

**SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY: PUTTUR
(AUTONOMOUS)**

7th BoS Meeting of Electronics and Communication Engineering (ECE)

Date: 12/07/2021

The 7th meeting of Board of Studies (BoS) in Electronics and Communication Engineering is held on 12th July, 2021 (Monday) at 10.00AM online through ZOOM.

As per the UGC (University Grant Commission) guidelines, the Choice Based Credit System (CBCS) and electives have been implemented in the curriculum.

Dr. P. Ratna Kamala, Chairman - BoS chaired the meeting and welcomed all the members to the seventh BoS meeting and discussed the following agenda:

1. Approval of course structure and syllabi for II year B.Tech. under R20 Regulation.
2. Approval of course structure and syllabi for III year B.Tech. under R19 Regulation.
3. Approval of course structure and syllabi for IV year B.Tech. under R18 Regulation.
4. Approval of panel of examiners and Question paper setters for II, III and IV B.Tech. that comes under R20, R19 and R18 Regulations respectively.
5. Any other item with the permission of Chair.

After a brief introduction of the agenda items listed above, each agenda item were taken up for discussion and the following resolutions were passed.

Minutes:

Agenda: 1

Approval of course structure and syllabi for II year B.Tech. under R20 Regulation in ECE w.e.f., 2021-2022.

Resolution: 1

After detailed discussion, the BOS resolved to approve the course structure and syllabi for II year B.Tech. under R20 Regulation (given in **Annexure –I & II respectively**) applicable for the A. Y. 2021-2022.

Agenda: 2

Approval of course structure and syllabi for III year B.Tech. under R19 Regulation in ECE w.e.f., 2021-2022.

Resolution: 2

After detailed discussion, the BOS resolved to approve the course structure and syllabi for III year B.Tech. under R19 Regulation (given in **Annexure –I & II respectively**) applicable for the A.Y.2021-2022 with minor suggestions in Lab courses.

A. Course & Syllabus Comparison

With reference to the R16 regulations, the new regulation (R18) syllabus for IV year has the following modifications which are given in the below table.

IV B.Tech

S. No	R16 Regulation	R18 Regulation	Percentage of course content changed
1.		Management Science	100
2.	Embedded Systems	Embedded Systems and IOT	50
3.	VLSI Design	VLSI Design	0
4.		Wavelets	100
5.		Satellite Communication	100
6.	Digital Image processing	Digital Image Processing	0
7.		Speech and Audio Processing	100
8.		Hi Speed Electronics	100
9.		Mobile Communications and Networks	100
10.	Optical Fiber Communication	Fiber Optic Communications	20
11.	Medical Electronics	Bio-Medical Electronics	40
12.		Project Planning and Control	100
13.		Solar Photovoltaic Systems	100
14.		Computer Aided Process Planning	100
15.		Software Development & Testing	100
16.	Entrepreneurship Development	Entrepreneurship Development	0
17.		Embedded Systems and IoT Lab	100
18.		Microwave Measurements Lab	100
19.		Project Phase-I	100

Consolidated Sheet

Course	Total courses	Percentage of syllabus changed
ECE B.Tech IV Year	19	74.21

With reference to the R18 regulations, the new regulation (R19) syllabus for III year has the following modifications which are given in the below table.

III B.Tech

S. No	R18 Regulation	R19 Regulation	Percentage of course content changed
1.	Control Systems	Control Systems	0
2.	Antennas and Wave Propagation	Antennas and Wave Propagation	0
3.	Digital Communications	Digital Communications	0
4.	Electronic Measurements and Instrumentation	Electronic Measurements and Instrumentation	0
5.		Elements of Road Traffic Safety	100
6.		Solar Photovoltaic Systems	100
7.		Non-Conventional Energy Resources	100
8.		Software Development & Testing	100
9.		Business Ethics	100
10.	Antennas and Wave Propagation Lab (Virtual Lab)	Antennas and Wave Propagation Lab (Virtual Lab)	0
11.	Digital Communications Lab	Digital Communications Lab	0
12.	Electronic Measurements Lab (Virtual Lab)	Electronic Measurements Lab (Virtual Lab)	0
13.	English for Corporate Communications Skills Lab	English for Corporate Communications Skills Lab	0
14.		Managerial Economics and Financial Analysis	100
15.		Digital Signal Processing	100
16.	Microprocessors and Microcontrollers	Microprocessors and Microcontrollers	0
17.	Microwave Theory and Techniques	Microwave Theory and Techniques	0
18.		Project Planning and Control	100

