Python Programming

(From the Scratch)

With

Junaid Khateeb

Live Online Lectures

(just like being in a classroom from your home or office or just anywhere)

Course Curriculum

Part 1 : Getting Started with Python

- History of Python.
- Installing Python.
- Introduction to IDE's like Jupyter Notebook,Spyder,Anaconda.
- Architecture and Library Collection in Anaconda.

Part 2 : Python Programming Basics

- Introduction to various Datatypes in Python.
- The Idea Of indentation.
- Understanding Python Interpreter.
- Typecasting in Python.

Part 3 : Lists,Tuples & Dictionary

- How to Create a List,Tuple and Dicctionary.
- Operations on List,Tuples & Dictionary.
- Compare and Contrast List ,Tuple & Dictionary.

Part 4: Control Structures in Python

- If Statement.
- For Statement.
- While Statement.
- Elif Statement.
- Break,Continue and Pass Statement.

Part 5: Functions in Python

- What are Functions.
- How to define functions in Python.
- Concept of Function Overloading.
- Defining __init__ functions.

Part 6: Decorators in Python

- Role of Decorators in Python.
- Using Functions as objects.
- Defining a function inside a function.

Part 7: Strings in Python

- Creating Strings in Python.
- Various string operations including striping and striding.

Part 8: Object Oriented Programming in Python

- Creating Classes and Objects.
- Data abstraction in Python.
- Inheritance in Python Classes.
- Concept of Method Overriding.

Part 9: Exception Handling in Python

- What are Exception.
- Exceptions Vs Errors.
- Catching Exceptions.
- Reporting exceptions.
- User Defined Exceptions.

Part 10: GUI (Graphical User Interface) design in Python

- Introduction to Tkinter Programming.
- Creating Forms.
- Adding Components like Labels,Command Buttons,Option Buttons,Dropdown Boxes etc.
- Adding Canvas to Tkinter Frame.

Part 11: Working with NumPy & Pandas

- Introduction to Numerical Python and Pandas Library.
- Importing Data from Excel sheets.
- Performing operations on Dataframes and sequences.

Part 12: Database Programming using Python

- Creating a database.
- Creating Dumps for a Database.
- Connecting to a Database in the backend.
- Adding,Retrieving and modifying the data in the database using Python Front End.

Part 13: Introduction Webscraping

- Understanding Scraping
- Implementing ebscraping on Instagram

Part 14: Data visualization in Python

- Introduction to MATPLOTLIB
- Creating all Different Kinds of Graphs including,Bar graphs,Scatter plots,line graphs,worm graphs etc.

Part 15: Regular Expression and lambda Functions in Python

- Defining and Using Regular Expressions.

- Understanding Lambda Funtions.

- Implementing Lambda Functions in Projects.

Project Based Approach

After every set of Concepts ,we implement a project using all those concepts. The Course Includes the following projects.

1) A Game Design Based on Course curriculum Part 1 to Part 8.
2) Election Data analysis Using Pandas and Matplotlib.
3) Designing a complete Project validation form using Regular Expressions and Lambda Functions (GUI & Database based)
4) A Project on How to design an Audio Player
5) A Project on Web scraping on Instagram.

Salient Features Of the Course

1) Completely Hand on Course.

2) Online Support from our App and Website.

3) Theoretical concepts covered too, as they are important for certification and Interviews.

4) Certification to be provided at the end of the course.

About Junaid Khateeb

Qualification : M.E. Computer Engineering
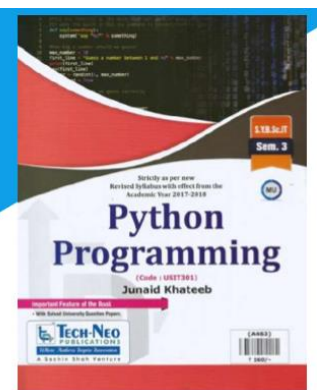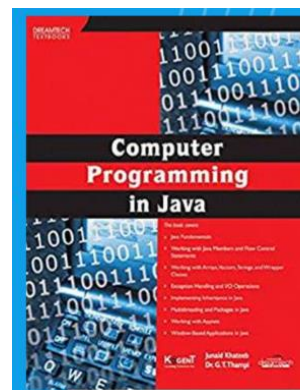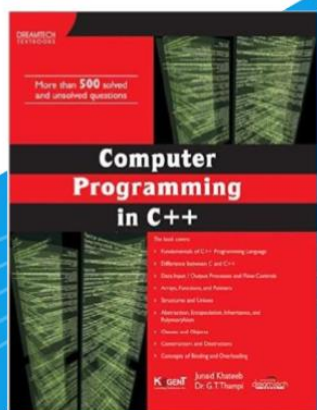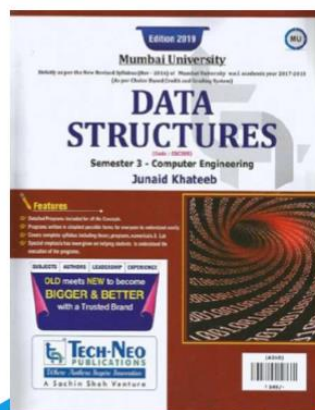
Teaching Experience : 17 Years

Profile: Founder of Khateeb Group of Insitutes & Junkminds.com

Technologies Taught: C , C++ , JAVA , Python , Machine Learning , Artificial Intelligence , R-Programmming

Concepts Taught : Object Oriented Programming,Database Management System,Operating System,Data Structures,Software Engineering,Discrete Mathematics,Analysis of Algorithms,Distributed Processing.

Number Of students trained : over 10,000 and counting.

Author of the Following books:

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