

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.A.A.Shaikh

Class: SYIF-PARAM

Batch: A/B/C

• 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			Theory				Based on LL & TSL Practical				Based on SL								
				C L	T L	L L				FA-TH		SA-TH		Total		FA-PR		SA-PR								
										Max	Max	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					

Total IKS Hrs for Sem. : 0 Hrs

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)

By learning course Java Programming JPR-(314317) Second Year 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:

Sr. No	LLO	Practical Title	Planned Date	Performance Date	Remarks	Related self-learning (if any)
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- 17/12/2025 B- 15/12/2025 C- 15/12/2025	A- B- C-		
2.	LLO 3.1	Write programs to demonstrate use of: 1.if statements (all forms of if statement 2.different loops 3..Switch – Case statement.	A- 20/12/2025 B- 19/12/2025 C- 16/12/2025	A- B- C-		

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3.	LLO 4.1	Write programs for implementation of different methods of: <ul style="list-style-type: none"> • String class. • StringBuffer class. 	A-24/12/2025 B-22/12/2025 C-22/12/2025	A- B- C-		
4.	LLO 5.1	Write programs to demonstrate: <ul style="list-style-type: none"> • Use of Array. • Use of Vectors . 	A- 27/12/2025 B-29/12/2025 C-29/12/2025	A- B- C-		
5.	LLO 7.1	Develop a program for implementation of different types of constructors.	A-31/12/2025 B-02/01/2026 C-30/12/2025	A- B- C-		
6.	LLO 8.1	Develop program to implement: <ul style="list-style-type: none"> • Single inheritance. • Multilevel inheritance. 	A-03/01/2026 B-05/01/2026 C-05/01/2026	A- B- C-		
7.	LLO 9.1	Develop program for implementation of interface.	A-07/01/2026 B-09/01/2026 C-06/01/2026	A- B- C-		
8.	LLO 10.1	Write programs to demonstrate use of : <ul style="list-style-type: none"> • Built in packages. • User defined packages. 	A-10/01/2026 B-12/01/2026 C-13/01/2026	A- B- C-		
9.	LLO 12.1	Write programs for implementation of throw, throws clause.	A-17/01/2026 B-19/01/2026 C-19/01/2026	A- B- C-		
10.	LLO 13.1	Write programs using multithreading.	A- 24/01/2026 B-30/01/2026 C-02/02/2026	A- B- C-		
11.	LLO 14.1	Write program to design any type of form using AWT components.	A-31/01/2026 B-02/02/2026 C-03/02/2026	A- B- C-		
12.	LLO 15.1	Write program to create a menu bar with various menu items and sub menu items.	A-4/02/2026 B-06/02/2026 C-09/02/2026	A- B- C-		
13.	LLO 17.1	Write program to design a calculator to demonstrate the use of grid layout using swing components.	A-07/02/2026 B-13/02/2026 C-16/02/2026	A- B- C-		

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14.	LLO 19.1	Write program to create JTree and JTable.	A-14/02/2026 B-20/02/2026 C-17/02/2026	A- B- C-		
15.	LLO 20.1	Write program to handle key events and mouse events.	A-21/02/2026 B-23/02/2026 C-23/02/2026	A- B- C-		
16.	LLO 21.1	Write program to implement action event in frame using swing components.	A-25/02/2026 B-27/02/2026 C-24/02/2026	A- B- C-		
17.	LLO 23.1	Write program to retrieve hostname and IP address using InetAddress class.	A-28/02/2026 B-02/03/2026 C-02/03/2026	A- B- C-		
18.	LLO 24.1	Write program to demonstrate various methods of: <ul style="list-style-type: none"> • URL class. • URLConnection. 	A-07/03/2026 B-06/03/2026 C-03/03/2026	A- B- C-		
19.	LLO 25.1	Write program that demonstrates connection oriented communication using socket.	A-11/03/2026 B-09/03/2026 C-09/03/2026	A- B- C-		
20.	LLO 27.1	Write program to: <ol style="list-style-type: none"> 1.Create sample database. 2.Make connectivity with database. 	A-14/03/2026 B-13/03/2026 C-16/03/2026	A- B- C-		
21.	LLO 28.1	Write program to implement following operations on database: Insert record, Update record, Delete record.	A-18/03/2026 B-20/03/2026 C-17/03/2026	A- B- C-		
22.	LLO 29.1	Write program to demonstrate the use of Prepared Statement	A-25/03/2026 B-23/03/2026 C-23/03/2026	A- B- C-		
23.	LLO 30.1	Write program to retrieve data from table using ResultSet interface.(Use various methods of navigation methods).	A-28/03/2026 B-27/03/2026 C-24/03/2026			

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

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

- End semester examination, Lab performance, Viva voce

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

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

Micro project

1. 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.
2. 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.
3. Energy Billing System: Expected to develop bill amount module based on usage of energy consumption.
4. Develop Employee Management System. Insert employee details such as employee_name, emp_id, emp_salary etc.. into database and retrieve data from table.
5. Any other micro project as suggested by course teacher.

Assignment

- Solve assignment covering all COs given by course teacher

Mrs. A. A. Shaikh**(Name & Signature of Staff)****Ms. M. S. Karande****(Name & Signature of HOD)**