Department of Electronics and Communication Engineering

A meeting of the program curriculum committee of the Department of Electronics and Communication Engineering was held on 02.04.2018 at 11.00 hrs in the board room with agenda of structuring the curriculum for 165 credit scheme.

Following were present

Chairman

Prof. Samir Dev Gupta, Head of the Department

Department coordinator

Dr. Meenakshi Sood

Faculty

Dr. Shruti Jain

Dr. Neeru Sharma

Dr. Vikas Baghel

Dr. Shweta Pandit

Dr. Ashwani Sharma

There were discussion about the courses and their contents for new credit scheme which will be followed for the 2018 first year batch. A reference scheme was sent by Dr. Meenakshi Sood, which was already approved in academic council meeting in 2017, for deciding the course structure of ECE UG course of 165 credit scheme. The reference scheme is attached in appendix I.

Outline of the new credit scheme was decided in the meeting. HSS, basic sciences and engineering sciences courses were already there in the scheme and the committee have decided ECE Department core courses, department electives, open electives, major and minor project credits. The final scheme for 165 credit scheme has been attached in appendix II.

The meeting concluded at 13:00 hrs with a vote of thanks by **Prof. Samir Dev Gupta**, Head of Department, ECE.

APPENDIX I

CSE/IT/ECE

	CSL/II/LCL									i
	Humanities and Social Sciences including Management courses	Basic Science courses	Engineering Science courses		Professional Elective	Open subjects – Electives from other technical and /or emerging	Project work, seminar and internship in industry	[Environmental Sciences, Induction training, Indian Constitution, Essence of Indian Traditional Knowledge]	Total Credits	
Reccomended										
Credits AICTE	14	26	24	48	18	18	15	NA	163	
Sem1	HSS (2)	Physics(5) Maths (4)	Programming-1(5) Basic EE (5)					English (A)	21	21
Sem2	HSS (3)	Physics (5) Maths (4)	Programming-2(6) BEDC(5)						23	23
Sem3	HSS(3)	Maths (4)	Material Sc (3)	DEPTT 13-15					23-25	22
Sem4	HSS(3)	Maths-4 (4)		DEPTT 16-18				EVS (A)	23-25	22
Sem5						OE(3)	Minor project		23	23
Sem6	HSS-5(3)					OE(3)	Minor project		3(+19)	22
Sem7							Project-1		(+15)	16
Sem8							Project-1		(+15)	16

APPENDIX II

В	. TECH ELECTR	CONICS & COMMUNICATION ENGINEERING	NG 1	ST S	EMES T	ER	
S. No.	Subject Code	Name of the Subjects	Cor	Course Hours		Credits]
			L	T	P		
1	10B11PD111	HSS-1	1	0	2	2	
2	10B11MA111	Mathematics-I	3	1	0	4	
3	10B11PH111	Physics-I	3	1	0	4	
4		Electrical Sciences	3	1	0	4	
5	10B11CI111	Introduction to Computer and Programming	3	0	0	3	
6	10B17PH171	Physics Lab-I	0	0	2	1	
7		Electrical Sciences Lab	0	0	2	1	
8	10B17CI171	Computer Programming Lab	0	0	4	2	
9	10B19GE199	Institutional Orientation	0	0	0	0	
10	10B11PD199	English Audit	1	0	0	0	
					Total	21	27 hrs
В. 7	TECH (ELECTR	ONICS & COMMUNICATION ENGINEERIN	IG)2	ND S	SEMES	TER	
S.No.	Subject Code	Subject Names	Cou	ırse l	Hours	Credits	
			L	T	P		
1		Basic Electronics Device & Circuits	3	1	0	4	
2	10B11PD211	HSS-2	3	0	0	3	1
3	10B11MA211	Discrete Mathematics	3	1	0	4	
4	10B11PH211	Physics-II	3	1	0	4	
5	10B11CI211	Data Structures	3	1	0	4	1
6		Basic Electronics Device & Circuits	0	0	2	1	1
7	10B17PH271	Physics Lab-II	0	0	2	1	1
8	10B17CI271	Data Structures and Computer Programming		0	4	2	1
	1021/012/1	Data Structures and Computer Frogramming	Ť				1
					Total	23	27 hrs
B.	 TECH ELECTR	ONICS & COMMUNICATION ENGINEERIN	NG 31	RD S	 EMEST	rer	
S. No.	Subject Code	Name of the Subjects			Hours	Credits	1
511(01	Sunject cour	The or the subjects	L	T	P	0100105	1
1	10B11PD311	Engg Economics	3	0	0	3	
2	10B11MA201	Mathematics-II	3	1	0	4	1
3	10B11PH611	Material Science	3	0	0	3	1
4		Electrical Machines and Instruments	3	0	0	3	1
5	10B11EC301	Signals & Systems	3	1	0	4	1
6		Analogue Electronics	3	1	0	4	1
7	10B17EC307	Signals and Systems Lab	0	0	2	1	
8		Analogues Electronics Lab	0	0	2	1	
9		Electrical Machines and Instruments Lab	0	0	2	1	1
	1				Total	24	26 hrs
							1
В. Т	TECH (ELECTRO	ONICS & COMMUNICATION ENGINEERIN	IG) 4	TH S	SEMES	TER	1
S.No.	Subject Code	Subject Names			Hours	Credits	1
			L	Т	P		1
1	10B11PD411	Financial Management	3	0	0	3	1
-	1			L			J

