

Course Structure of M.Tech(IT)

**Department of Computer Sciences &
Engineering**

School of Engineering

Tezpur University

Course Structure

Time Duration:

Minimum duration: 2 years (4 semesters)
Maximum duration: 4 years (8 semesters)

Credit Requirements :

Minimum Credit requirement : 64
Core Courses : 43
Electives : 15
Open Electives : 06

COURSE STRUCTURE (Existing)

Course Code	Title	Credit Structure			Total Credit
		L	T	P	
1st Semester					
CS 531	Object Oriented Programming & Design	3	1	1	5
IT 611	Distributed Systems	3	0	0	3
CS 634	Selected Topics in Computer Networks	3	0	1	4
	Elective 1				3
	Open Elective 1				3
2nd Semester					
CS 601	Design Analysis of Algorithms	3	0	0	3
IT 610	Advanced Database System	3	0	1	4
	Elective 2				3
	Elective 3				3
	Open Elective 2				3
3rd Semester					
IT 604	Term Project I	0	0	8	8
	Elective 4				3
	Elective 5				3
4th Semester					
IT 605	Term Project II	0	0	0	16

Elective Courses

Course Code	Title	Credit Structure	Total Credit
CS 509	Data Communication	3-0-1	4
CS 505	Software Engineering	3-0-1	4
CS 525	Artificial Intelligence	3-0-0	3
CS 424	Formal Language and Automata	3-0-0	3
IT 518	Graph Theory	3-0-0	3
CS 529	Embedded Systems	3-0-1	4
CS 621	Mobile Computing	4-0-0	4
CS 625	Web Technology	3-0-1	4

IT 517	Pattern Recognition	4-0-0	4
IT 509	Data Mining & Data Warehousing	3-0-1	4
IT 507	Computer Security & Cryptography	3-0-0	3
CS 606	Computer Architecture and Parallel Processing	3-0-0	3
CO 504	Natural Language Processing	3-0-0	3
CS 610	Bioinformatics	3-0-0	3
CS 725	Knowledge Representation and Reasoning	4-0-0	4
CS 731	Data Mining in Security	3-0-1	4
CS 533	Computational Geometry	3-0-0	3
IT 523	Discrete Mathematics	3-0-0	3
CS 522	Computer Graphics	3-0-2	4
CS 523	Enterprise Resource Planning	3-0-0	3
CS 524	Theory of Computation	3-0-0	3
CS 502	System Software	2-0-2	3
CS 507	Computer Networks	3-0-1	4
CS 508	Database Management Systems	2-1-2	5
IT 503	Multimedia Systems	3-0-2	4
IT 504	E-Commerce	3-0-0	3
IT 506	Logic Programming	3-0-0	3
IT 510	Advanced Operating Systems	3-0-1	4
CS 532	Compiler Design	3-0-1	4
CS 602	Image Processing	3-0-0	3
CS 607	Optimization Technique	3-0-0	3