



SYNERGY SCHOOL OF ENGINEERING
DEPARTMENT OF COMPUTER SCIENCE ENGINEERING
Lesson Plan of PWP Lab

Discipline : CSE	Semester: - 3rd Sem	Name of the teaching faculty: - Mrs. Smrutimayee Mishra		
Subject: - PWP Lab	No. of Days/week class Allotted: 4	No. of weeks: -15 SESSION-2026-27 WINTER		
No. of week	No. of lab class	Topic to be Taught	DATE OF DELIVERY	
			G1	G2
1 ST	1 st	Install Python and set up an IDE		
	2 nd	Install Python and set up an IDE		
2 ND	1 st	Write simple Python scripts to demonstrate variable declarations		
	2 nd	Write simple Python scripts to demonstrate variable declarations		
3 RD	1 st	Data types, and operators		
	2 nd	Debug Python scripts to identify and fix errors.		
4 TH	1 st	Implement conditional statements (if, else, elif) in real-life scenarios		
	2 nd	Implement conditional statements (if, else, elif) in real-life scenarios		
5 TH	1 st	Write programs using loops (for, while, and nested loops) to solve repetitive tasks		
	2 nd	Define custom functions, including examples of recursion, use lambda functions for inline operations.		
6 TH	1 st	Perform CRUD operations on lists, tuples, sets, and dictionaries, use list comprehensions to filter and transform data		
	2 nd	Perform string manipulations using built-in methods		
7 TH	1 st	Introduce Python's collections module with practical examples.		
	2 nd	Write programs to read, write, and append text files		
8 TH	1 st	Write programs to read, write, and append text files		
	2 nd	Work with CSV files using Python's csv module		
9 TH	1 st	Read and write JSON files to store structured data		
	2 nd	Explore built-in modules like os, math, and date time, create and import custom modules.		
10 TH	1 st	Explore built-in modules like os, math, and date time, create and import custom modules.		
	2 nd	Define classes and create objects with attributes and methods		
11 TH	1 st	Implement encapsulation, inheritance, and polymorphism		
	2 nd	Implement encapsulation, inheritance, and polymorphism		
12 TH	1 st	Work with magic methods (e.g., init , str) and operator overloading.		
	2 nd	Work with magic methods (e.g., init , str) and operator overloading.		

Smruti
22/06/2026
GS
21/6/26

13 th	1 st	Write programs to handle exceptions using try, except, and finally.		
	2 nd	Write programs to handle exceptions using try, except, and finally.		
14 th	1 st	Use NumPy for numerical operations and Pandas for data analysis		
	2 nd	Use NumPy for numerical operations and Pandas for data analysis		
15 th	1 st	Mini-Project: Develop a Python script to solve a real-world Problem.		
	2 nd	Mini-Project: Develop a Python script to solve a real-world Problem.		

Smash
Prepared by: 02/06/2026
21/6/26

Deyan
02/06/26

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Verified by: Smash
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