

SWAMI VIVEKANANDA SCHOOL OF ENGINEERING & TECHNOLOGY

LESSON PLAN (WINTER 2021)

Discipline- Computer Science & Engineering	Semester- 5th	Faculty Name- JYOTIRMAYEE MANSINGH
Subject- Software Engineering	No of days/ per week class allotted-4	Semester from date- 01.08.2023 to 30.11.2023 No of weeks-19
Week	Class day	Theory Topics
AUG 1ST	02.08.2023	Introduction to Software Engineering Program vs Product
	04.08.2023	Emergence of Software Engineering, Computer Systems Engineering
	05.08.2023	Software Life Cycle Models
	07.08.2023	Classical Water fall model
AUG 2ND	08.08.2023	Iterative Water fall model
	09.08.2023	Prototyping model, Evolutionary model
	08.11.2023	Spiral model
	12.08.2023	Doubt Clearing Class
AUG 3RD	14.08.2023	Class Test
	16.08.2023	Software Project Management , Responsibility of Project Manager, Project
	18.08.2023	Metrics for Project size estimation (LOC and FP)
AUG 4TH	21.08.2023	Project Estimation Techniques
	22.08.2023	COCOMO Models, Basic COCOMO Model
	25.08.2023	Intermediate COCOMO Model
AUG 5TH	28.08.2023	Complete COCOMO Model
	30.08.2023	Scheduling
SEP 1ST	01.09.2023	Organization and Team structure, Staffing
	02.09.2023	Risk Management , Configuration Management
SEP 2ND	04.09.2023	Doubt Clearing Class
	06.09.2023	Class Test
	08.09.2023	Requirements gathering and analysis
	09.09.2023	Software Requirements Specification
	11.09.2023	Contents of SRS, Characteristics of Good SRS
SEP 3RD	12.09.2023	Organization of SRS
	13.09.2023	Techniques for representing complexing logic
	15.09.2023	Doubt Clearing Class
	16.09.2023	Class Test
SEP 4TH	20.09.2023	What is a Good S/W design
	22.09.2023	Cohesion
	23.09.2023	Coupling
SEP 5TH	26.09.2023	Neat arrangement, S/W Design approaches
	27.09.2023	Structured analysis
	30.09.2023	Data Flow Diagrams , Symbols used in DFD
OCT 1ST	03.10.2023	Designing DFD, Developing DFD model of a system
	04.10.2023	Shortcomings of DFD, Structured design
	06.10.2023	Principles of transformation of DFD to Structure Chart
	07.10.2023	Transform analysis and Transaction Analysis
OCT 2ND	09.10.2023	Design Review
	10.10.2023	Doubt Clearing Class
	13.10.2023	Class Test
	14.10.2023	Basic concepts of UID
OCT 3RD	16.10.2023	Characteristics of Good Interface
	17.10.2023	Types of User interfaces
	18.10.2023	Components based GUI development
	20.10.2023	Doubt Clearing Class

OCT 5TH	30.10.2023	Class Test
	31.10.2023	Introduction to Software Coding & Testing
NOV 1ST	01.11.2023	Code Review Code walk through
	03.11.2023	Code inspections and software Documentation
NOV 2ND	06.11.2023	Testing, Unit testing
	07.11.2023	Black Box Testing, Equivalence class partitioning and boundary value
	08.11.2023	White Box Testing, Different White Box methodologies statement coverage,
	11.11.2023	Condition coverage, path coverage, Cyclomatic complexity data flow based
NOV 3RD	13.11.2023	Debugging approaches, Debugging guidelines
	15.11.2023	Integration Testing, Phased and incremental integration testing
	17.11.2023	System testing alphas beta and acceptance testing, Performance
NOV 4TH	20.11.2023	Doubt Clearing Class
	21.11.2023	Class Test
	22.11.2023	Introduction to Software Reliability, Different reliability metrics
NOV 5TH	24.11.2023	Reliability growth modeling
	27.11.2023	Software quality, Software Quality Management System
	28.11.2023	Doubt Clearing Class
	29.11.2023	Class Test

Total no. of Classes: 63
No. of Theory Classes: 49
No. of Tutorial Classes: 5
No. of Digital Classes: 4
No. of PPT Classes: 3

H.O.D.

DEAN (ACADEMICS)

PRINCIPAL