SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY: PUTTUR (AUTONOMOUS)

8th BoS Meeting of Electronics and Communication Engineering (ECE)

Date: 14/03/2022

The 8th meeting of Board of Studies (BoS) in Electronics and Communication Engineering is held on 14th March,2022 (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 eighth BoS meeting and discussed the following agenda:

1. Approval of course structure and syllabi for III year B.Tech. under R20 Regulation.
2. Approval of course structure and syllabi for IV year B.Tech. under R19 Regulation.
3. Approval of panel of examiners and Question paper setters for III and IV B.Tech. that comes under R20 and R19 Regulations respectively.
4. 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 III year B.Tech. under R20 Regulation in ECE w.e.f., 2022-2023.

Resolution: 1

After detailed discussion, the BOS resolved to approve the course structure and syllabi for III 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 IV year B.Tech. under R19 Regulation in ECE w.e.f., 2022-2023.

Resolution: 2

After detailed discussion, the BOS resolved to approve the course structure and syllabi for IV year B.Tech. under R19 Regulation (given in **Annexure–I & II respectively**) applicable for the A.Y.2021-2022 with minor suggestions in total number of credits and prescribed text book titles and authors for few 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	R18 Regulation	R19 Regulation	Percentage of course content changed
1.	Embedded Systems and IoT	Embedded systems and IoT	0
2.	VLSI Design	VLSI Design	0
3.		Adaptive Signal Processing	100
4.		Information Theory and Coding	100
5.	Digital Image Processing	Digital Image Processing	0
6.	Hi Speed Electronics	High Speed Electronics	0
7.		Scientific Computing	100
8.		Mixed Signal Design	100
9.		Wireless Communications	100
10.	Fiber Optic Communications	Fiber Optic Communications	0
11.	Bio-Medical Electronics	Bio-Medical Electronics	0
12.	Entrepreneurship Development	Entrepreneurship Development	0
13.		Internship (60 Hours)	100
14.	Project Phase-I	Project Phase-I	0
15.		Seminar	100
16.		Comprehensive Viva Voce	100
17.	Project Phase-II	Project Phase-II	0

Consolidated Sheet

Course	Total courses	Percentage of syllabus changed
ECE B.Tech IV Year	**17**	**47.05%**

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	R19 Regulation	R20 Regulation	Percentage of course content changed
1.		Electromagnetic Theory and Transmission Lines	100
2.	Antennas and Wave Propagation	Antennas and Wave Propagation	0
3.	Electronic Measurements and Instrumentation	Electronic Measurements and Instrumentation	0
4.		Fundamentals of Civil Engineering	100
5.		Generation of Energy from Waste	100
6.	Non-Conventional Energy Resources	Non-Conventional Energy Resources	0
7.		Relational Database Management systems	100
8.		Management Science	100
9.		Information Theory and Coding	100
10.		Bio-Medical Electronics	100
11.		English for Corporate Communication Skills	100
12.	Digital Signal Processing	Digital Signal Processing	0
13.		Essence of Indian Traditional Knowledge	100
14.	Microprocessors and Microcontrollers	Microprocessors and Microcontrollers	0
15.		**Summer Internship 2 Months (Mandatory) after second year (to be evaluated during V semester)**	100
16.	Microwave Theory and Techniques	Microwave Theory & Techniques	0
17.		Embedded systems and IoT	100

18.		Fiber Optic Communications	100
19.		Wireless Sensor Networks	100
20.		Mixed Signal Design	100
21.	Digital Signal Processing Lab	Digital Signal Processing Lab	0
22.	Microcontroller and Applications Lab	Microprocessors and Microcontrollers Lab	0
23.		Industrial Instrumentation	100
24.	Microwave Measurements Lab	Microwave Measurements Lab	0
25.		JAVA Programming	100
26.		Intellectual Property Rights	100
27.	Antennas and Wave Propagation Lab (Virtual Lab)	Antennas and Wave Propagation Lab (Virtual Lab)	0
28.		Embedded systems and IoT Lab	100
29.		Fundamentals of Urban Planning	100
30.		Robotics	100
31.		General Mechanical Engineering	100
32.	Human Values and Professional Ethics	Human Values & Professional Ethics	0

Consolidated Sheet

Course	Total courses	Percentage of syllabus changed
ECE B.Tech III Year	**32**	**65.62**

