

LABORATORY PRACTICAL PLANNING (LP)

Institute Name: K. K. Wagh Polytechnic, Nashik

Academic Year: 2025-26 (EVEN)

Course: Python Programming (PWP)

Semester: Fourth

Class: SYIF-CRAY

Scheme: K

Date: 15/12/2025

Programme: Information Technology (IF)

Course Code: 314004

Name of Faculty: Ms. S. S. Shinde

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	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	Min	Max	Min	Max	Min	Max	Min		
314004	PYTHON PROGRAMMING	PWP	AEC	2	-	4	-	6	3	-	-	-	-	-	50	20	50#	20	-	-	100	

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 **PYTHON PROGRAMMING (PWP-314004)** Second Year students will be able to achieve & demonstrate the following COs on completion of course based learning.

- CO1 - Develop python programs using control flow statements.
- CO2 - Perform operations on various data structures in Python.
- CO3 - Develop packages to solve given problem using python.
- CO4 - Apply object-oriented approach to solve given problem using python.
- CO5 - Use relevant built-in python package to develop application.

● **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	Install given Python IDE	A- 18/12/2025 B- 16/12/2025 C- 15/12/2025	A- B- C-		
2.	LLO 2.1	*1. Write python program to display welcome message on screen. 2. Implement the python program to read data from user and display data on screen.	A- 20/12/2025 B- 20/12/2025 C- 19/12/2025	A- B- C-		
3.	LLO 3.1	*Implement a python programs using following operators: 1. Arithmetic 2. Relational & logical 3. Assignment	A-27/12/2025 B-23/12/2025 C-22/12/2025	A- B- C-		

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4.	LLO 4.1	*Implement a python program to demonstrate the use of following conditional statements: 1. if statement 2. if..else statement 3. if..elif..else 4.nested if statement	A- 01/01/2026 B-27/12/2025 C-26/12/2025	A- B- C-		
5.	LLO 5.1 LLO 5.2	*Implement a python program to demonstrate the use of following looping statements: 1. while loop 2. for loop 3. nested loop	A-03/01/2026 B-03/01/2026 C-29/12/2025	A- B- C-		
6.	LLO 6.1	Implement python program to demonstrate the use of loop control statements. [continue, pass, break, else]	A-08/01/2026 B-06/01/2026 C-02/01/2026	A- B- C-		
7.	LLO 7.1	*Implement a python program to perform following operations on the List: 1. Create a List 2. Access List 3. Update List 4. Delete List	A-10/01/2026 B-10/01/2026 C-05/01/2026	A- B- C-		
8.	LLO 8.1	Implement Python program to demonstrate the use of built-in functions/methods on List (Any Eight Functions/methods)	A-15/01/2026 B-13/01/2026 C-09/01/2026	A- B- C-		
9.	LLO 9.1	*Implement python program to perform following operations on the Tuple: 1. Create a Tuple 2. Access Tuple 3. Print Tuple 4. Delete Tuple 5. Convert tuple into list and vice-versa	A-17/01/2026 B-17/01/2026 C-12/01/2026	A- B- C-		
10.	LLO 10.1	*Implement a python program to perform following operations on the Set.	A- 22/01/2026 B-20/01/2026 C-16/01/2026	A- B- C-		

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11.	LLO 11.1	Implement a python program to perform following functions on Set: 1. Union 2. Intersection 3. Difference 4. Symmetric Difference	A- 24/01/2026 B-24/01/2026 C-19/01/2026	A- B- C-		
12.	LLO 12.1	*Implement a python program to perform following operations on the Dictionary: 1. Create a Dictionary 2. Access Dictionary 3. Update Dictionary 4. Delete Dictionary 5. Looping through Dictionary 6. Create Dictionary from list	A-31/01/2026 B-03/02/2026 C-23/01/2026	A- B- C-		
13.	LLO 14.1	*Implement user defined function for given problem: 1. Function positional/required argument 2. Function with keyword argument 3. Function with default argument 4. Function with variable length argument	A-05/02/2026 B-07/02/2026 C-02/02/2026	A- B- C-		
14.	LLO 16.1	Write a python program to create and use a user defined module for a given problem.	A-07/02/2026 B-10/02/2026 C-06/02/2026	A- B- C-		
15.	LLO 17.1	Write a python program to demonstrate the use of following module: 1. math module 2. random module 3. os module	A-12/02/2026 B-14/02/2026 C-09/02/2026	A- B- C-		
16.	LLO 18.1	*Write python program to create and use a user defined package for a given problem.	A-14/02/2026 B-17/02/2026 C-13/02/2026	A- B- C-		
17.	LLO 20.1	*Develop a python program to perform following operations	A-21/02/2026 B-21/02/2026 C-20/02/2026	A- B- C-		

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18.	LLO 21.1	*Write a python program to demonstrate the use of constructors: 1. Default 2. Parameterized 3. Constructor Overloading	A-26/02/2026 B-24/02/2026 C-23/02/2026	A- B- C-		
19.	LLO 22.1	*Implement a python program to demonstrate 1. Method Overloading 2. Method Overriding	A-28/02/2026 B-28/02/2026 C-02/03/2026	A- B- C-		
20.	LLO 24.1 LLO 24.2	*Write a python program to implement 1. Single inheritance 2. Multiple Inheritance 3. Multilevel inheritance	A-05/03/2026 B-07/03/2026 C-06/03/2026	A- B- C-		
21.	LLO 25.1	*Implement Python program to perform following operations using panda package: 1. Create Series from Array 2. Create Series from List 3. Access element of series 4. Create DataFrame using List or dictionary	A-07/03/2026 B-10/03/2026 C-13/03/2026	A- B- C-		
22.	LLO 27.1	*Write python GUI program to import Tkinter package and create a window and set its title.	A-12/03/2026 B-17/03/2026 C-16/03/2026	A- B- C-		
23.	LLO 29.1	Write program to create a connection between database and python.	A-14/03/2026 B-24/03/2026 C-23/03/2026			
24.	LLO 30.1	Implement python program to select records from the database table and display the result	A-28/03/2026 B-28/03/2026 C-27/03/2026			

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Sr. No	LLO	Practical Title	Planned Date	Performance Date	Remarks	Related self-learning (if any)
Content Beyond Syllabus		Playing Multimedia Functions Using Python.	Second Week Of January			

ASSESSMENT METHODOLOGIES/TOOLS

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

- Continuous assessment based on process and product related performance indicators. Each practical will be assessed considering 1) 60% weightage is to process 2) 40% weightage to product

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

- End Semester Exam based on Practical performance and Viva-voce.

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

Activities

- Students are encouraged to use online tools to improve their learning, such as the e-Kumbh from AICTE and the Virtual Labs from IIT.
- Students should be encouraged to participate in various coding competitions, such as hackathons, online coding contests on websites like hackerrank, Codechef etc.
- At the institution level, encourage students to start a coding club.

Self Learning

- Students are encouraged to register themselves in various MOOC's such as Infosys Springboard, Swayam etc. to further enhance their learning..

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

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

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