

Tripura University (A Central University)
Suryamaninagar, Tripura 799022, India
M.Tech. (Electronics and Communication Engineering)

Curriculum Structure

Semester I

Course Type	Course Code	Course Name	Marks	L	T	P	Credits
Core 1	EC 901 C	Advanced Optical Fibre Communication System	100	04	0	0	04
Core 2	EC 907 C	RF and Microwave Circuit Design	100	04	0	0	04
Elective	EC 903 E	Elective I 1. Advanced Communication Techniques 2. Quantum Mechanics 3. Statistical Information Processing 4. Cognitive Radio 5. Laser & Optoelectronics 6. MOOCs/NPTEL	100	04	0	0	04
Elective	EC 904 E	Elective II 1. Wireless & Mobile Communication 2. Advanced RF & Antenna Engineering 3. DSP & Architecture 4. Digital Communication Networks & Protocol 5. MOOCs/NPTEL	100	03	0	0	03
Compulsory Foundation Course	Computer Skill III	JAVA Software	100	03	0	0	04
Lab 1	EC 905P	Optical communication Lab	100	0	0	04	02
Lab 2	EC 906P	Microwave & Antenna Engineering lab	100	0	0	04	02
Total			700	15	0	08	23

Semester II

Course Type	Course Code	Course Name	Marks	L	T	P	Credits
Core 1	EC 1001 C	Optical Networks	100	04	0	0	04
Core 2	EC 1002 C	Antennas & Radiating Systems	100	04	0	0	04
Elective	EC 1003 E	Elective I 1. Nanoscale Physics & Microelectronic Circuits 2. Satellite Communication 3. Internet of Things 4. Modern Data Transmission Technology 5. Software defined networking 9. MOOCs/NPTEL	100	04	0	0	04
Elective	EC 1004 E	Elective II 1. MOOCs/NPTEL Online Courses 2. EMI/EMC 3. MIMO Communication Systems 4. Network Security and Cryptography 5. Real Time Embedded System 6. VLSI design 7. Broadband Network and Network Management 10. MOOCs/NPTEL	100	03	0	0	03
Sessional 1	EC 1005 P	Term Paper Leading to Thesis	100	0	0	04	02
Sessional 2	EC 1006 P	Project Design	100	0	0	04	02
			600	12		8	19

Semester III

Course Type	Course Code	Course Name	Marks	L	T	P	Credits
Dissertation	EC 1106 C	Dissertation Phase-I	200	0	0	12	6
Dissertation	EC 1107 C	Thesis Seminar Interim & Viva-Voce	200	0	0	8	4
	EC 1108 C	Research Methodology	100	4	0	8	4
Audit Course		Audit Course I: 1. Fundamental of Business managements 2. Lasers and Optoelectronics 3. Photonics and Optical Switching		5			00

		4. Fundamentals of Image Processing					
Total			500	02	0	28	17

Semester IV

Course Type	Course Code	Course Name	Marks	L	T	P	Credits
Dissertation	EC -1206C	Dissertation Phase - II	200	0	0	12	6
Dissertation	EC 1207 C	Thesis Seminar Interim & Viva-Voce	200	0	0	12	6
Audit Course		Audit Course II: 1. Information Theory and Coding 2. Bioinformatics 3. Remote Sensing 4. Artificial Intelligence 5. Biomedical Engineering 6. Advanced Optoelectronics 7. Satellite Communication 8. Advanced Microwave Engineering		4	0	0	00
Elective Foundation	EC 1205 EF	Elective V 1. Communicative English 2. Yoga 3. NSS and Social Services	50	0	0	0	02
Total			400	04		24	14

*70 (Theory) + 30 (Internal Assessment). Total max. credit: 72 (Range: 68-72).

Elective offered to other Departments in even semesters: Sensor and System, Credit: 3 & Marks: 100