**Post Graduate Government College for Girls, Sector-42, Chandigarh**

**Teaching Plan for Bachelors (Third and Fifth Semester) and Post Graduate (Third Semester)**

**Session (2020-2021)**

**Class: BCA 3rd sem**   **Name of the Teacher: Ms. Sheenam**

**Mr. Sudhir kumar Sharma**

**Subject: Information System Design and Implementation Paper: BCA-16-303**

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| **S. No** | **Dates** | **Topics to be Covered** |
| Week 1 | 03/08/2020 – 08/08/2020 | Systems Concepts and Information Systems Environment: Definition and characteristics of a system. Elements of a system Environment: Boundaries and interface. Types of systems: |
| Week 2 | 10/08/2020 – 14/08/2020 | Physical or Abstract Systems, Open and Closed System, Man - made information systems. The System Development Life Cycle: Introduction to various phases |
| Week 3 | 17/08/2020 – 22/08/2020 | Recognition of Need, Feasibility Study, Analysis, Design, Implementation, Post– Implementation and Maintenance. The Role of System Analyst: Skills of a System Analyst, various roles of the Analyst. |
| Week 4 | 24/08/2020 – 29/08/2020 | System Planning and the Initial Investigation: Bases for planning in system analysis ,Initial investigation, determining the users information requirements, Problem definition and Project Initiation, Background Analysis, Fact Finding, Fact Analysis, Determination of Feasibility. |
| Week 5 | 31/08/2020- 05/09/2020 | Information Gathering: Introduction, Information Gathering tools: Review of Literature, Procedures and forms. On -site observation. Interviews and questionnaires. |
| Week 6 | 07/09/2020- 12/09/2020 | 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 7 | 14/09/2020- 19/09/2020 | Feasibility Study: System Performance-statement of Constraints, Identification of Specific System Objectives, description of Outputs. |
| Week 8 | 21/09/2020- 26/09/2020 | Feasibility Study – Feasibility considerations, Steps in feasibility analysis. Feasibility Report. System Design: |
| Week 9 | 28/09/2020- 03/10/2020 | The Process of Design-Logical and Physical Design, Design methodologies: Structured design, Functional Decomposition |
| Week 10 | 05/10/2020- 10/10/2020 | System Testing and Quality Assurance: Testing, System testing, |
| Week 11 | 12/10/2020- 16/10/2020 | Quality assurance and its goals in its system life cycle, Levels of quality assurance, Trends in testing |
| Week 12 | 19/10/2020- 24/10/2020 | Implementation and Software Maintenance: Introduction, |
| Week 13 | 27/10/2020- 30/10/2020 | Conversion- Activity network for Conversion, File Conversion, User Training: Elements of user Training Post implementation review. |
| Week 14 | 03/11/2020- 07/11/2020 | Software Maintenance - Primary activities of a Maintenance Selection, the evaluation process. |
| Week 15 | 09/11/2020- 12/11/2020 | Procedure, Reducing Maintenance Costs. Hardware and Software Selection: Types of Software |
| Week 16 | 16/11/2020- 21/11/2020 | Procedure for Hardware/Software selection: Major phases in selection, Evaluation and Validation, Vendor Selection, Post – Installation Review. |
| Week 17 | 23/11/2020- 28/11/2020 | Software selection- Criteria for Software |

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