



Core Python Programming Syllabus

Module 1	2 Hours - 2 Topics
<ul style="list-style-type: none">• Introducing Python (Day 1)• Installing Python on Windows (Day 1)	
Module 2	2 Hours - 1 Topic
<ul style="list-style-type: none">• Installing Python on Linux and other Operating Systems (Day 2)	
Module 3	2 Hours - 2 Topics
<ul style="list-style-type: none">• Using quotes and escape character (Day 3)• String Concatenation and Repeater Operators (Day 3)	
Module 4	2 Hours - 1 Topic
<ul style="list-style-type: none">• Using Mathematical Operators with Numbers (Day 4)	
Module 5	2 Hours - 3 Topics
<ul style="list-style-type: none">• Creating and Using Lists (Day 5)• len() with Lists (Day 5)• in Operator with Lists (Day 5)	
Module 6	2 Hours - 2 Topics
<ul style="list-style-type: none">• Deleting List Element (Day 6)• Common list and operations (Day 6)	
Module 7	2 Hours - 2 Topics
<ul style="list-style-type: none">• Using Dictionaries (Day 7)• Accessing Dictionary values (Day 7)	
Module 8	2 Hours - 2 Topics
<ul style="list-style-type: none">• Adding, Replacing and Deleting key-value pairs (Day 8)• Functions: get(), keys(), values() and items() (Day 8)	
Module 9	2 Hours - 1 Topic
<ul style="list-style-type: none">• Using for Loops (Day 9)	
Module 10	2 Hours - 3 Topics
<ul style="list-style-type: none">• Using Sequence Operators and Functions with Strings (Day 10)• Using the in Operator (Day 10)• Indexing and Slicing Strings (Day 10)	
Module 11	2 Hours - 4 Topics
<ul style="list-style-type: none">• Defining Functions (Day 11)	

- **Using Parameters and Return Values (Day 11)**
- **Using Arguments and Defaults Parameters (Day 11)**
- **Using Global Variables and Constants (Day 11)**

Module 12 **2 Hours - 3 Topics**

- **Introduction to Object-Oriented Python (Day 12)**
- **Creating Classes, Methods and Objects (Day 12)**
- **Using Constructor and Attributes (Day 12)**

Module 13 **2 Hours - 3 Topics**

- **Using Class Attributes and Static Methods (Day 13)**
- **Understanding Object Encapsulation (Day 13)**
- **Private Attributes and Methods (Day 13)**

Module 14 **2 Hours - 3 Topics**

- **Controlling Attribute Access (Day 14)**
- **Inheritance (Day 14)**
- **Polymorphism (Day 14)**

Module 15 **2 Hours - 4 Topics**

- **The open Function (Day 15)**
- **Input from Text Files (Day 15)**
- **Output to Text Files (Day 15)**
- **Handling Exceptions (Day 15)**

Module 16 **2 Hours - 2 Topics**

- **Using Modules in Programs (Day 16)**
- **Writing Modules (Day 16)**

Module 17 **2 Hours - 1 Topic**

- **Importing Modules (Day 17)**

Module 18 **2 Hours - 1 Topic**

- **Functions: Recurssive function (Day 18)**

Module 19 **2 Hours - 1 Topic**

- **Lambda Function (filter(), map()) (Day 19)**

Module 20 **2 Hours - 1 Topic**

- **EXAM (Day 20)**