

4-YEAR B. TECH. & 5-YEAR DUAL DEGREE IN COMPUTER SCIENCE & ENGINEERING

VII SEMESTER B. TECH - CSE					
Course No.	Name of the Courses	L	T	P	Credit Hrs.
CSC17102	Parallel & Distributed Computing	3	0	0	6
CSC17103	Software Engineering	3	0	0	6
CSC171xx	Elective – I	3	0	0	6
CSC171xx	Elective – II	3	0	0	6
CSC17202	Parallel & Distributed Computing Lab	0	0	2	2
CSC17203	Software Engineering Lab	0	0	2	2
CSC17001	Vacational Training	0	0	0	5
CSC17801	Project	0	0	6	6
Total					39
Contact Hrs.		12	0	10	22

CSC17103	SOFTWARE ENGINEERING	3-0-0
<p>Introduction to Software Engineering: Objective and Scope of SE, Introduction to System, Software Definition, Characteristics of Software, Evolution of Software, Software Quality, Software Problems, Software Engineering Definition, Software Engineering Problem, Software Development Methodologies.</p> <p>Software Process: Introduction to Software Process, Components of Software Process, Characteristics of Software Process, Software Development Process, Software Development Models, Project Management Process, Software Configuration Management Process, Process Management Process.</p> <p>Object Oriented Modeling & Design: Object Modeling, Dynamic Modeling, Functional Modeling, Object Oriented Design Methodology.</p> <p>Software Requirements Analysis: Introduction, Problem Analysis, Data Flow Diagram, Requirement Specifications, Validation.</p> <p>Planning a Project: Cost Estimation, Project Scheduling, Staffing and Personal Planning, SCM Plans, Quality Assurance Plans, Project Monitoring Plans, Risk Management.</p> <p>Designing a Project: Introduction, Function-Oriented Design, Object-Oriented Design, Detailed Design.</p> <p>Coding: Programming Principles and Guidelines, Coding Process, Metrics.</p> <p>Testing: Testing Fundamentals, Types of Testing, Levels of Testing, Design of test cases with examples.</p>		