



**2nd Year: Electronics & Communication Engineering
III Semester**

Sr. No.	Course Code	Category	Course Title	Hours			Marks			Credits
				L	T	P	IA	ETE	Total	
1	3EC2-01	BSC	Advanced Engineering Mathematics-I	3	0	0	30	120	150	3
2	3EC1-02/ 3EC1-03	HSMC	Technical Communication/Managerial Economics and Financial Accounting	2	0	0	20	80	100	2
3	3EC4-04	PCC	Digital System Design	3	0	0	30	120	150	3
4	3EC4-05	PCC	Signal & Systems	3	0	0	30	120	150	3
5	3EC4-06	PCC	Network Theory	3	1	0	40	160	200	4
6	3EC4-07	PCC	Electronics Devices	3	1	0	40	160	200	4
7	3EC4-21	PCC	Electronics Devices Lab	0	0	2	30	20	50	1
8	3EC4-22	PCC	Digital System Design Lab	0	0	2	30	20	50	1
9	3EC4-23	PCC	Signal Processing Lab	0	0	2	30	20	50	1
10	3EC3-24	ESC	Computer Programming Lab-I	0	0	2	30	20	50	1
11	3EC7-30	Training Exam	Training seminar						50	1
12	3EC8-00	SODECA	Social Outreach, Discipline & Extra Curricular Activities						25	0.5
			TOTAL	17	2	8			1225	24.5

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**2nd Year: Electronics & Communication Engineering
IV Semester**

Sr. No.	Course Code	Category	Course Title	Hours			Marks			Credits
				L	T	P	IA	ETE	Total	
1	4EC2-01	BSC	Advanced Engineering Mathematics-II	3	0	0	30	120	150	3
2	4EC1-03/ 4EC1-02	HSMC	Managerial Economics and Financial Accounting/ Technical Communication	2	0	0	10	40	50	1
3	4EC4-04	PCC	Analog Circuits	3	1	0	40	160	200	4
4	4EC4-05	PCC	Microcontrollers	3	0	0	30	120	150	3
5	4EC3-06	ESC	Electronics Measurement & Instrumentation	3	0	0	30	120	150	3
6	4EC4-07	PCC	Analog and Digital Communication	3	1	0	40	160	200	4
7	4EC4-21	PCC	Analog and Digital Communication Lab	0	0	3	45	30	75	1.5
8	4EC4-22	PCC	Analog Circuits Lab	0	0	3	45	30	75	1.5
9	4EC4-23	PCC	Microcontrollers Lab	0	0	2	30	20	50	1
10	4EC4-24	PCC	Electronics Measurement & Instrumentation Lab	0	0	2	30	20	50	1
11	4EC18-00	SODECA	Social Outreach, Discipline & Extra Curricular Activities						25	0.5
			TOTAL	16	3	10			1175	23.5

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3rd Year: Electronics & Communication Engineering
V Semester

Sr. No.	Course Code	Category	Course Title	Hours			Marks			Credits
				L	T	P	IA	ETE	Total	
1	5EC4-01	PCC	Electromagnetics Waves	3	0	0	30	120	150	3
2	5EC3-02	ESC	Computer Architecture	2	0	0	20	80	100	2
3	5EC4-03	PCC	Control system	3	0	0	30	120	150	3
4	5EC4-04	PCC	Digital Signal Processing	3	0	0	30	120	150	3
5	5EC4-05	PCC	Microwave Theory & Techniques	3	0	0	30	120	150	3
6		PEC	Program Elective-1	3	0	0	30	120	150	3
7	5EC4-21	PCC	RF Simulation Lab	0	0	2	30	20	50	1
8	5EC4-22	PCC	Digital Signal Processing Lab	0	0	3	30	20	50	1
9	5EC4-23	PCC	Microwave Lab	0	0	3	30	20	50	1
10	5EC7-30	Training Exam	Training seminar						125	2.5
11	5EC8-00	SODECA	Social Outreach, Discipline & Extra Curricular Activities						25	0.5
			TOTAL	17	0	8			1150	23.0



3rd Year: Electronics & Communication Engineering
VI Semester

Sr. No.	Course Code	Category	Course Title	Hours			Marks			Credits
				L	T	P	IA	ETE	Total	
1	6EC3-01	ESC	Power Electronics	2	0	0	20	80	100	2
2	6EC4-02	PCC	Computer Network	3	0	0	30	120	150	3
3	6EC4-03	PCC	Fiber Optics Communications	3	0	0	30	120	150	3
4	6EC4-04	PCC	Antennas and Propagation	3	0	0	30	120	150	3
5	6EC4-05	PCC	Information theory and coding	3	0	0	30	120	150	3
6		PEC	Program Elective-2	3	0	0	30	120	150	3
7	6EC4-21	PCC	Computer Network Lab	0	0	4	60	40	100	2
8	6EC4-22	PCC	Antenna and wave propagation Lab	0	0	2	30	20	50	1
9	6EC4-23	PCC	Electronics Design Lab	0	0	4	60	40	100	2
10	6EC4-24	PCC	Power Electronics Lab	0	0	2	30	20	50	1
11	6EC8-00	SODECA	Social Outreach, Discipline & Extra Curricular Activities						25	0.5
			TOTAL	17	0	12			1175	23.5



