



Python Programming

Course No. ISI-1481 5 Days Instructor-led, Hands-on

Course Description

This five-day instructor led course provides the fastest and easiest, yet most professional way to learn Python, whether you are a beginning programmer or have years of experience.

Python is one of today's fastest-growing languages. Its simple syntax makes it relatively easy to learn, and its diverse uses...from web and game programming to data analysis and data mining to scientific computing, artificial intelligence, and more!...are fueling its popularity.

Course Objectives

Upon successful completion of this course, students understand

- Introduction to Python programming
- Build on that base by learning the other essential skills that every Python programmer should have
- Develop object-oriented database and GUI programming
- Apply all the skills that you've learned as you build database and GUI programs for the real world.

Prerequisites

Students should have some experience with at least one programming language. Typically, students in this course will have already programmed in either C, C++, Java, Perl, Ruby, VB, or anything equivalent to these languages.

Course Outline

Module 1: Essential concepts and skills

- An introduction to Python programming
- How to write your first programs
- How to code control statements
- How to define and use functions and modules
- How to test and debug a program
- How to work with lists and tuples
- How to work with file I/O
- How to handle exceptions

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Module 2: Other concepts and skills

- How to work with numbers
- How to work with strings
- How to work with dates and times
- How to work with dictionaries
- How to work with recursion and algorithms

Module 3: Object-oriented programming

- How to define and use your own classes
- How to work with inheritance
- How to design an object-oriented program

Module 4: Database and GUI programming

- How to work with a database
- How to build a GUI program