

7709

Course : PGDCA  
Sub Code :2PGDCA1

Semester: II  
Subject Name : System Analysis and Design

Unit	Lectures	Practical's	Workshops	Demo	Field Visits	Total Hours	Remarks
<b>UNIT-I</b> 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	
<b>UNIT-II</b> Initial Investigation: Determining Users Requirements and Analysis, Fact Finding Process and Techniques. Feasibility Study: Determination of Feasibility Study, Technjcal, Operational & Economic Feasibilities, Data Analysis, Cost and Benefit Analysis.	8					8	
<b>UNIT-III</b> 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	
<b>UNIT-IV</b> 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	
<b>UNIT-V</b> Organization of EDP: Introduction. Job Responsibilities & duties of EDP Personnel's- EDP manager, System Analyst, Programmers, Operators etc. Essential features in EDP.	8					8	
<b>TEXT &amp; REFERENCE BOOKS:</b> <ul style="list-style-type: none"> <li>• <i>SYSTEM ANALYSIS &amp; DESIGN BY V K JAM, DREAMTECH PRESS</i></li> <li>• <i>MODERN SYSTEM ANALYSIS &amp; DESIGN BY A HOFFER, F GEORGE, S VALACIAH LOW PRICED EDN. PEARSON EDUCATION.</i></li> <li>• <i>INFORMATION T ECHNOLOGY &amp; COMPUTER APPLICATIONS BY VK.KAPOOR SULTAN CHAND&amp; SONS, NEW DELHI.</i></li> </ul>							