

**Name of the Subject:** SYSTEM ANALYSIS AND DESIGN  
**Course Code and Subject Code:** IS 342, SAD  
**Course Credit:** FULL (50 SESSIONS OF 60 MINUTES EACH)

**Course Description:**

The objective of the course is to provide the necessary background and experience in developing a System so that a student can enter in the professional community in the capacity of a system analyst or programmer. This course provides the student with a practical approach to systems analysis and design using a blend of traditional developments and current technologies. The student will learn how to apply established and evolving methodologies for the analysis, design, and development of an information system.

**Evaluation pattern:**

Quiz	15%
Assignments / Projects	10%
Class participation	05%
Mid Semester Examination	30%
End Term Examination	40%

**Pedagogy:**

- Lectures
- Case study
- Minor projects

<b>Session</b>	<b>Course Content</b>	<b>Percentile weightage</b>
1 - 6	<b>Foundations For Systems Development:</b> Modern approach to System analysis and design, system development life cycle, system development process, different approaches to improving development	15%
7 - 10	<b>Origins of software:</b>	10%

	Systems acquisition, managing IS projects, representing and scheduling project plans	
11 - 18	<b>System Planning:</b> Identifying and selecting systems development projects, assessing project feasibility, building and assessing the baseline project plan.	15%
19 - 26	<b>System Analysis:</b> Performing requirements determination, methods for requirements determination,	15%
27 - 34	<b>Structuring system process requirements:</b> Process modeling, Data flow diagramming	15%
35 - 42	<b>System Design:</b> Database design, designing forms and reports, designing interfaces and dialogues, designing distributed and internet systems	15%
43 - 50	<b>System Implementation and maintenance:</b> System implantation, software application testing, installation, documentation, training and supporting users, maintaining Information system, conducting systems maintenance	15%

**Text Book:**

1. System Analysis and Design, Hoffer, George, Valacich, PHI, 6th Edition

**Reference Books:**

1. Analysis, Design of Information System, Rajaraman, PHI Management
2. Analysis & Design of Information System by James A. Senn
3. System Analysis and Design by Elias M. Awad
4. System Analysis & Design Hand Book, V.K. Jain, Wiley Dreamtech