COURSE BROCHURE

PROGRAMMING IN PYTHON

Reinforce High Tech Learning

Table of Contents

InternsForge

About this programme

What is PYTHON?

- Python is an interpreted, dynamic, high-level, flexible programming language. Applications can be developed using an Object Oriented approach. A variety of high-level data structures are provided by this simple and easy-to-learn language.

Why is PYTHON important?

- Programming in Python is easy, reliable, and powerful, so it plays a significant role in most types of software development projects. Python is the language of choice for everyone. The Python language is used across all industries to create lightweight components as well as full-featured enterprise applications. The possibilities of Python software development are virtually limitless, if you have the right talent.

What can you do with PYTHON?

- Python offers a wide range of business applications. With Python applications ranging from web development and GUI programming to Big Data analysis and custom enterprise solutions, it seems each day they become more powerful. In addition, powerful frameworks like Django, CherryPy, Tornado, and Flask offer plenty of room for improvement. Accordingly, Python is most commonly utilized in businesses for Data Science, Machine Learning, Backend Development, Game Development, and Custom Enterprise Applications.

Course Curriculum

Module 01

Course Introduction

- Install & setup
- Our First Python Program
- Printing in Python
- Strings in Python
- Variables and Types
- Numeric Data Types in Python
- Expressions

Module 02

Proogram Flow Control in python

- Introduction to Blocks and Statements
- if Statements
- More on if, elif and else
- Conditional Operators
- Using and, or, in Conditions
- Boolean Expression True and False
- for loops
- while loops

Module 03

Lists & Tuple

- Lists
- Immutable Objects
- Mutable Objects
- Binding Multiple Names to a List
- Sorting Lists
- Tuples are Immutable
- Constants in Python

Module 04

Functions

- Defining a function
- Program flow when calling a function
- Parameters and arguments
- Debugging with parameters

Module 05

Dictionaries & sets

- What is a dictionary?
- Iterating over a dictionary
- Adding items to a dictionary
- Changing values in a dictionary
- Removing items from a dictionary
- Using `in` with a dictionary
- Dictionary menu challenge solution
- Introduction to sets
- Python sets
- Implications of sets being unordered
- set membership
- Testing set membership is fast
- Adding items to a set
- Using a set to remove duplicate values

Course Curriculum

Module 06

Reading & Writing files in Python

- Introduction
- Files and directories
- Introduction to the command prompt or terminal
- Paths
- Text files
- Reading from a text file
- Opening a file using `with'

Module 07

Modules & Functions in Python

- Modules and import
- The standard Python library
- WebBrowser Module
- Time and DateTime in Python
- Functions in Python

Module 08

Object Orientated Python

- Object Orientated Programming and Classes
- Instances, Constructors, Self and more
- Class Attributes
- Methods Part 1
- Methods Part 2
- Non Public and Mangling
- DocStrings and Raw Literals
- Album class and More on DocStrings
- Artist class and import Albums
- Load data and Write Checkfile
- Write OOP Version
- Getters and Properties
- Remove Circular References Challenge

Module 09

Using Databases in Python

- Introduction to Databases
- Database Terminology
- Sqlite3 Install on Windows
- Sqlite3 Install on a Mac
- SQLite3 Install on Ubuntu Linux
- Introduction to SQLite
- More with SQL using SQLite
- SQL in Python
- Connections, Cursors and Transaction
- SQL Injection Attacks

Course Journey

STEP 1

1st Month training

Students come from a variety of backgrounds, it is important that they be able to quickly understand. To make things better, our first month will be packed with training so that students can get a head start.

STEP 2

2nd Month project Managemnet

Solving highly complex problems will help students to have both fundamental skills and analytical skills. Project handling will improve the student's ability to collaborate with new peers, building teamwork and group skills.

STEP 3

1 Year course access

Learners can access recorded sessions for a whole year to review any topic if they want for clarifications.

STEP 4

Real time industrial experience

Industrial educators bring a unique perspective to the classroom. Students will gain real-world industrial experience by working on industrial projects under the guidance of industry experts. Many projects necessitate a team effort because most engineering or management projects in the industry require the participation of a team, this adds another real-world component to the course.
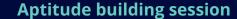
Course Journey

STEP 5

Doubt solving sessions

Our industry experts work to improve students' problem-solving abilities, beginning at the most basic, and to boost their confidence. Students bring any question from any discussion that they find difficult or that has always bothered them, and our faculty work with them to resolve it.

STEP 6

Aptitude building session

Helping students understand their aptitudes and how they can influence their professional capabilities allows them to find a career that best suits their unique strengths. We will look at what aptitudes are, the most demanding types of aptitudes, why understanding a specific aptitude set is important, and how to enhance aptitudes when applying for jobs.

STEP 7

Resume building sessions

This session will teach students how to create the best and most effective resume possible in order to land opportunities outside of their comfort zone.

2 Live Projects will be given by mentor based on the current industry trends

Key Features

TRAINING COURSE

LIVE INTERACTION ALONG WITH DOUBT CLEARING SESSION FROM OUR INDUSTRIAL MENTORS

CAPSTONE PROJECTS

REALTIME PROJECT ASSISTANCE POST COMPLETION OF TRAINING

PLACEMENT ASSISTANCE

100% PLACEMENT ASSISTANCE THROUGH OUR JOB REFERRAL PROGRAM TO ENHANCE EMPLOYABILITY

CERTIFICATION

DISTINGUISH YOUR PROFILE WITH INDUSTRY RECOGNISED CERTIFICATION FROM InternsForge

MEMBERSHIP

1 YEAR PREMIUM MEMBERSHIP OF InternsForge EDUTECH

EVENTS

FREE PASS TO ATTEND OUR BOOTCAMPS, WEBINARS, WORKSHOPS & MANY MORE

THANK YOU

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