



# Technical Guftgu

Established under Ministry of Micro, Small and Medium Enterprises, Govt. of India)

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- ✓ Certificate provided
- ✓ Recordings Provided
- ✓ In Hindi/Urdu
- ✓ Expert Trainers

## PYTHON PROGRAMMING

**Introduction** — Python Is an interpreted, object-oriented, high-level programming language with dynamic semantics. Python's simple, easy to learn syntax emphasizes readability and therefore reduces the cost of program maintenance. Python supports modules and packages, which encourages program modularity and code reuse.

**Pre- requisite – No pre requisite required**

### Course Contents:

#### 1. An Introduction to Python

- a. Brief History
- b. Why Python
- c. Where to use

#### 2. Beginning Python Basics

- a. The print statements
- b. Comments
- c. Python Data Structures & Data Types
- d. String Operations in Python
- e. Simple Input & Output
- f. Simple Output Formatting

#### 3. Python Program Flow

- a. Indentation
- b. The If statement and its' related statement
- c. An example with if and it's related statement
- d. The while loop
- e. The for loop
- f. The range statement
- g. Break & Continue
- h. Assert
- i. Examples for looping

#### 4. Functions & Modules

- a. Create your own functions
- b. Functions Parameters
- c. Variable Arguments
- d. Scope of a Function

- e. Function Documentation/Docstrings
- f. Lambda Functions & map
- g. An Exercise with functions
- h. Create a Module
- i. Standard Modules

#### 5. Exceptions

- a. Errors
- b. Exception Handling with try
- c. Handling Multiple Exceptions
- d. Writing your own Exceptions

#### 6. File Handling

- a. File Handling Modes
- b. Reading Files
- c. Writing & Appending to Files
- d. Handling File Exceptions
- e. The with statement

#### 7. Classes In Python

- a. New Style Classes
- b. Variable Type
- c. Static Variable in class
- d. Creating Classes
- e. Instance Methods
- f. Inheritance
- g. Polymorphism
- h. Encapsulation
- i. Scope and Visibility of Variables
- j. Exception Classes & Custom Exceptions

## 8. Regular Expressions

- a. Simple Character Matches
- b. Special Characters
- c. Character Classes
- d. Quantifiers
- e. The Dot Character
- f. Greedy Matches
- g. Grouping
- h. Matching at Beginning or End
- i. Match Objects
- j. Substituting
- k. Splitting a String
- l. Compiling Regular Expressions
- m. Flags

## 9. Data Structures

- a. List Comprehensions
- b. Nested List Comprehensions
- c. Dictionary Comprehensions
- d. Functions
- e. Default Parameters
- f. Variable Arguments
- g. Specialized Sorts
- h. Iterators
- i. Generators
- j. The Functions any and all
- k. The with Statement
- l. Data Compression
- m. Closer
- n. Decorator

## 10. Writing GUIs in Python

- a. Introduction
- b. Components and Events
- c. An Example GUI

- d. The root Component
- e. Adding a Button
- f. Entry Widgets
- g. Text Widgets
- h. Checkbuttons
- i. Radiobuttons
- j. Listboxes
- k. Frames
- l. Menus
- m. Binding Events to Widgets

## 11. Thread In Python

- a. Thread life Cycle
- b. Thread Definition
- c. Thread Implementation

## 12. Network Programming Introduction

- a. A Daytime Server
- b. Clients and Servers
- c. The Client Program
- d. The Server Program
- e. Recap
- f. An Evaluation Client and Server
- g. The Server Portion
- h. A Threaded Server

## 13. Python MySQL Database Access Introduction

- a. Installation
- b. DB Connection
- c. Creating DB Table
- d. INSERT, READ, UPDATE, DELETE operations
- e. COMMIT & ROLLBACK operation
- f. Handling Errors

### KEY HIGHLIGHTS OF THIS TRAINING PROGRAM:

- ✓ Entire training programme is in Hindi Language for Better understanding.
- ✓ Special focus on Non technical and Fresher candidates.
- ✓ Resume Preparation for Fresher's and Experienced Both.
- ✓ Provides Recording of each live session which you can access from anywhere anytime for One year.
- ✓ Interview Cracking tips during live sessions.
- ✓ Provide complete notes for interview Preparation.