Practical Plan

T.E. (CE- Section A) (Semester V)

Subject: SOFTWARE ENGINEERING(Practical)

Teacher-in-charge: Dr. B. S. Daga

Subject code: CSL501

Academic Term: July – October 2022

Course Outcomes:

Upon completion of this course students will be able to:

CSL501.1 Identify requirements and apply software process model to selected case study CSL501.2 Develop architectural models for the selected case study CSL501.3 Use computer-aided software engineering (CASE) tools

Relationship of course outcomes with program outcomes:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CSL501.1		1												
CSL501.2				1										
CSL501.3				1	1									

Justification of PO to CO mapping

СО	Competency	Performance Index
CSL501.1	2.1 Demonstrate an ability to identify and formulate complex engineering problem	2.1.2 Identify processes/modules of a computer-based system and parameters to solve a problem

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	2.2 Demonstrate an ability to formulate a solution plan and methodology for an engineering problem	 2.2.3 Identify existing solution/methods to solve the problem, including forming justified approximations and assumptions. 2.2.5 Compare and contrast alternative solution processes to select the best process.
	2.4 Demonstrate an ability to execute a solution process and analyze results	2.4.2 Analyze and interpret the results using contemporary tools.2.4.3 Identify the limitations of the solution and sources/causes.
	4.2 Demonstrate an ability to design experiments to solve open-ended problems	4.2.1 Design and develop appropriate procedures/methodologies based on the study objectives
CSL501.3	4.1 Demonstrate an ability to conduct investigations of technical issues consistent with their level of knowledge and understanding	 4.1.1 Define a problem for purposes of investigation, its scope and importance 4.1.2 Able to choose appropriate procedure/algorithm, dataset and test cases. 4.1.3 Able to choose appropriate hardware/software tools to conduct the experiment.
	4.2 Demonstrate an ability to design experiments to solve open-ended problems	4.2.1 Design and develop appropriate procedures/methodologies based on the study objectives

4.3 Demonstrate an ability to analyze data and reach a valid conclusion	4.3.1 Use appropriate procedures, tools and techniques to and analyze collect data
	4.3.2 Critically analyze data for trends and correlations, stating possible errors and limitations
	 4.3.3 Represent data (in tabular and/or graphical forms) so as to facilitate analysis and explanation of the data, and drawing of conclusions 4.3.4 Synthesize information and
	knowledge about the problem from the raw data to reach appropriate conclusions
5.1 Demonstrate an ability to identify/create modern engineering tools, techniques and resources	 5.1.1 Identify modern engineering tools, techniques and resources for engineering activities 5.1.2 Create/adapt/modify/extend tools and techniques to solve engineering problems

CO Assessment Tools:

Course		Direct Met	hod (80%)		Indirect Method (20%)
Outcomes	Attendance	Lab Performance	Journal Assessment	End Sem Exam (PR)	Course exit survey
CSL501.1	10%	20%	20%	50%	100%
CSL501.2	10%	20%	20%	50%	100%
CSL501.3	10%	20%	20%	50%	100%

CO calculation= (0.8 *Direct method + 0.2*Indirect method)

Rubrics for assessing Course Outcome with each assessment tool:

Laboratory:

Sr. No	Performance Indicator	Exceed Expectation (EE)	Meet Expectation (ME)	Below Expectation (BE)
1	On time Completion & Submission (01)	01 (On Time)	NA	00 (Not on Time)
2	Logic/Algorithm Complexity analysis(03)	03(Correct)	02(Partial)	01 (Tried)
3	Coding Standards (03): Comments/indention/Naming conventions Output/Test Cases	03(All used)	02 (Partial)	01 (rarely followed)
4	Post Lab Assignment (03)	03(done well)	2 (Partially Correct)	1(submitted)

Practical Session Plan

CLASS			BEComputer I	BEComputer Engineering, Semester VII July – October 2022			
Academ	nic Term		July – October				
Subject			Software Engi	Software Engineering (CSL501)			
Ev	aluation System			Hours	Marks		
			Practical Examination				
			Oral Examination		25		
			Term work		25		
			Total		50		
	Time Table	Day	Batch		Time		
		Monday	A	1	30-3.30 PM		
		Tuesday	В	11.0	00am-1.00 pm		
		Friday	С	11.00am-1.00 pm			
		Thursday	D		00am-1.00 pm		
Title d	of Experiments						
Sr.		Titl	le		Attained COs		
1	Software Require	ement Specification			CSL501.3		
2	Implement Course Scheduling System using SCRUM method on JIRA Tool				CSL501.2		
3			sing KANBAN method of		CSL501.1		
4	To calculate function point for Course Scheduling System				CSL501.1		
5	To estimate proje	ct cost using COCOM	O Model for Course Sche	eduling	CSL501.2		
6	Develop diagram	s for data flow analysis	s on Course Scheduling S	ystem	CSL501.2		
7	Implementation of	of data flow design patt	ern		CSL501.3		
8	Do design using Coupling in the d		ch and hence highlight C	ohesion and	CSL501.2		
9A			k box testing for Course	Scheduling	CSL501.3		
9B	To design test cas	ses for performing whit	te box testing for Course	Scheduling			
10			the project Bidirectional	6	CSL501.2		
	udded experiments	0	- F - J F - J J -				
1		Course Scheduling Syste	em using SCRUM metho	d on JIRA Tool	[
2	Ê	÷ ;	em using KANBAN meth				
3	<u> </u>	ion of data flow design					
4			s of the project Bidirection	onal			
	ical Session Pla		1.5				
Bate	ch	Dates			Remarks		
		anned	Actual	1			
Experin	nent No. 1 –			1			
	e Requirement Spe	cification					
А		08/2022					

В	02/08/2022		
C	05/08/2022		
D	04/08/2022		
Experiment N		sing SCRUM method o	n JIRA Tool
A	08/08/2022		
B	09/08/2022		
С	12/08/2022		
D	11/08/2022		
Experiment N	No. 3		
	burse Scheduling System u	sing KANBAN method	on JIRATool
A	22/08/2022		
B	30/08/2022		
С	26/08/2022		
D	25/08/2022		
<i>Experiment</i> N		abaduling System	
	function point for Course S	scheduning System	
A	29/08/2022		
B	13/09/2022 2/09/2022		
C			
D	1/09/2022		
<i>Experiment N</i> To estimate p	vo.5 roject cost using COCOM	O Model for Course Sch	neduling
А	12/09/2022		
В	20/09/2022		
С	9/09/2022		
D	8/09/2022		
<i>Experiment N</i> Develop diag	V o. 6 rams for data flow analysis	s on Course Scheduling	System
А	19-09-22		
В	20-09-22		
С	16-09-22		
D	15-09-22		
<i>Experiment N</i> Implementation	No. 7 on of data flow design patt	ern	
A	26-09-22		
B	22-09-22		
C	23-09-22		
D	22-09-22		
Experiment N		1	I
		ch and hence highlight	Cohesion andCoupling in the design
А	03-10-22		
В	27-09-22		
С	30-09-22		
D	29-09-22		

	70.9 cases for performing black be cases for performing white be		
А	10-10-22		
В	27-09-22		
С	07-10-22		
D	06-10-22		
<i>Experiment N</i> Version contro	7 o. 10 olling & Risk Analysis of the	project Bidirectional	
А	10-10-22		
В	11-10-22		
С	14-10-22		
D	13-10-22		

Submitted By	Approved By		
	Prof. RoshniPadate Sign:		
Dr. B. S. Daga			
Date of Submission:	Date of Approval:		
Remarks by DQAC (if any)			