

SHRI G S INSTITUTE OF TECHNOLOGY & SCIENCE, INDORE
I M.TECH. ELECTRONICS AND COMMUNICATIONS ENGINEERING

SEMESTER - I

S.No.	Subject Code	Subject	Hours per Week			Th. Credit	Pr. Credit	Maximum Marks				
			L	T	P			TH	CW	SW	Pr.	Total
1	MA65014	Linear Algebra, Probability Theory and Optimization	3	1	-	4	-	70	30	-	-	100
2	EC65015	Wireless and Mobile Communication	3	-	-	3	-	70	30	-	-	100
3	EC65016	Modern Communication Networks	3	-	-	3	-	70	30	-	-	100
4		ELECTIVE I	3	-	-	3	-	70	30	-	-	100
5		ELECTIVE II	3	-	-	3	-	70	30	-	-	100
6	EC65455	Advanced Communication Lab	-	-	4	-	2	-	-	40	60	100
7	EC65456	Network Design and Simulation Lab	-	-	4	-	2	-	-	40	60	100
8	EC65499	Comprehensive Viva	-	-	-	-	-	-	-	-	Grade	Grade
Total			15	1	8	16	4	350	150	80	120	700

SEMESTER - II

S.No.	Subject Code	Subject	Hours per Week			Th. Credit	Pr. Credit	Maximum Marks				
			L	T	P			TH	CW	SW	Pr.	Total
1	EC65514	SDR and Cognitive Radio	3	-	-	3	-	70	30	-	-	100
2	EC65515	Advanced Antenna Theory & Design	3	-	-	3	-	70	30	-	-	100
3	EC65516	Internet of Things	3	-	-	3	-	70	30	-	-	100
4		ELECTIVE III	3	-	-	3	-	70	30	-	-	100
5		ELECTIVE IV	3	-	-	3	-	70	30	-	-	100
6	EC65855	Sensor Networks and IoT Lab	-	-	2	-	1	-	-	40	60	100
7	EC65856	Antenna Testing and Measurement Lab	-	-	4	-	2	-	-	40	60	100
8	EC65883	Minor Project/Seminar	-	-	2	-	1	-	-	100	-	100
9	EC65899	Comprehensive Viva	-	-	-	-	-	-	-	-	Grade	Grade
Total			15	0	8	15	4	350	150	180	120	800

I M.TECH. ELECTRONICS AND COMMUNICATIONS ENGINEERING**List of Electives**

Elective I		Semester I
S.No	Subject Code	Subject
1	EC65215	Information Theory and Coding
2	IT65216	Artificial Intelligence and Machine Learning

Elective II		Semester I
S.No	Subject Code	Subject
1	EC65316	Voice and Data Networks
2	EC65317	Game Theory in Wireless Communication
3	EC65318	Advanced Digital Signal Processing

Elective III		Semester II
S.No	Subject Code	Subject
1	EC65717	Embedded Systems
2	EC65718	Optical Networks

Elective IV		Semester II
S.No	Subject Code	Subject
1	EC65768	Cryptography & E-Security
2	EC65769	Markov chains and Queuing System

II M.TECH. ELECTRONICS AND COMMUNICATIONS ENGINEERING

SEMESTER - III

S.No.	Subject Code	Subject	Hours per Week			Th. Credit	Pr. Credit	Maximum Marks				
			L	T	P			TH	CW	SW	Pr.	Total
1	EC65931	*Industrial Training/Term Paper/Seminar	-	-	8	-	4	-	-	50	-	50
2	EC65932	Dissertation Phase-I	-	-	20	-	10	-	-	40	60	100
3	MA65902	**Research Methodology & IPR	2	-	-	2	-	70	30	-	-	100
Total			2	0	28	2	14	70	30	90	60	250

* Industrial training to be carried out between II and III semester during vacation

** This course can be studied online with prior permission of HOD, however, End-semester examination will be conducted in the Institute.

SEMESTER - IV

S.No.	Subject Code	Subject	Hours per Week			Th. Credit	Pr. Credit	Maximum Marks				
			L	T	P			TH	CW	SW	Pr.	Total
1	EC65952	Dissertation Phase-II	-	-	32	-	16	-	-	80	120	200
Total			0	0	32	0	16	0	0	80	120	200