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

**Teaching Plan Session Even Semester**

**(2017-18)**

**Class: PGDCA 2nd semester Name of the Teacher: Sheenam**

**Subject: Software Engineering Period : 4th(wed-sat)**

**Paper : PGD-2103 Room No : 101(I.T.Block)**

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| **S. No** | **Date From** | **Date Upto** | | **Topics to be covered** |
| **Week 1** | **Jan 08, 2018** | **Jan 13, 2018** | | **Introduction to Software Engineering Characteristics, Components, Applications**  **principles of software engineering, skills of software engineer.** |
| **Week 2** | **Jan 15, 2018** | **Jan 20, 2018** | | **Introduction to Software Process Models Software Development Life Cycle, Waterfall Life Cycle model** |
| **Week 3** | **Jan 22, 2018** | **Jan 27, 2018** | | **Introduction to Boehm’s Spiral Life Cycle Model, win win Spiral Model** |
| **Week 4** | **Jan 29, 2018** | **Feb 3, 2018** | | **Introduction to Software Project management Plan , Project scheduling Techniques- Work Breakdown Structure(WBS)** |
| **Week 5** | **Feb 5, 2018** | **Feb 10, 2018** | | **Project Evaluation Review Technique (PERT), Gantt Charts, Critical path method (CPM)** |
| **Week 6** | **Feb 12, 2018** | **Feb 17, 2018** | | **Introduction to Problem-based estimation,**  **Process based estimation, Cost Estimation Model- COCOMO Model** |
| **Week 7** | **Feb 19, 2018** | **Feb 24, 2018** | | **Introduction to Software Risks software Risk management, Risk Management activities- Risk Assessment** |
| **Week 8** | **Feb 26, 2018** | **Mar 03 , 2018** | | **Introduction to Risk Control, Benefits of Risk management, SRS** |
| **2nd week March (Mid Semester Exam)** | | | | |
| **Week 9** | **March 12, 2018** | | **March 17, 2018** | **Software Design Process, Design Failures and Remedies Structured Analysis and Structured Design .** |
| **Week 10** | **March 19 , 2018** | | **March 24, 2018** | **Goals and Benefits, Data Flow Diagrams (DFD), Data Dictionary(DD),** |
| **Week 11** | **March 26, 2018** | | **March 31, 2018** | **Entity-Relationship diagram(ERD)** |
| **Week 12** | **April 02, 2018** | | **April 07, 2018** | **Objectives of software Testing, Principles of Software Testing,**  **Software Testing Process,** |
| **Week 13** | **April 09, 2018** | | **April 14 , 2018** | **Introduction to Black Box Testing, White Box Testing** |
| **Week 14** | **April 16, 2018** | | **April 21, 2018** | **Software quality attributes, Factors affecting** |
| **Week 15** | **April 23, 2018** | | **April 28, 2018** | **Introduction to Software Quality, Aims of Software Maintenance,** |
| **Week 16** | **April 30, 2018** | | **May 05, 2018** | **Types of Software Maintenance** |