PNS SCHOOL OF ENGINEERING & TECHNOLOGY
Lesson Plan of Summer 2025

Department : CSE	Semester : 3rd	Name of the Faculty - Er Sushree Sangita Tripathy	
Subject: Programming with Python	**No.of days/per week class allotted 4p/week.**	Semester from : 14/07/2025 to 30/11/2025	
		No. of weeks:12 weeks	
		Topics to be covered:	
1st week	1st	Introduction to Python & Overview of Python	
	2nd	Features & Applications	
	3rd		
	4th	Setting up the Python Environment (Python Installation IDEs)	
2nd week	1st	Python Syntax	
	2nd	Continue	
	3rd	Variables & Data types	
		Doubt Clearing Class	
	4th	Operators Writing	
3rd week	1st	Class test	
	2nd	Executing & Debugging Python Scripts	
	3rd	Control Structures and Functions : Conditional Statements	
	4th	If , else , elif	
4th week	1st	Loops : for , while and Nested Loops	
	2nd	Continue	
	3rd	Functions : Defining , calling	
	4th	Scope of variable to Lamda Functions	
5th week	1st	Continue	
	2nd	Recursion	
	3rd	Data Structures in Python : List , Tuples , sets and Dictionaries , Operations & Applications	
	4th	Continue	
6th week	1st	Doubt Clearing Class	
	2nd	List Comprehesions and Dictionary Comprehesions	
	3rd	Continue	
	4th	Working with Strings : Methods & Manipulation	
	1st	Introduction to Python collection module	

7th week	2nd	File handling and modules : File operations , Reading , Writing and appending file	
	3rd	Continue	
	4th	Working with CSV and JSON Files	
8th week	1st	Built-In modules (Math , OS, datetime)	
	2nd	Continue	
	3rd	Creating and Using Custom Modules	
	4th	Doubt Clearing Class	
9th week	1st	Object-Oriented Programming (OOP) in Python	
	2nd	Understanding Classes and Objects	
	3rd	Concept of Encapsulation	
	4th	Class test	
10th week	1st	Inheritance & Polymerphism	
	2nd	Working with Magic Methods	
	3rd	Operator Overloading	
	4th	Exception Handling in Python	
11th week	1st	Doubt Clearing Class	
	2nd	Advance Python and Applications	
	3rd	Introduction to Libraries : Numpy , Pandas	
	4th	Continue	
12th week	1st	ClassTest	
	2nd	Mini Project : Devloping a pythn Script for a Real World Problem	
	3rd	Continue	
	4th	Continue	
	5th	Discuss Semester Questions	