PNS SCHOOL OF ENGINEERING & TECHNOLOGY, MARSHAGHAI
DEPARTMENT OF COMPUTER SCIENCE ENGINEERING
LESSON PLAN

DISCIPLINE : CSE SEMESTER: 5th SUBJECT: Software Engineering NO.OF DAYS/WEEK CLASS ALLOTED: 05		NAME OF THE TEACHING FACULTY: Mr Biswaranjan Swain
		SEMESTER FROM DATE: 15/09/2022 TO DATE: 22/12/2022 NO OF WEEKS: 14
Week	**Class Day**	**Theory Topics**
1st	15.09.2022	Introduction to SE
2nd	19.09.2022	Software life cycle model, Classical waterfall model
	20.09.2022	Classical water fall model
	21.09.2022	Iterative water fall model
	22.09.2022	Prototyping model
	24.09.2022	Evolutionary model
3rd	26.09.2022	Spiral model
	27.09.2022	Responsibility of Project Manager
	28.09.2022	Project Planning
	29.09.2022	Metrics for Project size estimation(LOC and FP)
4th	10.10.2022	Project Estimation Techniques
	11.10.2022	COCOMO Models, Basic, Intermediate and complete
	12.10.2022	Scheduling
	13.10.2022	Organization and Team structure
	15.10.2022	Staffing
5th	18.10.2022	Risk Management
	19.10.2022	Configuration Management
	20.10.2022	Requirements gathering and analysis
	22.10.2022	Contents of SRS
6th	26.10.2022	Characteristics of Good SRS
	27.10.2022	Organization of SRS
	29.10.2022	Techniques for representing complex logic
7th	31.10.2022	What is a Good S/W design, Cohesion
	01.11.2022	Coupling, Neat arrangement
	02.11.2022	S/W Design approaches, Structured analysis , Review
	03.11.2022	Data Flow Diagrams, Symbols used in DFD
	05.11.2022	Designing DFD

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8th	09.11.2022	Developing DFD model of a system
	10.11.2022	Shortcomings of DFD, Structured design
	12.11.2022	Principles of transformation of DFD to Structure Chart
9th	14.11.2022	Transform analysis and Transaction Analysis, Design Review
	15.11.2022	Chapter review
	17.11.2022	Rules for UID
	19.11.2022	Interface design model, Interface design process and activities
10th	21.11.2022	Types of Interface
	22.11.2022	Main aspects of Graphical UI, Text based interface
	23.11.2022	Components GUI development
	24.11.2022	Review
	26.11.2022	Coding standards and Guidelines
11th	28.11.2022	Code Review
	29.11.2022	Testing, Unit testing
	30.11.2022	Black-Box testing, Equivalence class partitioning and boundary value analysis
	01.12.2022	White-box testing, Statement coverage
	03.12.2022	Branch coverage, Condition coverage, Cyclomatic complexity
12th	05.12.2022	Debugging approaches, Debugging guidelines
	06.12.2022	Integration testing
	07.12.2022	System testing
	08.12.2022	Need for Stress testing and Error seeding
	10.12.2022	Issues associated with testing
13th	12.12.2022	Review
	13.12.2022	Importance of Reliability, H/w and S/w reliability
	14.12.2022	Different reliability metrices
	15.12.2022	Reliability growth modelling
	17.12.2022	Software quality, Evolution of S/w quality management system
14th	19.12.2022	Importance, Requirement, and Procedure to gain ISO 9000 Certification
	20.12.2022	Procedure to gain ISO9000 Certification
	21.12.2022	SEI Capability Maturity Model (CMM)
	22.12.2022	Review and doubt clear

Signature of the HoD

Signature of the Teacher