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.	XXXX	Elective – I	3	-	-	03	3
4.	XXXX	Elective – II	3	-	-	03	3
5.	XXXX	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.	21M21CS123	Essential Statistics for Data Science	3	-	-	03	3
3.	XXXX	Elective – IV	3	-	-	03	3
4.	XXXX	Elective – V	3	-	-	03	3
5	XXXX	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

SNo	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

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. 15M3NCI231   E-Commerce and Social Web
2. 19M12CS111   Web Intelligence
3. 19M12CS112   Metaheuristic Modelling & Optimization
4. 17M22CS113   Soft Computing & Applications
5. 14M1NCI339   Wireless Sensor and Actuator Networks
6. 19M12CS113   Advanced Wireless Networks
7. 18M12CS117   Blockchain Technology and Applications
8. 17M12CS115   3D Graphics and Animations
9. 18M12CS115   Internet of Things
10. 19M12CS211   Nature Inspired Computing and Applications
11. 14 M1NCI231   Cryptography and Computer Security
12. 17M22CS115   Large Scale Graph Algorithms & 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