

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

FIRST SEMESTER

SNo	Course		Contact Hours				Credits
	No.	Title	L	T	P	Total	
1.	17M31CS111	Design, Innovation, and Incubation-I	3	-	-	03	3
2.	17M31CS112	Digital Business Marketing	3	-	-	03	3
3.		Elective – I	3	-	-	03	3
4.		Elective – II	3	-	-	03	3
5.		Elective – III	3	-	-	03	3
6.	17M37CS111	Project Based Learning-I (Small Enterprise Automation)		-	4	04	2
7.	17M35CS111	Cloud based Web and Mobile Application Lab -I	-	-	4	04	2
8.	17M25CS113	Data Science Programming Lab-I			2	02	1
		TOTAL	15	-	10	25	20

Elective Courses (To be updated time to time)

I SEM ODD 2017

1.	17M32CS111	Full Stack Web Development
2.	17M32CS112	Embedded and IOT Systems
3.	17M32CS113	Game Design and Development
4.	17M32CS114	Augmented and Virtual Reality
5.	17M32CS115	E-Governance
6.	17M32CS116	E-Commerce Systems and Analytics
7.	17M32CS117	Learning Technology
8.	17M32CS118	ICT for Development
9.	17M32CS119	Medical and Healthcare Informatics
10.	17M32CS121	Legal Informatics
11.	17M32CS122	Digital Museum and Exploratorium
12.	17M32CS123	Logistics and Transportation Informatics
13.	17M32CS124	Agricultural Informatics
14.	17M32CS125	Environmental Informatics
15.	17M21CS111	Cloud based Big Data Systems-I
16.	17M11CS111	Data Structures and Algorithms for Big Data
17.		Pattern recognition and Machine Learning
18.		Advanced Programming and Software

		Construction
19.		E-Commerce and Social Web
20.	14M1NCI331	Mobile and pervasive Computing
21.	14M1NCI334	Web Algorithm
22.	17M11CS121	Cloud and Web Services Software Engineering
23.	17M11CS112	Machine Learning and Data Mining
24.	17M11CS122	Performance Evaluation of Computing Systems
25.	17M21CS122	Empirical Research and Performance Evaluation
26.	17M41CS111	Advanced data structures and algorithms
27.	17M41CS112	Computer and Information Security
28.	14M22CI221/ 17M41CS121	Cryptography and cryptanalysis
29.	17M41CS122	Network and mobile security
30.	17M51CS111	Advanced Mobile Computing
31.	17M51CS121	Mobile Systems and Architecture
32.	17M51CS122	Heterogeneous and Mobile Databases

SECOND SEMESTER

SNo	Course		Contact Hours				Credits
	No.	Title	L	T	P	Total	
1.	17M31CS121	Design, Innovation, and Incubation-II	3	-	-	03	3
2.	17M31CS122	Finance and Law for Digital Business	3	-	-	03	3
3.		Elective – IV	3	-	-	03	3
4.		Elective – V	3	-	-	03	3
5		Elective – VI	3	-	-	03	3
6.	17M37CS121	Project Based Learning-II (Small Enterprise Automation contd.)		-	4	04	2
7.	17M35CS121	Cloud based Web and Mobile Application Lab -II	-	-	2	02	1
8.	17M25CS123	Data Science Programming Lab-II			2	02	1
9.	17M15CS123	IOT Systems Development Lab			2	02	1
		TOTAL	15	-	10	25	20

Elective Courses (To be updated time to time)

1	17M32CS131	Full Stack Mobile Development
2	17M32CS132	Enterprise Computing
3	17M32CS133	Advanced IOT Systems
4	17M32CS134	Retail Informatics
5	17M32CS135	Educational Informatics
6	17M32CS136	Cultural Informatics
7	17M32CS137	Urban Informatics
8	17M32CS138	Water Informatics
9	17M32CS139	Weather Informatics

THIRD SEMESTER

SNo	Course		Contact Hours				Credits
	No.	Title	L	T	P	Total	
1.	17M37CS212	Seminar & Term Paper/ Supervised Study or credits transfer from another university through normal course or MOOC					4
2.	17M37CS211	Project Based Learning-III (Open Initiative Centric Systems Development)					4
3.	17M37CS213/ 17M37CS214/ 17M37CS215	Dissertation /Industrial Project/Entrepreneurial Project					4
TOTAL							12

FOURTH SEMESTER

SNo	Course		Contact Hours				Credits
	No.	Title	L	T	P	Total	
1.	17M37CS223/ 17M37CS224/ 17M37CS225	Dissertation /Industrial Project/ Entrepreneurial Project					18
TOTAL							18

TOTAL CREDITS: 70**1-2 Electives by JBS/HSS are necessary for every student**