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Python Full Stack Developer

Duration : 4 Months

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Module -1

PYTHON FUNDAMENTALS

- Introduction
- Features of Python
- Python Versions
- Identifiers
- Data Types
- Fundamental Data Types vs Immutability

Module -2

- OPERATIONS
 - Arithmetic Operators
 - Relational Operators OR
 Comparison Operators
 - Equality Operators
 - Logical Operators
 - Bitwise Oeprators
 - Shift Operators
 - Assignment operators
 - Ternary Operator OR Conditional Operator
 - Special operators
 - Output Statements

Module -3



FLOW CONTROL

- Conditional Statements
- Iterative Statements
- Transfer Statements
- Loops with else Block
- del Statement
- Difference between del and None

Module -4

LIST DATA STRUCTURE

- Creation of List Objects
- Accessing Elements of List
- List vs Mutability
- clear() Function
- Nested Lists
- Nested List as Matrix
- List Comprehensions

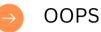
Module -5

FUNCTIONS

- Built in Functions
- User Defined Functions
- Parameters
- Return Statement
- Returning Multiple Values from a Function
- Types of Arguments
- Case Study
- Types of Variables



Module -6



- What is Class?
- How to define a Class?
- What is Object?
- What is Reference
- Variable?
- Self Variable
- Constructor
- Concept
- Types of Variables
- Local Variables
- Overloading
- Overriding
- Abstract Method
- Abstract class
- Interface

Module -7

→ EXCEPTION HANDLING

- Syntax Errors
- Runtime Errors
- What is Exception
- Default Exception Handing in Python
- Python's Exception Hierarch

Module -8

> TYPES OF FILES

- Opening a File
- Closing a File
- Various Properties of File Object
- Writing Data to Text Files
- Reading Character Data from Text Files
- The with Statement
- The seek() and tell() Methods
- How to check a particular
 File exists OR not

Module -9



PYTHON DATABASE PROGRAMMING

- Storage Areas
- File Systems
- Databases
- Python Database Programming
- Working with Oracle Database
- Installing cx_Oracle
- How to Test Installation
- Working with MySQL Database
- Commonly used Commands in MySQL

Module -10

PYTHON LOGGING

- Logging Levels
- How to implement Logging
- How to configure Log File in over
- writing Mode
- How to Format Log Messages
- How to add Timestamp in the Log Messages
- How to Change Date and Time Format
- How to write Python Program
- Exceptions to the Log File
- Problems with Root
 Logger
- Need of Our Own Customized Logger
- How to Create seperate Log File based on Caller
- Advantages of Customized
 Logger

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