

PHYTHON

Course Content

Course Content	
<p style="text-align: center;">Core Python</p> <p>Introduction</p> <ul style="list-style-type: none"> ❖ History ❖ Features ❖ Setting up path ❖ Working with Python ❖ Basic Syntax ❖ Variable and Data Types ❖ Operator <p>Conditional Statements</p> <ul style="list-style-type: none"> ❖ If ❖ If- else ❖ Nested if-else ❖ Looping ❖ For ❖ While ❖ Nested loops <p>Control Statements</p> <ul style="list-style-type: none"> ❖ Break ❖ Continue ❖ Pass <p>String Manipulation</p> <ul style="list-style-type: none"> ❖ Accessing Strings ❖ Basic Operations ❖ String slices ❖ Function and Methods <p>Lists</p> <ul style="list-style-type: none"> ❖ Introduction ❖ Accessing list ❖ Operations ❖ Working with lists ❖ Function and Methods 	<p>Tuple</p> <ul style="list-style-type: none"> ❖ Introduction ❖ Accessing tuples ❖ Operations ❖ Working ❖ Functions and Methods <p>Dictionaries</p> <ul style="list-style-type: none"> ❖ Introduction ❖ Accessing values in dictionaries ❖ Working with dictionaries ❖ Properties ❖ Functions ❖ Comprehensions ❖ List Comprehension ❖ Tuple Comprehension ❖ Dictionary Comprehension ❖ Set Comprehension <p>Functions</p> <ul style="list-style-type: none"> ❖ Defining a function ❖ Calling a function ❖ Types of functions ❖ Function Arguments ❖ Anonymous functions ❖ Global and local variables ❖ Iterators & Generators ❖ Iterator ❖ Generator ❖ Decarator <p>Modules</p> <ul style="list-style-type: none"> ❖ Importing module ❖ Math module ❖ Random module ❖ Packages ❖ Composition

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Course Content

Input-Output

- ❖ Printing on screen
- ❖ Reading data from keyboard
- ❖ Opening and closing file
- ❖ Reading and writing files
- ❖ Functions

Exception-Handling

- ❖ Exception
- ❖ Exception Handling
- ❖ Except clause
- ❖ Try ? finally clause
- ❖ User Defined Exceptions

Advance Python

OOPs concept

- ❖ Class and object
- ❖ Attributes
- ❖ Inheritance
- ❖ Overloading
- ❖ Overriding
- ❖ Data hiding
- ❖ Regular expressions
- ❖ Match function
- ❖ Search function
- ❖ Matching VS Searching
- ❖ Modifiers
- ❖ Patterns
- ❖ CGI
- ❖ Introduction
- ❖ Architecture
- ❖ CGI environment variable
- ❖ GET and POST methods
- ❖ Cookies
- ❖ File upload

Database

- ❖ Introduction
- ❖ Connections
- ❖ Executing queries
- ❖ Transactions
- ❖ Handling error

Networking

- ❖ Socket
- ❖ Socket Module
- ❖ Methods
- ❖ Client and server
- ❖ Internet modules

Multithreading

- ❖ Thread
- ❖ Starting a thread
- ❖ Threading module
- ❖ Synchronizing threads
- ❖ Multithreaded Priority Queue

GUI Programming

- ❖ Introduction
- ❖ Tkinter programming
- ❖ Tkinter widgets

Sending email

Troubleshooting

- ❖ Diving In
- ❖ Getting to the Command Line
- ❖ Running Python on the command line

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