Python Mastery Kickstarter Course Syllabus

Basics, Terminology & Concepts, IDE

Elementary syntax & operations

Data type hierarchy, Data structures

Type dynamics manipulation in depth

Control statements & Iterators

Functions & Object- oriented programming

Exceptions & File Handling

Modules & Final projects

Note: At end of each section practices & quizzes will unlock in your profile including the needed course review materials

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01

Basic Terminology & Concepts

What is a program?
What is a programming language?
Algorithm & flowchart
Debugging

Python culture and community
What is python? & It's implementation
What python can do?
Why python?
    compiled vs interpreted
Different phases of a Python project

What is a Python Package?
What is a package manager?

Package Management in Depth:
    Pip
    Conda
    Pip vs Conda

Installing Python

Platforms & IDEs for python
    Anaconda
    Jupyter notebook
    Jupyter lab
    Miniconda vs Anaconda

Installing Anaconda
    Add Anaconda to Path (Optional)

How to install a python package
    Reloading a module
    Dependency
    Dependency hell
    Installing packages using pip
    Install packages using Conda

Getting started with Navigator
    Managing Navigator
    Virtual Environment: What is it and how it works?
    Managing Environments Using Navigator
    Managing Python
    Managing packages

Python version history

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PYTHON MASTERY
Zero to Hero

04

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Functions

Fruitful functions and void functions

Build-in functions

Importing modules
   Dynamic imports

User define functions

Calling a function

Parameters and arguments
   Default parameter value

Return and Pass statements

Function recursion

Emulating Switch-Case Statements

Dir function

Help function

Eval function

Exec function

Scope and namespaces

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Final Projects

Convert py to exe (pyinstaller)

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