



SYNERGY SCHOOL OF ENGINEERING, DHENKANAL
LESSON PLAN SESSION: (2026-2027)

Discipline: Computer Science & Engineering	Semester: 3rd,Winter-2026	Name of the Faculty: Smrutimayee Mishra Email-ID: smrutisaina@gmail.com
Subject: Programming with Python (CSEPC 203/TH2)	No of Days/Week: 03	Start Date: 01/07/26 End Date: 05/11/26

Week	Class Day	Theory Topics
1ST	1ST	Introduction to Python, Features and Applications
	2ND	Python Installation and IDE Setup
	3RD	Writing and Executing Python Programs
2ND	1ST	Variables and Data Types
	2ND	Operators in Python
	3RD	Debugging Python Programs
3rd	1ST	Conditional Statements (if, if-else, elif)
	2ND	Nested Conditions
	3RD	Practice Programs
4th	1ST	for Loop
	2ND	while Loop
	3RD	Nested Loops and Applications
5th	1ST	Functions: Definition and Calling
	2ND	Scope of Variables
	3RD	Lambda Functions
6th	1ST	Recursion
	2ND	Recursion Programs

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	3RD	Lists and List Operations
7th	1ST	Tuples and Tuple Operations
	2ND	Sets and Set Operations
	3RD	Dictionaries and Dictionary Operations
8th	1ST	List Comprehension
	2ND	Dictionary Comprehension
	3RD	String Handling and String Methods
9th	1ST	Collections Module
	2ND	File Handling: Read and Write Files
	3RD	Append Operations
10th	1ST	Working with Text Files
	2ND	CSV File Handling
	3RD	JSON File Handling
11th	1ST	Python Modules and Packages
	2ND	Built-in Modules (math, os, date time)
	3RD	Creating Custom Modules
12th	1ST	Module-Based Programs
	2ND	Classes and Objects
	3RD	Constructors and Methods
13th	1ST	Encapsulation and Inheritance
	2ND	Encapsulation and Inheritance
	3RD	Polymorphism and Magic Methods
14th	1ST	Exception Handling
	2ND	Exception Handling
	3RD	Operator Overloading
15th	1ST	NumPy, Pandas and Matplotlib Introduction
	2ND	Automation and Web Scraping Basics
	3RD	Revision

Somnath Mayee Mishra

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