

Scheme of work

Name of Faculty : Ms. Meenu

Discipline : BCA

Semester : II

Subject : **Structured System Analysis and Design(BCA – 125)**

Lesson Plan duration : 15 weeks (From January, 2020 to June, 2020)

Work load(Lecture)per week(in hours) - Lecture - 03

Week	Lecture Day	Theory Topic (including assignment/test)
1st	I	Introduction of Structured system analysis and design.
	II	System Concept: Definition, Characteristics, Elements of system
	III	Physical and abstract system
2nd	I	Open and closed system,
	II	Man-made information systems.
	III	System Development Life Cycle: Various phases of system development
3rd	I	Considerations for system planning and control for system success.
	II	Role of system analyst
	III	Revision of Unit 1
4th	I	System Planning: Bases for planning in system analysis
	II	Dimensions of Planning
	III	Initial Investigation: Determining user's requirements and analysis
5th	I	Fact finding process and techniques
	II	Tools of structured Analysis: Data Flow diagram
	III	Data dictionary
6th	I	IPO and HIPO charts
	II	Gantt charts, pseudo codes

	III	Flow charts, decision tree
7th	I	Decision tables
	II	Feasibility study: Technical, Operational
	III	Economic Feasibilities
8th	I	Cost/Benefit Analysis
	II	Data analysis cost and benefit analysis of a system
9th	III	Input/ Output and Form Design
	I	File Organization
	II	Database design
10th	III	Introduction to files and database
	I	File structures and organization
	II	Objectives of database design
11th	III	Logical view of data.
	I	Physical view of data.
	II	Revision of Unit 3
12th	III	System testing: Introduction
	I	Objectives of testing
	II	Test planning
13th	III	Testing techniques: White box testing
	I	Testing techniques: Black box testing and techniques
	II	Unit testing, integration testing
14th	III	System testing
	I	Goal of quality assurance, levels of quality
	II	Assurance System implementation
15 th	III	Software maintenance: primary activities in maintenance
	I	Reducing maintenance costs
	II	Revision of Unit 4

	III	Revision of Unit 4
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