

SCHEME OF TEACHING AND EXAMINATION
M.TECH. - COMPUTER SCIENCE & ENGINEERING

I SEMESTER

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	
08SCS11	Operating Systems	4	2	3	50	100	150
08SCS12	Data Structures & Algorithms	4	2	3	50	100	150
08SCS13	Database Management Systems	4	2	3	50	100	150
08SCS14	Computer Systems Performance Analysis	4	2	3	50	100	150
08SCS15x	Elective – I	4	2	3	50	100	150
08SCS16	Seminar	--	3	3	50	--	50
Total		20	13	15	300	500	800

ELECTIVE – I	
08SCS151	Theoretical Foundations of Computer Science
08SCS152	Computer Graphics & Visualization
08SCS153	Digital Image Processing

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II SEMESTER

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	
08SCS21	Computer Architecture	4	2	3	50	100	150
08SCS22	Software Engineering	4	2	3	50	100	150
08SCS23	Computer Networks	4	2	3	50	100	150
08SCS24	Embedded Computing Systems	4	2	3	50	100	150
08SCS25x	Elective – II	4	2	3	50	100	150
08SCS26	Project Phase – I	--	--	--	--	--	--
08SCS27	Seminar	--	3	3	50	--	50
Total		20	13	15	300	500	800

ELECTIVE – II	
08SCS251	OOAD & Design Patterns
08SCS252	Artificial Intelligence
08SCS253	Digital Signal Processing

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III SEMESTER

Subject Code	Subject	No. of Hrs./Week		Duration of Exam in Hours	Marks for		Total Marks
		Lecture	Practical / Field Work		I.A.	Exam	
08SCS31	Information & Network Security	4	2	3	50	100	150
08SCS32x	Elective III	4	2	3	50	100	150
08SCS33x	Elective IV	4	2	3	50	100	150
08SCS34	Project Work – Phase II	--	*	--	--	--	--
08SCS35	Evaluation I of Project Phase - I	--	3	--	50	--	50
Total		12	09	09	200	300	500

ELECTIVE – III		ELECTIVE – IV	
08SCS321	Storage Area Networks	08SCS331	Mobile Computing
08SCS322	Pattern Classification	08SCS332	Compiler Design
08SCS323	Topics in Algorithms	08SCS333	Distributed Systems

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IV SEMESTER

Course Code	Subject	No. of Hrs./Week		Duration of the Exam in Hours	Marks for		Total Marks
		Lecture	Practical / Field Work		I.A.	Exam	
08SCS41	Evaluation of Project Phase – II	--	3	--	50	--	50
08SCS42	Evaluation of Project Phase - III	--	3	--	50	--	50
05SCS42	Project Work VIVA VOCE	--	6	03	--	100+100	200
Total		--	12	03	100	200	300
Grand Total (I to IV Semesters) : 2400							

Note:

- The hours/week shown in the column of Practical/Field work are the contact hours for students, no load to be shown to the teachers. The teachers should provide guidance.
- Project Work – Phase - I: 6 weeks of compulsory work to be undertaken by the students after availing 2 weeks of vacation at the end of II semester examinations. An extensive report on this work is to be submitted by the students and further a seminar on this work must be presented during Semester III. This is to be evaluated for 50 Marks by the **department committee** constituted for the purpose. This is to be included in the Marks Card of III semester.
- Project Work Phase – II: This is carried out for 3 days per week during Semester III (Effective Total Time: 5 Weeks). A report on this work must be submitted and a Seminar on the same must be presented during Semester IV. This is to be evaluated for 50 marks by the department committee constituted for the purpose and is to be included in the Marks Card of Semester IV.
- Project Work Phase – III: This is carried out during Semester IV. A Seminar on this work must be presented at the end of Semester IV. This is to be evaluated for 50 marks by the **department committee** constituted for the purpose and is to be included in the Marks Card of Semester IV.
- During the final viva, students have to submit all the reports.
- The Project Valuation and Vive-Voice will be conducted by a committee consisting of the following:**
 - Head of the Department (Chairman)
 - Guide
 - Two Examiners appointed by the University. (Out of two external examiners at least one should be present)

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