19.		Neural Networks and Fuzzy Logic	100
20.		Computer Aided Process Planning	100
21.		Introduction to Cyber Security	100
22.		Strategic Management	100
23.	Digital Signal Processing Lab	Digital Signal Processing Lab	0
24.	Microcontroller and Applications Lab	Microcontroller and Applications Lab	0
25.		Microwave Measurements Lab	100
26.		Human Values and Professional Ethics	100

Consolidated Sheet

Course	Total courses	Percentage of syllabus changed
ECE B.Tech III Year	26	53.85

II B.Tech

S.No	R19 Regulation	R20 Regulation	Percentage of course content changed
1.	Numerical Methods and Transforms	Numerical Methods and Transforms	0
2.	Electronic Devices and Circuits	Electronic Devices and Circuits	0
3.	Signals, Systems and Random Processes	Signals, Systems and Random Processes	0
4.		Switching Theory and Logic Design	100
5.	Analog Communications	Analog Communications	20
6.	Electronic Devices and Circuits Lab	Electronic Devices & Logic Design Lab	50
7.	Basic Simulation Lab	Signals and Systems Simulation Lab	20
8.	Analog Communications Lab	Analog Communications Lab	0
9.		PCB Designing Lab	100
10.		Control Systems	100
11.	Electronic Circuit Analysis	Electronic Circuit Analysis	0
12.		Digital Communications	100

13.	Linear & Digital IC Applications	Linear & Digital IC Applications	0
14.		Entrepreneurship Development	100
15.	Electronic Circuit Analysis Lab	Electronic Circuit Analysis Lab	0
16.		Digital Communications Lab	100
17.	Linear & Digital IC Applications Lab	Linear & Digital IC Applications Lab	0
18.	Environmental Science	Environmental Science	0
19.		CCNA Lab	100

Consolidated Sheet

Course	Total courses	Percentage of syllabus changed
ECE B.Tech II Year	19	41.57

B. Course Relevance

The courses that come under the category of Employability, Skill or Entrepreneurship Development are shown in the table below.

IV B.Tech

S.No	Course Title	Course Code	Relevance
1.	Management Science	18HS0813	Entrepreneurship
2.	Embedded Systems and IoT	18EC0440	Employability
3.	VLSI Design	18EC0431	Employability
4.	Wavelets	18EC0432	Employability
5.	Satellite Communication	18EC0433	Employability
6.	Digital Image Processing	18EC0434	Employability
7.	Speech and Audio Processing	18EC0435	Employability
8.	Hi Speed Electronics	18EC0436	Employability
9.	Mobile Communications and Networks	18EC0437	Employability
10.	Fiber Optic Communications	18EC0438	Employability
11.	Bio-Medical Electronics	18EC0439	Employability

12.	Project Planning and Control	18CE0146	Entrepreneurship
13.	Solar Photovoltaic Systems	18EE0236	Employability
14.	Computer Aided Process Planning	18ME0353	Skill Development
15.	Software Development & Testing	18CS0544	Skill Development
16.	Entrepreneurship Development	18HS0815	Entrepreneurship
17.	Embedded Systems and IoT Lab	18EC0423	Employability
18.	Microwave Measurements Lab	18EC0424	Employability
19.	Project Phase-I	18EC0426	Employability

III B.Tech

S.No	Course Title	Course Code	Relevance
1.	Control Systems	19EE0212	Employability
2.	Antennas and Wave Propagation	19EC0414	Employability
3.	Digital Communications	19EC0415	Employability
4.	Electronic Measurements and Instrumentation	19EC0416	Employability
5.	Elements of Road Traffic Safety	19CE0129	Skill Development
6.	Solar Photovoltaic Systems	19EE0239	Skill Development
7.	Non-Conventional Energy Resources	19ME0321	Skill Development
8.	Software Development & Testing	19CS0545	Skill Development
9.	Business Ethics	19HS0861	Entrepreneurship
10.	Antennas and Wave Propagation Lab (Virtual Lab)	19EC0417	Employability
11.	Digital Communications Lab	19EC0418	Employability
12.	Electronic Measurements Lab (Virtual Lab)	19EC0419	Employability
13.	English for Corporate Communications Skills Lab	19HS0859	Employability
14.	Managerial Economics and Financial Analysis	19HS0812	Entrepreneurship
15.	Digital Signal Processing	19EC0420	Employability

