

## M.Tech. Computer Sciences and Engineering

<b>Semester I</b>			
<b>Code</b>	<b>Course Name</b>	<b>L-T-P</b>	<b>Credits</b>
CS 540	Fundamentals of Computing Systems Design	3 -0 - 3	9
EE 611	Applied Linear Algebra in Electrical Engineering	3 -0 - 0	6
CS 510	Foundations of Theoretical Computer Science	3 -0 - 0	6
	Elective I	3 -0 - 0	6
		12 -0 - 3	27
<b>Seminar II</b>			
CS 530	Foundations of Machine Learning	3 -0 - 3	9
CS 522	Algorithms design	3 -0 - 0	6
CS 600	M.Tech Thesis Proposal Unit/Seminar	3 -0 - 0	6
	Elective-1	3 -0 - 0	6
	Elective-2	3 -0 - 0	6
		15 -0 - 3	33
<b>Seminar III</b>			
	M.Tech Thesis Work 1		28
<b>Seminar IV</b>			
	M.Tech Thesis Work 2		28

### List of Elective courses:

<b>Code</b>	<b>Course Name</b>	<b>L-T-P</b>	<b>Credits</b>
CS 570	Model Checking and Software Verification	3 -0 - 0	6
CS 572	Modelling and Simulation of Systems	3 -0 - 0	6
CS 662	Markov chains and their Applications	3 -0 - 0	6
MA 605	Probability Theory	3 -0 - 0	6
CS 520	Combinatorial Optimization	3 -0 - 0	6
CS 511	Approaches to Software Performance Enhancement	3 -0 - 0	6
CS 521	Foundations of Functional Programming	3 -0 - 0	6
CS 513	Introduction to Information Security	3 -0 - 0	6