



Sub Committee - Specialization for Curriculum Development

Post Graduate/ Under Graduate

Course Name: Elements of System and software Development (ESSD)

(UG/PG): UG

Number of Credits: 2

Level: 2

Learning Objective(s): Software Industry is moving fast with use of technologies, software development approaches To prepare the student to meet the industry requirement in future, this introductory course will help the students
To learn the insights of Information system
To understand the system and software development phases
To understand the modern software development methodologies
To have preliminary knowledge on use of technologies in software development.

Learning Outcome(s):

At the end of this course, the student will be able to
To identify various software development approaches
To understand the use of phases of system and software development
To present the knowledge of various Information Systems and use of IT in Business domains

Pedagogy:

Lectures,
Discussions,
Self-study,
Flipped classroom

Pre-requisites: Basic knowledge on use of IT.

Course Outline

Sr. No.	Topics	Hours
1	Definition of system and software, Importance of System and software Practices, Characteristics of system, Organizational Process definition, System Model	5
2	Introduction to Information System, Types of Information Systems, use of IT in Business domains	5

3	Basics of System and software development phases and use of various artifacts in system and software development	10
4	Overview of software development methodologies, models and standards	10
	Total	30

Book Recommended:

1. Software Engineering by Pressman, TMH,7th Ed.
2. System Analysis and Design by Jalote,Narosa Pub, 3rd Ed
3. Software Engineering by Sommerville,Pearson,8th Ed
4. System Analysis & Design methods by Whiten, Bentley,TMH,7th Ed.
5. System Analysis & Design by Elias Awad, Galgotia Pub,
6. Analysis & Design of Information System James Senn, TMH, 2nd Ed.

Research Papers/Articles recommended for reading:

As per the teachers' preference with respect to the recent trends in the Industry

Suggested Evaluation Methods:

Quiz,
Assignments,
Written exam

Parallel/Similar courses the existing curriculum:

S.No.	Name of the course	Institute where it was offered

Name of Member	Shubhashri Waghmare				
Designation	Asst.Professor				
Org. / Inst.	SICSR				
Signature					

Name of the Expert:

Signature:

Date: