

Advanced Python Course

Python is one of the most popular programming languages in the world, Python can be easy to pick up whether you are a first time programmer or you're experienced with other languages. Python is the number one language choice for machine learning, data science and artificial intelligence. Huge companies like Google use it in mission critical applications like Google Search. In this course you will learn Python latest features, design patterns, popular frameworks, and more advanced topics. By the end of the course, you will also get to know why Python is the best for analyzing Data and Machine Learning

You Must Know!

Duration:

40 Hours

Who should attend?

Existing python programmers who want to improve their career options by learning the Python programming language

Course modules

Module 1 – Python 3.11 Latest Features

- Additional String Methods
- New Parser
- Recent and Improved Modules
- Python API Changes

Module 2 – Advanced Python Features

- Lambda Expressions
- Mutability in Python
- Regular Expressions

Module 3 – Asynchronous Development

- Processes and Threads
- Python GIL
- Multiprocessing
- Using sync and await

Module 4 – Project Dependencies

- Virtualenv
- Pipenv

Module 5 – Design Patterns with Python

- Design Patterns Overview
- Behavioral Patterns
- Creational Patterns
- Structural Patterns

Module 6 – Virtual environments

- creating and maintaining virtual environments
- project dependencies

Module 7 – Web Scrapping

- BeautifulSoup
- HTML Structure
- Complex HTML Parsing
- Locators
- Introduction to Automation with Selenium
- What is Selenium?
- Using Python for automation testing

Module 8 – Back-End Development with python

- Popular and Recent Frameworks
- Flask vs Django vs fastAPI - Which is Better?

Module 9 – Introduction to Python, Big Data & Data Science

- Why Python Is the Best for Analyzing Data?
- Processing and Modeling Libraries
- Data Visualization with MarcoCloudlib

Module 10 – Python and Machine Learning

- Training Our AI with Tensor Flow



המרכז הבינלאומי
ללימודי הייטק וחדשנות

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תל אביב
המרץ 2

המכללה שומרת לעצמה את הזכות לערוך מעת לעת, לפי שיקול דעתה, שינויים בתכנית הלימודים, היקף שעות הלימוד, סגל המדריכים וכד', ולא יראו בכל מידע המפורט בדפי מידע של המכללה כהתחייבות כלשהי מצד המכללה.