Tight Electromagnetic Engineering 3 1 0 4	2	10B11MA411	Probability Theory and Random Processes	3	1	0	4	
1					1	_		
Time		1/B11EC411			_	_	=	
Total		17D11EC412	· · · · · · · · · · · · · · · · · · ·					
Python/Pspice lab								
Solution Digital Electronics & Logic Design 0 0 2 1		10B11GE411				_		
9			· ·		_			
B. TECH ELECTRONICS & COMMUNICATION ENGINEERING 5*TH SEMES** S. No.		1501100151	<u> </u>	_				
B. TECH ELECTRONICS & COMMUNICATION ENGINEERING 5TH SEMESTER S. No. Subject Code Name of the Subjects L T P	9	1/B11EC4/1	Analogue and Digital Communications Lab	0	0			l
S. No. Subject Code Name of the Subjects L T P						Total	22	27 hrs
S. No. Subject Code Name of the Subjects L T P								
1 10B11EC512 Digital Signal Processing 3 1 0 4								
1 10B11EC512 Digital Signal Processing 3 1 0 4	S. No.	Subject Code	Name of the Subjects	_			Credits	
2		1001100510	D: 1.10: 1D					
Deptt Elective DE-I		10B11EC512						
A			· · · · ·					
Solution Solution			-					
Subject Code			-					
7								
Solution Subject Code Name of the Subject Names Die-II Solution Die-II Die-II							3	
9							1	
10		10B17EC572					1	
B. TECH (ELECTRONICS & COMMUNICATION ENGINEERING) 6TH SEMESTER S.No. Subject Code Subject Names Course Hours Credits	9		Java Lab	0	0	2	1	
B. TECH (ELECTRONICS & COMMUNICATION ENGINEERING) 6TH SEMESTER	10		Minor Project	0	0		1	
S.No. Subject Code Subject Names Cout I T P 1 10B11PD611 HSS-5 3 0 0 3 2 Data Communication & Networks 3 0 0 3 3 10B11EC612 VLSI Technology and Applications 3 1 0 4 4 DE-II 3 0 0 3 0 0 3 5 DE-III 3 0 0 3 0 0 3 0 0 3 0 0 3 0 0 3 0 0 3 0 0 3 0 0 3 0 0 3 0 0 3 0 0 3 0 0 3 0 0 3 0 0 0 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0<						Total	23	27 hrs
S.No. Subject Code Subject Names Cout I T P 1 10B11PD611 HSS-5 3 0 0 3 2 Data Communication & Networks 3 0 0 3 3 10B11EC612 VLSI Technology and Applications 3 1 0 4 4 DE-II 3 0 0 3 0 0 3 5 DE-III 3 0 0 3 0 0 3 0 0 3 0 0 3 0 0 3 0 0 3 0 0 3 0 0 3 0 0 3 0 0 3 0 0 3 0 0 3 0 0 3 0 0 0 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0<								
L T P								
1 10B11PD611 HSS-5 3 0 0 3 2 Data Communication & Networks 3 0 0 3 3 10B11EC612 VLSI Technology and Applications 3 1 0 4 4 DE-III 3 0 0 3 5 DE-III 3 0 0 3 6 11B1WEC611 Open Elective 3 0 0 3 7 10B17EC672 VLSI Lab 0 0 2 1 8 Minor Project 0 0 4 2 9 10B19GE698 Industrial Training 0 0 0 0 8 Tech ELECTRONICS & COMMUNICATION ENGINEERING 7TH SEMESTER S. No. Subject Code Name of the Subjects Course Hours Credits 1 10B19EC791 Project Part-I 0 0 8 5 2 DE-IV 3 0 0 3 3 DE-V 3 0 0 3 <td< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></td<>								
Data Communication & Networks 3 0 0 3				Cou	ırse l	Hours		
