

# LESSON PLAN

Discipline: <b>Cse</b>	Semester: <b>5th</b>	Name of the Teaching Faculty: <b>Debasis Nanda</b>	
Subject: <b>Software Engineering</b>	No. Of Days/per week class allotted: <b>4 periods per week</b>	NO OF PERIODS	Semester: <b>From Date:15-09-2022 To Date22-12-2022</b> <b>Number of weeks-14</b>
	<b>CLASS DAY</b>		<b>THEORY TOPICS</b>
1st	15.9.22	1	Syllabus discussion 1.0 Introduction to Software Engineering , Program vs. Software product,
	16.9.22	1	1.1 Definition,scope,importance
2nd	19.9.22	1	1.4 Software Life Cycle Models
	20.9.22		1.4.1 Classical Water fall model
	21.9.22	1	1.4.2 Iterative Water fall model
	22.9.22	1	1.4.3Prototyping model
3rd	26.9.22	1	1.4.4 Evolutionary model
	27.9.2022	1	1.4.5Spiral model
	28.9.2022	1	2.0 Software Project Management 2.1 Responsibility of Project Manager
	29.9.2022	1	2.2 Project Planning
4TH	PUJA HOLIDAY		
5TH	10.10.2022	1	2.3 Metrics for Project size estimation(LOC and FP)
	11.10.2022	1	2.4 Project Estimation Techniques
	12.10.2022	1	2.5 COCOMO Models, Basic,
	13.10.2022	1	Intermediate and complete
6TH	17.10.2022	1	2.6 Scheduling /CLASS TEST 1(20 MINS)
	18.10.2022	1	2.7 Organization and Team structure
	19.10.2022	1	2.8 Staffing 2.9 Risk Management 2.10 Configuration Management
	20.10.2022	1	3.0 Requirement Analysis and specification
7TH	25.10.2022	1	3.1 Requirements gathering and analysis
	26.10.2022	1	3.2 Software Requirements Specification 3.2.1 Contents of SRS 3.2.2 Characteristics of Good SRS
	27.10.2022	1	3.2.3 Organization of SRS 3.2.4 Techniques for representing complex logic 4.0 Software Design 4.1 What is a Good S/W design

8TH	31.10.2022	1	4.2Cohesion and coupling 4.3 Neat arrangement
	1.11.2022	1	4.4S/W Design approaches
	3.11.2022	1	4.5Structured analysis
9TH	7.11.2022	1	4.6Data Flow Diagrams/ CLASS TEST2(20 MINS)
	9.11.2022	1	4.7Symbols used in DFD4.8Designing DFD
	10.11.2022	1	4.9Developing DFD model of a system 4.10Shortcomings of DFD
10TH	14.11.2022	1	4.11 Structured design
	15.11.2022	1	4.12Principles of transformation of DFD to Structure Chart
	16.11.2022	1	<b>Internal assessment examination</b>
	17.11.2022	1	4.13Transform analysis and Transaction Analysis
11TH	21.11.2022	1	4.14 Design Review
	22.11.2022	1	5.0 User Interface Design 5.1 Characteristics of Good Interface
	23.11.2022	1	5.2 Basic concepts of UID
	24.11.2022	1	5.3Types of User interfaces
12TH	28.11.2022	1	5.4 Components based GUI development
	29.11.2022	1	6.0 Software Coding & Testing
	30.11.2022	1	6.1 Coding 6.2. Code Review./CLASS TEST 3(20 MINS)
	1.12.2022	1	6.2.1 Code walk through. 6.2.2 Code inspections and software Documentation 6.3 Testing
13TH	5.12.2022	1	6.4Unit testing 6.5 Black Box Testing
	6.12.2022	1	6.6 Equivalence class partitioning and boundary value analysis 6.7 White Box Testing
	7.12.2022	1	6.8Different White Box methodologies statement coverage branch coverage, condition coverage, path coverage, cyclomatic complexity data flow based testing and mutation testing
	8.12.2022	1	6.9Debugging approaches 6.10Debugging guidelines

14TH	12.12.2022	1	6.11 Integration Testing 6.12 Phased and incremental integration testing
	13.12.2022	1	6.13 System testing alphas beta and acceptance testing
	14.12.2022	1	6.14 Performance Testing, Error seeding
	15.12.2022	1	6.15 General issues associated with testing
15TH	19.12.2022	1	7.1 software reliability
	20.12.2022	1	7.2 DIFFERENT Reliability matrices
	21.12.2022	1	7.3 reliability growth modelling
	22.12.2022	1	7.4 software quality 7.5 software quality management