Aibytec
Empowering the Future

Aibytec Python Beginner Course Outline

Aibytec offers AI course beginner levels. Learn the skills to succeed in AI.

Course duration = 2 month (1.5 hours of 3 classes a week)

Fee = 5,000 pkr /month

Module 1: Fundamental of Python Basics (Weeks 1-8)

Week 1: Python Basics

- Print
- Variables for Strings
- Variables for Numbers
- Math expressions: Familiar operators
- Variable Names: Legal and Illegal
- Math expressions: Unfamiliar operators
- Math expressions: Eliminating ambiguity
- Concatenating text strings
- Comments

Week 2: Conditions and User Input

- if statements
- Comparison operators
- else and elif statements
- Testing sets of conditions
- if statements nested
- Getting input and converting data
- Changing case

Week 3: Lists and Tuples

- Lists
- Lists: Adding and changing elements
- Lists: Taking slices
- Lists: Deleting and removing
- Lists: popping elements
- Tuples

Week 4: Loops and Dictionaries

- for loops
- for loops nested
- Dictionaries: What they are
- How to code one
- Picking info from dictionaries
- Keys and values versatility
- Adding items
- Removing and changing items
- Looping through values
- Looping through keys
- Looping through key-value pairs

Week 5-6: Complex Data Structures and Functions

- List of dictionaries
- Pick info from list of dictionaries
- Append new dictionary
- Dictionary with lists
- Get info from list in a dictionary
- Dictionary within dictionary
- Access nested dictionaries
- Functions
- Functions as variables
- Local vs. global variables
- Functions within functions

Week 7-8: OOP, File Handling, and Data Storage

- loops (review advanced loop usage)
- Classes

- Inheritance
- Data files
- Storing data
- Retrieving data
- Modules
- CSV files
- Load data from CSV
- Retrieve CSV data
- Append to CSV
- Save list/dict to JSON
- Retrieve list/dict from JSON