

Proposed Revised M.Tech (CSE with specialisation in DA) Programme Structure May, 2017

FIRST SEMESTER

SNo	Course		Contact Hours				Credits
	No.	Title	L	T	P	Total	
1.	17M21CS111	Cloud based Big Data Systems-I	3	-	-	03	3
2.	17M11CS112	Machine Learning and Data Mining	3	-	-	03	3
3.		Elective – I	3	-	-	03	3
4.		Elective – II	3	-	-	03	3
5.		Elective – III	3	-	-	03	3
6.	17M27CS111	Project Based Learning-I (Open Data Centric Services Development)		-	4	04	2
7.	17M25CS111	Cloud based Big Data Systems Lab-I	-	-	2	02	1
8.	17M15CS112	Machine Learning and Data Mining Lab			2	02	1
9.	17M25CS113	Data Science Programming Lab-I			2	02	1
		TOTAL	15	-	10	25	20

Elective Courses (To be updated time to time)

1.	17M22CS111	Knowledge Representation and Reasoning
2.	17M22CS112	Distributed Artificial Intelligence
3.	17M22CS113	Soft-computing and Applications
4.	17M22CS114	Information Retrieval
5.	17M22CS115	Large Scale Graph Algorithms and Analytics
6.	17M22CS116	Information Integration and Visualization
7.	17M22CS117	Multimedia Information Systems
8.	17M22CS118	Computer Forensics
9.	17M22CS119	Computer Vision
10.	15M3NCI231	E-Commerce and Social Web
11.	14M1NCI334	Web Algorithms
12.	17MINCI131 / 17M12CS124	Flexible Computer Networks
13.	17M12CS127	Distributed Systems
14.	17M31CS111	Design, Innovation, and Incubation-I
15.	17MINCI334	Parallel and Distributed Databases
16.	17M11CS111	Data Structures and Algorithms for Big Data
17.	17M31CS111	Design, Innovation, and Incubation-I
18.	17M11CS121	Cloud and Web Services Software Engineering

19.	17M11CS122	Performance Evaluation of Computing Systems
20.	17M31CS112	Digital Business Marketing
21.	17M31CS122	Finance and Law for Digital Business
22.	17M41CS111	Advanced data structures and algorithms
23.	17M41CS112	Computer and Information Security
24.	17M41CS121	Cryptography and cryptanalysis
25.	17M41CS122	Network and mobile security
26.	15M51C111/ 17M51CS111	Advanced Mobile Computing
27.	17M51CS121	Mobile Systems and Architecture
28.	17M51CS122	Heterogeneous and Mobile Databases

SECOND SEMESTER

SNo	Course		Contact Hours				Credits
	No.	Title	L	T	P	Total	
1.	17M21CS121	Cloud based Big Data Systems-II	3	-	-	03	3
2.	17M21CS122	Empirical Research and Performance Evaluation	3	-	-	03	3
3.		Elective – IV	3	-	-	03	3
4.		Elective – V	3	-	-	03	3
5		Elective – VI	3	-	-	03	3
6.	17M27CS121	Project Based Learning-II (Open Data Centric Services Development contd.)		-	4	04	2
7.	17M25CS121	Cloud based Big Data Systems Lab-II	-	-	2	02	1
8.	17M25CS122	Advanced Machine Learning Lab			2	02	1
9.	17M25CS123	Data Science Programming Lab-II			2	02	1
		TOTAL	15	-	10	25	20

Elective Courses (To be updated time to time)

1	17M22CS121	Advanced Storage Systems
2	17M22CS122	Advanced Machine Learning
3	17M22CS123	Natural Language Processing and Understanding
4	17M22CS124	Machine Translation
5	17M22CS125	Interactive Data Analysis
6	17M22CS126	Web Algorithms and Analytics
7	17M22CS127	Bio-informatic Analytics

THIRD SEMESTER

SNo	Course		Contact Hours				Credits
	No.	Title	L	T	P	Total	
1.	17M27CS212	Seminar & Term Paper/ Supervised Study or credits transfer from another university through normal course or MOOC					4
2.	17M27CS211	Project Based Learning-III (Open Initiative Centric Systems Development)					4
3.	17M27CS213/ 17M27CS214/ 17M27CS215	Dissertation /Industrial Project/Entrepreneurial Project					4
		TOTAL					12

FOURTH SEMESTER

SNo	Course		Contact Hours				Credits
	No.	Title	L	T	P	Total	
1.	17M27CS223/ 17M27CS224/ 17M27CS225	Dissertation /Industrial Project/ Entrepreneurial Project					18
		TOTAL					18

TOTAL CREDITS : 70

2-3 Elective by Maths/JBS/HSS are necessary for every student