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.	Entrepreneurship Development	19HS0815	Entrepreneurship
2.	Wireless Communications	19EC0426	Employability

3.	Embedded systems and IoT	19EC0427	Employability
4.	VLSI Design	19EC0433	Employability
5.	Information Theory and Coding	19EC0434	Employability
6.	Bio-Medical Electronics	19EC0435	Employability
7.	Mixed Signal Design	19EC0436	Employability
8.	Digital Image Processing	19EC0437	Employability
9.	Scientific Computing	19EC0438	Employability
10.	High Speed Electronics	19EC0439	Employability
11.	Fiber Optic Communications	19EC0440	Employability
12.	Adaptive Signal Processing	19EC0441	Employability
13.	Internship (60 Hours)	19EC0428	Employability
14.	Project Phase-I	19EC0429	Employability
15.	Seminar	19EC0430	Employability
16.	Comprehensive Viva Voce	19EC0431	Employability
17.	Project Phase-II	19EC0432	Employability

III B.Tech

S.No.	Course Title	Course Code	Relevance
1.	Electromagnetic Theory and Transmission Lines	20EC0415	Employability
2.	Microprocessors and Microcontrollers	20EC0416	Employability
3.	Digital Signal Processing	20EC0417	Employability
4.	Fundamentals of Civil Engineering	20CE0170	Skill Development
5.	Generation of Energy from Waste	20EE0227	Skill Development
6.	Non-Conventional Energy Resources	20ME0322	Skill Development
7.	Relational Database Management systems	20CS0550	Skill Development
8.	Management Science	20HS0813	Entrepreneurship

9.	Electronic Measurements and Instrumentation	20EC0430	Employability
10.	Information Theory and Coding	20EC0431	Employability
11.	Bio-Medical Electronics	20EC0432	Employability
12.	Microprocessors and Microcontrollers Lab	20EC0418	Employability
13.	Digital Signal Processing Lab	20EC0419	Employability
14	English for Corporate Communication Skills	20HS0859	Employability
15.	Essence of Indian Traditional Knowledge	20HS0817	Employability
16.	Summer Internship 2 Months (Mandatory) aftersecond year (to be evaluated during V semester)	20EC0420	Employability
17.	Antennas and Wave Propagation	20EC0421	Employability
18.	Embedded systems and IoT	20EC0422	Employability
19.	Microwave Theory & Techniques	20EC0423	Employability
20.	Fiber Optic Communications	20EC0433	Employability
21.	Wireless Sensor Networks	20EC0434	Employability
22.	Mixed Signal Design	20EC0435	Employability
23.	Fundamentals of Urban Planning	20CE0147	Employability
24.	Industrial Instrumentation	20EE0235	Employability
25.	General Mechanical Engineering	20ME0354	Employability
26.	JAVA Programming	20CS0551	Skill Development
27.	Intellectual Property Rights	20HS0814	Skill Development
28.	Antennas and Wave Propagation Lab(Virtual Lab)	20EC0424	Employability
29.	Embedded systems and IoT Lab	20EC0425	Employability
30.	Microwave Measurements Lab	20EC0426	Employability
31.	Robotics	20EC0457	Employability
32.	Human Values & Professional Ethics	20HS0864	Employability

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.

As per the decisions taken in the meeting and considering the suggestions from the suggestions or feedback from the stakeholders for the above modifications in the curriculum.

Agenda: 3

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–III and IV** respectively) to be submitted to the college Academic council for approval.

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

2021 - 2022 ELECTRONICS AND COMMUNICATION ENGINEERING

Members Present

S.No.	Member Name	Designation/Organisation	Role of BOS	Signature
1.	Dr. P. Ratna Kamala	Professor & HOD	Chairman	14/3/22
2.	Dr. P.G.Kuppuswamy	Professor (Signal Processing)	Member	
3.	Dr. P.G.Gopinath	Professor (VLSI)	Member	14/03/2022
4.	J. Rajanikanth	Associate Professor (DECS)	Member	14/3/2022
5.	P.Pavan Kumar	Assistant Professor (Embedded Systems)	Member	
6.	Dr T. Ramashri	Professor Sri Venkateswara University College of Engineering,	Member	14/3/2022
7.	Dr. K.P. Naveen	Assistant Professor, IIT Tirupathi	Member	14/3/2022
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	
10.	Mr V. Prasanth	Software Developer DXC Technologies Chennai.	Member	V. Prasanth