

I YEAR B.Tech. (4YDC)**Common To All Branches****Semester - A**

S. No.	Subject Category	Subject Code	Subject Name	Hours per Week			Credits		Maximum Marks				
				L	T	P	Th	Pr	Theory		Practical		Total
									Th.	CW	SW	Pr.	
1	BSC	MA 10001	Mathematics - I	3	1	0	4	0	70	30	0	0	100
2	BSC	PH10016	Physics	2	1	-	3	-	70	30	-	-	100
3	ESC	EE10015	Fundamentals of Electrical Engineering	2	1	-	3	0	70	30	0	0	100
4	ESC	CE10013	Fundamentals of Civil Engineering & Applied Mechanics	2	1	-	3	0	70	30	0	0	100
5	ESC	ME10049	Engineering Graphics	2	-	-	2	-	70	30	-	-	100
6	BSC (LC)	PH10151	Applied Physics Lab	-	-	2	-	1	-	-	20	30	50
7	ESC (LC)	EE10152	Electrical Engineering Lab	-	-	2	-	1	-	-	20	30	50
8	ESC (LC)	ME10153	Engineering Drawing/AutoCAD Lab	-	-	4	-	2	-	-	40	60	100
9	HSMC	HU10191	Extra/Cocurricular Activity	-	-	2	-	1	-	-	50	0	50
10	MC		Induction program & Universal Human Values	2-3 weeks in the beginning of I Year & 1 hour per week during semester									
TOTAL				11	4	10	15	5	350	150	130	120	750

Semester - B

S. No.	Subject Category	Subject Code	Subject Name	Hours per Week			Credits		Maximum Marks				
				L	T	P	Th	Pr	Theory		Practical		Total
									Th.	CW	SW	Pr.	
1	BSC	MA 10501	Mathematics – II	3	1	-	4	-	70	30	0	0	100
2	BSC	CH10516	Chemistry	3	-	-	3	-	70	30	-	-	100
3	HSMC	HU10551	Technical English	2	-	-	2	-	70	30	0	0	100
4	ESC	CO10507	Programming for Problem Solving	2	1	-	3	-	70	30	0	0	100
5	ESC	EC10508	Basic Electronics Engineering	2	-	-	2	-	70	30	0	0	100
6	BSC (LC)	CH10652	Chemistry Lab	-	-	2	-	1	-	-	20	30	50
7	HSMC (LC)	HU10653	Language Lab	-	-	2	-	1	-	-	20	30	50
8	ESC (LC)	CO10654	Computer Programming Lab	-	-	2	-	1	-	-	20	30	50
9	ESC (LC)	IP10655	Manufacturing Practices	-	-	4	-	2	-	-	40	60	100
10	HSMC	HU10691	Extra/Cocurricular Activity	-	-	2	-	1	-	-	50	-	50
11	MC		Induction program & Universal Human Values	2-3 weeks in the beginning of I Year & 1 hour per week during semester									
TOTAL				12	2	12	14	6	350	150	150	150	800

Engineering Certificate shall be awarded after acquiring additional 10 credits out of which 6 credits as 2 Months industrial training within five years

II YEAR B.Tech. (Electronics and Telecommunication Engineering)

Scheme 2024-25

II YEAR Diploma in Electronics and Telecommunication Engineering

Semester - III

S. No.	Subject Category	Subject Code	Subject Name	Hours per Week			Credits		Maximum Marks				
				L	T	P	Th	Pr	Theory		Practical		Total
									Th.	CW	SW	Pr.	
1	BSC	MA25---	Mathematics - III	3	1	-	4	-	70	30	0	0	100
2	PCC	EC25---	Electronic Devices	3	-	-	3	-	70	30	0	0	100
3	PCC	EC25---	Signals and Systems	3	-	-	3	-	70	30	0	0	100
4	PCC	EE25---	Network Theory and Analysis	3	-	-	3	-	70	30	0	0	100
5	PCC	EC25---	Digital System Design	3	-	-	3	-	70	30	0	0	100
6	LC	EC25---	Electronic Devices Lab	-	-	2	-	1	-	-	20	30	50
7	LC	EE25---	Network Theory and Analysis Lab	-	-	2	-	1	-	-	20	30	50
8	LC	EC25---	Digital System Design lab	-	-	2	-	1	-	-	20	30	50
9	HSMC	HU25---	Economics for Engineers	2	-	-	2	-	70	30	0	0	100
10	MC		Environmental Science	2	-	-	2	-		50			50
TOTAL				19	1	6	20	3	420	230	60	90	800

