

भारत सरकार द्वारा मान्यता प्राप्त कम्प्यूटर सेंटर



Affiliation No. 88004590

An ISO 9001:2008 Certified Institute

GLOBAL INFOTECH

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Affiliated from NIELIT (National Institute of Electronics and Information Technology)

Ministry of Electronics & IT

Government of India

Python

Duration :- 2 Months

Course Fee :

Eligibility :- NA

Units	Topics
1	Introduction : python programming language, introduction to program and debugging, formal and natural language
2	Variables , Expression and Statements : Values and types, variables, variables name and keywords, statements, operators and operand, order of operations, operations on string, composition and comments
3	Conditionals and Iteration : modulus operator, boolean expressions, logic operators, conditional, alternative execution, nested conditionals and return statements, while statements, encapsulation and generalization
4	Functions and recursion : function calls, type conversion and coercion, math functions, adding new function, parameters and argument, recursion and its use
5	String : string a compound data type, length, string traversal, string slices, comparison , find function, looping and counting
6	Lists : list values, length, membership, operations, slices, deletion, accessing elements, list and for loops, list parameters and nested list
7	Tuples and Dictionaries : mutability and tuples, tuple assignment, tuple as return values, random numbers and list of random numbers, counting and many buckets, dictionaries operations and methods, sparse matrices, aliasing and coping
8	Classes and objects : creating classes, creating instance objects, accessing attributes, overview of OOP terminology
9	Object oriented programming terminology : Class Inheritance, Overriding Methods, Data Hiding, Function Overloading
10	Files and exceptions : text files, writing variables, directories, pickling, exceptions
11	MySQL Database
12	Using Databases with Python : Installation of MySQL Database Software, Verifying MySQL in the windows Operating system , Installing MySQLdb Module, Verifying the MySQLdb Interface Installation, Working with MySQL Databse, Using MySQL from python, Retrieving All Rows from a Table, Inserting Rows into a Table, Deleting Rows into a Table, Updating Rows in a Table, Creating Database Tables through python.
13	Building GUI using python : tkinter programming, tkinter widgets like button, canvas, entry, frame, label, list box, menu, message, scale, text, spinbox, labelframe, tkMessageBox, standard attributes, geometry management
14	Numpy arrays : numpy - datatype, array operations, statistical functions, broadcasting