

**Proposed Structure of M.Tech Information Technology
CBCS Pattern (2015-16)**

STRUCTURE & EXAMINATION PATTERN

MTech Information Technology

Semester I Total Duration : 20 Hrs/Week Total Marks : 500 Total Credits : 18											
Subjects	Teaching Scheme (Hrs)		Examination Scheme (Marks)						Examination Scheme (Credits)		Total Credits
	L	P	Theory	Unit Test	Attendance	Tutorial/Assignments	TW	Pract / Oral	TH	TW/PR/OR	
Software Architecture	04	02	60	20	10	10	25	25	04	01	05
Machine Learning	04	02	60	20	10	10	25	25	04	01	05
Mobile Networks & Communication	04	--	60	20	10	10	--	--	04	--	04
Parallel Programming & Algorithms	04	--	60	20	10	10	--	--	04	--	04
Total	16	04	240	80	40	40	50	50	16	02	18

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MTech - Information Technology

Semester II										Total Duration : 20 Hrs/Week	
										Total Marks : 500	
										Total Credits : 18	
Subjects	Teaching Scheme (Hrs) Hrs./Week		Examination Scheme (Marks)						Examination Scheme (Credits)		Total Credits
	L	P	Theory	Unit Test	Attendance	Tutorial/ assignments	T W	Pract/ Oral	TH	TW/ PR/ OR	
Research Foundation	04	--	60	20	10	10	--	--	04	--	04
Information Retrieval	04	02	60	20	10	10	25	25	04	01	05
Real Time Systems	04	--	60	20	10	10	--	--	04	--	04
Information Security	04	02	60	20	10	10	25	25	04	01	05
Total	16	04	240	80	40	40	50	50	16	02	18

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MTech - Information Technology

Semester III			Total Duration : 28 Hrs/Week Total Marks : 475 Total Credits : 40								
Subject	Teaching Scheme (Hrs) Hrs./Week		Examination Scheme						Examination Scheme (Credits)		Total Credits
	L	P	Theory	Unit Test	Attendance	Tutorial/assignments	TW	Pract/Oral	TH	TW/PR/OR	
Elective –I	04	02	60	20	10	10	25	25	04	01	05
Elective –II	04	02	60	20	10	10	25	25	04	01	05
Self-Study Paper-I	04	--	60	20	10	10	-	-	04	-	04
Dissertation Stage –I	-	07	-	-	---	--	25	--		21	21
Seminar	-	05	-	-	--	--	25	25	-	05	05
Total	12	16	180	60	30	30	100	75	12	28	40

Elective – I	Elective - II
- Natural Language Processing & Understanding - Computer Forensics & Cyber Laws - Advanced MIS - Wireless Networks - Data Warehousing & E-Commerce	- Bio-informatics - Advanced Computer Architecture - Usability Engineering - Advanced Database Management - Advanced Operating System

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MTech Information Tecnology

Semester IV Total Duration : 14 Hrs/Week Total Marks : 325 Total Credits : 34											
Subject	Teaching Scheme (Hrs)		Examination Scheme						Examination Scheme (Credits)		Total Credits
	L	P	Theory	Unit Test	Attendance	Tutorial/ assignments	TW	Pract/ Oral	TH	TW/P R/OR	
Self-Study Paper-II	04	--	60	20	10	10	-	-	04	-	04
Dissertation Stage –II	-	10	-	-	--	-	150	75		30	30
Total	04	10	60	20	10	10	150	75	04	30	34

List Of Self Study Subjects

Sr. No.	Self Study Paper I Sem-III	Self Study Paper II Sem-IV
1	Real Time & Fault Tolerant System	Information Storage and Management
2	Ad-hoc Network	Organizational Behavior
3	Computer Oriented Numerical & Statistical Methods	Computer Vision and Digital Image Processing
4	Semantic Networks	Artificial Intelligence & Applications
5	Embedded System and Applications	Design and Analysis of Algorithms
6	Distributed Computing	Compiler Design
7	Information Theory Coding and Cryptography	Computer Oriented Optimization Techniques
8	Soft Computing	Information Security System