



Course Curriculum

Semester I

Code No.	Paper	Credits	Contact Hrs./ Semester
Theory			
ECW- 601	Digital System Design	3	40
ECW- 603	Detection and Estimation Theory	3	40
ECW- 605	Modern Digital communication Systems	3	40
Practical			
ECW- 651	Digital System Design Lab	2	30
ECW- 653	Modern Digital Communication System Lab	2	30
ECW- 655	Term Paper -1 & Expert Lecture*	3	-
TOTAL		16	

Semester II

Code No.	Paper	Credits	Contact Hrs./ Semester
Theory			
ECW - 602	Microelectronics Technology	3	40
ECW - 604	Advanced Digital signal processing	3	40
ECW - 606	Optical Fiber Communication systems and Networks	3	40
Practical			
ECW - 652	Advanced Digital signal processing Lab	2	30
ECW - 654	Optical Fiber Communication systems and Networks Lab	2	30
ECW - 656	Term Paper-II & Expert Lecture	3	-
TOTAL		16	



Semester III

Code No.	Paper	Credits	Contact Hrs./ Semester
Theory			
ECW - 701	Advanced VLSI Design	3	40
ECW - 703	Digital Mobile Cellular Systems	3	40
ECW - 705	Digital Image processing	3	40
Practical			
ECW - 751	Advanced VLSI Design Lab	2	30
ECW - 753	Digital Mobile Cellular Systems Lab	2	30
ECW - 755	Digital Image processing Lab	2	30
ECW - 757	Term Paper - III & Expert Lecture*	3	-
TOTAL		18	

Semester IV

Code No.	Paper	Credits	Contact Hrs./ Semester
Theory			
ECW - 702	Industrial Systems	3	40
ECW - 704	Microwave Integrated Circuits	3	40
Elective I (choose any one)			
ECW - 706	Speech processing	3	40
ECW - 708	Advanced Radiation Systems		
ECW - 710	Embedded Systems and design		
ECW - 712	Radar and Satellite Communication technology		
ECW - 714	Advanced mobile Computing		
ECW - 716	Knowledge Management		
Practical			
ECW - 752	Elective-I	2	30
ECW - 754	Microwave Integrated Circuits Lab	2	30
ECW - 756	Minor Project	4	-
TOTAL		17	



Semester V

Code No.	Paper	Credits	Contact Hrs./ Semester
Theory			
ECW- 801	Enterprise Resource Planning (ERP) and beyond	3	40
Elective II (choose any one)		3	40
ECW- 803	Quantum computing and Nanotechnology		
ECW- 805	MEMS and Sensor Technology		
ECW- 807	Multimedia Technology		
ECW- 809	Smart Antennas systems		
ECW- 811	Open ended topic		
Elective III (choose any one)		3	40
ECW- 817	Network Security		
ECW- 819	Advanced Computer Communication Networks		
ECW- 821	Virtual Instrumentation		
ECW- 823	Soft Computing		
ECW- 825	Artificial Intelligence and expert systems		
ECW-827	Open ended research topic		
Practical			
ITW - 851	Elective-II Lab	2	30
ITW - 853	Elective-III Lab	2	30
ITW - 855	Major Project Part-I	4	-
TOTAL		17	



Semester VI

Code No.	Paper	Credits	Contact Hrs./ Semester
ECW - 802	Major Project Part-II/ Dissertation	16	-
ECW -804*	Seminar & Progress Reports	03	-
ECW- 806*	Comprehensive Viva	03	-
TOTAL			22

Note:

1. The total number of credits of the programme M. Tech [Information Technology] = 106
2. Each student shall be required to appear for examinations in all courses. However, for the award of the degree a student shall be required to earn the minimum of 100 credits.

Note: Elective course(s) will be offered only if it is opted by 33% of actual strength of the class.