

M.Tech.(CSE) Courses

SEMESTER –1

Course No.	Course Name	L-T-P-C
CS501	Advanced data structure and algorithms	3-0-0-6
CS503	Mathematics for Computer Science	3-1-0-8
CS505	Computer Systems & Networks	3-0-0-6
CS5xx	Departmental Elective – I	3-0-0-6
CS531	Programming Lab	0-0-3-3
	Total	13-0-3-29

SEMESTER –2

Course No.	Course Name	L-T-P-C
CS502	Theory of Computation	3-0-0-6
CS5xx	Departmental Elective – II	3-0-0-6
CS5xx	Departmental Elective – III	3-0-0-6
CS5xx	Departmental Elective – IV	3-0-0-6
CS532	Computer System Lab	0-0-3-3
	Total	12-0-3-27

SEMESTER –3

Course No	Course Name	L-T-P-C
CS621	Project-I	0-0-24-24
	Total	0-0-24-24

SEMESTER –4

Course No	Course Name	L-T-P-C
CS622	Project-II	0-0-24-24
	Total	0-0-24-24

Total Credit = 104

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Department Electives

Course ID	Course Name	Credit
CS 552	Advanced Optimization methods	6
CS 554	Computational Number Theory and Modern Cryptography	6
CS 556	Algorithmic Information Theory & randomness	6
CS 558	Advanced concepts in operating systems	6
CS 560	Advanced Information transmission & security	6
CS 562	Advanced Topics in networks	6
CS 564	Advanced Web development technologies	6
CS 566	Cryptography and Network Security	6
CS 568	Wireless Communications and Networks	6
CS 570	Linux Kernel Security	6
CS 572	Design of Enterprise systems	6
CS 574	Computer Performance Evaluation	8
CS 576	Computational Principal of Robotics	6
CS 578	Intelligences User Interfaces	6
CS 580	Applied Pattern recognition	6
CS 582	Data analytics & Artificial intelligence	6
CS 584	Advanced information retrieval	8
CS 586	Innovations in Digital Watermarking	6
CS 588	Steganography techniques	6
CS590	Video Processing& communication	6
CS592	Advanced Natural Language Processing	6
CS594	Cloud Computing Technology	6
CS596	Big Data Analytics	6
CS 551	Parallel and Distributed Algorithms	6
CS 553	Computational and Differential geometry	6
CS 555	Complexity Theory	6
CS 557	Hierarchical memory algorithm and Data Structures	6
CS 559	Logic for Computer Science and Applications	6
CS 561	Learning with Kernels and Applications	6

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CS 563	Computational Geometry and topology	6
CS 565	Advanced computer architecture and applications	6
CS 567	Formal methods for Hardware Verification	6
CS 569	Formal Semantics for programming languages	6
CS 571	Logic and Functional Programming	6
CS 573	Advances in Compiler Construction	6
CS 575	Advanced Distributed systems	6
CS 577	Computer Networks and Internet protocols	6
CS 579	Principles of Wireless sensor networks	6
CS 581	Multimedia Communication Systems	6
CS 583	Advanced Machine Learning	6
CS 585	Data mining Techniques	6
CS 587	Introduction to Human computer interaction	8
CS 589	Computational and systems biology	6
CS 591	Principles of Digital Image Processing	6
CS 593	Mobile robotics System	6
CS 595	Speech Processing	6