

# Python Programming

## Course in Python Programming

**4 Weeks Online Course**

**4 Weeks (2 Hrs. per day)**

**Timing: - 03:00 PM to 05:00 PM**

### Objective

Introduction to Programming, Algorithm and Flowcharts to solve problems, Introduction to Python, Operators, Expressions and Python Statements, Sequence data Types, Function, File Processing, NumPy etc.

10 +2 with basic knowledge of computer.

### Eligibility

### Prerequisite

- ✓ Candidate must have latest computer/laptop with preferably 4 GB RAM or higher and Graphics Card (2 GB)
- ✓ Software: Python (can be downloaded from respective websites)
- ✓ Internet connection with good speed (*preferably 2Mbps or higher*)

### Course Fees

Rs. 1400/- incl. GST& all other charges.

### Certificate

Certificate will be provided to the participants, based on minimum 75% attendance and on performance (minimum 50% marks) in the online test, conducted at the end of the course.

### Methodology

- ✓ Instructor-led live classes.
- ✓ Instructor-led hands-on lab sessions.
- ✓ Content Access through e-Learning portal.
- ✓ Assessment and Certification

### How to Apply

- ✓ **Step-1:** Read the course structure & course requirements carefully.
- ✓ **Step-2:** Visit the Registration portal and click on apply button.
- ✓ **Step-3:** Create your login credentials and fill up all the details, see the preview and submit the form.
- ✓ **Step-4:** Login with your credentials to verify the mobile number, email ID and then upload the documents, Lock the profile and Pay the Fees online, using ATM-Debit Card / Credit Card / Internet Banking / UPI etc.

### Course Content

Day	Topic	Day	Topic	Day	Topic
Day #01	Introduction, Applications, Diff. b/w C and Python	Day #02	Python Virtual Machine (PVM), Installation, Execution of program	Day #03	Operators, Data types, Literals, Constants, Identifiers, Naming Conventions with examples
Day #04	Managing Input and Output with examples	Day #05	Concept of Indentation and if, if...else, if...elif...else statement with examples	Day #06	While loop, For loop, range() function, break and continue, pass & return statements
Day #07	Nesting of loops	Day #08	Concept of Array and its operations, Handling Strings and Characters	Day #09	List, Tuples
Day #10	Sets, Dictionary	Day #11	String Handling in Python	Day #12	Concept of Functions with Examples
Day #13	Anonymous functions (Lambda Function), Recursive Functions	Day #14	Introduction to File Handling, File Operations, Directories	Day #15	Built-in Modules, Import statement, Packages, Date and Time Modules
Day #16	Object Oriented Programming Concepts	Day #17	Classes and Objects, Encapsulation	Day #18	Constructor, Destructor and Inheritance
Day #19	Data Hiding, Method Overriding, Polymorphism	Day #20	Handling Exceptions: try...except, try...finally		

### Course Coordinator

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