National Institute of Electronics and Information Technology Gorakhpur

Name of Group: IT Division

Name of Course: Programming in Python

Objective: This training facilitates classroom and laboratory learning, letting students develop competence and confidence in solving the complex logics by simplicity of Python.

Duration: 4 Weeks

Eligibility: B.TECH. (CS/IT/EC) or MCA/M.Sc. (IT/CS/ Electronics), BCA /PGDCA, Diploma in Computer /Electronics Stream, B.Sc. or B.A, A/B/C Level, Working Professional. Basic knowledge of computing is desirable

Course Fees (Proposed): Rs. 1000/- per week (+ GST)

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

Course Content:

Modules:	Duration	Contents
Module 1	4 Week	- Introduction to Python: Python and its features, Concept of byte code and Python Virtual Machine(PVM), Memory management and Garbage collection in Python, Comparison of Python with C and Java - Installation of Python and its packages, Execution of a Python Program, Datatypes, Literals, Constants, Identifiers, Naming Conventions, Types of operators, Input and output statements in Python - Control statements: if, if...else, if...elif...else, while and for loops, the break, continue, pass and return statement. - Concept of Array and its operations, Handling Strings and Characters, List and Tuples - Functions: Concept of Functions, Anonymous functions (Lambda Function), Recursive Functions. - Modules and Packages: Built-in Modules, Import statement, Namespaces and Scope, Packages, Date and Time Modules - File Handling: File Operations, Directories in Python - Object Oriented Programming: Concept of Classes and Objects, Encapsulation, Data Hiding, Inheritance, Method Overriding, Polymorphism. - Handling Exceptions: try...except, try...finally

- ❖ There will be 3 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 or by Challan.

**For any queries and more details please contact
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