

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

SCHOOL OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING										
COURSE STRUCTURE BATCH 2020										
Programme -M. Tech in Computer Science and Engineering										
I SEMESTER										
Sl. No	Course Code	Course Name	Hours			Total Marks	Credits			Total Credits
			L	T	P		L	T	P	
THEORY										
1	MTCS131	Research Methodology and IPR	3	0	0	100	3	0	0	3
2	MTCS133	Advanced Algorithms	3	0	0	100	3	0	0	3
3	MTCS135	Advanced Digital Image Processing	3	0	0	100	3	0	0	3
4	MTCS141	Elective - I	3	0	0	100	3	0	0	3
5	MTCS142	Elective - II	3	0	0	100	3	0	0	3
6	HE171	Holistic Education-I	1	0	0	-	1	0	0	1
PRACTICAL										
7	MTCS151	Advanced Algorithms Lab	0	0	4	50	0	0	2	2
8	MTCS152	Advanced Digital Image Processing Lab	0	0	4	50	0	0	2	2
9	MTCS111	Audit Course -1	2	0	0	-	0	0	0	0
10	MTCS112	Professional Practice-I	0	0	2	50	0	0	1	1
		TOTAL	18	0	10	650	16	0	5	21

II SEMESTER										
Sl. No	Course Code	Course Name	Hours			Total Marks	Credits			Total Credits
			L	T	P		L	T	P	
THEORY										
1	MTCS231	Computer Communication Networks	3	0	0	100	3	0	0	3

2	MTCS232	Data Science	3	0	0	100	3	0	0	3
3	MTCS243	Elective - III	3	0	0	100	3	0	0	3
4	MTCS244	Elective - IV	3	0	0	100	3	0	0	3
5	HE271	Holistic Education-II	1	0	0	-	1	0	0	1
PRACTICAL										
6	MTCS251	Networking Lab	0	0	4	50	0	0	2	2
7	MTCS252	Data Science Lab	0	0	4	50	0	0	2	2
8	MTCS212	Audit Course-2	2	0	0	-	0	0	0	0
9	MTCS213	Professional Practice-II	0	0	2	50	0	0	1	1
		TOTAL	13	0	12	550	13	0	5	18

MTCS141- ELECTIVE - I										
1	MTCS141E01	Advanced Software Testing	3	0	0	100	3	0	0	3
2	MTCS141E02	Object Oriented System Design	3	0	0	100	3	0	0	3
3	MTCS141E03	Software Project Management	3	0	0	100	3	0	0	3
4	MTCS141E04	Software Quality Assurance	3	0	0	100	3	0	0	3
MTCS142- ELECTIVE - II										
1	MTCS142E01	Big Data Analytics	3	0	0	100	3	0	0	3
2	MTCS142E02	Machine Learning	3	0	0	100	3	0	0	3
3	MTCS142E03	Advanced Soft Computing	3	0	0	100	3	0	0	3
4	MTCS142E04	Visualization Techniques	3	0	0	100	3	0	0	3
5	MTCS142E05	Information Retrieval	3	0	0	100	3	0	0	3
MTCS243- ELECTIVE - III										
1	MTCS243E01	Cloud Computing	3	0	0	100	3	0	0	3
2	MTCS243E02	Advanced Mobile Computing	3	0	0	100	3	0	0	3
3	MTCS243E03	Distributed Computing	3	0	0	100	3	0	0	3
4	MTCS243E04	Advanced Parallel Computing	3	0	0	100	3	0	0	3
MTCS244- ELECTIVE - IV										

1	MTCS244E01	Internet of Things	3	0	0	100	3	0	0	3
2	MTCS244E02	Ad hoc Networks	3	0	0	100	3	0	0	3
3	MTCS244E03	Advanced Embedded Systems	3	0	0	100	3	0	0	3
4	MTCS244E04	Big Data Analytics for IoT	3	0	0	100	3	0	0	3
5	MTCS244E05	Network Security	3	0	0	100	3	0	0	3
MTCS111- AUDIT COURSE -1										
1	MTCS111E01	English for Research Paper Writing	2	0	0	-	0	0	0	0
2	MTCS111E02	Disaster Management	2	0	0	-	0	0	0	0
3	MTCS111E03	Sanskrit for Technical Knowledge	2	0	0	-	0	0	0	0
4	MTCS111E04	Value Education	2	0	0	-	0	0	0	0
MTCS212- AUDIT COURSE -2										
1	MTCS212E01	Constitution of India	2	0	0	-	0	0	0	0
2	MTCS212E02	Pedagogy Studies	2	0	0	-	0	0	0	0
3	MTCS212E03	Stress Management by Yoga	2	0	0	-	0	0	0	0
4	MTCS212E04	Personality Development through Life Enlightenment Skills.	2	0	0	-	0	0	0	0

III SEMESTER										
Sl. No	Course Code	Course Name	Hours			Total	Credits			Total
			L	T	P	Marks	L	T	P	Credits
1	MTCS345	Elective - V	3	0	0	100	3	0	0	3
2	MTCS361	Elective - VI(Global)	3	0	0	100	3	0	0	3
3	MTCS381	Internship	0	0	4	-	0	0	2	2
4	MTCS382	Dissertation Phase -I	0	0	20	200	0	0	10	10
Total			6	0	24	400	6	0	12	18

III SEMESTER										
Sl. No	Course Code	Course Name	Hours			Total	Credits			Total
			L	T	P	Marks	L	T	P	Credits

1	MTCS483	Dissertation Phase – II	0	0	32	200	0	0	16	16
		Total	0	0	32	200	0	0	16	16

MTCS345- ELECTIVE - V										
	MTCS345E01	Agent Based Intelligent System	3	0	0	100	3	0	0	3
	MTCS345E02	Advanced Artificial Intelligence	3	0	0	100	3	0	0	3
	MTCS345E03	Pattern Recognition	3	0	0	100	3	0	0	3
	MTCS345E04	Natural Language Processing	3	0	0	100	3	0	0	3
	MTCS345E05	Bio Informatics	3	0	0	100	3	0	0	3
	MTCS345E06	Multimedia Systems	3	0	0	100	3	0	0	3
	MTCS345E07	Advanced Computer Architecture	3	0	0	100	3	0	0	3
	MTCS345E08	Software Process Management	3	0	0	100	3	0	0	3
	MTCS345E09	Very Large Database Management Systems	3	0	0	100	3	0	0	3
	MTCS345E10	Web Technology	3	0	0	100	3	0	0	3
	MTCS345E11	Xml And Web Services	3	0	0	100	3	0	0	3
MTCS361-ELECTIVE - VI (Global)										
	MTCS361E01	Internet Of Things	3	0	0	100	3	0	0	3
	MTCS361E02	Machine Learning	3	0	0	100	3	0	0	3
	MTCS361E03	Mobile application Development	3	0	0	100	3	0	0	3
	MTCS361E04	Introduction to Data Science	3	0	0	100	3	0	0	3
	MTCS361E05	Business Analytics	3	0	0	100	3	0	0	3