**Lesson Plan**

**Name of the Teacher: Ms. Hina Class: B.Voc (SD)-II, sem-III**

**Subject: Software Engineering Paper: BVSD 33**

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| **S No** | **Period** | **Topics to be Covered** | **Academic Activity to be Organized** |
|  | **17-31 July 2017** | Software Crisis – Problem and Causes, Software Life Cycle Models: Waterfall, Prototype, Evolutionary and Spiral Models. Software Project Planning | **Group Discussion** |
|  | **01-31 Aug 2017** | Software Requirement, Analysis and Specifications: Structured Analysis, Data Flow Diagrams, DataDictionaries, Entity-Relationship Diagrams, Software Requirement and Specifications, Behavioral and non-behavioral Requirements.  Software Design: Design Fundamentals, Problem Partitioning and Abstraction, Design Methodology, | **On Board Presentations** |
|  | **01-30 Sept 2017** | Cohesion & Coupling, Classification of Cohesiveness & Coupling, Coding: Programming Style, Structured Programming. Software Testing: Testing Fundamentals, Functional Testing: Boundary Value Analysis. Equivalence Class Testing, Decision Table Testing, Cause Effect Graphing, Structural Testing: Control Flow Basedand Data Flow Based Testing, Loop Testing. | **Power Point Presentations** |
|  | **01-31 Oct 2017** | Software Testing Strategies: Unit Testing, Integration Testing, Validation Testing, System Testing, Alpha and Beta Testing.  Software Maintenance: Type of Maintenance, Management of Maintenance, Maintenance Process, Maintenance Characteristics | **15 mint written test on previous topic** |
|  | **01-13 Nov 2017** | Cost Estimation: COCOMO Model, Putnam Resource Allocation Model, Risk Management, Project Scheduling, Personnel Planning, Team Structure, Software Configuration Management, Quality Assurance, Project Monitoring. | **Quick review of previous syllabus in form of questions and answers on alternate days** |

**Topics of Assignments/ Class Tests to be given to the Students:**

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| **Assignment 1** | **SDLC and various kinds of SDLC Models** |
| **Assignment 2** | **White Box Testing and its types** |
| **Class Test** | **Sessional Test: Unit II**  **Class tests: Different Topics on random days** |