**PG.GOVT COLLEGE FOR GIRLS, SECTOR-42, CHANDIGARH**

**Teaching Plan Even Semester**

**Session (2018-19)**

**Class: PGDCA 2nd sem. Name of the Teacher: Sheenam**

**Subject: Software Engineering Period : 4th (3-4),6th (5-6)**

**Paper : PGD -2103 Room No : 101**

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| **S. No** | **Dates** | **Topics to be covered** |
| **Week 1** | **14 /01/2019 – 19/01/2019** | **Characteristics, Components, Applications,**  **principles of software engineering, skills of software engineer.** |
| **Week 2** | **21/01/2019 –**  **25/01/2019** | **Software Development Life Cycle, Waterfall Life Cycle**  **Model, Boehm’s Spiral Life Cycle Model, win Win Spiral Model** |
| **Week 3** | **28/01/2019 –**  **2/02/2019** | **introduction to Software Project management Plan(SPMP),**  **Project scheduling Techniques- Work Breakdown Structure(WBS),** |
| **Week 4** | **4/02/2019 –**  **9/02/2019** | **Project Evaluation Review Technique (PERT), Gantt Charts, Critical path method (CPM)** |
| **Week 5** | **11/02/2019 –**  **16/02/2019** | **introduction to Problem-based estimation,**  **Process based estimation, Cost Estimation Model- COCOMO Model,** |
| **Week 6** | **18/02/2019 –**  **23/02/2019** | **introduction to Software Risks, software Risk management, Risk Management activities** |
| **Week 7** | **25/02/2019 –**  **02/03/2019** | **Risk Assessment and Risk Control, Benefits of Risk management, introduction to SRS** |
| **Mid Semester Exam** | | |
| **Week 8** | **11/03/2019 –**  **16/03/2019** | **Software Design Process, Design Failures and Remedies** |
| **Week 9** | **18 /03/2019 –**  **22/03/2019** | **Structured Analysis and Structured Design**  **(SASD)-Goals and Benefits, Data Flow Diagrams (DFD)** |
| **Week 10** | **25/03/2019 –**  **30/03/2019** | **Data Dictionary(DD), Entity-Relationship diagram(ERD)** |
| **Week 11** | **1/04/2019 –**  **6/04/2019** | **Objectives of software Testing, Principles of Software Testing,Software Testing Process,** |
| **Week 12** | **8/04/2019 –**  **12/04/2019** | **Black Box Testing, White Box Testing** |
| **Week 13** | **15/04/2019 –**  **20/04/2019** | **Software quality attributes, Factors affecting** |
| **Week 14** | **22/04/2019 –**  **27/04/2019** | **Software Quality, Aims of Software Maintenance ,Types of Software Maintenance,** |
| **Week 15** | **29 /04/2019 –**  **3/05/2019** | **Software Maintenance Costs.** |