

**030122303: System Analysis & Design.****Theory Credits: 4****Lab Credits: 0****Objectives:**

Learn and demonstrate an understanding of systems analysis and design principles, concepts, and evaluation. Conduct an investigation; analyze the findings of the investigation; carry out a first-cut system design. Gain an appreciation for the scope of systems analysis and design in a business organization context.

<b>Sr. No.</b>	<b>Topic Name</b>	<b>No. Of Hrs</b>
01.	<u>Introduction To Information System</u>	10
	System concepts, Elements Of A System, Types Of Information System, Transaction Processing	
	Information System, Management Information System, Decision Support System, Role of MIS in organization, Information system for decision making	
02.	<u>System Development Life Cycle</u>	10
	Information Analysis, System Design, Procedure And Forms Development, Program Development, Testing, Conversion, Operation And Maintenance, Post Audit.	
03.	<u>Data Modeling</u>	07
	Entity-Relationship Diagrams, Normalization	
04.	<u>Structured Tools For System Design</u>	10
	Data Dictionary, Data Flow Diagram, Decision Tree, Decision Tables	
05.	<u>Input-Output Design</u>	09
	Input Validations, Input Media & Devices, Types Of Forms, Form Design, Screen Design, Menu Design, Reports.	
06.	<u>System Implementation</u>	07
	Conversion Methods, Testing Techniques, User Training, Documentation	
07.	<u>Case Studies</u>	07
	<b>Total</b>	<b>60</b>

**Reference Books:**

- a) Introduction System Analysis and Design by Vol 1 & 2 by Lee
- a) Systems Analysis and Design by Sen
- b) Systems Analysis and Design by Elias Awad