



Dear Student,

Based upon your enquiry we are pleased to send you the course curriculum for Python

Given below is the brief description for the course you are looking for:

Learn to CODE in PYTHON

Python Virtual Machine(PVM)

Byte-Code and Interpretation

Python Flavours

Python's Core Data Types

Mutability vs Immutability

Garbage Collection

if Statements

- General Format
- Basic Examples
- Multiway Branching
- Block Delimiters: Indentation Rules
- Truth Values and Boolean Tests
- The if/else Ternary Expression

Loops

- Loop Coding Techniques
- Counter Loops: range
- Sequence Scans: 'while' and 'range' vs 'for'
- Sequence Shufflers: range and len
- Nonexhaustive Traversals: range Versus Slices
- Changing Lists: range Versus Comprehensions
- Parallel Traversals: zip and map
- Generating Both Offsets and Items: enumerate

Lists

- Sequence Operations
- Type-Specific Operations
- Bounds Checking

- Nesting
- Comprehensions
- List Iteration and Comprehensions
- Indexing, Slicing, and Matrices
- Changing Lists in Place

Dictionaries

- Mapping Operations
- Nesting Revisited
- Missing Keys: if Tests
- Sorting Keys: for Loops
- Iteration and Optimization
- Mapping Operations
- Nesting Revisited
- Merging dicts
- defaultdict
- ordered vs unordered dict

Tuples

- Why Tuples?
- Operations on Tuples
- Slicing

Sets

- Update
- Discard
- Union
- Intersection

Files

- Binary Bytes Files
- Unicode Text Files
- Comma-separated Values(csv) files
- JSON
- XML files
- Context Manager - 'with'

Numeric Type Basics

- Numeric Literals
- Built-in Numeric Tools
- Python Expression Operators
- Numbers in Action

- Variables and Basic Expressions
- Numeric Display Formats
- Comparisons: Normal and Chained
- Division: Classic, Floor, and True
- Integer Precision
- Complex Numbers
- Hex, Octal, Binary: Literals and Conversions
- Other Built-in Numeric Tools

Other Numeric Types

- Decimal Type
- Fraction Type
- Booleans

Strings

- Operations on a string
- Indexing and Slicing
- String Conversion Tools
- String Methods
- Method Call Syntax
- Methods of Strings
- String Method Examples: Changing Strings II
- String Method Examples: Parsing Text
- Other Common String Methods in Action
- The Original String Module's Functions

String Formatting Expressions

- Formatting Expression Basics
- Advanced Formatting Expression Syntax
- Advanced Formatting Expression Examples
- Functions
- Scopes and Nested Functions
- Recursive Functions
- lambda functions
- Generator Functions: 'yield' vs 'return'
- *args & **kwargs
- Closures
- Decorators

Regular Expressions

- 're' module
- character class
- Quantifiers
- search()
- match()
- grouping of matched patterns
- regex Compilation

Modules and Packages

- Module Creation
- Module Usage
- The import Statement
- The from Statement
- The from * Statement
- Mixed Usage Modes: `__name__` and `__main__`
- Command line arguments
- argparse module
- packages
- 'itertools' module
- 'collections' module
- importing and using modules such as 'sys', 'os', 'random'
- etc.
- datetime module
- timeit module

Object Oriented Programming(OOPS)

- Classes and Objects
- Constructor and new()
- Destructor
- semi-private and private members
- Operator Overloading
- Static and Class Methods
- '@property' – getters and setters
- Inheritance
- super() method

Exception Handling

- Adding the code into an exception block
- raising Exceptions
- Handling exception classes

- 'else' and 'finally'
- built-in exception classes
- OS exceptions
- Warnings
- exception traceback
- Exception Hierarchy

ADVANCED SECTION

Desktop Application Development using **PyQT5 GUI Library**

- package installation using 'pip'
- QApplication
- QMainWindow
- QWidget
- PyQt5 Widgets

QLabel, QLineEdit, Qsplitter etc.

- PyQt5 Containers
- Layouts
- Form Layout
- Horizontal and Vertical Layout
- Grid Layout
- Signals and Slots
- MVC(Model View Controller Framework)
- Model based Views
- Item based Widgets
- QStandardItemModel
- QStandardItem
- QListView
- QTreeView
- Menus and Dialogs
- MessageBox
- Multithreading(QThread)
- Single tasking
- Multitasking
- Process vs Thread
- Creating Thread
- ProgressBar

Qt Designer(PyQt5)

- Creating, loading and maintaining a new app design
- Drag and Drop feature
- Object Inspector
- Property Editor

UIC

- Loading a design using **uic**
- Modifying the design
- Merging designs

--> **PROJECT** on PyQT5

Trainer Profile: -

- **MCA Qualified and 12+ Years' Experience in IT Field.**
- **Hands on Experience in Python and Django Framework**

Course Duration	1.5 Months
Fees	Call at 9015041412 to know

Available Discounts

(Any one discounts are applicable for single student)

(New Course Content Effective from 14th June 2019)

- **Flat 10% Discount** if joining on the **same day of demo or enquiry.**
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