

LESSON PLAN

Department: CSE			Semester:3 rd	Name of Faculty: Sri Dixit Pradhan
Subject: Programming with Python(TH-2)	No.ofdays/ week Class allotted: 3	Effective From Date:01.07.2026		
		Topic to be Covered:		
		Theory		
Week	ClassDay	UNIT 1: Introduction to Python:		
1 st	1 st	Overview of Python: Features and Applications		
	2 nd	Setting Up the Python Environment (Python Installation, IDEs)		
	3 rd	Python Syntax: Variables, Data Types		
2 nd	1 st	Python Syntax: Variables, Data Types		
	2 nd	Operators Writing		
	3 rd	Executing, and Debugging Python Scripts		
3 rd	1 st	Executing, and Debugging Python Scripts		
	2 nd	1. Doubt Clearing class 2. Quiz test 3. Assignment		
	3 rd	UNIT 2: Control Structures and Functions: Conditional Statements: if, else, elif		
4 th	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	1 st	Functions: Defining, Calling		
	2 nd	Functions: Scope of Variables		
	3 rd	Introduction to Lambda Functions and Recursion		
6 th	1 st	1. Doubt Clearing class 2. Quiz test 3. Assignment		
	2 nd	UNIT 3: Data Structures in Python: Lists, Tuples, Sets,		
	3 rd	Dictionaries: Operations and Applications		
7 th	1 st	List Comprehensions and Dictionary Comprehensions Working with Strings		
	2 nd	List Comprehensions and Dictionary Comprehensions Working with Strings		
	3 rd	Methods and Manipulation		
8 th	1 st	Introduction to Python's Collections Module		
	2 nd	Introduction to Python's Collections Module		
	3 rd	1. Doubt Clearing class 2. Quiz test 3. Assignment		
9 th	1 st	UNIT 4: File Handling and Modules: File Operations, Reading, Writing		
	2 nd	Appending Files Working with CSV and JSON Files		
	3 rd	Appending Files Working with CSV and JSON Files		
10 th	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	1 st	1. Doubt Clearing class 2. Quiz test 3. Assignment
	2 nd	UNIT 5: Object-Oriented Programming (OOP) in Python: Understanding Classes and Objects Concepts of Encapsulation
	3 rd	Inheritance, and Polymorphism
12 th	1 st	Inheritance, and Polymorphism
	2 nd	Working with Magic Methods
	3 rd	Operator Overloading
13 th	1 st	Exception Handling in Python
	2 nd	1. Doubt Clearing class 2. Quiz test 3. Assignment
	3 rd	UNIT 6: Advanced Python and Applications: Introduction to Libraries: NumPy , Pandas, Matplotlib
14 th	1 st	Basics of Web Scraping: Using requests and BeautifulSoup
	2 nd	Basics of Web Scraping: Using requests and BeautifulSoup
	3 rd	Scripting for Automation: Working with os and shutil Modules
15 th	1 st	Mini-Project: Developing a Python Script for a Real-World Problem
	2 nd	Mini-Project: Developing a Python Script for a Real-World Problem
	3 rd	1. Doubt Clearing class 2. Quiz test 3. Assignment

Dixit Pradhon

Signature of Faculty

Rasmita Patra

Miss. Rasmita Patra

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