

Class – X

Lesson Plan

Subject: Artificial Intelligence

Topic: Python Programming

Brief Description of the lesson:

Python is a high-level, general-purpose programming language. Python can be used on a server to create web applications.

I - Specific Objectives:

SP1: To make students understand about the python language. (Understanding)

SP2: To make students understand about the features of python. (Understanding)

SP3: To make students understand about the object-oriented programming skills using Python. (Knowledge)

SP4: To enable students to understand about identifiers and keywords; literals, numbers, and strings; operators; expressions (Understanding)

SP5: To make students understand about control structures. (Understanding)

SP6: To make students to understand learn basic skills by solving the questions (Assessment)

II - Behavioral Objectives:

B1: Real life examples based on Python. (Understanding)

B2: To make students to understand the need of coding. (Understanding)

B3: To make students to understand how to solve write syntax. (Knowledge)

B4: To make students to learn basic skills by solving the questions establishes the steps to complete a project. (Analysis)

B5: To help the students to creates to create a functional and interactive word-guessing game. (Understanding)

Process / Activities:

Activity (to introduce the lesson):

ACT1: Worksheet based on Python

ACT2: Build a countdown calculator.

Activity (to support learning):

ACT3: Lab Exercise

Activity / Assignment (to assess learning):

Practical

ACT4: Python Pattern printing Exercises

- Program to print half Diamond star pattern
- Programs for printing pyramid patterns in Python
- Program to print the diamond shape
- Print an Inverted Star Pattern
- Python Program to print digit pattern

Expected Learning Outcomes

Student will:

1. Be able to understand the use of Python. (Understanding)
2. Learn about web applications. (Understanding)
3. Be able to understand the code of conventions (Understanding)
4. Be able to experience the flow of control structure .(Assessing)

Behavioral Outcomes:

Student will:

- Be able to understand the use of python in day to day life. (Understanding)

- Be able to understand the syntax and working of control structure. (Understanding)
- Be able understand how to write syntax properly. (Knowledge)
- Enable to take decision according to situation. (Understanding)

- **Placement of objective, Instructional Activities and Assessment**

• Topic: AI					
Knowledge	Understanding	Application	Analysis	Synthesis	Evaluation
SP3	SP1		ACT3		SP6
B3	SP2	ACT1,ACT2			
	SP4				
	SP5				
		ACT4			
	B1,B2				