**Post Graduate Govt. College for Girls, Sector-42, Chandigarh**

**Teaching Plan (Even Semester) Session (2019-2020)**

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

**Subject: Software Engineering Period:2nd**

**Paper: PGD -2103 Room No: 202(I.T. Block)**

**(Mon-Wed, Fri-Sat)**

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| **S. No** | **Dates** | **Topics to be Covered** |
| Week 1 | 09-01-2020 to 11-01-2020 | **Characteristics, Components, Applications,**  **principles of software engineering, skills of software engineer.** |
| Week 2 | 13-01-2020 to 18-01-2020 | **Software Development Life Cycle, Waterfall Life Cycle**  **Model, Boehm’s Spiral Life Cycle Model, win Win Spiral Model** |
| Week 3 | 20-01-2020 to 25-01-2020 | **introduction to Software Project management Plan(SPMP),**  **Project scheduling Techniques- Work Breakdown Structure(WBS),** |
| Week 4 | 27-01-2020 to 01-02-2020 | **Project Evaluation Review Technique (PERT), Gantt Charts, Critical path method (CPM)** |
| Week 5 | 03-02-2020 to 08-02-2020 | **introduction to Problem-based estimation,**  **Process based estimation, Cost Estimation Model- COCOMO Model,** |
| Week 6 | 10-02-2020 to 15-02-2020 | **introduction to Software Risks, software Risk management, Risk Management activities** |
| Week 7 | 17-02-2020 to 22-02-2020 | **Risk Assessment and Risk Control, Benefits of Risk management,** |
| Week 8 | 24-02-2020 to 29-02-2020 | **Software Design Process, Design Failures and Remedies** |
| Week 9 | 02-03-2020 to 05-03-2020 | **Structured Analysis and Structured Design**  **introduction to SRS** |
| Mid Semester Exams (06-03-2020 to 13-03-2020) | | |
| Week 11 | 14-03-2020, 16-03-2020 to 21-03-2020 | **SASD)-Goals and Benefits, Data Flow Diagrams (DFD)** |
| Week 12 | 24-03-2020 to 28-03-2020 | **Data Dictionary(DD), Entity-Relationship diagram(ERD)** |
| Week 13 | 30-03-2020 to 04-04-2020 | **Objectives of software Testing,** |
| Week 14 | 07-04-2020 to 11-04-2020 | **Principles of Software Testing,Software Testing Process,** |
| Week 15 | 15-04-2020 to 18-04-2020 | **Black Box Testing, White Box Testing** |
| Week 16 | 20-04-2020 to 24-04-2020 | **Software quality attributes, Factors affecting Software Quality,** |
| Week 17 | 27-04-2020 to 02-05-2020 | **Aims of Software Maintenance ,Types of Software Maintenance,** |
| Week 18 | 04-05-2020 | **Software Maintenance Costs.** |