



PYTHON

Programming & development

Course Curriculum

Basic + Intermediate +Advanced – 60 Hours



Python Basics

- Introduction to Python
- Get Started Hello World program
- IDLE for Compiling & Running program
- Basic Data Types and Assignments
- Identifiers and Indentation
- Data Operations
- Sequence Types, Tuples, Lists
- · Operators and Expressions
- Dictionary and Sets
- Control Structure
- Functions
- Variable Scope Global, local and Non Local
- Logging and Debugging
- Modules and Packages
- Python execution environment & tools

Python Intermediate

- Lambda Functions
- Comprehensions List, set and dictionary
- Extending Built-in Types
- Custom Collection classes
- Iterators
- Decorators
- Generators
- Streams
- Context Manager
- Functional Tools

POSITIVE QUADRAI



Python Advanced

- Files Handling and Globbing
- Exception Handling
- · Date, Time and Calendar API's
- Command Line Frameworks
- Regular Expressions and Parsing
- OOPS Concepts
- Classes and objects
- Instance and Instantiation
- User Defined Classes
- Member variables and Methods
- constructors and Destructors
- Super class
- Default Attributes and Methods
- Inheritance and Override methods
- Polymorphism
- Function and Operator Overloading
- Abstract Classes
- Multiple Inheritance
- Pseudo Private Attributes and Functions
- New _ _get attribute_ _
- Encapsulation and Intercepting Attribute Access
- · Class and Static Method
- Properties and Descriptors
- Coding Style & Guidelines
- Unit Testing
- Documentation and Best Practices
- Distributing Applications



Web: www.positivequadrant.in Email: positivequadrants@gmail.com Contact: 7045855443 / 8691858181

- Assignment and Test
- Open Discussion
- Project

