Lesson Plan

Subject – Software Engineering

Teacher – Surender Choudhary

S.No	Working Week	Content to be
3.110	Working Week	covered
1	1 st	Concept of
		systems: Types of
		systems: open,
		closed, static and
		dynamic systems.
		Introduction,
		Programmes v/s
		Software Products
2	2 nd & 3 rd	Emergence of
		Software
		Engineering- Early
		Computer
		Programming,
		High-level
		Language
		Programming,
		Control flow based
		Design, Data
		Structure Oriented
		Design, Object
		Oriented Design
3	4 th	Requirement of
		Life Cycle Model,
		Classic Waterfall
		Model,
		Prototyping Model
4	5 th	Evolutionary
		Model, Spiral
		Model,
		introduction to
		angle
		methodology.
		Comparison of
		different Life Cycle
		Models
5	6 th	Responsibilities of
		Software Project
		Manager Metrics
		for Project Size
		Estimation- LOC
		(Lines of Code),
		Function Point
		Metric

6	7 th	Project estimation
		Techniques- Using
		COCOMO Model.
7	8 th	Requirement
		gathering and
		Analysis, Software
		Requirement
		Specifications(SRS),
		Characteristics of
		good SRS
8	9 th	Characteristics and
		features of good
		Software Design
		Cohesion and
		Coupling
9	10 th	Software design
		Approaches-
		Function Oriented
		Design (Data flow
		diagrams, Data
		dictionary,
		Decision Trees and
		tables)
10	11 th	Object Oriented
		Design, Structured
		Coding
		Techniques,
		Coding Styles,
		documentation
11	12 th	Concept of Testing,
		Verification v/s
		Validations, Unit
		Testing, Black Box
		Testing
12	13 th	White Box Testing,
		Integration testing,
		System testing,
		Configuration
		management.
13	14 th	Revision