

SARASWATI MAHILA MAHAVIDHYALAYA, PALWAL

LESSON-PLAN

Class: BCA-1st Year

Semester: EVEN

Subject: Structured Systems Analysis and Design

Session: 2021-22

| Lecture Number | Topic |
|----------------|--|
| 1-20 | UNIT-1 |
| | Introduction to system, Definition and characteristics of a system, |
| | Elements of system, Types of system, |
| | System planning and initial investigation: |
| | Introduction, Bases for planning in system analysis, Sources of project requests, |
| | Initial investigation, Fact finding, Information gathering, information gathering tools, |
| | Fact analysis, Determination of feasibility. |
| 1-20 | UNIT-2 |
| | Structured analysis, Tools of structured analysis: DFD, Data dictionary, |
| | Flow charts, Gantt charts, decision tree, decision table, |
| | Structured English, Pros and cons of each tool, |
| | Feasibility study: Introduction, Objective, Types, |
| | Steps in feasibility analysis, Feasibility report, Oral presentation, |
| | Cost and benefit analysis: Identification of costs and benefits, |
| | Classification of costs and benefits, |
| | Methods of determining costs and benefits, |
| | Interpret results of analysis and take final action. |

| Lecture Number | Topic |
|-----------------------|---|
| 1-20 | UNIT-3 |
| | System Design: System design objective, |
| | Logical and physical design, Design Methodologies, structured design, |
| | Form-Driven methodology(IPO charts), structured walkthrough, |
| | Input/Output and form design: Input design, |
| | Objectives of input design, Output design, |
| | Objectives of output design, Form design, |
| | Classification of forms, requirements of form design, |
| | Types of forms, Layout considerations, Form control. |
| 1-15 | UNIT-4 |
| | System testing: Introduction, Objectives of testing, Test plan, |
| | Testing techniques/Types of System Tests, |
| | Quality assurance goals in system life cycle, |
| | System implementation, |
| | Process of implementation, System evaluation, |
| | System maintenance and its types, |
| | System documentation, Forms of documentation. |

Signature : Brij Kumari