

LABORATORY PRACTICAL PLANNING

Institute Name: K. K. Wagh Polytechnic, Nashik

Academic Year: 2026-27 (ODD)

Program: Information Technology (IF) **Course:** Software Engineering and Testing **Course code:** 315332

Semester: Fifth **Scheme:** K **Class:** TYIF-CRAY

Batch: A/B/C

Name of Faculty: Ms. S. S. Shinde

● Teaching-Learning & Assessment Scheme:

Course Code	Course Title	Abbr	Course Category	Learning Scheme						Credits	Paper Duration	Assessment Scheme										Total Marks
				Actual Contact Hrs./Week			SLH	NLH	Theory				Based on LL & TSL Practical				Based on SL					
				C L	T L	L L			FA - TH			SA - TH	Total		FA-PR		SA-PR		SLA			
													Max	Max	Max	Min	Max	Min	Max	Min	Max	
315332	Software Enginerrng and Testing	SET	DSC	4	-	4	1	9	3	3	30	70	100	40	25	10	25@	10	25	10	175	

Abbreviations: CL- Class Room Learning , TL- Tutorial Learning, LL-Laboratory Learning, SLH-Self Learning Hours, NLH-Notional Learning Hours, FA - Formative Assessment, SA -Summative assessment, IKS – Indian Knowledge System, SLA - Self Learning Assessment
Legends: @ Internal Assessment, # External Assessment, *# On Line Examination, @\$ Internal Online Examination

● COURSE LEVEL LEARNING OUTCOMES (COS)

- CO1 - Identify relevant software process model for software development.
- CO2 - Use appropriate principles of software modeling to create data design..
- CO3 - Apply project management techniques in software development.
- CO4 - Apply different software testing types to ensure the quality of software product
- CO5 - Identify defect to improve the overall quality of the software using automated testing tools.

● COs, Practical Laboratory Learning Outcome (LLOs) and Mapping:

Sr. No	LLO	Practical Title	Planned Date	Performance Date	Remark	Related self learning (if any)
1	LLO 1.1	*Problem statement to define the project title with bounded scope of the software project	A-12/8/2026 B-14/8/2026 C-10/8/2026	A- B- C-		
2	LLO 2.1	*Process model to define activities and related tasks set	A-13/8/2026 B-14/8/2026 C-12/8/2026	A- B- C-		
3	LLO 3.1 LLO 3.2	*Software Requirement Specification (SRS)	A-19/8/2026 B-21/8/2026 C-17/8/2026	A- B- C-		
4	LLO 4.1 LLO 4.2	*Use-case diagram	A-20/8/2026 B-21/8/2026 C-19/8/2026	A- B- C-		

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Sr. No	LLO	Practical Title	Planned Date	Performance Date	Remark	Related self learning (if any)
5	LLO 5.1 LLO 5.2	Software Design tools : a) Activity diagram b) Decision table.	A-26/8/2026 B-28/8/2026 C-24/8/2026	A- B- C-		
6	LLO 6.1	*Data Flow Diagram	A-27/8/2026 B-28/8/2026 C-26/8/2026	A- B- C-		
7	LLO 7.1 LLO 7.2 LLO 7.3	UML Diagrams	A-2/9/2026 B-4/9/2026 C-31/8/2026	A- B- C-		
8	LLO 8.1	*Function point metric for size estimation.	A-3/9/2026 B-4/9/2026 C-2/09/2026	A- B- C-		
9	LLO 9.1	*COCOMO (Constructive Cost Model) /COCOMO II for cost estimation.	A-9/9/2026 B-11/9/2026 C-7/09/2026	A- B- C-		
10	LLO 10.1 LLO 10.2	RMMM (RMMM-Risk Management, Mitigation and Monitoring) plan.	A-10/9/2026 B-11/9/2026 C-9/09/2026	A- B- C-		
11	LLO 11.1	CPM (Critical Path Method) / PERT (Programme Evaluation and Review Technique)..	A-16/9/2026 B-18/9/2026 C-14/9/2026	A- B- C-		
12	LLO 12.1	*Timeline charts / Gantt charts.	A-17/9/2026 B-18/9/2026 C-16/9/2026	A- B- C-		
13	LLO 13.1	*Test cases for Functional Testing	A-23/9/2026 B-25/9/2026 C-21/9/2026	A- B- C-		
14	LLO 14.1	Test cases for Control and decision making statements	A-24/9/2026 B-18/9/2026 C-23/9/2026	A- B- C-		
15	LLO 15.1	Test cases for Web Application	A-30/9/2026 B-25/9/2026 C-28/9/2026	A- B- C-		

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16	LLO 16.1	*Test cases for GUI Testing	A-1/10/2026 B-2/10/2026 C-30/9/2026	A- B- C-		
17	LLO 17.1	*Test plan for a standalone application	A-7/10/2026 B-2/10/2026 C-5/10/2026	A- B- C-		
18	LLO 18.1	Test plan for web Application	A-8/10/2026 B-2/10/2026 C-7/10/2026	A- B- C-		
19	LLO 19.1	*Defect report	A-14/10/2026 B-9/10/2026 C-12/10/2026	A- B- C-		
20	LLO 20.1	Test cases for automation tool	A-15/10/2026 B-9/10/2026 C-14/10/2026	A- B- C-		
21	Content Beyond syllabus Use of JIRA tool for project management		A-17/09/2026 B-18/09/2026 C-16/9/2026	A- B- C-		

ASSESSMENT METHODOLOGIES/TOOLS

A. Formative assessment (Assessment for Learning) (FA-TH)

- For theory two offline unit tests of 30 marks and average of two unit test marks will be considered for out of 30 marks.
- For formative assessment of laboratory learning 25 marks.
- Each practical will be assessed considering 60% weightage to process, 40% weightage to product

B. Summative Assessment (Assessment of Learning) (SA-TH)

- End semester assessment is of 70 marks.
- End semester examination if of 25 marks, lab performance, viva voce

Ms. S.S.Shinde
(Name & Signature of Staff)

Ms. M. S. Karande
(Name & Signature of HOD)