

PYTHON (BEGINNER)

Embark on a coding journey that introduces the essentials of Python, one of the most versatile programming languages, through engaging problem-solving activities and practical applications.



CORE FEATURES

- **Python Fundamentals:** Focused on introducing Python and programming concept implementation with help of projects.
- **Project Based Learning:** Learn coding by making simple projects and programs.
- **30 Sessions, 30+ Quizzes, Activities and Projects.**

CONCEPTS COVERED

Algorithmic Thinking:

- Problem Statements
- Problem Solving
- Conditionals and Loops
- Nesting Structures

Functions in Python:

- Built-in Functions
- User-defined
- Modularization of code
- Reusability of code

Basic Python Constructs:

- Input/Output
- Data Types
- Variables
- Control Structures
- Indentation in Python
- Strings
- Lists
- Tuples

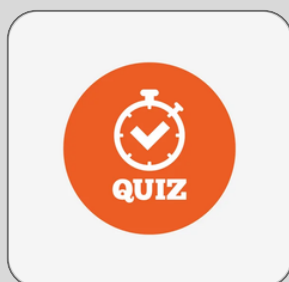
Python Modules Covered:

- random - Random and RNG
- datetime - Date and Time
- pytz - Timezones
- requests - Interacting with APIs
- time - Timestamps
- math - Math Functions
- string - Strings in Python

PROJECT SHOWCASE



Dice Roll



Quiz App



Countdown App



NEWS App

PYTHON (ADVANCED)

Steer through more modules and functionalities of Python in this courses that expands your practical experience in understanding how coding syncs with real-time world.



CORE FEATURES

- **Python at it's best:** Learn concepts and program related to Python that focus on using functions, recursion and modules related data handling and visualization.
- **30 Sessions, 30+ Quizzes, Activities and Projects.**

CONCEPTS COVERED

Algorithmic Thinking:

- Advanced Data Types
- ADT Applications
- Complex Functions
- Recursion
- String Manipulation
- Formatting
- List and Dictionary

Exceptions:

- Built-in and Basic Exceptions
- Exception Handling
- else and finally
- Raising Exceptions

File I/O:

- Reading and Writing Files
- Handling Files
- File Operations and Modes

APIs and Networking:

- Simple REST APIs
- Handling API Data
- Building Functional Applications
- HTTP Methods and Status Codes

Python Modules Covered:

- os - Operating System Interactions
- plotly - Plot Graphs
- matplotlib - Plot Stats and Visualization
- dash - Web Analytics
- Requests - HTTP Requests

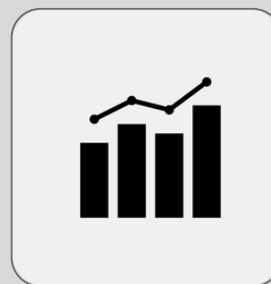
PROJECT SHOWCASE



Weather App



Currency Converter



Graphs



Charts