

SHRI G S INSTITUTE OF TECHNOLOGY & SCIENCE, INDORE
I M.TECH. MICROELECTRONICS & VLSI DESIGN

SEMESTER - I

S. No.	Sub. Code	Subject	Hours per Week			Th. Credit	Pr. Credit	Maximum Marks				
			L	T	P			TH	CW	SW	Pr.	Total
1	EI69002	Design of Integrated Circuits	4	-	-	4	-	70	30	-	-	100
2	EI69003	Microelectronics	4	-	-	4	-	70	30	-	-	100
3	EI69004	VLSI Technology	4	-	-	4	-	70	30	-	-	100
4	EI69005	Semiconductor Device and Process Modeling	4	-	-	4	-	70	30	-	-	100
5	Elective I		4	-	-	4	-	70	30	-	-	100
6	EI69451	Lab.- I : CAD Tool Design 1	-	-	4	-	2	-	-	40	60	100
7	EI69452	Lab.- II : CAD Tool Design 2	-	-	4	-	2	-	-	40	60	100
8	EI69500	Comprehensive Viva	-	-	-	-	-	-	-	-	Grade	Grade
Total			20	0	8	20	4	350	150	80	120	700

SEMESTER - II

S. No.	Sub. Code	Subject	Hours per Week			Th. Credit	Pr. Credit	Maximum Marks				
			L	T	P			TH	CW	SW	Pr.	Total
1	EI69501	Communication RF IC Design	4	-	-	4	-	70	30	-	-	100
2	EI69502	Mixed Signal Circuit Design	4	-	-	4	-	70	30	-	-	100
3	EI69503	VLSI Test and Testability	4	-	-	4	-	70	30	-	-	100
4	EE69505	Digital Signal Processing	4	-	-	4	-	70	30	-	-	100
5	Elective II		4	-	-	4	-	70	30	-	-	100
6	EI69851	Lab.- III : VLSI Design Lab.1	-	-	4	-	4	-	-	40	60	100
7	EI69852	Lab.- IV : VLSI Design Lab.2	-	-	4	-	4	-	-	40	60	100
8	EI69881	Seminar	-	-	2	-	2	-	-	100	-	100
9	EI69900	Comprehensive Viva	-	-	-	-	-	-	-	-	Grade	Grade
Total			20	0	10	20	10	350	150	180	120	800

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List of Electives

Elective I		Semester I
S.No	Sub. Code	Subject
1	EI69201	Application Specific Integrated Circuits
2	EI69202	High Power Semiconductor Devices
3	EI69203	System Hardware Design
4	EI69204	Hardware Description Language

Elective II		Semester II
S.No	Sub. Code	Subject
1	EI69701	Image Processing
2	EI69702	Microwave Integrated Circuits
3	EI69703	Optoelectronic Integrated Circuits
4	EI69704	Low Power VLSI Design

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SEMESTER - III

S. No.	Sub. Code	Subject	Hours per Week			Th. Credit	Pr. Credit	Maximum Marks				
			L	T	P			TH	CW	SW	Pr.	Total
1	EI69901	Dissertation Phase-I	-	-	20	-	20	-	-	100	150	250
Total			0	0	20	0	20	0	0	100	150	250

SEMESTER - IV

(Admitted before 2012)

S. No.	Sub. Code	Subject	Hours per Week			Th. Credit	Pr. Credit	Maximum Marks				
			L	T	P			TH	CW	SW	Pr.	Total
1	EI 6996	Dissertation Phase-II	-	-	22	-	22	-	-	160	240	400
Total			0	0	22	0	22	0	0	160	240	400

(Admitted in 2012-2016)

S. No.	Sub. Code	Subject	Hours per Week			Th. Credit	Pr. Credit	Maximum Marks				
			L	T	P			TH	CW	SW	Pr.	Total
1	EI 6994	Dissertation Phase-II	-	-	30	-	30	-	-	160	240	400
Total			0	0	30	0	30	0	0	160	240	400

(Admitted in and after 2017)

S. No.	Sub. Code	Subject	Hours per Week			Th. Credit	Pr. Credit	Maximum Marks				
			L	T	P			TH	CW	SW	Pr.	Total
1	EI69951	Dissertation Phase-II	-	-	30	-	30	-	-	160	240	400
Total			0	0	30	0	30	0	0	160	240	400