

NITTSD Certified

School Maths Programmer Level 2

Implement Maths Concepts Through Programming & Automation with IIT Bombay Alumni Foundation







We Guarantee You that, You Can Develop Your Projects by Your Own After This Training Program



Module 1 - Python Programming Basic Revision

- Script Programming
- Python Identifiers
- Python Keywords
- Python Lines and Indentation
- Python Multi-Line Statements
- Quotation in Python
- Comments in Python



- Using Blank Lines
- Multiple Statements on a Single Line
- Variables and Data Types in Python
- Multiple Assignment in Python Programming

Module 2 - Python Data Types

- Standard Data Types in Python
- Data Type Conversion in Python
- Python Input and Output
- Types of Different Operators in Python
- Changing the Order of Evaluation

Module 3 - Jumping Statements in Python Programming

- Break Keyword
- Continue Keyword
- Pass Keyword

Module 4 - SETs in Python Programming

- Introduction of SETs in Python
- Facts about the SETs



- Operations on the SETs
- Inbuilt Functions in the SETs
- Methods in the SETs

Module 5 - LOOPS in Python Programming

- While loop
- The Infinite Loop
- Using else Statement with Loops
- For loop
- Break , Continue , Pass

Module 6 - Lists in Python Programming

- Python Lists
- Accessing Values in Lists
- Updating Lists
- Delete List Elements
- Basic List Operations
- Indexing, Slicing, and Matrixes
- Built-in List Functions & Methods



Module 7 - Tuples in Python Programming

- Python Tuples
- Accessing Values in Tuples
- Updating Tuples
- Delete Tuple Elements
- Basic Tuples Operations
- Indexing, Slicing, and Matrixes
- No Enclosing Delimiters
- Built-in Tuple Functions

Module 8 - Functions in Python Programming

- Calling a Function
- Pass by reference Vs. value
- Function Arguments
- Required arguments
- Keyword arguments
- Default arguments
- Variable-length arguments



Module 9 - Functions & other related concepts

- The Anonymous Functions
- The return Statement
- Scope of Variables
- Global vs. Local variables
- The global statement



Live Projects :

School Maths Programmer Level -2

1	Find Out GCD or HCF of 2 Numbers
2	Find Out LCM of 2 Numbers
3	Email Id Slicer
4	Exam Result Analyzer
5	Count Down Timer Application
6	Dice Rolling Game Design
7	Home Grocery Calculator Design
8	To find the factorial of a number
9	To take multiple inputs from the user, by split function method
10	To take multiple inputs from the user, by map function method
11	To take multiple inputs from the user, by multiple input function method
12	To implement continue statement
13	To implement break statement
14	To implement pass statement



15	To count the number of odd and even numbers in the list
16	Consider a list: List1=[10,-15,3,8,0,9,-6] to replace positive integers by
	1,negative integers by -1 and 0 by 0
17	Consider a list: List1=[2,1,2,2,1,3] to count the most frequently occurring
	element of the list and print it
18	To take elements of a list from the user
19	To iterate over list using list comprehension
20	To create square of each element in a list
21	To print square of all the even and odd numbers in a list
22	Write a Python program to reverse a tuple-
	x= (5,10,15,20)
23	Write a python program to convert a list to a tuple