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4th Year: Electronics & Communication Engineering VII Semester

Sr. No.	Course Code	Category	Course Title	Hours			Marks			Credits
				L	T	P	IA	ETE	Total	
1	7EC4-01	PCC	CMOS Design	2	0	0	20	80	100	2
2	7EC4-02	PCC	Digital Image and Video Processing	2	0	0	20	80	100	2
3	7EC6-11	OE	Open Elective-1	3	0	0	30	120	150	3
4		PEC	Program Elective-3	2	0	0	20	80	100	2
5	7EC4-21	PCC	VLSI Design Lab	0	0	2	30	20	50	1
6	7EC7-40	Seminar	Seminar	0	0	4	60	40	100	2
7	7EC7-30	Training Exam	Training Seminar						125	2.5
8	7EC8-00	SODECA	Social Outreach, Discipline & Extra Curricular Activities						25	0.5
9	7EC9	Mandatory Course								Non Credit
			TOTAL	9	0	6			750	15

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4th Year: Electronics & Communication Engineering VIII Semester

Sr. No.	Course Code	Category	Course Title	Hours			Marks			Credits
				L	T	P	IA	ETE	Total	
1		PEC	Program Elective-4	2	0	0	20	80	100	2
2		PEC	Program Elective-5	3	0	0	30	120	150	3
3	8EC6-11	OE	Open Elective-2	3	0	0	30	120	150	3
4	8EC7-50		Project	0	0	4	210	140	350	7
5	8EC8-00	SODECA	Social Outreach, Discipline & Extra Curricular Activities						25	0.5
6	8EC9	Mandatory Course								Non Credit
			TOTAL	8	0	4			775	15.5

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PROGRAM ELECTIVE COURSE(S)			
Sr. No	Subject Code	Title	Program Elective/ Semester
1	5EC5-11	Bio-Medical Electronics	Program Elective-1/V
2	5EC5-12	Embedded Systems	
	5EC5-13	Probability Theory & Stochastic Process	
3	5EC5-14	Satellite Communication	
4	6EC5-11	Introduction to MEMS	Program Elective-2/VI
5	6EC5-12	Nano Electronics	
	6EC5-13	Neural Network And Fuzzy Logic Controller	
6	6EC5-14	High Speed Electronics	
7	7EC5-11	Mobile Communication and Network	Program Elective-3/VII
8	7EC5-12	Mixed Signal Design	
9	7EC5-13	Error Correcting Codes	
10	8EC5-11	Speech and audio processing	Program Elective-4, Program Elective-5/VIII
11	8EC5-12	Adaptive Signal Processing	
12	8EC5-13	Wireless Sensor Network	
13	8EC5-14	Wavelets	
14	8EC5-15	Scientific Computing	
Open ELECTIVE COURSE(S) for Other Departments			
Sr. No	Subject Code	Title	Program Elective/ Semester
1	7EC6-01	Digital System Design	Open Elective-1/VII



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2	7EC6-02	Control System	
3	7EC6-03	Digital Signal Processing	
4	7EC6-04	Digital Image And Video Processing	
5	8EC6-01	Microcontroller	Open Elective-2/VIII
6	8EC6-02	Electronics Measurement And Instrumentation	
7	8EC6-03	Neural Network And Fuzzy Logic Controller	

SWAYAM COURSES for EC

S. No.	Course Name	Faculty Name, Institute
1	An Introduction to Coding Theory	Adrish Banerjee, IIT Madras
2	VLSI Physical Design	Indranil Sengupta, IIT Kharagpur
3	Information Security-3	V Kamakoti, IIT Madras
4	Soft Nanotechnology	Rabibrata Mukherjee, IIT Kharagpur
5	Audio System Engineering	Shyamal Kumar Das Mandal, IIT Kharagpur
6	Computational Electromagnetics and Applications	Krish Sankaran, IIT Bombay
7	Analog Circuit and System Through SPICE Simulation	Mrigank Sharad, IIT Kharagpur
8	Hardware Modelling using Verilog	Indranil Sengupta, IIT Kharagpur
9	Semiconductor Optoelectronics	M. R. Shenoy, IIT Delhi
10	Electronics waste management issues and challenges	Brajesh kumar dubey, IIT Kharagpur
11	Applies optimization for wireless, Machine learning, Big data	Aditya K. jagannathan, IIT Kanpur
12	Control System Design	Jayanth G R, IISc bangalore
13	Fabrication Technique for MEMS based Sensors	Hardik Jeetndra Pandya, IISc bangalore
14	Op-amp practical Application: Design , Simulation and Implementation	Hardik Jeetndra pandya, IISc bangalore
15	Analysis and Design principle of Microwave Antennas	Amitabh Bhattacharya, IIT Kharagpur
16	Introduction to IOT	Sudip Misra, IIT Kharagpur
17	Introduction on Intellectual Property to Engineers and Technologist	Tapas Kumar Bandyopadhyay, IIT Kharagpur