

## LESSON PLAN

**Name of the Faculty:** Ms. Shefali Raina  
**Discipline:** BCA  
**Semester:** 2<sup>nd</sup>  
**Subject:** Structured Systems Analysis and Design  
**Subject Code:** BCA-17-109

**Lesson plan Duration:** 15 weeks (from January, 2018 to April, 2018)

**\*\*Work load (Lecture /Practical) per week (in hours):**

Week	Theory	
	Lecture day	Topic (including assignment/test)
1 <sup>st</sup>	1 <sup>st</sup>	Introduction to system
	2 <sup>nd</sup>	Definition and characteristics of a system
	3 <sup>rd</sup>	Elements of system
	4 <sup>th</sup>	Types of system
2 <sup>nd</sup>	5 <sup>th</sup>	System development life cycle
	6 <sup>th</sup>	Role of system analyst
	7 <sup>th</sup>	Analyst/user interface
	8 <sup>th</sup>	System planning and initial investigation: Introduction,
3 <sup>rd</sup>	9 <sup>th</sup>	Bases for planning in system analysis
	10 <sup>th</sup>	Sources of project requests
	11 <sup>th</sup>	Initial investigation
	12 <sup>th</sup>	Fact finding
4 <sup>th</sup>	13 <sup>th</sup>	Information gathering
	14 <sup>th</sup>	Information gathering tools

	15 <sup>th</sup>	Fact analysis
	16 <sup>th</sup>	Determination of feasibility
5 <sup>th</sup>	<b>UNIT-II</b>	
	17 <sup>st</sup>	Structured analysis
	18 <sup>rd</sup>	Tools of structured analysis: DFD
	19 <sup>th</sup>	Data dictionary
6 <sup>th</sup>	20 <sup>th</sup>	Flow charts
	21 <sup>st</sup>	Gantt charts
	22 <sup>nd</sup>	Decision tree
	23 <sup>rd</sup>	Decision table
7 <sup>th</sup>	24 <sup>th</sup>	Structured English
	25 <sup>th</sup>	Pros and cons of each tool
	26 <sup>th</sup>	Feasibility study: Introduction,
	27 <sup>th</sup>	Objective, Types
8 <sup>th</sup>	28 <sup>th</sup>	Steps in feasibility analysis
	29 <sup>th</sup>	Feasibility report
	30 <sup>th</sup>	Oral presentation
	31 <sup>st</sup>	Cost and benefit
9 <sup>th</sup>	32 <sup>nd</sup>	Analysis: Identification of costs and benefits
	33 <sup>rd</sup>	Classification of costs and benefits
	34 <sup>th</sup>	Methods of determining costs and benefits
	35 <sup>th</sup>	Interpret results of analysis and take final action
10 <sup>th</sup>	36 <sup>th</sup>	Assignment/Class Test
	<b>UNIT-III</b>	
	37 <sup>th</sup>	System Design: System design objective
	38 <sup>th</sup>	Logical and physical design
10 <sup>th</sup>	39 <sup>th</sup>	Design Methodologies, structured design
	40 <sup>th</sup>	Form-Driven methodology(IPO charts)

11 <sup>th</sup>	41 <sup>st</sup>	Structured walkthrough
	42 <sup>nd</sup>	Input/Output and form design: Input design
	43 <sup>rd</sup>	Objectives of input design
	44 <sup>th</sup>	Output design, Objectives of output design
12 <sup>th</sup>	45 <sup>th</sup>	Form design, Classification of forms
	46 <sup>th</sup>	Requirements of form design, Types of forms,
	47 <sup>th</sup>	Layout considerations
	48 <sup>th</sup>	Form control
13 <sup>th</sup>	<b>UNIT-IV</b>	
	49 <sup>th</sup>	System testing: Introduction
	50 <sup>th</sup>	Objectives of testing
	51 <sup>st</sup>	Test plan
14 <sup>th</sup>	52 <sup>nd</sup>	Testing
	53 <sup>rd</sup>	Techniques/Types of system tests
	54 <sup>th</sup>	Quality assurance goals in system life cycle
	55 <sup>th</sup>	System implementation
15 <sup>th</sup>	56 <sup>th</sup>	Process of implementation
	57 <sup>th</sup>	System evaluation
	58 <sup>nd</sup>	System maintenance and its types
	59 <sup>th</sup>	System documentation, Forms of documentation
	60 <sup>th</sup>	Assignment /Class Test