SYNERGY POLYTECHNIC, BBSR

The Lesson Plan

CSE		- 11 I CHIVIC, BBSK
	Semester:5th	Name of the Teaching Faculty:Manas Ranjan Ojha
Subject:Software Engineering	No of Days/per week class allotted:4	Compate
Week	Class Day	Weeks.13
	1st	Theory/Practical Topics
1st		Program vs. Software product ,Emergence of Software Engineering.
	2nd	Computer Systems Engineering, Software Life Cycle Models
	3rd	Classical Water fall model, Iterative Water fall model
	4th 5th	Prototyping model
2nd	1st	Evolutionary
	2nd	Evolutionary model Spiral model
	3rd	
	4th	Software Project Management Responsibility of Project Manager
	5th	Project Planning
3rd	1st	Metrics for Project size estimation(LOC and FP)
	2nd	Project Estimation Techniques
	3rd	COCOMO Models, Basic, Intermediate and complete
	4th	Scheduling
	5th	
th 3	1st	Organization and Team structure
	2nd	Staffing
	3rd	Risk Management
	4th	Configuration Management
	5th	
2r 3r 4t	1st	Requirement Analysis and specification Requirements gathering and analys
		Software Requirements Specification
	Brd () // · · ·	Contents of SRS
		Characteristics of Good SRS
5	th	

Sign of Faculty

HOD

Principal 2216/24

SYNERGY POLYTECHNIC, BBSR

The Lesson Plan

CSE	Semester:5th	Name of the Teaching Faculty:Manas Ranjan Ojha
ubject:Software E	No of Days/per week	Semester from Date: 1, 3, 24 to Date: 18, 11, 24 No of
	class allotted:4	Weeks:15
Veek	Class Day	Theory/Practical Topics
6th	1st	Organization of SRS
	2nd	Techniques for representing complexing logic
	3rd	Software Design :What is a Good S/W design ,Cohesion and coupling
	4th	Neat arrangement ,S/W Design approaches
	5th	Structured analysis ,Data FlowDiagrams
7th	1st	Symbols used in DFD ,Designing DFD
	2nd	Developing DFD model of a system
	3rd	Shortcomings of DFD
	4th	Structured design
	5th	
8th	1st	Principles of transformation of DFD to Structure Chart
	2nd	Transform analysis and Transaction Analysis
	3rd	Design Review
	4th	User Interface Design :Characteristics of Good Interface
	5th	
9th	1st	Characteristics of Good Interface
	2nd	Basic concepts of UID
	3rd	Basic concepts of UID
	4th	Types of User interfaces
	5th	
10th	1st	Types of User interfaces
	2nd	Components based GUI development
	3rd	Components based GUI development
	4th	Software Coding & Testing :Coding
	5th	

Sign of Faculty

01/2/V

Principal

SYNERGY POLYTECHNIC, BBSR

The Lesson Plan

The Lesson Plan		
CSE	Semester:5th	Name of the Teaching Faculty:Manas Ranjan Ojha
	No of Days/per week	Semester from Date: 1.3.24 to Date: 18,11.24 No of
	class allotted:4	Weeks:15
Week	Class Day	Theory/Practical Topics
11th	1st	.Code Review :Code walk through
	2nd	Code inspections and software Documentation
	3rd	Testing ,Unit testing ,Black Box Testing
	4th	Equivalence class partitioning and boundary value analysis
	5th	
	1st	White Box Testing
	2nd	Different White Box methodologies statement coverage branch coverage
	3rd	condition coverage, path coverage,
	4th	cyclomatic complexity data flow based testing and mutation testing
	5th	
	1st	Debugging approaches, Debugging guidelines, Integration Testing
		2Phased and incremental integration testing, System testing alphas beta and
40.1	2nd	acceptance testing
	3rd	Performance Testing, Error seeding ,General issues associated with testing
	4th	Software Reliability :Software Reliability
	5th	
14th	1st	Different reliability metrics
	2nd	Different reliability metrics
	3rd	Reliability growth modeling
	4th	Reliability growth modeling
	5th	
15th 3	1st	Software quality
	2nd	Software quality
	3rd	Software Quality Management System
	4th	Software Quality Management System
	5th	

Sign of Faculty

Principal