CWH PYTHON SYLLABUS FLASK ASLO INCLUDED from udemy

- Taking User Input in Python
- Comments, Escape Sequences & Print Statement
- Operators in Python
- Understanding Escape Sequence Characters
- Practice Set 1
- If-Else Conditional Statements
- Match Case Statements in Python
- For Loops in Python
- While Loops in Python
- Break, Continue, and Pass Statements
- Printing the table of 56
- Control Flow and Loops - Practice Set
- Strings in Python
- String Slicing and Indexing
- String Methods and Functions
- String Formatting and f-Strings
- Strings
- String Manipulation
- Your Python Interview
- Strings - Practice Set
- Defining Functions in Python
- Function Arguments & Return Values
- Lambda Functions in Python
- Recursion in Python
- Modules and Pip - Using External Libraries
- Variable Scope and Docstrings
- Functions & Modules - Practice Set
- Introduction to Lists
- List Methods
- Tuples and Operations on Tuples
- Sets and Set Methods
- Dictionaries and Dictionary Methods
- Data Structures - Practice Set
- Introduction to OOP
- Classes and Objects in Python
- Constructors in Python
- Instance and class attributes
- Inheritance and Polymorphism
- Method Overriding and Operator Overloading
- Object Oriented Programming - Practice Set

- Decorators in Python
- Getters and Setters
- Static & Class Methods
- Magic/Dunder Methods
- Exception Handling and Custom Errors
- Map filter and reduce
- Walrus operator
- Args and kwargs
- Python Advanced Concepts - Practice Set
- File I/O in Python
- Read, Write, and Append Files
- OS and Shutil Modules in Python
- Creating Command Line Utilities
- File IO - Practice Set
- Virtual Environments & Package Management
- Requests Module - Working with APIs
- Regular Expressions in Python
- Multithreading in Python
- When and how to use AI?
- ChatGPT – The optimal way to use it
- Github Copilot, Cursor AI & Llama coder
- Working with LLM APIs
- Build a Simple Calculator
- Who wants to be a Millionaire Game
- PDFMerger: Merge PDFs using Python
- Build a News App Using APIs
- Build a Drink Water Reminder App
- Build an AI Powered Virtual Assistant
- Introduction to Flask
- Creating our first Flask App
- Creating a Static Site
- Serving Static Files in Flask
- Handling Forms in Flask
- Jinja 2 Templating in Flask
- Conditionals, Loops & Comments in Jinja2
- Template Inheritance
- Changing static folder & url_for function in Flask
- Query Parameters in Flask
- Creating APIs in Flask using jsonify
- Message Flashing in Flask