

PROGRAMMING USING PYTHON

COURSE CODE: MOCCAP-A06

DURATION: 10 Hrs.

Course Prerequisites:

Basic knowledge about Computer.

What you will learn?

1. Working ON Python Environment (Replit)
2. Python Operations and Data Types
3. Importing Libraries
4. Loops in Python and Binary Search Implementation
5. List, Tuples, Dictionaries
6. Intermediate level python codes.

Course Description:

This program is designed for students and working professionals from various educational backgrounds and different age groups to give them an opportunity to code in Python without having any prior experience. Through this online program, learners can get access to a world-class curriculum in Programming and make coding look easy.

COURSE DETAILS

MODULE 1: (Introduction Part)

TOPIC 1: Working on Replit

LECTURE 1.1: Introduction to Replit

TOPIC 2: Variable, Input Statement and Data type

LECTURE 2.1: Introduction to Variable and Input

LECTURE 2.2: Input Variable and Literals

LECTURE 2.3: Data types in Python

TOPIC 3: Operators and String

LECTURE 2.1: Operators and Expression in Python

LECTURE 2.2: Strings in Python

MODULE 2: (Strings and Loops)

TOPIC 1: Characters, Quotes and Strings

LECTURE 1.1: Escape Character and Quotes

LECTURE 1.1: String Methods

TOPIC 2: If Statement

LECTURE 2.1: Introduction to If, Else statement

LECTURE 2.2: If, Else and Else if statement in Python

TOPIC 3: Libraries

LECTURE 1.1: Importing Libraries

MODULE 3: (While and for loops)

TOPIC 1: While loops

LECTURE 1.1: Introduction to While Loop

LECTURE 1.1: While loop tutorial

TOPIC 2: For Loop

LECTURE 2.1: Introduction to For loop

LECTURE 2.2: Examples using for loop

LECTURE 2.2: More on range and for loop without range

TOPIC 3: Printing Methods

LECTURE 1.1: Formatted Printing

MODULE 4: More on loops

TOPIC 1: For, while and Nested loops

LECTURE 1.1: (for vs. while loop)

LECTURE 1.1: Nested for loop

TOPIC 2: Some examples of nested loops

LECTURE 2.1: Examples of nested loops

LECTURE 2.2: Another nested loops example

TOPIC 3: Statements

LECTURE 1.1: Break pass and continue Statements

MODULE 5: Search and sorting in Lists

TOPIC 1: Introduction

LECTURE 1.1: Introduction to list

LECTURE 1.1: Birthday Paradox

TOPIC 2: Search in a list

LECTURE 2.1: Naive search in list

TOPIC 3: Sorting in Python

LECTURE 1.1: Obvious Sort