**TermTest 1 Syllabus**

**Course Name: Software Engineering Course Code:** **DJ19CEC601**

**Class**: TE (all Div) **Sem:** VI

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| **Unit No** | **Topics** | **Pressman 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 | **6th Edition**  **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 | **6th Edition**  **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:**  Work Breakdown Structure, Network Diagram, Gantt Chart | **6th Edition**  **Chapter 24: Project Scheduling: 24.2, 24.3, 24.4, 24.5**  **7th Edition**  **Chapter 27: Project Scheduling: 27.2, 27.3, 27.4, 27.5** |
| 4 | **Design Engineering and Analysis:**  Design Principles, Design Concepts, Effective Modular Design-Cohesion and Coupling. | **6TH EDITION**  Chapter 9: Design Engineering  Chapter 11: 11.3 and Coupling-Cohesion ppt  **7TH EDITION**  Chapter 8: Design Concepts  Chapter 10: 10.3 and Coupling-Cohesion ppt |

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