

Teaching Plan (2021-2022)

Name of the Faculty : Dr. Sumit Kumar Aggarwal

Name of the Course : **BSc (Hons.) Computer Science**

Semester : **IV** Sec (if any) : **A & B**

Title of the Paper : **Software Engineering**

Month	Topics Covered	References
January	<p>Ch-1: Software and Software Engineering Ch-2: Process Models Ch-3: Software Requirements Analysis and Specification</p> <p>Practicals: Problem Identification, Process Models Selection and Preparation of SRS</p>	<p>R.S. Pressman, Software Engineering: A Practitioner's Approach, McGraw-Hill, Ed 7, 2010</p> <p style="text-align: center;">And</p> <p>P. Jalote, An Integrated Approach to Software Engineering, Narosa Publishing House, Ed.3, 2011</p> <p style="text-align: center;">And</p> <p>Software Engineering by Prof. KK Agarwal and Prof Yogesh Singh. Ed.5</p>
Febraury	<p>Ch-26: Estimation for Software Project Ch-27: Project Scheduling Ch-28: Risk Management Ch-17: Software Testing Strategies Ch-18: Testing Conventional Applications</p> <p>ASSIGNMENT 1 (First week of Feb.)</p> <p>Practicals: Preparation of Architectural Deisgn, Cost and Size Estimation and Risk Management</p>	<p>R.S. Pressman, Software Engineering: A Practitioner's Approach, McGraw-Hill, Ed 7, 2010</p> <p style="text-align: center;">And</p> <p>Software Engineering by Prof. KK Agarwal and Prof Yogesh Singh. Ed.5</p>
March	<p>Ch-23: Product Metrics Ch-25: Process and Project Metrics Ch 6: Function Oriented Design Ch 9: Architectural Design</p> <p>ASSIGNMENT 2 (First week of Mar.)</p>	<p>R.S. Pressman, Software Engineering: A Practitioner's Approach, McGraw-Hill, Ed 7, 2010</p> <p style="text-align: center;">And</p> <p>P. Jalote, An Integrated Approach to Software Engineering, Narosa Publishing House, Ed.3, 2011</p>

	Practicals: Module Implementation and Testing.	
April	Ch-14: Quality Concepts Ch-15: Review Techniques Ch-16: Software Quality Assurance Ch-30: Software Process Improvement Practicals: Project Report Review	R.S. Pressman, Software Engineering: A Practitioner's Approach, McGraw-Hill, Ed 7, 2010 And Software Engineering by Prof. KK Agarwal and Prof Yogesh Singh. Ed.5