

CS M.Tech Curriculum

Course No.	Course Title	Contact Hour			Credit	Prerequisite
		L	T	P		
Semester-I						
CS501	Core Course-I	3	0	0	3	
	Algorithms and Complexity					
CS503	Core Course-II	3	0	0	3	
	Advanced Databases					
MA701	Core Course-III (Math course)	3	0	0	3	
	Advanced Engineering Mathematics					
CS5XX	Elective Course-I	3	0	0	3	
CS5XX	Elective Course-II	3	0	0	3	
CS553	Core course Lab	0	0	2	1	
	Advanced Database Systems Lab					
CS56X	Elective course Lab	0	0	2	1	
	Elective Lab					
CS555	Computing Lab -1 Advanced Programming Lab	0	0	2	1	
CS505	Seminar & Technical report writing	0	0	2	1	
		15	0	8		
		23			19	
List of Elective Courses for 1st Semester						
Course No.	Course Title	Contact Hour			Credit	Prerequisite
		L	T	P		
CS511	Image Processing	3	0	0	3	
CS513	Artificial Intelligence	3	0	0	3	
CS515	Foundations of Automatic Verification	3	0	0	3	
CS517	Soft Computing	3	0	0	3	
CS519	Principles of program analysis	3	0	0	3	
Course No.	Course Title	Contact Hour			Credit	Prerequisite
		L	T	P		
Semester-II						
CS502	Core Course-IV	3	0	0	3	
	Theory of Computation					
CS504	Core Course-V	3	0	0	3	
	Advanced Concepts in Operating Systems					
CS5XX	Elective Course-III	3	0	0	3	
CS5XX	Elective Course-IV	3	0	0	3	
CS554	Core course Lab	0	0	2	1	
	Advanced Operating Systems lab					
CS5XX	Elective course Lab	0	0	2	1	
	Elective Lab					

CS556	Computing Lab-2 Advanced Network Lab	0	0	2	1	
CS506	Seminar & Technical report writing	0	0	2	1	
CS508	Review work for project	0	0	4	2	
		12	0	12		
		24			18	
Non Credit Compulsory Course: Internship/Mini Project						
List of Elective Courses for 2nd Semester						
Course No.	Course Title	Contact Hour			Credit	Prerequisite
		L	T	P		
CS510	Data Warehousing and Data Mining	3	0	0	3	
CS512	Distributed Computing	3	0	0	3	
CS514	Cloud Computing	3	0	0	3	
CS516	Pattern recognition	3	0	0	3	
CS518	Mobile Computing	3	0	0	3	
Semester-III						
CS603	Technical Report and presentation on mini project/internship work	0	0	4	2	
CS601	Project-I	0	0	22	11	
		0	0	26	13	
		26			13	
Semester-IV						
CS602	Project-II	0	0	28	14	
		0	0	28	14	
		28			14	