BALASORE SCHOOL OF ENGINEERING, BALASORE

LESSON PLAN/SEMESTER-5th/CSE

SUBJECT- **SOFTWARE ENGINEERING** THEORY-**3** NAME OF THE FACULTY-**P. PANDA**

SL. No.	Month /No. of academic days available for the subject	Chapter	DATE	TOPICS TO BE COVERED	No. of class Available As per Syllabus	No. of class Available As per lesson plan
01	SEPT/09	CH-1	20/09/2022	**1.0 Introduction to Software Engineering** 1.1 Program vs. Software product 1.2Emergence of Software Engineering. 1.3 Computer Systems Engineering	6	4
			21/09/2022	1.4Software Life Cycle Models 1.4.1Classical Water fall mode		
			22/09/2022	1.4.2 Iterative Water fall model 1.4.3Prototyping model		
			23/09/2022	1.4.4 Evolutionary model 1.4.5Spiral model		
		CH-2	24/09/2022	**2.0 Software Project Management** 2.1 Responsibility of Project Manager 2.2 Project Planning	10	05
			27/09/2022	2.3 Metrics for Project size estimation(LOC and FP) 2.4 Project Estimation Techniques		
			28/09/2022	2.5 COCOMO Models, Basic, Intermediate and complete		
			29/09/2022	2.6 Scheduling 2.7 Organization and Team structure		
			30/09/2022	2.8 Staffing 2.9 Risk Management		

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02	OCT/15	CH-3	11/10/2022	3.0 Requirement Analysis and specification 3.1 Requirements gathering and analysis	6	4
			12/10/2022	3.2 Software Requirements Specification 3.2.1 Contents of SRS 3.2.2 Characteristics of Good SRS		
			13/10/2022	3.2.3 Organization of SRS 3.2.4 Techniques for representing complexing logic		
			14/10/2022	3.2.3 Organization of SRS 3.2.4 Techniques for representing complexing logic		
		CH-4	15/10/2022	4.0 Software Design 4.1 What is a Good S/W design 4.2Cohesion	10	7
			18/10/2022	coupling		
			19/10/2022	4.3 Neat arrangement 4.4S/W Design approaches 4.5Structured analysis		
			20/10/2022	4.6Data FlowDiagrams 4.7Symbols used in DFD 4.8Designing DFD		
			21/10/2022	4.9Developing DFD model of a system 4.10Shortcomings of DFD 4.11 Structured design		
			22/10/2022	No class seminar		
			25/10/2022	4.12Principles of transformation of DFD to Structure Chart		
			26/10/2022	4.13Transform analysis and Transaction Analysis 4.14 Design Review		
		CH-6	27/10/2022	6.0 Software Coding & Testing 6.1 Coding 6.2.Code Review . 6.2.1 Code walk through . 6.2.2 Code inspections and software Documentation	12	10
			28/10/2022	6.3 Testing 6.4Unit testing		
			29/10/2022	No class		

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03	NOV/17	CH-6	01/11/2022	6.5 Black Box Testing 6.6 Equivalence class partitioning and boundary value analysis		
			02/11/2022	6.7 White Box Testing 6.8Different White Box methodologies statement coverage branch coverage, condition coverage, path coverage		
			03/11/2022	,cyclomatic complexity data flow based testing and mutation testing		
			04/11/2022	6.9Debugging approaches		
			05/11/2022	NO CLASS STUDENT SEMINAR		
			08/11/2022	6.10Debugging guidelines		
			09/11/2022	6.11 Integration Testing 6.12Phased and incremental integration testing		
			10/11/2022	6.13System testing alphas beta and acceptance testing		
			11/11/2022	6.14Performance Testing, Error seeding		
			12/11/2022	NO CLASS CLASS TEST		
		CH-7	22/11/2022	7.1 Software Reliability	8	6
			23/11/2022	7.2 Different reliability metrics		
			24/11/2022	7.2 Different reliability metrics		
			25/11/2022	7.3 Reliability growth modeling		
			26/11/2022	REVISION		
			29/11/2022	7.5 Software Quality Management System		
			30/11/2022	7.5 Software Quality Management System		

L. No.	Month /No. of academic days available for the subject	Chapter	DATE	TOPICS TO BE COVERED	No. of class Available As per Syllabus	No. of class Available As per lesson plan
04	DEC/12	CH-5	01/12/2022	5.0 User Interface Design 5.1 Characteristics of Good Interface	8	12
			02/12/2022	5.0 User Interface Design 5.1 Characteristics of Good Interface		
			03/12/2022	NO CLASS TECHNICAL SEMINAR		
			06/12/2022	5.2 Basic concepts of UID		
			07/12/2022	5.2 Basic concepts of UID		
			08/12/2022	5.3Types of User interface		
			09/12/2022	5.4 Components based GUI development		
			10/12/2022	RIVISION		
			13/12/2022	5.4 Components based GUI development		
			14/12/2022	5.3Types of User interface		
			15/12/2022	5.3Types of User interface		
			16/12/2022	RIVISION		
				TOTAL	60	48

Brief Summary of the Plan

Sl. no	Month	Units/Chapter To be Covered	Percentage of Coverage
1	SEPT	CH-1,CH-2	25%
2	OCT	CH-3,CH-4,CH-6(30%)	35%
3	NOV	CH-6,CH-7	30%
4	DEC	CH-5	10%

P Panda

Signature of the Faculty

Date 13/9/22

Signature of the Principal

Date

P panda 13/9/22