Semester - IV

S. No.	Subject Category	Subject Code	Subject Name	Hours per Week			Credits		Maximum Marks				
				L	T	P	Th	Pr	Theory		Practical		Total
									Th.	CW	SW	Pr.	
1	BSC	MA25---	Mathematics - IV	3	1	-	4	-	70	30	0	0	100
2	PCC	EC25---	Analog Circuits	3	-	-	3	-	70	30	0	0	100
3	PCC	EC25---	Analog and Digital Communication	3	-	-	3	-	70	30	0	0	100
4	PCC	EC25---	Electromagnetic Waves	3	-	-	3	-	70	30	0	0	100
5	PCC	EC25---	Microprocessor and Microcontroller	3	-	-	3	-	70	30	0	0	100
6	ESC	EC25---	Electronics Workshop	-	-	2	-	1	-	-	20	30	50
7	LC	EC25---	Analog Circuits Lab	-	-	2	-	1	-	-	20	30	50
8	LC	EC25---	Analog and Digital Communication Lab	-	-	2	-	1	-	-	20	30	50
9	LC	EC25---	Microprocessor and Microcontroller Lab	-	-	2	-	1	-	-	20	30	50
10	HSMC	HU25---	Values, Humanities and Professional Ethics	-	2	-	2	-		100			100
11	MC		Constitution of India	2	-	-	-	-	-	50	-	-	50
TOTAL				17	3	8	18	4	350	300	80	120	850

Diploma in Electronics and Telecommunication Engineering shall be awarded after acquiring additional 10 credits out of which 6 credits as 3 Months industrial training within five years

SHRI G S INSTITUTE OF TECHNOLOGY & SCIENCE, INDORE

III B.Tech.(4YDC) ELECTRONICS & TELECOMMUNICATIONS ENGINEERING

SEMESTER - V

S.No.	Subject Category	Subject Code	Subject	Hours per Week			Th. Credit	Pr. Credit	Maximum Marks				
				L	T	P			Th.	CW	SW	Pr.	Total
1	PCC	EC35008	Microprocessors and Microcontrollers	3	-	2	3	1	70	30	40	60	200
2	PCC	EC35009	Antenna and Wave Propagation	3	-	2	3	1	70	30	40	60	200
3	PCC	EC35010	VLSI Design	3	-	2	3	1	70	30	40	60	200
4	PCC	EC35011	Data Communication	3	-	-	3	-	70	30	-	-	100
5	PEC-1		Program Elective - I	3	-	2	3	1	70	30	40	60	200
6		EC35481	Evaluation of Internship-1	-	-	-	-	2	-	-	100	-	100
7		HUM3501	Essence Of Indian Knowledge Tradition*	2	-	-	-	-	-	50	-	-	50
Total				17	0	8	15	6	350	200	260	240	1050

SEMESTER:VI

S.No.	Subject Category	Subject Code	Subject	Hours per Week			Th. Credit	Pr. Credit	Maximum Marks				
				L	T	P			Th.	CW	SW	Pr.	Total
1	PCC	EE35510	Control Systems	3	-	-	3	-	70	30	-	-	100
2	PCC	EC35511	Mobile Communication	3	-	-	3	-	70	30	-	-	100
3	PCC	EC35513	Computer Networks	3	-	2	3	1	70	30	40	60	200
4	PCC	EC35514	Applied Digital Signal Processing	3	-	2	3	1	70	30	40	60	200
5	PEC-2		Program Elective-II	3	-	2	3	1	70	30	40	60	200
6	ESC	EC35882	Electronics design & Simulation Workshop	-	-	2	-	1	-	-	40	60	100
Total				15	0	8	15	4	350	150	160	240	900

Internship 2 2-4 Weeks

SHRI G S INSTITUTE OF TECHNOLOGY & SCIENCE, INDORE
III B.Tech.(4YDC) ELECTRONICS & TELECOMMUNICATIONS ENGINEERING

Elective I			SEMESTER - V
S.No.	Subject Category	Subject Code	Subject
1	PEC-I	CO35251	Data Structure & Operating system
2	PEC-I	EC35252	Electronics Measurement

