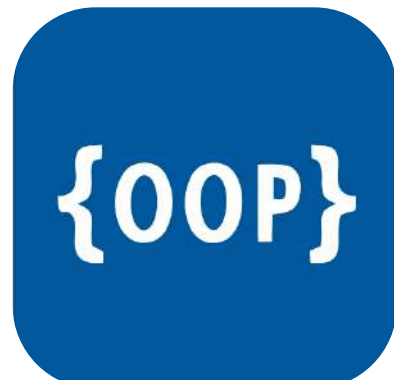




01

Python

LEVEL 2

Experience Level: **INTERMEDIATE**Number of Classes: **50**Age Range: **ALL AGES**

01

Revision of Basic Python

- Fundamentals of Programming
 - Algorithms
 - Structures
- Printing.
- Strings.
- Variables.
- Operators.
- String Indexing.
- Slicing.
- Conditional statements.
- If, elif, else blocks.
- Iterations.
- Loops.
- For loops and while loops.
- List operations.
- Iterating over lists.



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02

02

Revision of Basic Python

- Unpacking tuples.
- Functions.
- Function definitions.
- Parameters.
- Sets.
- Input and Output.

03

Building Websites with Flask

- Returning HTML templates.
- Adding a Navigation Menu.
- Adding CSS Styling.
- Creating a Python Virtual Environment.
- Deploying Websites to a Live Server.
- Maintaining the Website.

04

Building Graphical User Interfaces with TKinter

- Introduction to TKinter.
- Setting up GUI with Widgets.
- Callback Functions.

05

Numpy and Pandas

- Data Frames.
- Jupyter Notebook.
- Indexing and Slicing.
- Geocoding.



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06

Building Database Applications

- Introduction to Working with Databases.
- Connecting and Inserting Data to SQLite via Python.
- Selecting Inserting Deleting and Updating SQLite Records.
- Introduction to PostgreSQL Psycopg2.
- Selecting Inserting Deleting and Updating PostgreSQL Records.

07

Building Database Applications

- User Interface Design.
- Building the Front-end Interface.
- Building the Back-end.
- Connecting the Front-end to the Back-end.
- Creating a Standalone Executable Version of the Program.

08

Object Oriented Programming

- Object Oriented Programming Explained.
- Turning an Application into OOP Style.
- Inheritance.



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