# PYTHON BEGINNERS’ CURRICULUM

## Introduction to Python Programming, Python Data Types, Variables, and Basic I/O Operations

* Introduction to Python Programming, code, and comments.
* Python Data Types, Variables, and Variable Naming.
* Basic I/O Operations, Operators

PROJECT: Band Name Generator Project.

## Arithmetic Operations, Boolean Values, Logical Operations, and Conditional Execution

* Arithmetic, Logical and Bitwise Operations.
* Boolean Values and Conditional Execution.
* Program Flow and Nested Conditionals.

PROJECTS: Simple Calculator, Tip Calculator.

## Lists, List Processing, Strings, String Processing, Loops and Random Module

* Lists, Tuples, Iterables (Strings Inclusive), List methods, and String methods.
* Range function, For and While Loops.
* Random module.

PROJECT: Rock-Paper-Scissors Project.

## Functions, Dictionaries and Exceptions

* Function Arguments, Returning Values, and Recursion.
* Dictionaries and their methods.
* Exceptions, Exception Raising, and Exception Handling.

PROJECTS: Advanced Calculator with Intermittent State and Validation.