

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

Module 15	2 Hours - 4 Topics
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- **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
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- **Using Modules in Programs (Day 16)**
- **Writing Modules (Day 16)**

Module 17	2 Hours - 1 Topic
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- **Importing Modules (Day 17)**

Module 18	2 Hours - 1 Topic
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- **Functions: Recurssive function (Day 18)**

Module 19	2 Hours - 1 Topic
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- **Lambda Function (filter(), map()) (Day 19)**

Module 20	2 Hours - 1 Topic
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- **EXAM (Day 20)**