Lecture Plan

Subject: **Software Engineering (CSC17103 [L-T-P = 3-0-0]**
Class: **VII Semester B.Tech & Dual Degree (Computer Science & Engineering)**

Sl. No.	Name of the Topics	Number of Lectures
1	**Introduction to Software Engineering (SE)** (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)	4
2.	**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)	4
3.	**Object Oriented Modeling & Design** (Object Modeling, Dynamic Modeling, Functional Modeling, Object Oriented Design Methodology)	7
4.	**Software Requirements Analysis** (Introduction, Problem Analysis, Data Flow Diagram, Requirement Specifications, Validation)	7
5.	**Planning a Project** (Cost Estimation, Project Scheduling, Staffing an Personal Planning, SCM Plans, Quality Assurance Plans, Project Monitoring Plans, Risk Management)	7
6.	**Designing a Project** (Introduction, Function-Oriented Design, Object-Oriented Design, Detailed Design)	7
7.	**Coding** (Programming Principles and Guidelines, Coding Process, Metrics)	3
8.	**Testing** (Testing Fundamentals, Types of Testing, Levels of Testing, Design of test cases with examples)	5
	TOTAL	**44**