3 10B11EC612 VLSI Technology and Applications 3 1 0 4 4 4 DE-II 3 0 0 3 3 5 DE-III 3 0 0 0 3 3 6 11B1WEC611 Open Elective 3 0 0 0 2 1 8 Minor Project 0 0 4 2 2 9 10B19GE698 Industrial Training 0 0 0 0 0 0 0 0 0	S.No.	Subject Code	Subject Names	Cou	rse l T	Hours P	Credits	
DE-II	S.No.	Subject Code	Subject Names HSS-5	Cou L	rse l T	Hours P	Credits 3	
DE-III	1 2	Subject Code 10B11PD611	HSS-5 Data Communication & Networks	Cou L 3	T 0	Hours P 0	Credits 3 3	
6 11B1WEC611 Open Elective 3 0 0 3 7 10B17EC672 VLSI Lab 0 0 2 1 8 Minor Project 0 0 4 2 9 10B19GE698 Industrial Training 0 0 0 0 B. TECH ELECTRONICS & COMMUNICATION ENGINEERING 7TH SEMESTER S. No. Subject Code Name of the Subjects Course Hours Credits L T P 1 10B19EC791 Project Part-I 0 0 8 5 2 DE-IV 3 0 0 3 3 DE-V 3 0 0 3 4 DE-VI 3 0 0 3	1 2 3	Subject Code 10B11PD611	HSS-5 Data Communication & Networks VLSI Technology and Applications	Cou L 3 3	T 0 0 1	Hours P 0 0 0	Credits 3 3 4	
7 10B17EC672 VLSI Lab 0 0 2 1 8 Minor Project 0 0 4 2 9 10B19GE698 Industrial Training 0 0 0 0 0 B. TECH ELECTRONICS & COMMUNICATION ENGINEERING 7TH SEMESTER S. No. Subject Code Name of the Subjects Course Hours Credits S. No. Subject Code Name of the Subjects Course Hours Credits 1 10B19EC791 Project Part-I 0 0 8 5 2 DE-IV 3 0 0 3 3 DE-V 3 0 0 3 4 DE-VI 3 0 0 3	1 2 3 4	Subject Code 10B11PD611	HSS-5 Data Communication & Networks VLSI Technology and Applications DE-II	Cou L 3 3 3	T 0 0 1 0	P 0 0 0 0 0	3 3 4 3	
8 Minor Project 0 0 4 2 9 10B19GE698 Industrial Training 0 0 0 0 0 B. TECH ELECTRONICS & COMMUNICATION ENGINEERING 7TH SEMESTER S. No. Subject Code Name of the Subjects Course Hours Credits 1 10B19EC791 Project Part-I 0 0 8 5 2 DE-IV 3 0 0 3 3 DE-V 3 0 0 3 4 DE-VI 3 0 0 3	S.No. 1 2 3 4 5	10B11PD611 10B11EC612	HSS-5 Data Communication & Networks VLSI Technology and Applications DE-II DE-III	Cou L 3 3 3 3 3	T 0 0 1 0	Hours P 0 0 0 0 0	3 3 4 3 3	
9 10B19GE698 Industrial Training 0 0 0 0 22 25 hrs B. TECH ELECTRONICS & COMMUNICATION ENGINEERING 7TH SEMESTER S. No. Subject Code Name of the Subjects Course Hours Credits 1 10B19EC791 Project Part-I 0 0 8 5 2 DE-IV 3 0 0 3 3 DE-V 3 0 0 3 4 DE-VI 3 0 0 3	1 2 3 4 5 6	10B11PD611 10B11EC612 11B1WEC611	HSS-5 Data Communication & Networks VLSI Technology and Applications DE-II DE-III Open Elective	Cou L 3 3 3 3 3	T 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Hours P 0 0 0 0 0 0 0	3 3 4 3 3	
Total 22 25 hrs B. TECH ELECTRONICS & COMMUNICATION ENGINEERING 7TH SEMESTER S. No. Subject Code Name of the Subjects Course Hours Credits L T P	S.No. 1 2 3 4 5 6 7	10B11PD611 10B11EC612 11B1WEC611	HSS-5 Data Communication & Networks VLSI Technology and Applications DE-II DE-III Open Elective VLSI Lab	Cou L 3 3 3 3 3 0	T 0 0 1 0 0 0 0 0 0 0	Hours P 0 0 0 0 0 0 2	3 3 4 4 3 3 3 1 1	
