

# ZENUS INFOTECH INDIA PVT. LTD.

## Curriculum of Core Python

course Duration: 4 weeks\*

### **INTRODUCTION**

Why do we need Python?

Program structure

Interactive Shell

Executable or script files.

User Interface or IDE

### **GETTING STARTED**

History & need of Python

Application of Python

Advantages of Python

Disadvantages of Python

Installing Python

### **PYTHON FUNDAMENTALS**

Working With Interactive Mode

Working With Script Mode

Python Character Set

Python Tokens-

Keywords, Identifiers, Literals, Operators

Variables and Assignments

Input and Output Functions in Python

### **Conditional Statements & Loops**

if...statement

if...else statement

elif...statement

The while...Loop

The for....Loop

### **Control Statements**

continue statement

break statement

### **Functions**

Using a Functions

Python Function Types

Structure of Python Modules

Importing Modules in Python Programs

Invoking Python's Built In Functions

Working With Random Modules

### **STRING MANIPULATION**

Introduction to Python String

Accessing Individual Elements

String Operators

String Slices

String Functions and Methods

## **LIST MANIPULATION**

Introduction to Python List

Creating List

Accessing List

Joining List

Replicating List

List Slicing

## **TUPLES**

Introduction to Tuples

Creating Tuples

Accessing Tuples

Joining Tuples

Replicating Tuples

Tuple Slicing

## **DICTIONARIES & SETS**

Introduction

Accessing values in dictionaries

Working with dictionaries

Properties

Python Sets Examples

## **INPUT AND OUTPUT IN PYTHON**

Reading and writing text files

writing Text Files

Modules & Packages

Modules

How to import a module...?

Command line arguments

Packages

Creating custom packages

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How to import a module...?

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Creating custom packages