

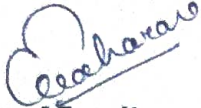
Academic Lesson Plan of Winter 2026

Department : CSE	Semester : 3rd	Name of the teaching faculty: PRIYANKA MAHARANA
Subject: Programming with Python	No. of days/per week class allotted .	Semester from : 1ST July 2026
		No. of weeks:15 weeks
		Topics to be covered:
1 st week	1 st	Overview of Python
	2 nd	Features and Applications Setting Up the Python Environment
	3 rd	Python Installation, IDEs
2 nd week	1 st	Data Types, and Operators Writing
	2 nd	Data Types, and Operators Writing
	3 rd	Executing, and Debugging Python Scripts
3 rd week	1 st	Executing, and Debugging Python Scripts
	2 nd	Revision
	3 rd	Conditional Statements: if, else, elif
4 th week	1 st	Conditional Statements: if, else, elif
	2 nd	Loops: for, while, and Nested Loops
	3 rd	Loops: for, while, and Nested Loops
5 th week	1 st	Functions: Defining, Calling
	2 nd	Scope of Variables Introduction to Lambda Functions
	3 rd	Scope of Variables Introduction to Lambda Functions
6 th week	1 st	Recursion
	2 nd	Lists
	3 rd	Tuples, Sets
7 th week	1 st	Dictionaries: Operations and Applications
	2 nd	List Comprehensions and Dictionary Comprehensions Working with Strings
	3 rd	List Comprehensions and Dictionary Comprehensions Working with Strings
8 th week	1 st	Methods and Manipulation,
	2 nd	Introduction to Python's Collections Module
	3 rd	Revision
9 th week	1 st	File Operations, Reading, Writing
	2 nd	Appending Files Working with CSV
	3 rd	JSON Files
10 th week	1 st	Python Modules: Built-In Modules (e.g., math, os, datetime)
	2 nd	Creating and Using Custom Modules
	3 rd	Creating and Using Custom Modules
11 th week	1 st	Revision
	2 nd	Understanding Classes and Objects
	3 rd	Concepts of Encapsulation
12 th week	1 st	Inheritance, and Polymorphism
	2 nd	Inheritance, and Polymorphism
	3 rd	Working with magic methods
13 th week	1 st	Operator Overloading
	2 nd	Exception Handling in Python
	3 rd	Exception Handling in Python
14 th week	1 st	Revision
	2 nd	Introduction to Libraries: NumPy, Pandas,
	3 rd	Matplotlib Basics of Web Scraping: Using requests and BeautifulSoup
15 th week	1 st	Scripting for Automation: Working with os and shutil Modules
	2 nd	MiniProject: Developing a Python Script for a Real-World Problem
	3 rd	Revision

COURSE OUTCOMES

CO.1	Define Python core syntax, data types, and key concepts of Object-Oriented Programming.
C338.2	Explain the working of control structures and data structures in Python programming.

C338.3	Implement Python programs using file handling, modules, and libraries such as NumPy, Pandas, and Matplotlib for data analysis and
C338.4	Analyze Python programs to identify and resolve logical or syntactic errors and optimize code using recursion and lambda
C338.5	Develop Python-based applications by integrating OOP concepts, libraries, and automation tools for practical problem-solving.



Signature of Faculty



HOD, CSE