

# Python

**8 Weeks / 120 Hrs. (3 Hrs. per day)**

**Medium of Instruction: Bilingual (English & Hindi)**

## Objective

Python is the fastest growing programming language globally, mainly due to its simplicity and large community. Python is easy to use, powerful and versatile programming language, making it a great choice for developers. This course introduces programming and the Python language. Students are introduced to core programming concepts and the course includes practical hands on various tools available for writing and running Python programs with coding examples and assignments.

8<sup>th</sup> class

## Eligibility

## Prerequisite

- ✓ Candidate must have latest computer/laptop with preferably 4 GB RAM or higher and Graphics Card (2 GB)
- ✓ Internet connection with good speed (preferably 2Mbps or higher)

Rs. 1500/- + GST

## Course Fees

## Certificate

Certificate will be provided to the participants after the online test, of the course.

- ✓ Instructor-led live classes
- ✓ Instructor-led hands-on lab sessions.
- ✓ Content Access through e-learning portal
- ✓ Assessment and Certification

## Methodology

## Intended Users

The users can be people enthusiastic to jump into programming, as the course is designed to be a ground-up approach where Python is taught from scratch. Anyone who wants to get started in data science, will go for this course since Python is widely used in the world of data science and growing rapidly in its popularity.

- ✓ Write, test and debug Python code with confidence.
- ✓ Analyze the real life problems and write programs in Python to solve them.
- ✓ Develop efficient algorithms using various constructs of Python.
- ✓ Acquire the most important fundamental programming concepts that help getting job.
- ✓ Learn and have good skills to create applications

## Outcome

## Course Content

### Python

- Python Statements, Variables and Data Types
- Python Input/output, Operators
- Python Flow Control and Conditional Statements
- Python Data Structures: Lists, Strings, Tuples, Set, Dictionary
- Python Functions and Scope of Variables
- OOPS Concepts, Classes
- Inheritance, Operator Overloading
- File handling in Python, Exception Handling
- Python Module and Package

### Faculty

<b>Ms Anita Budhiraja</b>	<b>Dr Sarwan Singh</b>	<b>Ms Suman</b>
<b>MCA, MTech(C Level)</b>	<b>Ph.D (CS)</b>	<b>B.Tech (CSE)</b>
<b>Mob. No. 9815988717</b>	<b>Mob. No. 9815621657</b>	<b>Mob. No. 8894014655</b>
<b>a.budhiraja@nielit.gov.in</b>	<b>sarwan@nielit.gov.in</b>	<b>suman@nielit.gov.in</b>