

7350

Course: BCA
Sub Code: 4BCA2

Semester: IV
Subject Name: System Analysis and Design

Unit	Lectures	Practical's	Workshops	Demo	Field Visits	Total Hours	Remarks
UNIT - I System Concept: Definition, Characteristics, Elements of System, Physical and abstract system, Open and Closed system, ,System Development Life Cycle: Various phases of system development, Considerations for system planning and control for system success, System Planning.	8					8	
UNIT -II Initial Investigation: Determining Users Requirements and Analysis, Fact Finding Process and Techniques. Feasibility Study: Determination of Feasibility Study, Technical, Operational & Economic Feasibilities, Data Analysis, Cost and Benefit Analysis .	8					8	
UNIT -III Tools of Structured Analysis: Data Dictionary, Form, Gantt Charts, System Model, Pseudo Codes, Flow Chart System Flow Chart, Decision Tree, Decision Tables, Input/ Output and Form Design: Input and Output Form Design Methodologies, Menu, Screen Design, Layout Consideration.	8					8	
UNIT -IV User Manual, Programming Manual, Programming Specifications, Operator Manual. System Testing & Quality: System Testing and Quality Assurance, Software Maintenance. System Security: Data Security, Disaster/ Recovery Threat and Risk Analysis.	8					8	
UNIT -V Organization of EDP: Introduction. Job Responsibilities & duties of EDP Personnel's- EDP manager, System Analyst, Programmers, Operators etc. Essential features in EDP.	8					8	
TEXT & REFERENCE BOOKS: <ul style="list-style-type: none"> • <i>SYSTEM ANALYSIS & DESIGN BY V K JAM, DREAMTECH PRESS</i> • <i>MODERN SYSTEM ANALYSIS & DESIGN BY A HOFFER, F GEORGE, S VALACIAH LOW PRICED EDN. PEARSON EDUCATION.</i> • <i>INFORMATION T ECHNOLOGY & COMPUTER APPLICATIONS BY VK.KAPOOR SULTAN CHAND& SONS, NEW DELHI.</i> 							