**Class – IX**

**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: Conversion Programs in Python

**Activity (to support learning):**

ACT3: Lab Exercise

**Activity / Assignment (to assess learning):**

Practical

**ACT4**: **Python Pattern printing Exercises**

- Program to Check Whether a Given Number is even or odd.
- Program to Check Whether a Number is Positive or Negative
- Program to Print area and perimeter of rectangle, square and triangle
- Program to Print Table of a Given Number
- Program to Calculate Grade of a Student

**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 | | | | |
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| | B1,B2 | | | | |
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