

LESSION PLAN

Discipline: IT	Semester:5th		Name of the Teaching Faculty:D.SUSMITA
Subject: Software Engineering	No. Of Days/per week class allotted: 4 periods per week (MON,TUE, THU, FRI)	NO OF PERIODS	Semester: From Date: 01-07-2024 To Date: 08-11-2024 Number of weeks-19
	CLASS DAY		THEORY TOPICS
1 st	01.07.2024	1	Syllabus discussion 1.0 Introduction to Software Engineering ,
	02.07.2024	1	Program vs. Software product,
	04.07.2024	1	1.1 Definition, scope, importance
	05.07.2024	1	1.2 Emergence of Software Engineering.
2 nd	08.07.2024	1	1.3 Computer Systems Engineering 1.4 Software Life Cycle Models
	09.07.2024	1	1.4.1 Classical Water fall model 1.4.2 Iterative Water fall model
	11.07.2024	1	1.4.3 Prototyping model
	12.07.2024	1	1.4.4 Evolutionary model
3 rd	15.07.2024	1	1.4.5 Spiral model
	16.07.2024	1	2.0 Software Project Management
	18.07.2024	1	2.1 Responsibility of Project Manager
	19.07.2024	1	2.2 Project Planning
4 TH	22.07.2024	1	2.3 Metrics for Project size estimation(LOC and FP)
	23.07.2024	1	2.4 Project Estimation Techniques
	25.07.2024	1	2.5 COCOMO Models, Basic, Intermediate and complete
	26.07.2024	1	2.6 Scheduling
5 TH	29.07.2024	1	Assignment-1 cum Doubt clearing
	30.07.2024	1	2.7 Organization and Team structure
	1.08.2024	1	2.8 Staffing 2.9 Risk Management
	02.08.2024	1	2.10 Configuration Management
6 TH	05.08.2024	1	3.0 Requirement Analysis and specification 3.1 Requirements gathering and analysis
	06.08.2024	1	3.2 Software Requirements Specification
	08.08.2024	1	3.2.1 Contents of SRS 3.2.2 Characteristics of Good SRS
	09.08.2024	1	3.2.3 Organization of SRS

7 TH	12.08.2024	1	3.2.4 Techniques for representing complexing
	13.08.2024	1	CLASS TEST-1
	16.08.2024	1	4.0 Software Design 4.1 What is a Good S/W design
8 TH	20.08.2024	1	4.2 Cohesion and coupling
	22.08.2024	1	4.3 Neat arrangement
	23.08.2024	1	4.4 S/W Design approaches
9 TH	27.08.2024	1	4.5 Structured analysis
	29.08.2024	1	4.6 Data Flow Diagrams
	30.08.2024	1	4.7 Symbols used in DFD
10 TH	02.09.2024	1	4.8 Designing DFD
	03.09.2024	1	4.9 Developing DFD model of a system
	05.09.2024	1	4.10 Shortcomings of DFD 4.11 Structured Design
	06.09.2024	1	4.12 Principles of transformation of DFD to Structure Chart
11 TH	09.09.2024	1	4.13 Transform analysis and Transaction Analysis
	10.09.2024	1	Internal assessment examination
	12.09.2024	1	4.14 Design Review
	13.09.2024	1	5.0 User Interface Design
12 TH	17.09.2024	1	5.1 Characteristics of Good Interface
	19.09.2024	1	5.2 Basic concepts of UID
	20.09.2024	1	5.3 Types of User interfaces
13 TH	23.09.2024	1	5.4 Components based GUI development
	24.09.2024	1	6.0 Software Coding & Testing 6.1 Coding 6.2. Code Review
	26.09.2024	1	Assignment-2 cum Doubt clearing
	27.09.2024	1	6.2.1 Code walk through.

14 TH	30.09.2024	1	6.22 Code inspections and software Documentation
	01.10.2024	1	6.3 Testing 6.4 Unit testing
	03.10.2024	1	6.5 Black Box Testing
	04.10.2024	1	6.6 Equivalence class partitioning and boundary value analysis
15 TH	07.10.2024 to 12.10.2024		HOLIDAYS
16 TH	14.10.2024	1	6.7 White Box Testing
	15.10.2024	1	6.8 Different White Box methodologies statement coverage branch coverage, condition coverage path coverage, cyclomatic complexity data flow based testing and mutation testing
	17.10.2024	1	6.9 Debugging approaches 6.10 Debugging guidelines
	18.10.2024	1	6.11 Integration Testing
17 TH	21.10.2024	1	6.12 Phased and incremental integration testing
	22.10.2024	1	6.13 System testing alphas beta and acceptance testing
	24.10.2024	1	6.14 Performance Testing, Error seeding
	25.10.2024	1	6.15 General issues associated with testing
18 TH	28.10.2024	1	CLASS TEST-2
	29.10.2024	1	7.1 software reliability
	01.11.2024	1	7.2 Different reliability metrics
19 th	04.11.2024	1	7.3 reliability growth modelling 7.4 software quality
	05.11.2024	1	7.5 software quality management
	07.11.2024	1	Doubt clearing
	08.11.2024	1	Previous year question discussion