

LESSON PLAN			
Discipline: IT	Semester:5th		Name of the Teaching Faculty:MANASWINI RAY
Subject: Software Engineering	No. Of Days/per week class allotted: 4 periods per week (MON,TUE,WED, THU)	NO OF PERIODS	Semester: From Date: 01-08-2023 To Date: 30-11-2023 Number of weeks-18
	CLASS DAY		THEORY TOPICS
1 st	01.08.2023	1	1.0 Introduction to Software Engineering , Program vs. Software product,
	02.08.2023	1	1.1 Definition,scope,importance
	03.08.2023	1	1.2 Emergence of Software Engineering.
2 nd	07.08.2023	1	1.3 Computer Systems Engineering 1.4 Software Life Cycle Models
	08.08.2023	1	1.4.1 Classical Water fall model
	09.08.2023	1	1.4.2 Iterative Water fall model
	10.08.2023	1	1.4.3 Prototyping model 1.4.4 Evolutionary model 1.4.5 Spiral model
3 rd	14.08.2023	1	2.0 Software Project Management
	16.08.2023	1	2.1 Responsibility of Project Manager
	17.08.2023	1	2.2 Project Planning
4 TH	21.08.2023	1	2.3 Metrics for Project size estimation(LOC and FP)
	22.08.2023	1	2.4 Project Estimation Techniques
	23.08.2023	1	2.5 COCOMO Models, Basic, Intermediate and complete
	24.08.2023	1	2.6 Scheduling Assignment-1 cum Doubt clearing
5 TH	28.08.2023	1	2.7 Organization and Team structure
	29.08.2023	1	2.8 Staffing 2.9 Risk Management
	31.08.2023	1	2.10 Configuration Management
6 TH	04.09.2023	1	3.0 Requirement Analysis and specification 3.1 Requirements gathering and analysis
	05.09.2023	1	3.2 Software Requirements Specification
	07.09.2023	1	CLASS TEST-1

7 TH	11.09.2023	1	3.2.1 Contents of SRS 3.2.2 Characteristics of Good SRS
	12.09.2023	1	3.2.3 Organization of SRS 3.2.4 Techniques for representing complexing logic
	13.09.2023	1	4.0 Software Design 4.1 What is a Good S/W design
	14.09.2023	1	4.2 Cohesion and coupling 4.3 Neat arrangement
8 TH	18.09.2023	1	4.4 S/W Design approaches 4.5 Structured analysis
	21.09.2023	1	4.6 Data Flow Diagrams 4.7 Symbols used in DFD
9 TH	25.09.2023	1	4.8 Designing DFD
	26.09.2023	1	4.9 Developing DFD model of a system 4.10 Shortcomings of DFD
	27.09.2023	1	4.12 Principles of transformation of DFD to Structure Chart
	28.09.2023	1	4.13 Transform analysis and Transaction Analysis
10 TH	03.10.2023	1	4.14 Design Review
	04.10.2023	1	5.0 User Interface Design
	05.10.2023	1	5.1 Characteristics of Good Interface
11 TH	09.10.2023	1	Internal assessment examination
	10.10.2023	1	Internal assessment examination
	11.10.2023	1	5.2 Basic concepts of UID
	12.10.2023	1	5.3 Types of User interfaces
12 TH	16.10.2023	1	5.4 Components based GUI development
	17.10.2023	1	6.0 Software Coding & Testing
	18.10.2023	1	6.1 Coding
	19.10.2023	1	6.2. Code Review Assignment-2 cum Doubt clearing
13 TH	FROM 21.10.2023 TO 28.10.2023		HOLIDAYS

14 TH	30.10.2023	1	6.2.1 Code walk through.
	31.10.2023	1	6.2.2 Code inspections and software Documentation
	01.11.2023	1	6.3 Testing
	02.11.2023	1	6.4 Unit testing
15 TH	06.11.2023	1	6.5 Black Box Testing
	07.11.2023	1	6.6 Equivalence class partitioning and boundary value analysis
	08.11.2023	1	6.7 White Box Testing
	09.11.2023	1	6.8 Different White Box methodologies statement coverage branch coverage, condition coverage
16 TH	13.11.2023	1	path coverage, cyclomatic complexity data flow based testing and mutation testing
	14.11.2023	1	6.9 Debugging approaches 6.10 Debugging guidelines
	15.11.2023	1	6.11 Integration Testing 6.12 Phased and incremental integration testing
	16.11.2023	1	6.13 System testing alphas beta and acceptance testing
17 TH	20.11.2023	1	6.14 Performance Testing, Error seeding 6.15 General issues associated with testing
	21.11.2023	1	CLASS TEST-2
	22.11.2023	1	7.1 software reliability
	23.11.2023	1	7.2 Different reliability metrics
18 TH	28.11.2023	1	7.3 reliability growth modelling
	29.11.2023	1	7.4 software quality
	30.11.2023	1	7.5 software quality management
19 TH	04.12.2023		7.5 software quality management
	05.12.2023		Doubt clearing
	06.12.2023		CLASS TEST-2
	07.12.2023		Previous year question discussion