B. TECH ELECTRONICS & COMMUNICATION ENGINEERING 7TH SEMESTER S. No. Subject Code Name of the Subjects Course Hours Credits 1 10B19EC791 Project Part-I 0 0 8 5 2 DE-IV 3 0 0 3 3 DE-V 3 0 0 3 4 DE-VI 3 0 0 3	1 2 3 4 5 6 7 8	10B11PD611 10B11EC612 11B1WEC611 10B17EC672	HSS-5 Data Communication & Networks VLSI Technology and Applications DE-II DE-III Open Elective VLSI Lab Minor Project	3 3 3 3 3 3 0 0	T 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Hours P 0 0 0 0 0 0 2 4	3 3 4 4 3 3 3 1 1	
S. No. Subject Code Name of the Subjects Course Hours Credits 1 10B19EC791 Project Part-I 0 0 8 5 2 DE-IV 3 0 0 3 3 DE-V 3 0 0 3 4 DE-VI 3 0 0 3	1 2 3 4 5 6 7 8	10B11PD611 10B11EC612 11B1WEC611 10B17EC672	HSS-5 Data Communication & Networks VLSI Technology and Applications DE-II DE-III Open Elective VLSI Lab Minor Project	3 3 3 3 3 3 0 0	T 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Hours P 0 0 0 0 0 0 2 4	3 3 4 3 3 3 1 2	
S. No. Subject Code Name of the Subjects Course Hours Credits 1 10B19EC791 Project Part-I 0 0 8 5 2 DE-IV 3 0 0 3 3 DE-V 3 0 0 3 4 DE-VI 3 0 0 3	1 2 3 4 5 6 7 8	10B11PD611 10B11EC612 11B1WEC611 10B17EC672	HSS-5 Data Communication & Networks VLSI Technology and Applications DE-II DE-III Open Elective VLSI Lab Minor Project	3 3 3 3 3 3 0 0	T 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Hours P 0 0 0 0 0 0 2 4	3 3 4 3 3 3 1 2	
Image: Control of the contro	S.No. 1 2 3 4 5 6 7 8 9	10B11PD611 10B11EC612 11B1WEC611 10B17EC672 10B19GE698	HSS-5 Data Communication & Networks VLSI Technology and Applications DE-II DE-III Open Elective VLSI Lab Minor Project Industrial Training	3 3 3 3 3 0 0	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Hours P 0 0 0 0 0 0 2 4 0 Total	3 3 4 3 3 1 2 0 22	
1 10B19EC791 Project Part-I 0 0 8 5 2 DE-IV 3 0 0 3 3 DE- V 3 0 0 3 4 DE-VI 3 0 0 3	S.No. 1 2 3 4 5 6 7 8 9	10B11PD611 10B11EC612 11B1WEC611 10B17EC672 10B19GE698	HSS-5 Data Communication & Networks VLSI Technology and Applications DE-II DE-III Open Elective VLSI Lab Minor Project Industrial Training ONICS & COMMUNICATION ENGINEERING	3 3 3 3 3 0 0	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Hours P 0 0 0 0 0 0 2 4 0 Total	3 3 4 3 3 1 2 0 22	
2 DE-IV 3 0 0 3 3 DE-V 3 0 0 3 4 DE-VI 3 0 0 3	S.No. 1 2 3 4 5 6 7 8 9	10B11PD611 10B11EC612 11B1WEC611 10B17EC672 10B19GE698 TECH ELECTR	HSS-5 Data Communication & Networks VLSI Technology and Applications DE-II DE-III Open Elective VLSI Lab Minor Project Industrial Training ONICS & COMMUNICATION ENGINEERING	Cou L 3 3 3 3 3 0 0 0 0 Cou	TH Si	Hours P 0 0 0 0 0 0 2 4 0 Total EMEST	3 3 4 3 3 1 2 0 22	
3 DE-V 3 0 0 3 4 DE-VI 3 0 0 3	S.No. 1 2 3 4 5 6 7 8 9	10B11PD611 10B11EC612 11B1WEC611 10B17EC672 10B19GE698 TECH ELECTR Subject Code	HSS-5 Data Communication & Networks VLSI Technology and Applications DE-II DE-III Open Elective VLSI Lab Minor Project Industrial Training ONICS & COMMUNICATION ENGINEERING Name of the Subjects	Cou L 3 3 3 3 3 0 0 0 0 Cou L	TH SI	Hours P 0 0 0 0 0 0 2 4 0 Total EMEST	3 3 4 3 3 1 2 0 22 CER Credits	
