

2 year M. Tech. Course Curricula for Computer Science and Engineering							
M. Tech. I semester (M1)							
S. No.	Subject Code	Subject	Core/ Elective	L	T	P	Credits
1	14M11CI112	Advanced Computer Networks	Core	3	0	0	3
2	14M11CI113	Advanced Database Systems	Core	3	0	0	3
3	14M11CI114	High Performance Computer Architecture	Core	3	0	0	3
4	14M11CI115	Advanced Algorithms	Core	3	0	0	3
5		DE-I	Elective	3	0	0	3
6	14M17CI171	Software Systems Lab - I	Core	0	0	4	2
		Total		15	0	4	17
List of Electives for DE-I to be updated from time to time			Core/ Elective	L	T	P	Credits
1	14M14CI132	Artificial Intelligence in Manufacturing	Elective	3	0	0	3
2	14M14CI134	Modern Cryptography	Elective	3	0	0	3
3	14M14MA213	Advance Numerical Techniques	Elective	3	0	0	3
4	14M14PH134	Process Modelling and Simulation of Semiconductor Devices	Elective	3	0	0	3

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M. Tech. II semester (M2)							
S. No.	Subject Code	Subject	Core/ Elective	L	T	P	Credits
1	14M11CI212	Advanced Operating Systems	Core	3	0	0	3
2	14M11CI213	Advanced Software Engineering	Core	3	0	0	3
3	14M11CI214	Multimedia Systems	Core	3	0	0	3
4	14M11CI215	Computer System Performance Analysis	Core	3	0	0	3
5		DE-II	Elective	3	0	0	3
6	14M17CI271	Software Systems Lab - II	Core	0	0	4	2
		Total		15		4	17
List of Electives for DE-II to be updated from time to time			Core/ Elective	L	T	P	Credits
1	14M14CI231	Data Mining & Warehousing Techniques	Elective	3	0	0	3
2	14M14CI233	Enterprise Information Systems	Elective	3	0	0	3
3	14M14CI234	Advanced Computer Graphics	Elective	3	0	0	3
4	14M14CI235	Human Aspects of Software Development	Elective	3	0	0	3
5	14M14CI236	Information System and Security	Elective	3	0	0	3
6	14M14CI131	Analysis and Design of Algorithms	Elective	3	0	0	3

42 year M. Tech. Course Curricula for Computer Science and Engineering							
M. Tech. III semester (M3)							
S. No.	Subject Code	Subject	Core/ Elective	L	T	P	Credits
1		DE-III	Elective	3	0	0	3
2		DE-IV	Elective	3	0	0	3
3	14M19CI392	Seminar-I	Core	0	0	4	2
4	14M19CI391	Dissertation Part I*	Core	--	--	--	12
		* to be continued in Semester IV					
		Total					20
List of Electives for DE-III & DE-IV to be updated from time to time							
DE-III							
1	14M14CI331	Advanced Network Management	Elective	3	0	0	3
2	14M14CI332	Image Processing & Applications	Elective	3	0	0	3
3	14M14CI333	Real Time Operating System	Elective	3	0	0	3
4	12M1GCI335	Cognitive Sciences	Elective	3	0	0	3
5	14M14CI336	Queueing Networks	Elective	3	0	0	3
DE-IV							
6	14M14CI334	Computation Theory and Applications	Elective	3	0	0	3
7	14M14CI335	Computational Intelligence	Elective	3	0	0	3
8	14M14MA231	Mathematical Modelling & Simulations	Elective	3	0	0	3
9	14M14PH131	Quantum Computation & Quantum Cryptography	Elective	3	0	0	3

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M. Tech. IV semester (M4)							
S. No.	Subject Code	Subject	Core/ Elective	L	T	P	Credits
1		DE-V	Elective	3	0	0	3
2		DE-VI	Elective	3	0	0	3
3	14M19CI492	Seminar-II	Core	0	0	4	2
4	14M19CI491	Dissertation Part II**	Core	--	--	--	14
		Total					22
List of Electives for DE-V & DE-IV to be updated from time to time			Core/ Elective	L	T	P	Credits
DE-V							
1	14M14CI431	Computer Vision	Elective	3	0	0	3
2	14M14CI432	Machine Learning	Elective	3	0	0	3
3	14M14CI433	Grid Computing	Elective	3	0	0	3
4	14M14CI434	Swarm Intelligence & Applications	Elective	3	0	0	3
5	14M14CI435	High Performance Parallel Computing	Elective	3	0	0	3
6	14M14CI436	Software Architecture	Elective	3	0	0	3
DE-VI							
7	14M14CI437	Storage Networks	Elective	3	0	0	3
8	14M14CI438	Natural Language Processing	Elective	3	0	0	3
9	14M14CI439	Formal Language and Compilation	Elective	3	0	0	3
10	14M14CI440	Voice over IP	Elective	3	0	0	3
11	14M14CI441	Wireless Sensor Network	Elective	3	0	0	3
12	14M14CI442	Digital Forensics and Cyber Crime	Elective	3	0	0	3
13	12M1GMA133	Fuzzy Sets and Fuzzy Systems	Elective	3	0	0	3
14	12M1GMA134	Fuzzy Logic and Applications	Elective	3	0	0	3

Notes

- 1 Dissertation ** to be continued from III Semester
- 2 Final Evaluation of the dissertation will be based on the cumulative performance in all III and IV Semesters
- 3 It is desirable to have one publication from the dissertation