

Module 1 : Introduction

3 lectures

- ▶ 1. Introduction To The Course
- ▶ 2. Installing Python
- ▶ 3. Installing PyCharm

Module 2 : Basic Python Concepts

10 lectures

- ▶ 1. Hello world
- ▶ 2. Mathematical operations
- ▶ 3. Strings
- ▶ 4. Input function
- ▶ 5. String operations
- ▶ 6. Variables
- ▶ 7. Increment Decrement
- ▶ 8. Intro to pycharm
- ▶ 9. Coding challenge
- ▶ 10. Numeric functions

Module 3 : Control Structures In Python

7 lectures

- ▶ 1. If statement
- ▶ 2. If else
- ▶ 3. Elif
- ▶ 4. Range function
- ▶ 5. For loop
- ▶ 6. For loop 2
- ▶ 7. While loop

Module 4 : Functions & Modules In Python

8 lectures

- ▶ 1. Code reusing using functions
- ▶ 2. Return statement
- ▶ 3. Passing arguments to a function
- ▶ 4. Passing functions as arguments
- ▶ 5. Modules
- ▶ 6. Recursion 1
- ▶ 7. Recursive function(2) factorial
- ▶ 8. Local and global variables

Module 5 : FILES, EXCEPTIONS AND ERRORS

7 lectures

- ▶ 1. Errors Exceptions
- ▶ 2. Exception Handling
- ▶ 3. File handling (opening and closing)
- ▶ 4. Reading the data from a file
- ▶ 5. Adding the data to a file
- ▶ 6. Appending data to a file
- ▶ 7. Reading and adding the data

Module 6 : DATA STRUCTURES AND STRINGS

12 lectures

- ▶ 1. Dictionaries
- ▶ 2. Dictionaries functions
- ▶ 3. List 1
- ▶ 4. List Operations
- ▶ 5. List function 1
- ▶ 6. List functions 2

- ▶ 7. List slicing
- ▶ 8. List comprehension
- ▶ 9. Sets
- ▶ 10. String functions
- ▶ 11. String formatting
- ▶ 12. Tuple

Module 7 : FUNCTIONAL PROGRAMMING

5 lectures

- ▶ 1. Functional programming
- ▶ 2. Lambda function
- ▶ 3. Filter
- ▶ 4. Map
- ▶ 5. Iterator and generator

Module 8 : OBJECT ORIENTED PROGRAMMING

11 lectures

- ▶ 1. Introduction to object oriented programming
- ▶ 2. Defining a class(1)
- ▶ 3. Defining a class(2)
- ▶ 4. Constructors and Destructors
- ▶ 5. Functions vs object oriented programming
- ▶ 6. Inheritance

- ▶ 7. Single level inheritance
- ▶ 8. Multi-level inheritance
- ▶ 9. Multiple Inheritance
- ▶ 10. Operator overloading
- ▶ 11. Data hiding

Module 9 : REGULAR EXPRESSIONS

7 lectures

- ▶ 1. Regular expression
- ▶ 2. Match and findall
- ▶ 3. Search
- ▶ 4. Sub
- ▶ 5. Characters and character sequences
- ▶ 6. Characters and character sequences 2
- ▶ 7. Characters and character sequences 3