

SCHEME OF TEACHING AND EXAMINATION
M.TECH. - DIGITAL ELECTRONICS

I SEMESTER

Course Code	Subject Code	Name of the Subject	Teaching hours/week		Duration of Exam in Hours	Marks for		Total Marks
			Lecture	Practical / Field Work / Assignment		I.A.	Exam	
08LDE11	08EC029	Digital Circuits & Logic Design	4	2	3	50	100	150
08LDE12	08EC046	Linear Algebra	4	2	3	50	100	150
08LDE13	08EC021	CMOS VLSI Design	4	2	3	50	100	150
08LDE14	08EC076	Statistical Signal Processing	4	2	3	50	100	150
08LDE15	08ECxxx	Elective-I	4	2	3	50	100	150
08LDE16		Seminar	--	3	--	50	--	50
Total			20	13	15	300	500	800

ELECTIVE – I

08LDE151	08EC059	Optical Communication & Networking	08LDE153	08EC024	Design & Modeling of MEMS & Micro Systems
08LDE152	08EC075	Speech & Audio Processing			

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II SEMESTER

Course Code	Subject Code	Name of the Subject	Teaching hours/week		Duration of Exam in Hours	Marks for		Total Marks
			Lecture	Practical / Field Work / Assignment		I.A.	Exam	
08LDE11	08EC053	Multi-rate Systems & Filter Banks	4	2	3	50	100	150
08LDE12	08EC037	Embedded System Design	4	2	3	50	100	150
08LDE13	08EC009	Advances in VLSI Design	4	2	3	50	100	150
08LDE14	08EC077	Synthesis & Optimization of Digital Circuits	4	2	3	50	100	150
08LDE15	08ECxxx	Elective-II	4	2	3	50	100	150
		*Project Phase-I (6 week Duration)						
08LDE16		Seminar	--	3	--	50	--	50
Total			20	13	15	300	500	800

ELECTIVE – II

08LDE251	08EC030	Digital Signal Compression	08LDE253	08EC010	Algorithms for VLSI Design Automation
08LDE252	08EC085	Wireless & ATM Networks			

* Between the II Semester and III Semester. After availing a vocation of 2 weeks.

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III SEMESTER

Course Code	Subject Code	Subject	No. of Hrs./Week		Duration of Exam in Hours	Marks for		Total Marks
			Lecture	Practical / Field Work		I.A.	Exam	
08LDE11	08EC003	Advanced Computer Architecture	4	2	3	50	100	150
08LDE12	08ECxxx	Elective-III	4	2	3	50	100	150
08LDE13	08ECxxx	Elective-IV	4	2	3	50	100	150
		Project Phase-II		*				
08LDE14		Evaluation of Project Phase – I	--	3	--	50	--	50
Total			12	09	09	200	300	500

ELECTIVE – III

08LDE311	08EC043	Image & Video Processing
08LDE312	08EC070	Real Time Embedded Systems
08LDE313	08EC071	RF & Microwave Circuit Design

* 3 Days Course work and 3 days for Project work

ELECTIVE – IV

08LDE321	08EC052	Multimedia Communication
08LDE322	08EC056	Network Programming
08LDE323	08EC032	Digital System Design Using VHDL

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IV SEMESTER

Course Code	Subject Code	Subject	No. of Hrs./Week		Duration of the Exam in Hours	Marks for		Total Marks
			Lecture	Practical / Field Work		I.A.	Exam	
08LDE41		Evaluation of Project Phase – II	-	3	-	50	-	50
08LDE42		Evaluation of Project work	-	3	-	50	-	50
08LDE42		Project Work Evaluation & Viva-Voce	-	-	3	--	200	200
Total			-	06	03	100	200	300
Grand Total (I to IV Sem.) : 2400								

Note: Project work shall be continuously evaluated for phase I, phase II and after completion of the project.

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