MSME-Tool Room, Guwahati

Tool Room & Training Centre, Guwahati

Course Time Table

SUBJECT : PYTHON   DURATION : 2 WEEKS   PER DAY : 3 hrs

OBJECTIVES:

At the end of Session Participants Should Know:
- ❖ **Creation of object-oriented programs with Python classes.**
- ❖ **Learn how to design and program in Python.**
- ❖ **Able to import python libraries.**

Day	Course Content
Day 1	✓ Online software installation guidance with self-introduction and interaction. ✓ Software installation guidance. ✓ Introduction to TRTC. ✓ Introduction to PYTHON ✓ Variable ✓ Identifier ✓ Keywords ✓ Statements & Comment
Day 2	✓ Indentation ✓ Data types(number,string,list,tuple,set,dictionary) ✓ Type casting, Type conversion ✓ Input and output ✓ Operators in Python – Arithematic operator, Relational operator, Assignment operator, Logical operator, Bitwise operator, Identity operator
Day 3	✓ The If statement and its' related statement ✓ An example with if and it's related statement ✓ Execution of Programs ✓ The for loop ✓ The while loop ✓ The range statement ✓ Break & Continue ✓ Assert ✓ Practice exercise on looping
Day 4	✓ List Comprehensions ✓ Nested List Comprehensions ✓ Tuples ✓ Dictionary Comprehensions ✓ Exercise on data structure ✓ Execution of programs
Day 5	✓ Basic date and time classes ✓ Different time formats

	✓ Converting between formats ✓ Formatting dates and times ✓ Execution of programs
Day 6	✓ Function Basics ✓ Defining function ✓ Function call ✓ Return statement ✓ Execution of programs ✓ Function parameters ✓ Call by value or call by reference ✓ Local and global variable ✓ Recursion ✓ Execution of programs
Day 7	✓ Anonymous (lambda) function ✓ Defining module ✓ How to create module ✓ Importing module ✓ Exception Classes & Custom Exceptions ✓ Execution of programs
Day 8	✓ OOP concepts ✓ Defining a class ✓ Creating object ✓ Method vs function ✓ Calling methods ✓ Instance attribute vs class attribute ✓ Instance method vs class method ✓ Execution of programs
Day 9	✓ Private attribute and method ✓ Static method ✓ Method Overloading ✓ Constructor ✓ List of objects ✓ Inheritance
Day 10	✓ Method overriding ✓ Operator overloading ✓ Abstract method ✓ Abstract class ✓ Execution of programs
Day 11	✓ JSON in python ✓ Python PIP ✓ User input ✓ String formatting
Day 12	✓ File Handling ✓ Python read files ✓ Write/create files ✓ Delete files ✓ Handling File Exceptions ✓ Execution of programs ✓ Execution of programs

Day 13	✓ Python MySQL
	✓ MySQL database
	✓ Install MySQL Driver
Day 14	✓ Connecting to database
	✓ Performing SQL operations
	✓ Review, Feed Back Session & Validation

N.B:
*Classes & Demonstration will be conducted every day for a time period of one hour & doubt clear
Session of one hour with all day online/on-call support.

*Hard copy of Certificate will be send to Participant's address by post or it may also be collected from our
Centre when situation get normalized.

*Each trainee can avail a free one-week Internship (Practical/Project based) training at our Centre after this
pandemic situation get normalized.

You may contact with coordinator for course related further information.
Course Coordinator: Sudeep Basak
Contact No:9707658224/6026750624