4 DE-VI 3 0 0 3	S.No. 1 2 3 4 5 6 7 8 9	10B11PD611 10B11EC612 11B1WEC611 10B17EC672 10B19GE698 TECH ELECTR Subject Code	HSS-5 Data Communication & Networks VLSI Technology and Applications DE-II DE-III Open Elective VLSI Lab Minor Project Industrial Training ONICS & COMMUNICATION ENGINEERING Name of the Subjects Project Part-I	Cou L 3 3 3 3 3 0 0 0 0 Cou L	TH Sinrse I	P	3 3 4 3 3 3 1 2 2	
	S.No. 1 2 3 4 5 6 7 8 9 S. No.	10B11PD611 10B11EC612 11B1WEC611 10B17EC672 10B19GE698 TECH ELECTR Subject Code	HSS-5 Data Communication & Networks VLSI Technology and Applications DE-II DE-III Open Elective VLSI Lab Minor Project Industrial Training ONICS & COMMUNICATION ENGINEERI Name of the Subjects Project Part-I DE-IV	Cou L 3 3 3 3 3 0 0 0 0 Cou L 0 3	TH Sirse I T 0 0 0 0 0 0 0 0 TH Sirse I 0 0	P	3 3 4 3 3 3 1 2 2	
Total 14 19 HRS	S.No. 1 2 3 4 5 6 7 8 9 S. No.	10B11PD611 10B11EC612 11B1WEC611 10B17EC672 10B19GE698 TECH ELECTR Subject Code	HSS-5 Data Communication & Networks VLSI Technology and Applications DE-II DE-III Open Elective VLSI Lab Minor Project Industrial Training ONICS & COMMUNICATION ENGINEERI Name of the Subjects Project Part-I DE-IV	Cou L 3 3 3 3 3 0 0 0 Cou L 0 3 3	TH Sirse I T 0 0 0 0 0 0 0 0 TH Sirse I 0 0	P	3 3 4 3 3 3 1 2 2	
	S.No. 1 2 3 4 5 6 7 8 9 B. S. No.	10B11PD611 10B11EC612 11B1WEC611 10B17EC672 10B19GE698 TECH ELECTR Subject Code	HSS-5 Data Communication & Networks VLSI Technology and Applications DE-II DE-III Open Elective VLSI Lab Minor Project Industrial Training ONICS & COMMUNICATION ENGINEERI Name of the Subjects Project Part-I DE-IV DE- V	Cou L 3 3 3 3 3 0 0 0 Cou L 0 3 3	TH Sinrse I T 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	P	3 3 4 3 3 3 1 2 2	
	S.No. 1 2 3 4 5 6 7 8 9 B. S. No.	10B11PD611 10B11EC612 11B1WEC611 10B17EC672 10B19GE698 TECH ELECTR Subject Code	HSS-5 Data Communication & Networks VLSI Technology and Applications DE-II DE-III Open Elective VLSI Lab Minor Project Industrial Training ONICS & COMMUNICATION ENGINEERI Name of the Subjects Project Part-I DE-IV DE- V	Cou L 3 3 3 3 3 0 0 0 Cou L 0 3 3	TH Sinrse I T 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	P	3 3 4 3 3 3 1 2 0 22 TER Credits 5 3 3 3 3	25 hrs

B. TECH (ELECTRONICS & COMMUNICATION ENGINEERING) 8TH SEMESTER								
S.No.	Subject Code	Subject Names		Course Hours			Credits	
				L	T	P		
1		PD Elective-II		3	0	0	3	
2		DE-VII		3	0	0	3	
3		DE-VIII		3	0	0	3	
4	10B19EC891	Project Part II		0	0	8	7	
						Total	16	17

TOTAL CREDITS		165
TOTAL HOURS		195
TOTAL PRACTICAL HOURS		60
TOTAL THEORY+TUTORIALS		135