

M.Tech (CSE with specialisation in DA) Programme w.e.f. 2018-19 Batch**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.	18M11GE111	Research Methodology and Intellectual Property Rights	2	-	-	02	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	17	-	6	23	20

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.		Audit-I	2	-	-	02	Qualifying
6.	17M27CS111	Project Based Learning-I (Open Data Centric Services Development)		-	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	24	17

THIRD SEMESTER

S N o	Course		Contact Hours				Credits
	No.	Title	L	T	P	Total	
		Open Elective	3			3	3
1.	17M27CS212	Seminar & Term Paper OR Earn credits by transfer, e.g., MOOCs, Course Work at another Institute, Supervised Study				4	4
2.	17M27CS121	Project Based Learning-II (Open Initiative Centric Systems Development)				8	4
3.	17M27CS213/ 17M27CS214/ 17M27CS215	Dissertation /Industrial Project/Entrepreneurial Project				8	4
		Audit-II	2			2	Qualifying
		TOTAL				25	15

FOURTH SEMESTER

SNo	Course		Contact Hours				Credits
	No.	Title	L	T	P	Total	
1.	17M27CS223/ 17M27CS224/ 17M27CS225	Dissertation /Industrial Project/ Entrepreneurial Project				32	16
		TOTAL				32	16

TOTAL CREDITS: 68

1-2 Elective by Maths/JBS/HSS are necessary for every student

MTech (CSE-DA) Electives

1. 17M22CS121 Advanced Storage Systems
2. 17M22CS111 Knowledge Representation and Reasoning
3. 17M22CS112 Distributed Artificial Intelligence
4. 17M22CS113 Soft-computing and Applications
5. 17M22CS114 Information Retrieval
6. 17M22CS122 Advanced Machine Learning
7. 17M22CS115 Large Scale Graph Algorithms and Analytics
8. 17M22CS116 Information Integration and Visualization
9. 17M22CS117 Multimedia Information Systems
10. 17M22CS118 Computer Forensics
11. 17M22CS123 Natural Language Processing and Understanding
12. 17M22CS119 Computer Vision
13. 17M22CS124 Machine Translation
14. 17M22CS125 Interactive Data Analysis
15. 17M22CS126 Web Algorithms and Analytics
16. 17M22CS127 Bio-informatic Analytics

Maths Courses:

1. Linear Statistical Models
2. Multivariate Analysis
3. Time Series Analysis
4. Operation Research

JBS/HSS Courses:

1. Econometrics
2. Financial Analytics
3. Leadership and Strategy Management
4. Digital Business Marketing-II
5. Human Resource Management and Analytics
6. Supply Chain and Logistics Management
7. Customer Relation Management and Analytics
8. Game Theory and Business Intelligence
9. Ethics and Law in Social Data Analytics