

# Python Programming

## About Us

Edustrom is an initiative of CSK Technologies OPC Pvt. Ltd, established in the year 2015, headquartered at Delhi, The main activity of Edustrom is providing training on Information Technology, which is delivered to its audience all over the Country via Computer Based Training Programs, Onsite Training Programs and Company Owned learning centers. We are a fast growing group of Individual .expertise in IT Training & Placement.

## Our Aim

We aim to impart practical knowledge on Laravel to the budding technical workforce of the country. As we know that Designing and Development of Web Applications is the need of the day, and people with such skills are very much in demand. We moto to bridge the demand and supply gap of Professional C Programmers.

## Achievements

- Trained more than 350 Students in Delhi only.
- Having Classroom Training Locations and Presence Across Delhi.
- In a short span of time we reached to more than 20 corporate clients across Delhi
- Conducted Training Programs for many Premier Institutes.

## Python Programming Course Content

In this course, you will explore everything about the Python Programming Language and writing the script codes.

## Syllabus

### What will you learn?

- Course Introduction
- Course Curriculum Overview
- Python 2 versus Python 3

## Python Setup

- Command Line Basics
- Installing Python (Step by Step)
- Running Python Code
- Getting the Notebooks and the Course Material
- Git and Github Overview (Optional)

## Python Objects and Data Structure Basics

- Introduction to Python Data Types
- Python Numbers
- Introduction to Strings
- Indexing and Slicing with Strings
- String Properties and Methods
- Print Formatting with Strings
- Lists in Python
- Dictionaries in Python
- Tuples with Python
- Sets in Python
- Booleans in Python
- I/O with Basic Files in Python
- Python Objects and Data Structures

## **Python Comparison Operators**

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- Comparison Operators in Python
- Chaining Comparison Operators in Python with Logical Operators

## **Python Statements**

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- If Elif and Else Statements in Python
- For Loops in Python
- While Loops in Python
- Useful Operators in Python
- List Comprehensions in Python

## **Methods and Functions**

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- Methods and the Python Documentation
- Functions in Python
- \*args and \*\*kwargs in Python
- Lambda Expressions, Map, and Filter Functions
- Nested Statements and Scope

## **Milestone Project-01**

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- First Python Milestone Project Overview
- Solution Overview for Milestone Project 1 - Part One
- Solution Overview for Milestone Project 1 - Part Two
- Advanced Project Solution Overview

## **Object Oriented Programming**

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- Object Oriented Programming - Introduction
- Object Oriented Programming - Attributes and Class Keyword
- Object Oriented Programming - Class Object Attributes and Methods
- Object Oriented Programming - Inheritance and Polymorphism
- Object Oriented Programming - Special (Magic/Dunder) Methods

## **Modules and Packages**

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- Pip Install and PyPi
- Modules and Packages
- `_name_` and `"_main_"`

## **Errors and Exceptions Handling**

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- Errors and Exception Handling
- Pylint Overview
- Running tests with the Unit test Library

## **Milestone Project- 02**

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- Milestone Project 2 Overview

## **Python Decorators**

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- Decorators with Python Overview

## **Python Generators**

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- Generators with Python

## **Final Capstone Python Project**

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## **Advanced Python Modules**

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- Collections Module - counter
- Collections Module - default dict
- Collections Module - Ordered Dict
- Collections Module - namedtuple
- Datetime
- Python Debugger - pdb
- Timing your code - timeit
- Regular Expressions -re
- StringIO

## **Advanced Python Object and Data Structures**

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- Advanced Numbers
- Advanced Strings
- Advanced Sets
- Advanced Dictionaries
- Advanced Lists

## **Job Opportunities**

- Python developer
- Software Engineer
- Research Analyst
- Data scientist
- Data analyst
- Software Developer

## Our Training Approach

We are not limited to any number of classes or day to complete the whole course, so basically time duration depends on batch strength and their learning skills. However the average course duration is 2.5 months.

## Training Features

- Course proceeds as per student learning skills and catching power.
- Course repeat facility for all students for FREE.
- Theory and Practical classes held with every session.
- Per class 1-2 hours session.
- Students will be given adequate time to revise and practice the concepts learned in class.
- This Training Program covers Presentations, Real life Case Studies, Extensive Live Practical Demonstrations. An Experienced Faculty with a minimum experience of 3 Years will be available to provide you training and in order to help you start a career in Web Development.
- In this training program, students will get Assignments & Practicals as homework which will help them to explore the already learned concepts & to guide them towards a path for research and development on each domain.
- Focused on practical solutions to real-world development problems.

## Why Python?

- Python is beginner's friendly
- Python is easy to understand
- Python is flexible
- Python has great career opportunities
- Python works for various applications

## Why Edustrom ?

- We have been in the training sector for last 3 years
- Fastest growing in Delhi for IT training and placement.
- Course repeat facility for all students for FREE.
- No Complain from students and companies so far
- We are honest with our training and placement commitment.
- We have our own IT Job portal.
- We have more than 55 IT Companies registered with us.
- And 250/350 around programmers have been placed by us.

## Course Fee

**Online Class: ₹6,500**

**Offline Class: ₹10,000**

**Course Duration: 1.5 months**