

M.TECH.
IN
ELECTRONICS & COMMUNICATION
ENGINEERING
(SPECIALIZATION IN COMMUNICATION SYSTEM
ENGINEERING)
TRIPURA UNIVERSITY
(A CENTRAL UNIVERSITY)
TRIPURA, INDIA

COURSE STRUCTURE

1st Semester: 700 Marks

Course Code	Course Name	Marks	L	T	P	C	Core/Elective	MOOC
EC901C	Advanced Optical Fiber Communication System	100 *(70+30)	04	0	0	04	C	
EC 902 C	Advanced Microwave Engineering	100 *(70+30)	04	0	0	04	C	
EC 903 Ex	Elective Paper I	100 *(70+30)	04	0	0	04	E	
EC 904 Ex	Elective Paper II	100 *(70+30)	04	0	0	04	E	
CSK III/ CSK IV (Compulsory Foundation)	JAVA Software/Python/C/C++ (CSK III) Or Application of MATLAB/Octave and Python in Data processing(CSK IV)	100 *(70+30)	04	0	0	04	C	
EC 905C	Optical communication Lab	100 *(70+30)	0	0	04	02	C	
EC 906C	RF and CAD Project lab	100 *(70+30)	0	0	04	02	C	
Total		700	20	0	08	24		

2nd Semester: 700 Marks

Corse Name	Course Name	Marks	L	T	P	C	Core/Elective	MOOC
EC 1001 C	Optical Networks	100 *(70+30)	04	0	0	04	C	
EC 1002 C	Advanced Antennas & Radiating Systems	100 *(70+30)	04	0	0	04	C	
EC 1003 Ex	Elective Paper III	100 *(70+30)	04	0	0	04	E	
EC 1004 Ex	Elective Paper IV	100 *(70+30)	04	0	0	04	E	
EC 1005 C	Term Paper Leading to Thesis	100 *(70+30)	0	0	04	02	C	
EC 1006 C	Project Design	100 *(70+30)	0	0	04	02	C	
EC 1007 C	Programming Lab	100 *(70+30)	0	0	04	02	C	
Total		700	16	0	12	22		

3rd Semester: 700 Marks [Any paper from any dept.]

Corse Code	Course Name	Marks	L	T	P	C	Core/Elective	MOOC
EC 1106 C	Dissertation Phase-I	200	0	0	16	08	C	
EC 1107 C	Thesis Seminar Interim Presentation & VIVA-VOCE	200	00	0	08	04	C	
EC 1108 C	Research Methodology	100	04	0	0	04	C	
EC 1109 C	Workshop and Seminars	100 *(70+30)	00	02	02	02	C	
EC 1110 Ex	Elective Paper V	100 *(70+30)	04	0	0	04	E	
Total		700	08	2	26	22		

4th Semester: 600 Marks

Corse Code	Course Name	Marks	L	T	P	C	Core/Elective	MOOC
EC 1206C	Dissertation Phase - II	200	00	00	16	08	C	
EC 1207 C	Thesis Seminar Final Presentation & VIVA-VOCE	200	00	00	16	08	C	
EC 1208 C	Workshop and Seminars	100 *(70+30)	00	02	02	02	C	
EC 1209 Ex	Elective Paper VI	100 *(70+30)	04	00	00	04	E	
Total		600	04	02	34	22		

* 'x' will be replaced by 'A, B, C.....' for elective papers.

*(70+30) indicates 70 marks for external and 30 marks for internal assessment.

*Elective papers can be opted from parent department or other department if offered.

*Minimum credit required per semester is 16 and total credit required is 80.

(as per Tripura University norms)

Total Credit assigned: 90

Elective Papers

Code (Code of Elective followed by numbers given below)	Course Name	L	T	P	C
A	Advanced Communication Techniques	04	0	0	04
B	Remote Sensing	04	0	0	04
C	Statistical Information Processing	04	0	0	04
D	Laser & Optoelectronics	04	0	0	04
E	Computer vision and Image Processing Fundamentals and Applications	04	0	0	04
F	Wireless & Mobile Communication	04	0	0	04
G	RFID	04	0	0	04
H	DSP and Communication networking	04	0	0	04
I	Digital Communication Networks & Protocol	04	0	0	04
J	Artificial Intelligence& Soft Computing	04	0	0	04
K	Digital Image Processing	04	0	0	04

L	Satellite Communication	04	0	0	04
M	Internet of Things (IoT)	04	0	0	04
N	Modern Data Transmission Technology	04	0	0	04
O	Modern Digital Communication Techniques	04	0	0	04
P	Introduction to Coding Theory	04	0	0	04
Q	Mathematical Methods and Techniques in Signal Processing	04	0	0	04
R	Photonic Integrated Circuit	04	0	0	04
S	MOOCs/NPTEL (As they offer)	04	0	0	04
T	EMI/EMC	04	0	0	04
U	MIMO Communication Systems	04	0	0	04
V	VLSI design	04	0	0	04
W	Broadband Network and Network Management	04	0	0	04
X	Advanced Microprocessors and Microcontrollers	04	0	0	04
Y	Advanced Mathematical Techniques	04	0	0	04
Z	Electronic System Design	04	0	0	04

