



Python Programming

(Training – Certification –
Internship)

(From the Scratch with 4 projects and an

Live Classroom Lectures

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 Dictionary.
- ✚ 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

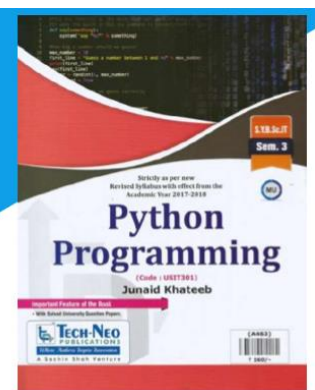
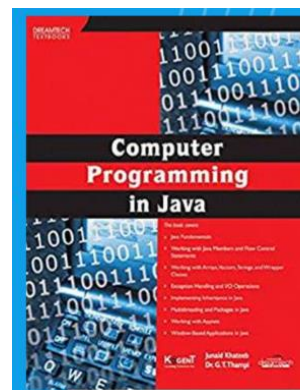
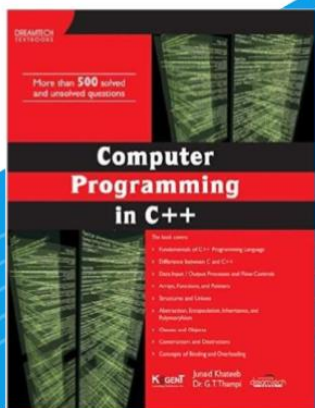
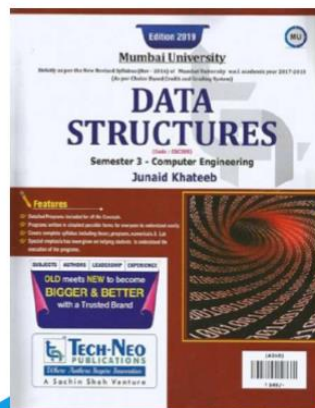
Profile: Founder of Khateeb Group of Insitutes & Junkminds.com

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

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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