Elective II			SEMESTER - VI
S.No.	Subject Category	Subject Code	Subject
1	PEC-II	EC35661	Embedded Systems
2	PEC-II	IT35662	Intelligent systems

SHRI G S INSTITUTE OF TECHNOLOGY & SCIENCE, INDORE
IV B.Tech.(4YDC) ELECTRONICS & TELECOMMUNICATIONS ENGINEERING

SEMESTER - VII

S.No.	Subject Category	Subject Code	Subject	Hours per Week			Th. Credit	Pr. Credit	Maximum Marks				
				L	T	P			Th.	CW	SW	Pr.	Total
1	PCC	EC45009	Wireless and Mobile Networks	3	-	-	3	-	70	30	-	-	100
2	PEC-3		Program Elective-III	3	-	2	3	1	70	30	40	60	200
3	PEC-4		Program Elective-IV	3	-	-	3	-	70	30	-	-	100
4	OEC-1		Open Elective - I	3	-	-	3	-	70	30	-	-	100
5	HSMC	IP45010	Industrial Engineering & Management	3	-	-	3	-	70	30	-	-	100
6		EC45481	Evaluation of Internship-2	-	-	4	-	2	-	-	100	-	100
7		EC45498	Major Project Phase-I (AB group)	-	-	8	-	4	-	-	40	60	100
8		EC45998	Major Project Phase-II (BA group)	-	-	8	-	4	-	-	40	60	100
Total			For AB Group	15	0	14	15	7	350	150	180	120	800
			For BA Group	15	0	14	15	7	350	150	180	120	800

SEMESTER - VIII

S.No.	Subject Category	Subject Code	Subject	Hours per Week			Th. Credit	Pr. Credit	Maximum Marks				
				L	T	P			Th.	CW	SW	Pr.	Total
1	PEC-5		Program Elective-V	3	-	-	3	-	70	30	-	-	100
2	OEC-2		Open Elective - II	3	-	-	3	-	70	30	-	-	100
3		EC45882	Evaluation of Internship-3	-	2	4	-	4	-	-	100	-	100
4	PROJ	EC45998	Major Project Phase-II (AB group)	-	-	8	-	4	-	-	40	60	100
5	PROJ	EC45498	Major Project Phase-I (BA group)	-	-	8	-	4	-	-	40	60	100
Total			For AB Group	6	2	12	6	8	140	60	140	60	400
			For BA Group	6	2	12	6	8	140	60	140	60	400

SHRI G S INSTITUTE OF TECHNOLOGY & SCIENCE, INDORE
IV B.Tech.(4YDC) ELECTRONICS & TELECOMMUNICATIONS ENGINEERING

List of Electives

Program Elective-III			SEMESTER VII
S.No.	Subject Category	Subject Code	Subject
1		EC45207	Microwave Devices and Circuits
2		EC45208	Optical Communication
3		EC	Advanced Antenna Design

Program Elective-IV			SEMESTER VII
S.No.	Subject Category	Subject Code	Subject
1		CO45251	Data Science
2		EI45252	VLSI Technology
3			Moocs/Swayam Online Courses

Open Elective - I			SEMESTER VII
S.No.	Subject Category	Subject Code	Subject
1		EC45301	Internet of Things
2		EC45302	Advanced Digital Signal Processing
3		BM45303	Digital Image Processing
4			Moocs/Swayam Online Courses

SHRI G S INSTITUTE OF TECHNOLOGY & SCIENCE, INDORE
IV B.Tech.(4YDC) ELECTRONICS & TELECOMMUNICATIONS ENGINEERING

List of Electives

Program Elective-V			SEMESTER VIII
S.No.	Subject Category	Subject Code	Subject
1		EE	Industrial and Power Electronics
2		EC45602	Optical Networks
3		EC	Information Theory & Coding
4			Moocs/Swayam Online Courses*

Open Elective - II			SEMESTER VIII
S.No.	Subject Category	Subject Code	Subject
1		EC45759	Satellite and Radar Communication
2		EC	Game Theory in Wireless Communication
3		EC45760	Introduction to Cryptography
4			Moocs/Swayam Online Courses*