

About Python

Python is a programming Language which can be utilized for a wide range of applications. It is a great language for learners due to its comprehensibility and other auxiliary components intended to make it straightforward, Python isn't constrained to essential usage. It controls a portion of the world's most complex applications and site.

COURSE CONTENTS

❖ CORE PYTHON

- Introduction to Python
- Feature of Python
- Limitation of Python
- Flavors of Python
- Python Versions
- Installation of Python
- **Data Types**
 - Int, Float, Complex, bool, str,
 - Bytes, butearray
 - List, Tuple, Range, Set
 - frozenSet Data Type
 - oct Data & None Data Type
 - Base Conversions, Slicing of Strings
- **TYPE CASTING**
 - Int(), float(), complex(), bool(), str() Fundamental Data

- Fundamental Data Type vs Immutability
- Escape Characters
- Constraints
- Basic Operators
- Decision Making, Loops
- Date & Time
- del Statement
- Difference between del & None
- String Data Type
- List Data Structure
- Tuple Data Structure
- Dictionary Data Structure
- Functions
- Generators
- Modules & Packages

❖ ADV PYTHON

- **OOP's**
- Class, Object, Constructor, Destructors, Instance Variable, Static Variable, Types of Methods, Setter & Getter, Inner Class, Polymorphism, Method Overloading, Method Overriding, Abstract Method, Abstract Class, Interface, Concrete class vs Abstract Class vs Interface, Public, Private & Protected Members
- **Exception Handling**
 - Syntax Error, Runtime Error, Default Exception Handling, Control Flow in try-exception, try with Multiple exception

Blocks, Default Exception Block, finally Block, Types of Exceptions.

- **File Handling**

Types of files, Opening & Closing of File, Writing & Reading Data from Text File. Handling binary data, Handling CSV file. Zipping & Unzipping File.

- **Multithreading**

Creating Thread, isAlive(), join(), synchronization, Inter Thread Communication, wait(), notify()

- **Network Programming**

Socket, Server Socket

- **Python Database Programming**

- **Regular Expression**

- **CGI Programming**

- XML Processing

- GUI Programming

Eligibility: 12^h and Above

Duration: 2 Months (120 hrs)

Timing: Mor. 7:30 to 10 AM
Eve. 6:00 to 8:30 PM

Fees: Rs. 6,600/-

About Government Polytechnic Nagpur

Government Polytechnic, Nagpur is one of the prime Institutions of Government of Maharashtra established in 1914. This Institute imparts technical education at Diploma and Post Diploma levels and is well known for its excellence at State level and National level. Institute has been accredited by National Board of Accreditation, New Delhi.

About GTEC

- Our Institute is working with Python/ JAVA / J2EE technology.
- Our curriculum updates from batch to batch with latest technologies
- Our mode of presentation on projector are flash animations and PDF documents
- We are providing an excellent opportunity to learn analyzing problem, design, implementation, testing and development during the course part of curriculum.
- We are providing project development.
- Successful students from our institute are already placed in Companies Like InfoSys, Q ConnQT, Air Infotech etc.
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