



Skillovation
BE SKILLFUL TO INNOVATE

Skillovation Edutech Pvt.Ltd

**Implement Maths Concepts Through
Programming & Automation
with
Technology Professionals**





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Module 1 - Introduction

- Introduction to Python Language
- Industrial Importance of Python Language
- Features of Python Language

Module 2 - Environment Setup

- Getting Started with Python
- Installing Python
- Unix and Linux Installation in Python
- Windows Installation
- Setting up PATH
- Setting path at Unix / Linux
- Setting path at Windows

Module 3 - Starting With Python Programs

- Script Programming
- Python Identifiers
- Python Keywords
- Python Lines and Indentation
- Python Multi-Line Statements
- Quotation in Python
- Comments in Python
- Using Blank Lines



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- Multiple Statements on a Single Line
- Variables and Data Types in Python
- Multiple Assignment in Python Programming
- Standard Data Types in Python
- Data Type Conversion in Python
- Python Input and Output

Module 4 - Python Operators

- Types of Different Operators in Python
- Changing the Order of Evaluation

Module 5 - Conditional statements in Python Programming

- if statements
- if...else statements
- The elif Statement
- Nested if statements

Module 6 - LOOPS in Python Programming

- While loop
- The Infinite Loop
- Using else Statement with Loops
- For loop



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Module 7 - Functions in Python Programming

- Calling a Function
- Pass by reference Vs. value
- Function Arguments
- Required arguments
- Keyword arguments
- Default arguments
- Variable-length arguments

Module 8 - GUI Creation

- Working with Tkinter module
- Creating graphical Windows, Frame
- Creating Text box, Label, Check buttons ,Radian buttons etc



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<u>Live Projects</u> :	
School Robotics & Coding - Basic	
1	Design a Application to find odd & even number using tkinter
2	Design a Application for Multiplication table generation
3	Design a Application to find Square and cube of the number
4	Design a Login Screen Application
5	Design a Calculator
6	WAP to swap two no's
7	WAP to find Average and percentage for student marks
8	WAP to find number is Positive, Negative or zero
9	WAP to check the year is leap year or not
10	WAP to print Values from 1 to 10
11	To find area and parameter of a circle using functions