

**Elective – I - 3. System Analysis and Design**

**Unit I**

Introduction: Context of Systems Analysis and Design Methods - Information system Building Blocks - Strategies for Information Systems Development - Activities in Project Management

**Unit II**

Detailed Study of Phases of Systems Analysis - Techniques for Requirement Discovery - Modeling the System Requirements

**Unit III**

Detailed Study of Process Modeling - Feasibility Analysis and the System Proposal - Tasks in System Design

**Unit IV**

Application Architecture and Modeling - Input/Output Design & Prototyping - User Interface Design

**Unit V**

System Construction/Implementation - Operation & Support - Case Study - Employee Monthly Salary Bill Generation System

**Text Book:**

1. Whitten Jeffrey L. & Bentley Lonnie D., Systems Analysis and design methods, Seventh edition, Tata McGraw-Hill, 2007 Unit-1 (Chapters 1, 2, 3, 4) ; Unit-2 (Chapters 5, 6, 7); Unit-3 (Chapters 9, 11, 12) ; Unit-4 (Chapters 13, 15, 16, 17); Unit-5 (Chapters 19, 20) ]

**Reference(s)**

1. Kendall. K.E & Kendall. J.E, System analysis and design, Fifth edition, Prentice Hall of India/Pearson education, 2006