

Includes...

T - Training

C- Certification (International)

- Internship

Python Programming

(From the Scratch)

+

R -Programming With

Live Online Lectures

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

Course Curriculum- Python

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: Web Scraping in Python

- Using Beautiful Soup library.
- **Extracting data from Instagram and facebook.**

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) Web Scraping from Instagram.
- 6) Olympic data analysis.

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.

Course Syllabus - R

- 1) Introducing to R
- 2) R Data Structures
- 3) Help functions in R
- 4) Vectors
- 5) Scalars
- 6) Declarations
- 7) recycling
- 8) Common Vector operations Using all and any Vectorized operations
- 9) NA and NULL values Filtering
- 10) Vectorised if-then else
- 11) Vector Equality
- 12) Vector Element names
- 13) Creating matrices
- 14) Matrix operations Applying Functions to Matrix Rows and Columns
- 15) Adding and deleting rows and columns Vector/Matrix Distinction
- 16) Avoiding Dimension Reduction
- 17) Higher Dimensional arrays lists
- 18) Creating lists General list operations
- 19) Accessing list components and values
- 20) applying functions to lists
- 21) Creating Data Frames Matrix-like operations in frames
- 22) Merging Data Frames Applying functions to Data frames
- 23) Factors and Tables factors and levels Common functions used with factors
- 24) Working with tables Other factors and table related functions
- 25) Control statements Arithmetic and Boolean operators and values

- 26) Default values for arguments Returning Boolean values
- 27) functions are objects Environment and Scope issues
- 28) Writing Upstairs Recursion Replacement functions
- 29) Tools for composing function code Math and Simulations in R
- 30) S3 Classes S4 Classes
- 31) Managing your objects Input/Output accessing keyboard and monitor
- 32) reading and writing files accessing the internet
- 33) String Manipulation
- 34) Graphics Creating Graphs Customizing Graphs Saving graphs to files
- 35) Creating three-dimensional plots
- 36) Linear models Non-linear models Time Series and Auto-correlation Clustering

About Junaid Khateeb

Qualification: M.E. Computer Engineering

Teaching Experience : 17 Years

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

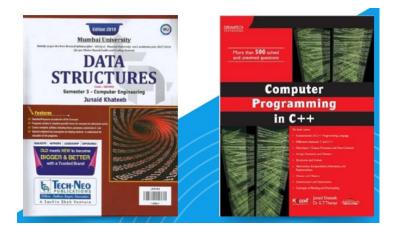
Technologies Taught: C, C++, JAVA, Python, Machine Learning, Artificial Intelligence, R-

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:





Connect with Junaid Khateeb

Contact: +91-9820183864

Whatsapp: 9820183864 (preferred)

Email: Junaidkhateeb@gmail.com

Facebook: https://www.facebook.com/junaidkhateeb

Instagram:@junaidkhateeb

Linkedin: www.linkedin.com/in/junaid-khateeb-72655abb

Corporate address: Khateeb Institute of Technical Education,

203, Landmark Building, S.V. Road, Borivali (w), Mumbai.