

C. U. Shah University, Wadhwan City

Faculty of Computer Science

Name of Program: Bachelor of Science (Information Technology) Semester : II W.e.f. June-2014

Teaching & Evaluation Scheme

Sr. No	Subject Code	Subject Name	Teaching Hours/Week					Evaluation Scheme/Semester							
			Th	Tu	Pr	Total	Credits	Theory			Practical				
								Sessional Exam		University Exam		Internal		Uni.	Total Marks
								Marks	Hrs	Marks	Hrs	Pr	TW	Pr	IVIGIRS
5	4CS02ISE1	SAD - SE	4	2	-	6	5	30	1.5	70	3	-	-	-	100

Objectives: This course designed to describe how to develop big projects / software from the scratch.

Pre-requisites: Students should be able to understand what software is.

Ch. No.	Chapter Name	Chapter Topics	Total Lectures
1.	Introduction	System, Sub-system, Types of Sub-System, Characteristic of System, Information System, Business System, System Analyst, Responsibilities of System Analyst, User, Types of User, SDLC, Categories of Information System: Transaction Processing System (TPS), Decision Support System (DSS), Management Information System (MIS)	9
2.	Requirement Analysis	Interview, Questionnaire, Record Review, Observation, Decision Tree, Decision Table, SRS Document	4
3.	StructuredAnalys is	Data Flow Diagram, Data Dictionary	2
4.	Input Design & Prototyping	Input Design Method, Types of Various Prototype Methods	5
5.	Design of Files	File, Sequential Method, Direct Method, Indexed Method	4
6.	Basics of Software Engineering	Bug, Error, Defect, Fault, Failure, Test Case, Test Plan, Test Script, Test Suite, Test Harness	5
7.	Software Engineering & Software Model	Software Engineering (Introduction), Sequential Model, RAD Model, Incremental, Prototype, Spiral	7
8.	Types of Software Testing	Testing (Introduction) Static Testing, Dynamic Testing	2
9.	Project Scheduling	Work Breakdown Structure, Gantt Chart , PERT Chat, Responsibility of Project	
10.	Project Management	4P's Principle, Quality Management, Risk Management	5
11.	Case Study	Project Definition, Feasibility Study, Designing DFD's , Coding, Validations and Testing, Reporting and Documentation	7
	Total::		55

Teaching Methodology:

Revision, Paper Solving, Seminar, Expert Talk, MCQ Quiz, Viva Test

Learning Outcomes:

After the completion of the syllabus students should be able to develop minor project.

Books Recommended:

- 1. Analysis & Design of Information System James A Senn ISBN:9780070140905
- 2. Software Engineering A practitioner's Approach Pressman ISBN:9780070701137

Reference Books:

- 1. Fundamental of Software Engineering Rajib Mall ISBN:9788120338197
- 2. Software Engineering Ian Sommerville Pearson ISBN: 9788131762165
- 3. System analysis and methods Whitten ISBN: 9780070634176
- 4. Modern System Analysis and Design Hoffer ISBN: 9788131761410
- 5. Software Engineering Concepts Richard Fairley ISBN: 9780007066278