TermTest 1 Syllabus

Course Name: Software Engineering **Course Code: DJ19CEC601**
Class: TE (A & B) **Sem:** VI

Unit No	Topics	Pressman 6th Edition topics
1	**Introduction to Software Engineering and Process Models:** Nature of Software, Software Engineering, Software Process, CMM, Generic Process Model. Prescriptive Process Models: The Waterfall Model, V Model. Incremental Process Model: Incremental Model Evolutionary Process Models: Prototyping Paradigm, The Spiral Model Concurrent Process Models: Concurrent Process Model The Unified Process Agile Methodology: Agility Principals, Agile Process Models: Extreme Programming (XP), Adaptive Software Development (ASD), Dynamic Systems Development Method (DSDM), Scrum, Crystal, Feature Driven Development (FDD), Agile Modeling (AM), Kanban Model	**Chapter 2 2.1, 2.2, 2.3, Chapter 3 (except 3.5 everything else) Chapter 4; 4.1 to 4.3** **7th Edition** **Chapter 2 (except 2.4 everything else) Chapter 3: 3.1 to 3.5**
2	**Requirement Analysis and Project Estimation:** Requirement Elicitation, Software Requirement Specification (SRS). **Requirement Models:** Scenario Based Models, Class Based Models, Behavioural Models and Flow Models. **Software Project Estimation:** LOC, FP, Empirical Estimation Models COCOMO I COCOMO II, Specialized Estimation Techniques.	**Chapter 7: Requirements Engineering Chapter 8: Building Analysis Model Chapter 22: 22.2.1, 22.2.2, Chapter 23: 23.6.1 to 23.6.4, 23.8, 23.9 and COCOMO pdf** **7th Edition** **Chapter 5: Understanding Requirements** **Chapter 6: Requirements Modeling Chapter 25: 25.1, 25.2 Chapter 26: 26.6.1 to 26.6.4, 26.8, 26.9 and COCOMO pdf**
3	**Project Scheduling and Control:** Management Spectrum, 3Ps, Process and Project Metrics Scheduling: Work Breakdown Structure, Network Diagram, Gantt CharT	**Chapter 21 Project Management: 21.1, [21.2 – for reading] Chapter 22: Metrics for Process and projects: 22.2 Chapter 24: Project Scheduling: 24.2, 24.3, 24.4, 24.5** **7th Edition**

		Chapter 24 Project Management: 24.1, [24.2 – for reading] **Chapter 25: Metrics for Process and projects: 25.2** **Chapter 27: Project Scheduling: 27.2, 27.3, 27.4, 27.5**

Subject Incharges   **Head, Comp Engg**

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