Year 1: I Semester – Total credits 27-29				
S. No.	**Course Name**	**L-T-P-C/ Total Credits**	**Objective of the course**	**Course Category**
1.	Advanced Data Structures and Algorithms	3-0-0-6	To provide the foundations of the practical implementation and usage of algorithms and data Structures. One of the objectives is to ensure that the student evolves into a competent programmer capable of designing and analyzing implementations of algorithms and data structures for different kinds of problems. Another objective is to expose the student to the algorithm analysis techniques, to the theory of reductions, and to the classification of problems into complexity classes.	PC
2.	Advanced Data Structures and Algorithms Lab	0-0-3-3		PC
3.	Combinatorics and Probability	3-0-0-6	To provide the foundations of combinatorics and probability theory that are fundamental to CSE discipline	PC
4.	Advanced Software Development Laboratory	1-2-0-6	To teach students, advanced problem solving through programming. It aims to train students in writing efficient programs for the problem in different areas of CSE such as software engineering, operating system, networks, computer architecture, databases etc.	PC
5.	Elective-1	6-8	Students choose post-graduate level courses according to their interest of specialization or based on their interest. Note: Elecective-1 should be relevant to Computer Science and Engineering.	E
6.	Communications skills	PP/NP	--	IC

Year 1: II Semester – Total credits 32-34				
S. No.	**Course Name**	**L-T-P-C/ Total Credit**	**Objective of the course**	**Course Category**
1.	Elective-2	6-8	Students choose post-graduate level courses according to their interest of specialization or based on their interest. Note: Total credits for Elective is 36. In that at least 24 credits should come from the courses specific to the CSE discipline.	E
2.	Elective-3	6-8		E
3.	Elective-4	6-8		E
4.	Elective-5	6		E
5.	Elective-6	6		E
6.	Seminar	0-0-4-4		IC

Year 2: III Semester – Total credits 32				
S. No.	**Course Name**	**L-T-P-C/ Total Credit**	**Objective of the course**	**Course Category**
1.	MTech Technical Project-I	0-0-32-32	First phase of the year-long project. Project work starts from the summer following the first year. The student would be allotted a guide to work on the MTech project before the end of the second semester. There will be a committee to monitor the progress of the student in the project each semester and accord a grade for the project	IC

Year 2: IV Semester – Total credits 32				
S. No.	**Course Name**	**L-T-P-C/ Total Credit**	**Objective of the course**	**Course Category**
1.	MTech Technical Project-II	0-0-32-32	Second phase of the year-long project. Project work continues from semester III. following the first year. There will be a committee to monitor the progress of the student in the project each semester and accord a grade for the project.	IC