



SWAMI VIVEKANANDA SCHOOL OF ENGINEERING & TECHNOLOGY

LESSON PLAN (WINTER 2022)

Discipline- Computer Science & Engineering	Semester- 5th	Faculty Name- DILIP KUMAR LENKA
Subject- Software Engineering	No of days/ per week class allotted-5	Semester from date- 06.09.2022 to 21.01.2023 No of weeks-20
Week	Class day	Theory Topics
SEP 2ND	06.09.2022	Introduction to Software Engineering Program vs Product
	07.09.2022	Emergence of Software Engineering, Computer Systems Engineering
	08.09.2022	Software Life Cycle Models
	09.09.2022	Classical Water fall model
	10.09.2022	Iterative Water fall model
SEP 3RD	12.09.2022	Prototyping model, Evolutionary model
	13.09.2022	Spiral model
	14.09.2022	Doubt Clearing Class
	15.09.2022	Class Test
	16.09.2022	Software Project Management , Responsibility of Project Manager, Project
SEP 4TH	19.09.2022	Metrics for Project size estimation (LOC and FP)
	20.09.2022	Project Estimation Techniques
	21.09.2022	COCOMO Models, Basic COCOMO Model
	22.09.2022	Intermediate COCOMO Model
	23.09.2022	Complete COCOMO Model
SEP 5TH	24.09.2022	Scheduling
	26.09.2022	Organization and Team structure, Staffing
	27.09.2022	Organization and Team structure, Staffing
	28.09.2022	Risk Management , Configuration Management
	29.09.2022	Doubt Clearing Class
OCT 2ND	30.09.2022	Class Test
	06.10.2022	Requirements gathering and analysis
OCT 3RD	07.10.2022	Requirements gathering and analysis
	10.10.2022	Software Requirements Specification
	11.10.2022	Software Requirements Specification
	12.10.2022	Contents of SRS, Characteristics of Good SRS
	13.10.2022	Contents of SRS, Characteristics of Good SRS
OCT 4TH	14.10.2022	Organization of SRS
	17.10.2022	Organization of SRS
	18.10.2022	Techniques for representing complexing logic
	19.10.2022	Doubt Clearing Class
	20.10.2022	Class Test
OCT 5TH	21.10.2022	What is a Good S/W design
	24.10.2022	Cohesion
	26.10.2022	Coupling
	27.10.2022	Coupling
NOV 1ST	28.10.2022	Neat arrangement, S/W Design approaches
	01.11.2022	Structured analysis
	02.11.2022	Data Flow Diagrams , Symbols used in DFD
	03.11.2022	Data Flow Diagrams , Symbols used in DFD
NOV 2ND	04.11.2022	Designing DFD, Developing DFD model of a system
	07.11.2022	Shortcomings of DFD, Structured design
	08.11.2022	Principles of transformation of DFD to Structure Chart
	09.11.2022	Principles of transformation of DFD to Structure Chart
	10.11.2022	Transform analysis and Transaction Analysis
	11.11.2022	Design Review

NOV 3RD	14.11.2022	Doubt Clearing Class
	15.11.2022	Class Test
	16.11.2022	Basic concepts of UID
	17.11.2022	Basic concepts of UID
	18.11.2022	Characteristics of Good Interface
NOV 4TH	21.11.2022	Types of User interfaces
	22.11.2022	Components based GUI development
	23.11.2022	Doubt Clearing Class
	24.11.2022	Class Test
	25.11.2022	Introduction to Software Coding & Testing
NOV 5TH	28.11.2022	Introduction to Software Coding & Testing
	29.11.2022	Code Review Code walk through
	30.11.2022	Code Review Code walk through
DEC 1ST	01.12.2022	Code inspections and software Documentation
	02.12.2022	Code inspections and software Documentation
DEC 2ND	05.12.2022	Testing, Unit testing
	06.12.2022	Testing, Unit testing
	07.12.2022	Black Box Testing, Equivalence class partitioning and boundary value
	08.12.2022	White Box Testing, Different White Box methodologies statement coverage,
	09.12.2022	White Box Testing, Different White Box methodologies statement coverage,
DEC 3RD	12.12.2022	Condition coverage, path coverage, Cyclomatic complexity data flow based
	13.12.2022	Condition coverage, path coverage, Cyclomatic complexity data flow based
	14.12.2022	Debugging approaches, Debugging guidelines
	15.12.2022	Debugging approaches, Debugging guidelines
	16.12.2022	White Box Testing, Different White Box methodologies statement coverage,
DEC 4TH	17.12.2022	White Box Testing, Different White Box methodologies statement coverage,
	19.12.2022	System testing alphas beta and acceptance testing, Performance
	20.12.2022	System testing alphas beta and acceptance testing, Performance
	21.12.2022	System testing alphas beta and acceptance testing, Performance
	22.12.2022	Doubt Clearing Class
JAN 1ST	02.01.2023	Class Test
	03.01.2023	Introduction to Software Reliability, Different reliability metrics
	04.01.2023	Introduction to Software Reliability, Different reliability metrics
JAN 2ND	10.01.2023	Reliability growth modeling
	11.01.2023	Reliability growth modeling
	12.01.2023	Software quality, Software Quality Management System
JAN 3RD	16.01.2023	Software quality, Software Quality Management System
	19.01.2023	Doubt Clearing Class

Total no. of Classes: 84
 No. of Theory Classes: 69
 No. of Tutorial Classes: 5
 No. of Digital Classes: 5
 No. of PPT Classes: 5


 H.O.D.

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Computer Science & Engineering
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