



Embedded Technosolutions

Venture of IIT Bombay & VJTI Alumni

3 Times IIT Bombay Robo Competition Winner

Industrial Certified Python Programming Workshop

Government of India (MSME) & IIT Bombay Alumni Recognized



B R A N D

PROMISE

**We Guarantee You that, You Can Develop Your Projects by
Your Own After This Training Program**



Embedded Technosolutions

Venture of IIT Bombay & VJTI Alumni

3 Times IIT Bombay Robo Competition Winner



Python Programming Workshop

Chapter 1: Introduction

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

Chapter 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



Embedded Technosolutions

Venture of IIT Bombay & VJTI Alumni

3 Times IIT Bombay Robo Competition Winner

Chapter 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
- 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

Chapter 4 : Python - Operators

- Types of Different Operators in Python



Embedded Technosolutions

Venture of IIT Bombay & VJTI Alumni

3 Times IIT Bombay Robo Competition Winner

- Changing the Order of Evaluation

Chapter 5 : Conditional statements in Python Programming

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

Chapter 6: LOOPS in Python Programming

- While loop
- The Infinite Loop
- Using else Statement with Loops
- For loop
- Nested loops
- Loop Control Statements

Chapter 7: Strings in Python Programming

- Accessing Values in Strings
- Updating Strings
- Escape Characters
- String Special Operators



Embedded Technosolutions

Venture of IIT Bombay & VJTI Alumni

3 Times IIT Bombay Robo Competition Winner

- String Formatting Operator
- Triple Quotes

Chapter 8: Lists in Python Programming

- Python Lists
- Accessing Values in Lists
- Updating Lists
- Delete List Elements
- Basic List Operations
- Indexing, Slicing, and Matrixes
- Built-in List Functions & Methods

Chapter 9 : Tuples in Python Programming

- Python Tuples
- Accessing Values in Tuples
- Updating Tuples
- Delete Tuple Elements
- Basic Tuples Operations
- Indexing, Slicing, and Matrixes
- No Enclosing Delimiters



Embedded Technosolutions

Venture of IIT Bombay & VJTI Alumni

3 Times IIT Bombay Robo Competition Winner

- Built-in Tuple Functions

Chapter 10 : Dictionary in Python Programming

- Python Dictionary
- Accessing Values in Dictionary
- Updating Dictionary
- Delete Dictionary Elements
- Properties of Dictionary Keys
- Built-in Dictionary Functions & Methods

Chapter 11 : Functions in Python Programming

- Calling a Function
- Pass by reference Vs. value
- Function Arguments
- Required arguments
- Keyword arguments
- Default arguments
- Variable-length arguments
- The Anonymous Functions
- The return Statement



EEmbedded **T**Technosolutions

Venture of IIT Bombay & VJTI Alumni

3 Times IIT Bombay Robo Competition Winner

- Scope of Variables
- Global vs. Local variables
- The global statement