



Get Certified

# NetTech India



## Advance Certification Course in **Python**

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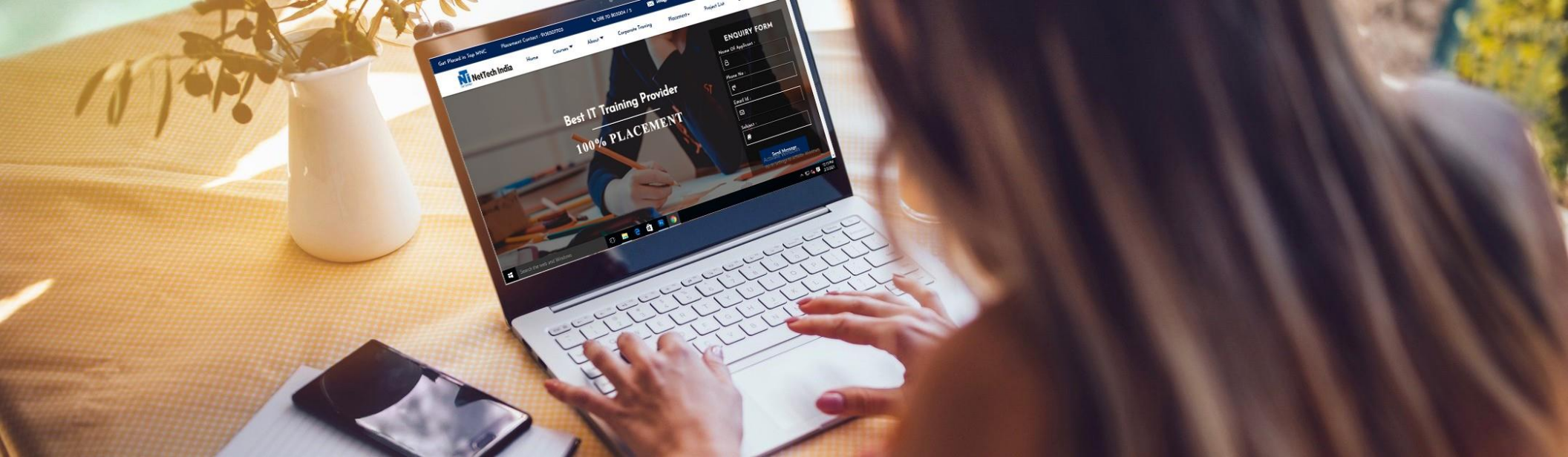
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# CERTIFICATIONS OPTIONS AVAILABLE







# ABOUT US

**NetTech India Training Institute** offers a high-quality learning experience in the field of IT training to train students on brand new technologies and train them to deliver the desired results with commercially relevant and re-organized technical skills.

The probability of achieving your dream job will keep on increasing day by day once you complete a course in **NetTech India**. We also focus on improving soft skills in terms of communication, leadership, teamwork, external appearance, and attitude which helps everyone to be professional in all the aspects of their career.



**25%**  
Theory



**75%**  
Practicals



# ABOUT PYTHON

Python is general-purpose programming language having applications in a wide the field range of web development, science, and mathematical computing to a desktop graphical user interface.

Python is easy to comprehend and the syntax feels natural. Even if you are new to this language, you can easily get a grip of it. Python comprises a large community base. There are several active forumsthat can let you handle the challenges if you are struck. It helps you to write in a language that has a greater functionality with fewlines of code.





# BENEFITS OF PYTHON

- Career Growth - Higher Pay & Position
- Encourages professional Development
- Enriches self-image and Reputation
- Enhances professional Credibility.
- Abundant Job Opportunities
- Used In Many Industries
- Global Recognition
- Secure and Flexible
- 50+ Case Studies
- 50+ Projects





# Python

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## 1. Introduction to Python

- History of Python
- Why to learn python
- How is Python Different?
- Installing Python

## 2. Python Interpreter

- Using the interpreter
- Integrated Development Environments (IDE) How to run Python programs?

## 3. Basics of Python

- Variable
- Keywords
- Statements & Comments
- Indentation
- Data types



- Static Typing vs Dynamic Typing
- Input and output
- Operators Arithmetic operator Relational Operator Assignment Operator
- Logical operator Bitwise operator Membership Operator
- Identity Operator

#### **4. Control Flow**

- If statement
  - If - else
  - If – elif -else
  - Nested if-else
  - while loop
  - for – in loop
  - Nested for loop
  - Nester while loop
  - Loop with else
  - Pass statement
  - Break and continue
-



## 5. Functions

- Basics Defining function
- function call Return statement
- Function with parameter and without parameter
- Function parameters Call by value or call by reference local and global variable
- Recursion, Anonymous (lambda) function
- User define functions
- Examples

## 6. Modules

- Defining module
- How to create a module
- Importing module
- Dir()
- Module search path
- Reloading a module
- Sys module
- Os module
- namespace



## **7. Package**

- Defining package
- How to create the package
- Importing package
- Installing third party packages

