National Institute of Electronics and Information Technology Lucknow

Name of Group: IT Division

Name of Course: Certificate Course in Python Programming.

Objective: This course is designed to provide acquire the Knowledge of Python Programming. After completion of the course the student will be able to understand the Python Programming Concept and their features.

Duration: 4 Weeks

Eligibility: 10 +2 with Basic Knowledge of Computer.

Course Fees (Proposed): Rs. 4000/- (Plus GST).

Registration Process: Candidates have to apply in prescribed application form. The forms can be collected from NIELIT Lucknow Centre. The duly filled form along with the course fees has to be submitted at NIELIT Lucknow Centre. The Fees deposited is Non-Refundable.

Course Content:

Duration	Content
Week-1	Introduction, Applications, Diff. b/w C and Python. Python Virtual Machine (PVM), Installation, Execution of program. Operators, Data types, Literals, Constants, Identifiers, Naming Conventions with examples. Managing Input and Output with examples. Concept of Indentation and if, if...else, if...elif...else statement with examples.
Week-2	While loop, For loop, range () function, break and continue, pass & return statements. Nesting of loops. Concept of Array and its operations, Handling Strings and Characters. List, Tuples. Sets, Dictionary.
Week-3	String Handling in Python. Concept of Functions with Examples. Anonymous functions (Lambda Function), Recursive Functions. Introduction to File Handling, File Operations, Directories. Built-in Modules, Import statement, Packages, Date and Time Modules.
Week-4	Object Oriented Programming Concepts. Classes and Objects, Encapsulation. Constructor, Destructor and Inheritance. Data Hiding, Method Overriding, Polymorphism. Handling Exceptions: try...except, trying...finally.

* There will be 2 Hours Session per day.
* These sessions will include Theory Classes, Demo and Practical.

Mode of Payment: Fees can be paid either by swiping debit/credit card.

For any queries and more details please contact Raja Ram on **7706009313**