206/19EC6206R	Computer Vision	3
R2022	22EC7205/22EC7206 & 19EC6205R/19EC6206R	Wearable Devices / Long term Evolution Technologies	3
R2022	22EC7207/19EC7207R	Industrial IoT	3
R2022	22EC8202/19EC8202R	IoT based System Design	3

**Honor Degree Vertical III**

**Semiconductor Chip Design and Testing - TSOLVE Semiconductors**

R2022	22EC5206/19EC5206R	Digital System Design	3
R2022	22EC6207/19EC6207R	CMOS VLSI Design	3
R2022	22EC6208/19EC6208R	Low Power VLSI Design	3
R2022	22EC7208/19EC7208R	ASIC Design	3
R2022	22EC7209/19EC7209R	System Verilog	3
R2022	22EC8203/19EC5203R	VLSI Testing and Design for Testability	3

**Minor Degree Verticals**

**Embedded and IoT**

R2022	22EC5601/19EC5601R	Electronics for Embedded Systems	3
R2022	22EC6601/19EC6601R	Microcontroller and its Applications	3
R2022	22EC6602/19EC6602R	Sensor and Embedded Systems	3
R2022	22EC7601/19EC7601R	Fundamentals of IoT	3
R2022	22EC7602/19EC7602R	Industrial IoT and Industry 4.0	3
R2022	22EC8601/19EC8601R	IoT for Smart Systems	3

**General Recommendations:**

**Regulation R2022 ( for AY 2023-2024 admitted students)**

**Modifications:**

S.No.	Course code	Course name	Suggestion given by the BoS experts	Action taken
1.	22CE3001	Electronics Circuits Lab	Addition of new experiments	Considered
2.	22CE3202	Signals and Systems	Revision in Unit I, Changes in Titles of units II and IV	Considered
3.	22CE3203	Digital Electronics	Revision in Unit V	Considered

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Date: 18.12.23

### ACTION TAKEN REPORT ON BOS

Name of the Department: BE Electronics and Communication Engineering

The Thirteenth Board of Studies meeting for BE-Electronics and Communication Engineering for the academic year 2023-24, even semester was conducted on 11.12.2023 at 10.00am in hybrid mode using Google meet link : <https://meet.google.com/rke-sgkz-ocb>.

#### General Recommendations:

#### Modifications:

S. No.	Suggestions Given	Actions Taken
<b>Common Suggestions</b>		
1.	Given by All Expert Members 1. Theory courses: Pre Requisite to be added for courses wherever applicable. 2. Lab Courses: ➤ COs should represent Report/ Document/ Record preparation ➤ Tools used for experimentation have to be mentioned 3) In text books of courses it is not necessary to mention units covered by the books for the courses	Suggestions are incorporated

S. No.	Course Title	Suggestions Given	Actions Taken
<b>Regulations 2022</b>			
1.	22EC4201 - Electro Magnetic Fields	<ul style="list-style-type: none"><li>• Revision of Units I and II</li><li>• Include the text book "Elements Of Electromagnetics" by Sadiku as Text book</li></ul>	Suggestions are incorporated

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2.	22EC4202 - Analog Communication	<ul style="list-style-type: none"> <li>• Include more topics for Demodulator,</li> <li>• Include topics like Random processes, Friss formula, Multiplexing, TDM and Quantization.</li> </ul>	Suggestions are incorporated
3.	22EC4304 - Transmission Lines and Waveguides	<ul style="list-style-type: none"> <li>• Revision In Unit Titles</li> </ul>	Suggestions are incorporated
5.	22EC4002 -Analog Communication Lab	<ul style="list-style-type: none"> <li>• Include noise experiment, Generation of all 3 AM waveforms and PAM</li> <li>• Mention hardware and software tools used.</li> </ul>	Suggestions are incorporated
<b>Regulations 2019A</b>			
6.	21EC6202 -Antenna and Wave Propagation	<ul style="list-style-type: none"> <li>• Units II &amp; III to be swapped</li> <li>• Change of Unit IV title as Frequency Independent antennas,</li> <li>• Include topics on Antenna and Measurement</li> </ul>	Suggestions are incorporated
7.	21EC6303 -Mobile Communication	<ul style="list-style-type: none"> <li>• Include 3G/4G/5G Transitions as basics in Unit-I,</li> <li>• Unit III is vast and reduce the contents</li> <li>• Include OFDM topic in Unit IV.</li> <li>• Distribute contents uniformly.</li> </ul>	Suggestions are incorporated
8	21EC7401- Introduction to IOT	<ul style="list-style-type: none"> <li>• Depth of Embedded systems is needed</li> </ul>	Suggestions are incorporated
9.	21EC6251- Embedded Systems and IOT	<ul style="list-style-type: none"> <li>• ARM processors has to be included</li> </ul>	Suggestions are incorporated



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10.	21EC6253 -Digital Communication	<ul style="list-style-type: none"><li>• Include John Proakis as one of the Text Books.</li><li>• Include the topics Nyquiste sampling, Eye pattern, Pulse shaping criteria, Base band signaling, Constellation diagrams, BPSK (in unit 3), 2PAM, 4PAM, Parity check codes, SNR calculations and Line coding</li></ul>	Suggestions are incorporated
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*P. Harla*  
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