

LABORATORY PRACTICAL PLANNING

Institute Name: K. K. Wagh Polytechnic, Nashik

Date: 15/12/2025

Academic Year: 2025-26 (EVEN)

Programme: Information Technology (IF) Course: Java Programming (JPR) Course Code: 314317

Semester: fourth Scheme: K

Name of Faculty: Mrs. S. S. Pathare

Class: SYIF-CRAY

Batch: A/B/C

Teaching-Learning & Assessment Scheme:

Course Code	Course Title & Abbr	Course Category	Learning Scheme						Credits	Paper Duration (Hrs.)	Assessment Scheme										Total Marks
			Actual Contact Hrs/Week			SLH	NLH	Theory				Based on LL & TSL Practical				Based on SL					
			CL	TL	LL			FA TH			SA TH	Total		FA-PR		SA-PR		SLA			
												Max	Min	Max	Min	Max	Min	Max	Min		
314317	JAVA PROGRAMMING JPR	AEC	4	-	4	2	10	5	3	30	70	100	40	25	10	50#	20	25	10	200	

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)

Students will be able to achieve & demonstrate the following COs on completion of course based learning

- CO1 - Develop java program using classes and objects.
- CO2 - Develop java program for implementing code reusability concept.
- CO3 - Develop program to implement multithreading and exception handling.
- CO4 - Develop java program for implementing event handling using window-based application components..
- CO5 - Implements network programming in java..
- CO6 - Develop java program for managing database.

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

Pr. No	LLO	Practical Title	Planned Date	Actual date of Performance	Remark
1	LLO 1.1	Setup a Java Programming development environment by using: a) Command Prompt (Classpath and path setup) b) Any IDE(Eclipse, Jcreator, Netbeans, VScode,etc)	A-15/12/25 B-15/12/25 C-19/12/25	A- B- C-	
2	LLO 3.1	Write programs to demonstrate use of: <ul style="list-style-type: none"> • if statements (all forms of if statement • Switch – Case statement • Different types of Loops(for,while and do..while). 	A- 17/12/25 B- 18/12/25 C-20/12/25	A- B- C-	

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Pr. No	CO	LLO	Practical Title	Planned Date	Actual date of Performance	Remark
3	CO1	LLO 4.1	Write programs for implementation of different methods of: <ul style="list-style-type: none"> • String class. • StringBuffer class. 	A-22/12/25 B-22/12/25 C-26/12/25	A- B- C-	
4	CO1	LLO 5.1	Write programs to demonstrate: <ul style="list-style-type: none"> • Use of Array. • Use of Vectors . 	A-23/01/25 B-24/12/25 C-27/01/25	A- B- C-	
5	CO1	LLO 7.1	Develop a program for implementation of different types of constructors.	A-29/12/25 B-29/12/25 C-02/01/26	A- B- C-	
6	CO1	LLO 8.1	Develop program to implement: <ul style="list-style-type: none"> • Single inheritance. • Multilevel inheritance. 	A-30/12/25 B-31/12/25 C-03/01/26	A- B- C-	
7	CO2	LLO 9.1	Develop program for implementation of interface.	A-05/01/26 B-05/01/26 C-09/01/26	A- B- C-	
8	CO2	LLO 10.1	Write programs to demonstrate use of : <ul style="list-style-type: none"> • Built in packages. • User defined packages. 	A-06/01/26 B-07/01/26 C-10/01/25	A- B- C-	
9	CO2	LLO 12.1	Write programs for implementation of throw, throws clause.	A-12/01/26 B-12/01/26 C-16/01/26	A- B- C-	
10	CO3	LLO 13.1	Write programs using multithreading.	A-13/01/26 B-14/01/26 C-17/01/26	A- B- C-	
11	CO3	LLO 14.1	Write program to design any type of form using AWT components.	A-19/01/26 B-19/01/26 C-23/01/26	A- B- C-	
12	CO4	LLO 15.1	Write program to create a menu bar with various menu items and sub menu items.	A-20/01/26 B-21/01/26 C-24/01/26	A- B- C-	

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13	CO4	LLO 17.1	Write program to design a calculator to demonstrate the use of grid layout using swing components.	A-27/01/26 B-02/02/26 C-31/01/26	A- B- C-	
14	CO4	LLO 19.1	Write program to create JTree and JTable.	A-02/02/26 B-03/02/26 C-06/02/26	A- B- C-	
15	CO4	LLO 20.1	Write program to handle key events and mouse events.	A-09/02/26 B-09/02/26 C-13/02/26	A- B- C-	
16	CO4	LLO 21.1	Write program to implement action event in frame using swing components.	A-10/02/26 B-11/02/26 C-14/02/26	A- B- C-	
17	CO5	LLO 23.1	Write program to retrieve hostname and IP address using InetAddress class.	A-16/02/26 B-16/02/26 C-20/02/26	A- B- C-	
18	CO5	LLO 24.1	Write program to demonstrate various methods of: <ul style="list-style-type: none"> • URL class. • URLConnection. 	A-17/02/26 B-18/02/26 C-21/02/26	A- B- C-	
19	CO5	LLO 25.1	Write program that demonstrates connection oriented communication using socket.	A-23/02/26 B-23/02/26 C-27/02/26	A- B- C-	
20	CO6	LLO 27.1	Write program to: <ul style="list-style-type: none"> • Create sample database. • Make connectivity with database. 	A-24/02/26 B-25/02/26 C-28/02/26	A- B- C-	
21	CO6	LLO 28.1	Write program to implement following operations on database: Insert record, Update record, Delete record.	A-09/03/26 B-09/03/26 C-13/03/26	A- B- C-	
22	CO6	LLO 29.1	Write program to demonstrate the use of Prepared Statement	A-16/03/26 B-16/03/26 C-14/03/26	A- B- C-	
23	CO6	LLO 30.1	Write program to retrieve data from table using ResultSet interface.(Use various methods of navigation methods).	A-23/03/26 B-23/03/26 C-27/03/26	A- B- C-	

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SUGGESTED MICRO PROJECT / ASSIGNMENT/ ACTIVITIES FOR SPECIFIC LEARNING / SKILLS DEVELOPMENT (SELF LEARNING)

Other

- Complete any course of Java Programming on Infosys Springboard/Spoken Tutorial/NPTEL
- Develop java code for given problem suggested by course teacher.

Micro project

- Develop mini-ATM machine system. It should accept account_no, account_holder_name, account_balance and perform operations such as withdrawal, Deposit and balance check.
- Develop Quiz Management System. Quiz should accept student credentials and contain 10 MCQ type questions. Determine the final result. Save the result in table along with student credentials.
- Energy Billing System: Expected to develop bill amount module based on usage of energy consumption.
- Develop Employee Management System. Insert employee details such as employee_name, emp_id, emp_salary etc.. into database and retrieve data from table.
- Any other micro project as suggested by course teacher.

Assignment

- Solve assignment covering all COs given by course teacher.

ASSESSMENT METHODOLOGIES/TOOLS

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

- Continuous assessment based on process and product related performance indicators. 60% weightage is to process.
- Each practical will be assessed considering 60% weightage to process 40% weightage to product.
- A continuous assessment based on term work

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

- End semester examination, Lab performance, Viva voce

Mrs. S. S. Pathare
(Name & Signature of Staff)

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