

Course Scheme for M.Tech.in Information Technology

M.Tech Sem-I.

Code	Course Title	Hours per week			Credits
		L	T	P	
	Program Core I- Advanced Engineering Mathematics	3	0	0	3
	Program Core II- Advanced Data Structures	3	0	0	3
	Program Elective I- Advanced Web Technology/ Data Science/Mobile Computing/ Computational Complexity	3	0	0	3
	Program Elective II- Information Security/Internet of Things/ Artificial Intelligence/Social Network Analysis	3	0	0	3
	Research Methodology and IPR	2	0	0	2
	Audit Course	2	0	0	0
	Laboratory 1 (Advanced Data Structures)	0	0	4	2
	Laboratory 2 (Based on Elective 1)	0	0	4	2
	Laboratory 3 (Based on Elective II)	0	0	4	2
Total Credits: 20					

M.Tech Sem- II

Code	Course Title	Hours per week			Credits
		L	T	P	
2CS05	Program Core III – Advanced Algorithms	3	0	0	3
2CS06	Program Core IV – Advanced Operating System	3	0	0	3
2CSxx	Program Elective III – Cloud Computing/ Image Processing/ Soft Computing/Data Mining and Data Warehousing/ Computational Number Theory	3	0	0	3
2CSxx	Program Elective IV– Distributed Systems / Big Data Analytics / Cybersecurity and Cyberlaw/ Information Theory and Coding	3	0	0	3
2Axxx	Audit Course	2	0	0	0
2CS07	Laboratory 3 (Advanced Operating System)	0	0	4	2
2CS08	Laboratory 4 (Based on Elective III)	0	0	4	2

2CS09	Mini Project with Seminar	2	0	0	2
Total Credits: 18					

***Students be encouraged to go to Industrial Training/Internship for at least 2-3 months during semester break.**

M.TechIII Sem*

Code	Course Title	Hours per week			Credits
		L	T	P	
3CSxx	Program Elective V – Bio-informatics/ Remote Sensing & GIS/ Distributed Databases	3	0	0	03
3CSxx	Open Elective 1. Business Analytics 2. Project Management & Entrepreneurship 3. Industrial Safety 4. Operations Research 5. Cost Management of Engineering Projects 6. Composite Materials 7. Waste to Energy	3	0	0	03
3CS10	Dissertation-I /Industrial Project	0	0	20	10
Total Credits: 16					

***Students going for Industrial Project/Thesis will complete these courses through MOOCs.**

M.TechSem-IV

	Course Title	Hours per week			Credits
		L	T	P	
	Dissertation II	0	0	32	16
Total Credits: 16					

The program offers several elective courses, focusing on different aspects of Data Science. A student can choose to do any course from given program elective set.