

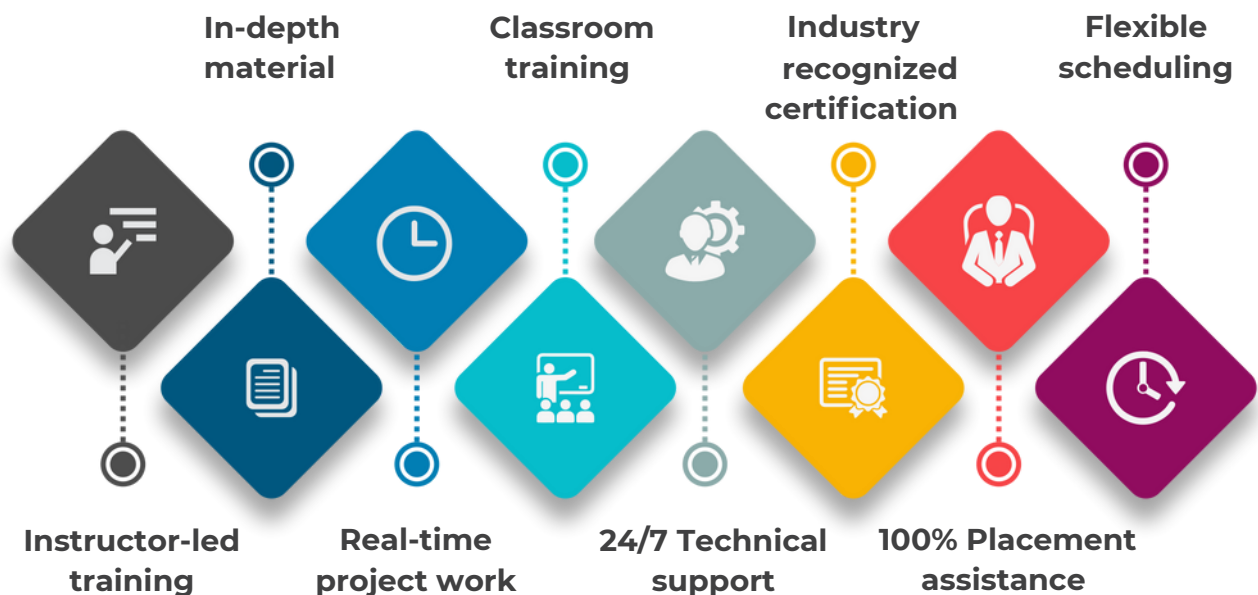
ABOUT COURSE

Python & Adv. Python

“Wishing to become a Python Developer? Whether you’re in Bangalore or prefer online learning, this program equips you with Core Python, Advanced Python, and hands-on real-time projects to build a strong and rewarding career in full stack development.



PROGRAM FEATURES



WHO CAN DO Python COURSE

Anyone interested in building web applications – whether a fresher, IT professional, or career switcher – can do this course (online or offline).



**Freshers/
Graduates/Students**



**Job
Seekers**



**Working
Professionals**

OUR LEARNERS WORK AT

accenture



cognizant

amazon

Flipkart

GLOBUSSOFT
TECHNOLOGY AHEAD OF TIME

WEBENZA
WORLD WITHOUT BOUNDARIES

nextwebi

GeekyAnts

And
many more...

COURSE CONTENT

Python Full Stack

MODULE : 01

Python Basics

- Introduction to Python
- Variables & Data Types
- Operators & Expressions
- Input / Output
- Conditional Statements
 - if
 - elif
 - else
- Looping (for, while, nested loops)

MODULE : 02

Data Structures in Python

- Strings & String Methods
- Lists & List Comprehensions
- Tuples
- Sets & Frozen Sets
- Dictionaries
- Iteration
- Built-in Functions

MODULE : 03

Functions & Modules

- Defining & Calling Functions
- Function Arguments (positional, keyword, default, variable-length)
- Scope of Variables
- Recursion
- Anonymous Functions (lambda)
- Modules & Packages
- Python Standard Libraries

MODULE : 04

Object-Oriented Programming (OOPs)

- Classes & Objects
- Constructors & Destructors
- Inheritance (single, multiple, multilevel, hybrid)
- Polymorphism & Method Overriding
- Encapsulation & Abstraction
- Magic/Dunder Methods

MODULE : 05

Advanced Python Concepts

- Iterators & Generators
- Decorators
- Context Managers
- Comprehensions
 - list
 - dict
 - set
 - generator
- Python Memory Management & Garbage Collection

MODULE : 06

Data Handling & Processing

- NumPy:
 - Arrays,
 - Indexing,
 - Universal Functions
 - Array Processing
- Pandas:
 - Series
 - DataFrames
 - Indexing, Reindex, Missing Data, GroupBy, Merge/Join/Concat, Data I/O

MODULE : 07

Pandas

- Series:
 - Creating Series from lists, dicts, arrays
 - Indexing, slicing, accessing values
- DataFrame:
 - Creating DataFrames
 - Column and row operations
 - Attributes and methods
- Data Input/Output
- Data Selection & Indexing
- Data Cleaning
- Data Transformation

MODULE : 08

Data Visualization (Matplotlib)

- Introduction to Matplotlib
- Basic Plotting Commands
- Multiple Plots on Same Canvas
- Subplots & Figure Customization
- Legends, Labels, Titles
- Colors, Line Styles, Line Widths
- Special Plot Types (Bar, Pie, Histogram, Scatter)

MODULE:09

Advanced Topics & Final Project

- Regular Expressions (re module)
- Multithreading & Multiprocessing
- Capstone Project using Python & Advanced Concepts