## **8.Numeric Types**

- Numeric type basics
- Hexadecimal, Octal, and Binary Notation Complex Numbers
- Typecasting Numeric Functions
- Random number generation(Using Random Modules)

## **String**

- Defining a string
- Different ways to create string Accessing elements of the string Escape sequence
- Raw string String methods String formatting Expressions



## 10. List

- Defining a list
- Creating list
- Accessing list elements of list
- Deleting list
- List methods
- Functions used with list
- List comprehension
- Implementation of stack and queue using list
- Use of Zip ()
- Matrix operations using list

## 11. Tuple

- Defining a tuple
- Creating a tuple
- Accessing elements of the tuple
- What is Immutability
- List vs tuples
- Tuple Methods Functions used with tuple
- Advantage of Tuple



## **12. Dictionary**

- Defining a dictionary
- Creating a dictionary
- Accessing elements of the dictionary
- Deleting a dictionary
- Dictionary methods
- Dictionary Comprehension

## **13. Set**

- Defining a set
- Creating set
- Set operations
- Set methods
- Set comprehension

## **14. Files**

- Defining a file
- Types of file operations
- Opening a File
- Closing file
- File modes



- File attributes
- Writing to file
- Reading from file
- Appending to file
- File positions
- Binary file
- Pickle module

## **15. Exception Handling**

- Defining an exception?
  - Default exception handler
  - Exception handling techniques
    - a. Detecting Exception (try)
    - b. Catching exceptions (catch)
    - c. Catching multiple exceptions
    - d. Raising exception (raise) Finally block
  - User-defined exceptions
-



## **16. Object-Oriented Programming**

### **OOPS concepts Defining**

#### **Class Creating object**

- Method vs function Calling methods
- Instance attribute vs class attribute
- Instance method vs class method
- Private attribute and method Static Method
- Method Overloading Constructor
- Method Overriding Constructor
- List of objects Inheritance
- Examples

## **17. Multi-Threading**

- Process-based multitasking
- Thread based multitasking
- Creating a Thread without using class
- Creating thread using class
- Sleep() method
- Join() method Getting and setting the name of the Thread Logging module
- Synchronization
- Lock concept
- Object-Oriented



- Inter thread communication
- Is\_Alive() method
- Active\_count() method
- Enumerate() method
- Current\_thread() method
- Daemon Thread

## **18. GUI Programming with Tkinter**

- Introduction to Tkinter
- Creating a window Tkinter widgets Label
- Button Entry Messagebox List
- Radio Button CheckButton Creating Frame
- Creating Menu Assignments on Tkinter
- Examples

## **19. Event Handling**

- Defining an event
  - Bind() method
  - Mouse events
  - Keyboard events
  - Examples
-



## **20. Data Base Programming**

- Introduction to MySQL.connector module, Connecting to the database by using MySQL, Creating a table by MySQL
- Performing SQL operations, Introduction to mysql, Installing mysql, Creating database using mysql
- Connecting MySQL database from python, Creating a table, Performing SQL operations
- Examples

## **21. Networking**

- Introduction to Network programming, Ip address, Port NumberSocketmodule, Server socket, Client socket, Socket methods, TCP socket, UDP socket
- Create server-client examples

## **22. Conversion of Python script to executable file**

- Defining an executable file , Deploying the application



## **23. LIVE PROJECTS**

- Create GUI and store data in the Database. (5-day session) Create a server-client program. (using TCP )

And Many More...



# WHO CAN LEARN ?

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- Anyone who wants to build a career in Data Science
- Anyone who wish to gain knowledge about Programming Students
- who are currently in college or university



# CAREER OPPORTUNITIES

- Software Engineer
- Python Developer
- Research Analyst
- Software Developer
- Product Manager
- Data Scientist
- Data Journalist
- Python Trainer
- Data Architect

**And Many More...**





# OUR RECRUITERS

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*and Many More....*

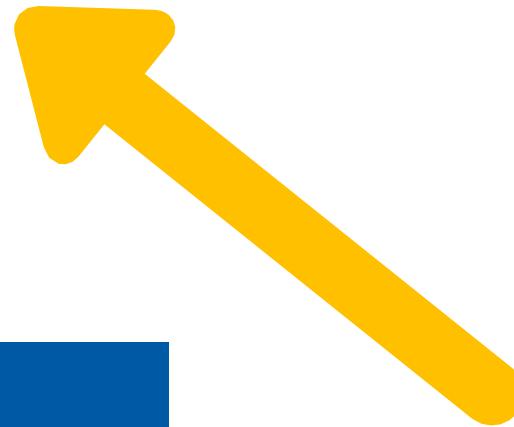


# PROCESS FOR **SUCCESS**

GET PLACED

GET TRAINED

ENROLL





# **FACILITIES OFFERED**

- Practical Training on Live Projects
- Complete Placement Assistance
- Interview Preparation
- Global Certification
- Fully functional labs
- Online / Offline Training
- Study Materials
- Expert Level Industry Recognized Training







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