

MODULE PLAN AND CONTENT

Module 7

PYTHON



Version 1.0

MODULE PLAN

Module Plan	
Module Title	INTRODUCTION TO PYTHON
Duration	1 hours (60 minutes)
Learning Objectives	By the end of this module, participants will be able to: • Understand what Python is and why it is widely used. • Write a simple program using input and output. • Use variables and basic data types. • Understand basic control structures (if statements). • Apply step-by-step problem-solving with Python.
Lesson Plan	Code Python Training Module for Deaf Youth Duration: ~60 minutes (intro + 2 hands-on blocks + wrap-up) 0. Welcome & Setup (Intro) — 10 minutes • Objective: Introduce Python and its applications.



Module Plan	
	• Main Point to Cover: Python is easy to learn, used in apps, games, websites, and data science. • Activity: Show examples: YouTube, Instagram, games – many use Python. • Teaching Methodology: Visual slides with icons/logos, simple keywords, sign language support. 1. Getting Data — 15 minutes • Objective: Learn input/output in Python. • Main Point to Cover: <code>input()</code> (input) and <code>print()</code> (output). • Demo Examples: <pre>name = input("Enter your name: ") print("Hello", name)</pre> • Activity: Write a program that asks for age and prints “You are [age] years old.” • Teaching Methodology: Step-by-step demo, diagrams showing input → process → output. 2. Changing Data Safely — 20 minutes • Objective: Learn variables, data types, and basic operations. • Main Point to Cover: Integers, floats, strings; simple arithmetic. • Demo Examples: <pre>a = 5 b = 3 sum = a + b print("Sum is:", sum)</pre> • Activity: Students modify numbers to see changes in output.

Module Plan	
	• Teaching Methodology: Live demo + peer discussion, visual flowcharts.
Materials Needed	Laptop, projector, handouts with Python examples, slides with visuals.

MODULE CONTENT

Content	Description	Content
Lesson Content	Key Digital Terms:	Key Digital Terms: • Variable • Input / Output • Data type • Arithmetic operations • Control flow (<code>if</code>) • Bug
Video summary	Youtube Links	• Python Programming for Beginners – Subtitled • Python in Everyday Life – Subtitled

Content	Description	Content
Activity		- Goal: Write Python code to solve everyday problems. - Scenarios: - Ask user height → print “You are tall” or “You are short.” - Ask user favorite number → print double the number. - Ask password → if correct print “Welcome,” else “Try again.”
Assessment	Quiz	1. <code>input()</code> does what? A. Output B. Input ✓ C. Variable D. Loop 2. <code>print()</code> does what? A. Store data B. Input C. Output ✓ D. Loop 3. What is a variable used for? A. Storing information ✓ B. Printing text C. Making decisions D. Looping

Content	Description	Content
		4. What is if used for? A. Looping B. Making decisions ✓ C. Storing numbers D. Output 5. Correct order in an algorithm? A. Input → Process → Output ✓ B. Process → Output → Input C. Output → Input → Process D. Input → Output → Process