

LESSON PLAN(WINTER-2020) SWAMI VIVEKANANDA SCHOOL OF ENGG & TECH, BBSR		
Discipline- Computer Science & Engineering	Semester-5th	Name of teaching faculty- Bharati Nayak
Subject-Software Engineering	No. of days/per week class allotted-5	Semester from date- 01/09/2020 to 15/12/2020 No of weeks-15
Week	Class day	Theory Topics
SEP 1ST	9/1/2020	Introduction to Software Engineering Program vs Product
	9/2/2020	Emergence of Software Engineering
	9/3/2020	Computer Systems Engineering
	9/4/2020	Software Life Cycle Models
SEP 2ND	9/7/2020	Classical Water fall model
	9/8/2020	Iterative Water fall model
	9/9/2020	Prototyping model, Evolutionary model
	9/10/2020	Spiral model
	9/11/2020	Doubt Clearing Class
SEP 3RD	9/14/2020	Introduction to Software Project Management , Responsibility of Project Manager
	9/15/2020	Project Planning
	9/16/2020	Metrics for Project size estimation (LOC and FP)
	9/17/2020	Project Estimation Techniques
	9/18/2020	COCOMO Models, Basic, Intermediate and complete
SEP 4TH	9/21/2020	COCOMO Models, Basic, Intermediate and complete
	9/22/2020	COCOMO Models, Basic, Intermediate and complete
	9/23/2020	Scheduling
	9/24/2020	Organization and Team structure
	9/25/2020	Staffing
OCT 1ST	9/28/2020	Risk Management , Configuration Management
	9/29/2020	Doubt Clearing Class
	9/30/2020	Requirements gathering and analysis
	10/1/2020	Requirements analysis
OCT 2ND	10/5/2020	Software Requirements Specification
	10/6/2020	Contents of SRS
	10/7/2020	Characteristics of Good SRS
	10/8/2020	Organization of SRS
	10/9/2020	Techniques for representing complexing logic
OCT 3RD	10/12/2020	Doubt Clearing Class
	10/13/2020	What is a Good S/W design
	10/14/2020	Cohesion and coupling
	10/15/2020	Neat arrangement
	10/16/2020	S/W Design approaches Structured analysis
OCT 4TH	10/19/2020	Data Flow Diagrams , Symbols used in DFD
	10/20/2020	Designing DFD, Developing DFD model of a system
	10/21/2020	Shortcomings of DFD
	11/2/2020	Structured design

NOV 1ST	11/3/2020	Principles of transformation of DFD to Structure Chart
	11/4/2020	Transform analysis and Transaction Analysis
	11/5/2020	Design Review
	11/6/2020	Doubt Clearing Class
NOV 2ND	11/9/2020	Characteristics of Good Interface
	11/10/2020	Basic concepts of UID
	11/11/2020	Types of User interfaces
	11/12/2020	Components based GUI development
	11/13/2020	Doubt Clearing Class
NOV 3RD	11/16/2020	Introduction to Software Coding & Testing
	11/17/2020	Code Review Code walk through
	11/18/2020	Code inspections and software Documentation
	11/19/2020	Testing, Unit testing
	11/20/2020	Black Box Testing
NOV 4TH	10/23/2020	Equivalence class partitioning and boundary value analysis
	10/24/2020	White Box Testing
	10/25/2020	Different White Box methodologies statement coverage, branch coverage
	10/26/2020	Condition coverage, path coverage
	10/27/2020	Cyclomatic complexity data flow based testing and mutation testing
DEC 1ST	10/30/2020	Debugging approaches, Debugging guidelines
	12/1/2020	Integration Testing, Phased and incremental integration testing
	12/2/2020	System testing alphas beta and acceptance testing
	12/3/2020	Performance Testing, Error seeding
	12/4/2020	General issues associated with testing
DEC 2ND	12/7/2020	Doubt Clearing Class
	12/8/2020	Introduction to Software Reliability
	12/9/2020	Different reliability metrics
	12/10/2020	Reliability growth modeling
	12/11/2020	Software quality
DEC 3RD	12/14/2020	Software Quality Management System
	12/15/2020	Doubt Clearing Class