16.	Microprocessors and Microcontrollers	19EC0421	Employability
17.	Microwave Theory and Techniques	19EC0422	Employability
18.	Project Planning and Control	19CE0147	Entrepreneurship
19.	Neural Networks and Fuzzy Logic	19EE0231	Employability
20.	Computer Aided Process Planning	19ME0353	Skill Development
21.	Introduction to Cyber Security	19CS0546	Skill Development
22.	Strategic Management	19HS0862	Entrepreneurship
23.	Digital Signal Processing Lab	19EC0423	Employability
24.	Microcontroller and Applications Lab	19EC0424	Employability
25.	Microwave Measurements Lab	19EC0425	Employability
26.	Human Values and Professional Ethics	19HS0858	Employability

II B.Tech

S.No	Course Title	Course Code	Relevance
1.	Electronic Devices and Circuits	20EC0402	Employability
2.	Switching Theory and Logic Design	20EC0403	Employability
3.	Signals, Systems and Random Processes	20EC0404	Employability
4.	Analog Communications	20EC0405	Employability
5.	Electronic Devices & Logic Design Lab	20EC0406	Employability
6.	Signals and Systems Simulation Lab	20EC0407	Employability
7.	Analog Communications Lab	20EC0408	Employability
8.	PCB Designing Lab	20EC0455	Skill Development
9.	Environmental Science	20HS0801	Skill Development
10.	Control Systems	20EE0214	Employability
11.	Electronic Circuit Analysis	20EC0409	Employability
12.	Digital Communications	20EC0410	Employability
13.	Linear & Digital IC Applications	20EC0411	Employability

14.	Entrepreneurship Development	20HS0815	Entrepreneurship
15.	Electronic Circuit Analysis Lab	20EC0412	Employability
16.	Digital Communications Lab	20EC0413	Employability
17.	Linear & Digital IC Applications Lab	20EC0414	Employability
18.	CCNA Lab	20EC0456	Skill Development

Modifications described above are carried out to the curriculum after discussions in the BoS by considering the feedback/suggestions from the stakeholders viz. students, alumni, faculty and employers.

Agenda: 3

Approval of course structure and syllabi for IV year B.Tech. under R18 Regulation in ECE w.e.f., 2021-2022.

Resolution: 3

After detailed discussion, the BOS resolved to approve the course structure and syllabi for IV year B.Tech. under R18 Regulation (given in **Annexure –I & II respectively**) applicable for the A.Y.2021-2022.

Also, the Industry expert **Mr. M. Lakshmi Narayana, SDE, OFC Transmission Maintenance, Bengaluru** has suggested few changes in **Fiber Optic Communications** subject. The percentages of changes made were,

- Unit-1 is 90% of the syllabus
- Unit-3 is 10% of the syllabus
- Unit-5 is 80% of the syllabus

Agenda: 4


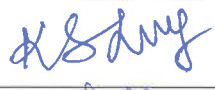





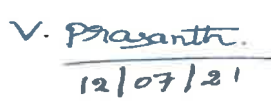
Approval of Panel of examiners and Question paper setters for various regulations under UG.

Resolution:4

Approved the panel of examiners prepared for valuation and panel of question paper setters (given in **Annexure–IV and V** respectively) to be submitted to the college Academic council for approval.

The above items were discussed, debated and the necessary approval was accorded by the BOS. The meeting was concluded with vote of thanks proposed by the Chairman-BOS.

Members Present

S. No.	Member Name	Designation/Organisation	Role of BOS	Signature
1.	Dr. P. Ratna Kamala	Professor & HOD	Chairman	 12/7/21
2.	Dr. P.G.Kuppaswamy	Professor (Signal Processing)	Member	 12/07/2021
3.	Dr. P.G.Gopinath	Professor (VLSI)	Member	 12/07/2021
4.	J. Rajanikanth	Associate Professor (DECS)	Member	J. Raju 12/07/2021
5.	P.Pavan Kumar	Assistant Professor (Embedded Systems)	Member	 12/7/21
6.	Dr T. Ramashri	Professor Sri Venkateswara University College of Engineering,	Member	 Prof. T. RAMASHRI Department of ECE S.V. University College of Engineering TIRUPATI-517 502
7.	Dr. K.P. Naveen	Assistant Professor, IIT Tirupathi	Member	
8.	Dr R.V.S. Satyanarayana	Professor, Sri Venkateswara University College of Engineering,	Member	
9.	Mr. M. Lakshmi Narayana	Junior Telecom Officer, BSNL OFC Transmission maintenance	Member	M. L. Narayan
10.	Mr V. Prasanth	Software Developer DXC Technologies Chennai.	Member	 12/07/21