

Beginner Course: Python Programming Essentials

Duration: 14–18 weeks | 2 hours/week

Goal: Build strong Python fundamentals

Module 1: Introduction to Programming

- - What is Python? Why Python?
- - Installing Python & IDEs (IDLE, VS Code, Jupyter)

Module 2: Python Basics

- - Variables and Data Types
- - Operators and Expressions
- - Input/Output
- - Type Conversion

Module 3: Control Structures

- - Conditional Statements (if-elif-else)
- - Loops (for, while)
- - Loop control (break, continue, pass)

Module 4: Functions & Modules

- - Defining and calling functions
- - Arguments and return types
- - Importing modules
- - Built-in vs. user-defined modules

Module 5: Data Structures

- - Lists, Tuples

- - Dictionaries, Sets
- - List comprehensions

Module 6: File Handling

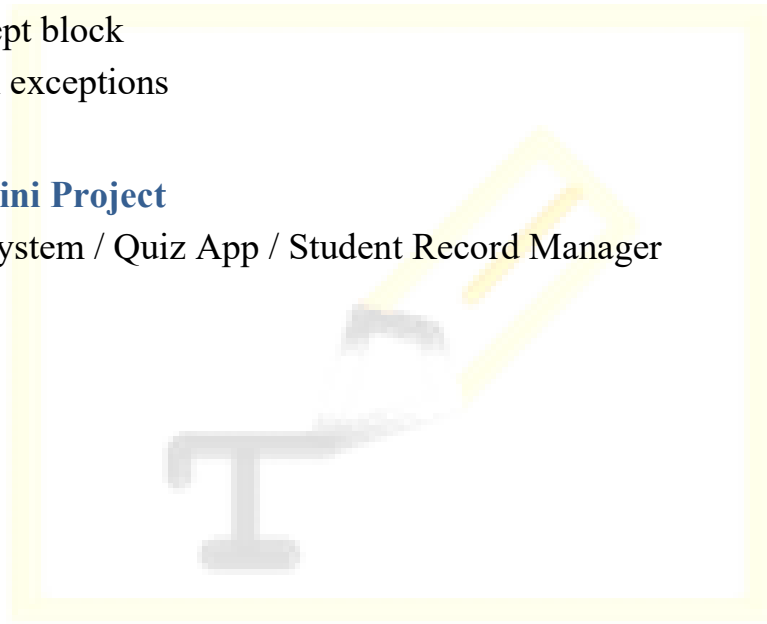
- - Reading/Writing files
- - CSV file processing
- - Working with text data

Module 7: Error Handling

- - Try-Except block
- - Common exceptions

Module 8: Mini Project

- - Billing System / Quiz App / Student Record Manager



Tutoring Assignments