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

**Teaching Plan Session Odd Semester**

**(2018-19)**

**Class: BCA 3RD Sem**

**Name of the Teacher: SUDHIR KUAMR SHARMA**

**Subject: BCA-16-303**

**Period :**

**Paper : Information System Design and Implementation**

**Room No : 202**

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| **S. No** | **Date From** | | **Date Upto** | **Topics to be covered** |
| Week 1 | **(For ongoing classes)** | | | Systems Concepts and Information Systems Environment. |
| July 24, 2018 | | July 28, 2018 |
| Week 2 | July 30, 2018 | August 4, 2018 | | Definition and characteristics of a system. |
| Week 3 | August 6, 2018 | August 11, 2018 | | Elements of a system Environment: Boundaries and interface. |
| Week 4 | August 13, 2018 | August 18, 2018 | | Types of systems:  Physical or Abstract Systems, Open and Closed System, Man - made information systems. |
| Week 5 | August 20, 2018 | August 25, 2018 | | The System Development Life Cycle: Introduction to various phases-Recognition of Need, Feasibility Study, Analysis, Design, Implementation, Post– Implementation and Maintenance. |
| Week 6 | August 27, 2018 | September 1, 2018 | | The Role of System Analyst: Skills of a System Analyst, various roles of the Analyst. |
| Week 7 | September 3, 2018 | September 8, 2018 | | System Planning and the Initial Investigation: Bases for planning in system analysis, Initial investigation, determining the users information requirements, |
| Week 8 | September 10, 2018 | September 15, 2018 | | Problem definition and Project Initiation, Background Analysis, Fact Finding, Fact Analysis, Determination of Feasibility. |
| Week 9 | September 17, 2018 | September 22, 2018 | | Information Gathering: Introduction, Information Gathering tools: Review of Literature, Procedures and forms. On -site observation. Interviews and questionnaires. |
| Week 10 | September 24, 2018 | September 29, 2018 | | Tools of Structured Analysis: Various tools of structured analysis: Data flow diagram (DFD), Data Dictionary, Decision tree and structured English, Decision table, Pros and cons of each tools. |
| Week 11 | October 1, 2018 | October 8, 2018 | | Feasibility Study: System Performance-statement of Constraints, Identification of Specific System Objectives, description of Outputs. Feasibility Study – Feasibility considerations, Steps in feasibility analysis. Feasibility Report. |
| **MID SEMESTER EXAMINATION (October 11, 2018 to October 17, 2018)** | | | | |
| Week 12 | October 20, 2018 | October 27, 2018 | | System Design: The Process of Design-Logical and Physical Design, Design methodologies: Structured design, Functional Decomposition. |
| Week 13 | October 29, 2018 | November 3, 2018 | | System Testing and Quality Assurance: Testing, System testing, Quality assurance and its goals in its system life cycle, Levels of quality assurance, Trends in testing. |
| Week 14 | November 5, 2018 | November 10, 2018 | | Implementation and Software Maintenance: Introduction, Conversion- Activity network for Conversion, File Conversion, User Training: Elements of user Training Post implementation review. |
| Week 15 | November 12, 2018 | November 17, 2018 | | Software Maintenance - Primary activities of a Maintenance  Procedure, Reducing Maintenance Costs. |
| Week 16 | November 19, 2018 | November 22, 2018 | | Hardware and Software Selection: Types of Software, Procedure for Hardware/Software selection: Major phases in selection, |
| Week 17 | November 26, 2018 | December 1, 2018 | | Evaluation and Validation, Vendor Selection, Post – Installation Review. Software selection- Criteria for Software Selection, the evaluation process. Revision of Whole Syllabus. |