

**CORE COURSE – I – SYSTEM ANALYSIS AND DESIGN**

**Objective:** *To teach students about complete set of activities performed by a software developer (and the role of various stake holders) in constructing a real world software system*

**UNIT I**

Context of Systems Analysis and Design methods – Information System building block – 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 (only outline).

**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 and Support.- case study using “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 BOOK**

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