GANPAT UNIVERSITY
U.V. PATEL COLLEGE OF ENGINEERING
Computer Engineering / Information Technology Department

First Internal Exam Syllabus of Software Engineering (2CE/IT502)

Part I (Refer Software Engineering - Roger Pressman, 7th Ed.)		
Unit No.	**University Syllabus Chapter / Topic**	**Corresponding Book Chapter /Topic**
1	**Introduction to Software and Software Engineering:** FAQ about Software Engineering, Software characteristics, The Changing Nature of Software, Software Myths	**Chapter 1: Software and Software Engineering** **1.1 (1.1.1, 1.1.2, 1.1.3)** **1.2** 1.3 1.4 1.6
2	**Process Models (Software Development Life Cycle):** What is Software Process?, What is Software Development Life Cycle (SDLC)?, Prescriptive models, The water fall model (classical life cycle model), Incremental Process model, Evolutionary process models, The unified process	**Chapter 2: Process Models** **2.1 (2.1.1, 2.1.2, 2.1.3)** **2.3 (2.3.1 to 2.3.5)**
3	**Building the Analysis Model:** ● Requirement Analysis, ● Analysis Modeling Approaches, ● Data Modeling Concepts, ● Object Oriented Analysis, ● Scenario Based Modeling, ● Class Based Modeling, ● Crating a Behavioral Model, ● Flow Oriented Modeling, ● Entity Relationship Diagram (E-R Diagram)	**(From Roger pressman book)** **Chapter 6: Requirement Modeling: Scenarios, Information and Analysis classes** **6.1,** **6.2,** **6.4,** **6.5 (6.5.1 to 6.5.3 and 6.5.5)** **Chapter 7: Requirement Modeling: Flow, Behavior, patterns and web apps** **7.2 & 7.3**
Part II (Refer Fundamentals of Software Engineering, Rajib Mall, 2nd Edition)		
Unit No.	**University Syllabus Chapter / Topic**	**Corresponding Book Chapter /Topic**
7	**Software Design:** Design Framework, Modularity, Strategy of Design Function Oriented Design, Object Oriented Design Approach (OOD)	**Chapter 5: Software Design**

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