Python Full Stack Development Course

Unlock your IT career potential with our comprehensive Python Full Stack Development Course. Designed for freshers, students, and career changers, this program offers end-to-end development skills, practical training, and robust job placement support. Get ready to become a job-ready developer with in-demand Python expertise.

PYTHON FULL STACK DEVELOPMENT

About Ecorporatetrainings:-

Ecorporatetrainings leading e-learning platform providing live instructor-led interactive online training. We cater to professionals and students across the globe in categories like Big Data & Hadoop, Business Analytics,Python Full Stack Development, NoSQL Databases, Java & Mobile Technologies, System Engineering, Project Management and Programming. We have an easy and affordable learning solution that is accessible to millions of learners.

Ecorporatetrainings Masters Program will provide you in-depth knowledge of front-end and back-end technologies including JavaScript, HTML, CSS, NodeJS, Python, Python Full Stack Development, AngularJS, MongoDB and many more thereby making you an expert full stack web developer. The program provides access to 200+ hours of interactive online learning, 10+ industry-based use cases, skills specific assessments and other resources. There are no prerequisites for enrollment to the Masters Program. It is designed and developed to accommodate diverse professional backgrounds. Our Masters Program recommends the ideal path for becoming a Full Stack Developer, however, it is learner's preference to complete the courses in any order they intend to.

Course Overview: Learn End-to-End Development

Our Python Full Stack Development Course is offering a pathway from beginner to full-fledged developer. This program focuses on real-world skills and placement readiness, ensuring you gain practical experience and comprehensive job preparation support.

Core Python Programming Fundamentals

Basic Concepts

Variables, Data Types, Operators, Loops.

Functions & Modules

Functions, Modules, File Handling.

Error Handling

Exception Handling techniques.

OOPs Principles

Class, Object, Inheritance, Polymorphism.

COURSE CONTENT

Python

1. Introduction to Python

- Python overview
- Features of python
- Introduction to the Python IDLE and development environment

2. Introduction Library functions

- keywords
- variables
- Identifier rules

3. Datatypes

- Single value datatype
- Collections
- Slicing
- Typecasting
- Copy operation

4. Operators

- Arithmatic
- Logical
- Bitwise
- Relational
- Assignment
- Membership
- Identity

5. Input/output statements

6. Control statements

- Decisional
- Looping
- Intermediate termination

7. Functions

- Introduction to functions
- Types of functions
- Global and local variables
- Passing default values
- Packing and unpacking
- Recursion

8. Object-Oriented Programming (OOP)

- Classes and objects
- Types of states
- Constructor method
- Types of methods
- Inheritance
- Encapsulation
- Ploymorphism
- Abstraction

9. Comprehensions

- List
- Set
- Encapsulation and abstraction

10. Lambda, map, filter

11. Decorator, Iterator, Generator

12. File Handling

- Reading from and writing to files
- Working with different file formats (text, CSV)
- Parsing techniques

13. Error Handling and Exceptions

- Try, except, and finally blocks
- Custom exceptions
- User defined exceptions
- Assertion

14. Package architecture

- Introduction
- Inbuilt packages
- User defined packages

15. Regular expression

16. SQL connection

17. Multi-threading

18. Projects

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DJango

1. Introduction to Django

- Overview of Django
- Setting up the development environment
- Introduction to the MVC (Model-View-Controller) architecture
- Introduction to the MVT (Model-View-Templates) architecture

2. Getting Started with Django

- Creating a Django project
- Understanding Django project structure
- Running the development server

3. Views and Templates

- Creating views and handling HTTP requests
- Designing templates with Django�s templating language
- Rendering dynamic content

4. Static Files and Media

- Serving static files (CSS, JavaScript, images)
- Handling user-uploaded files and media

5. URL Routing and Navigation

- Configuring URL patterns and routing
- Creating reusable URL patterns
- Handling dynamic URLs

6. Models and Databases

- Defining models and database schema
- Django ORM (Object-Relational Mapping)
- Performing database migrations

7. Admin Interface

- Customizing the Django admin interface
- Managing models through the admin dashboard
- Adding custom functionality to the admin interface

8. Forms and Validation

- Building forms using Django�s Form classes
- Validating and processing form data
- Handling form submissions

9. User Authentication and Authorization

- Implementing user registration and login
- Managing user permissions and roles
- Protecting views and resources

10. Restful Web services

- Introduction to web services
- How does web service work?
- How does web service share the data?
- What is JSON and how to create JSON object
- Jax API
- JSON with java Collection

11. Advanced Topics (Optional)

- Using Django REST Framework (DRF) for building APIs
- Asynchronous tasks and background processing
- Performance optimization and scaling

HTML

1. Introduction to HTML
2. HTML 5 Basics
3. Helper Elements to structure web page
4. Anchor and Hyperlinks
5. HTML Multimedia and its embedding
6. HTML Frame
7. Advance Concepts in HTML
8. HTML References

CSS

1. CSS Selectors
2. CSS Units
3. Typography and Text Styling
4. Box Model
5. CSS Colours
6. CSS Backgrounds
7. CSS Layouts
8. CSS Animations
9. Responsive Web Design
10. CSS Frameworks
11. CSS List
12. CSS Functions
13. Specificity
14. Z-Index
15. CSS Opacity
16. CSS Image Sprites
17. CSS Entities
18. Filter

JavaScript

1. Introduction to JavaScript
2. JS File
3. Output methods
4. Variables
5. Tokens
6. Hoisting
7. Operators
8. Statements
9. Data Types
10. Typecasting
11. Primitive and Non-primitive data types
12. JSON
13. Copying in JS
14. This keyword
15. Prototype
16. Functions prototype methods
17. OOP�s
18. ES6 Class
19. Synchronicity in JS
20. Promises
21. Browser Storage
22. DOM
23. DOM events
24. Event Propagation

SQL

1. Introduction To SQL

- What is SQL
- Data
- Database
- DBMS
- RDBMS
- Difference between DBMS & RDBMS
- Relational Model and Table
- E.F. Codd Rules

2. Datatypes

- What is datatype & it's Types
- Types of Datatypes

3. Constraints

- What is Constraint & it's Types
- Types of constraint

4. Overview of SQL Statements

- Data Definition Language
- Data Manipulation Language
- Transaction Control Language
- Data Control Language
- Data Query Language

5. Data Query Language (DQL)

- Select
- Projection
- Selection
- Joins

6. Operator

- Concatenation Operator (||)
- Logical Operator (And, Or, Not)
- Special Operator (In,Not In)
- Special Operator (Between, Not Between)
- Special Operator (Is, Is Not)
- Special Operator (Like, Not Like)

7. Function

- What is Function & Types
- Multi-Row Function
- Single-Row Functions

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8. Grouping

- Group By clause
- Having clause

9. Sorting

- Order By clause

10. Subquery

- What is Subquery & Explain
- When/why do we use Subquery Case?
- Max & Min
- Types of Subqueries
- Subquery Operator
- Nested Subquery

11. Joins

- Cartesian Join / Cross Join
- Natural Join
- Outer Join
- Self-Join
- Multiple conditions on joins

12. Co-Related Subquery

- What is Corelated Subquery?
- Example on Corelated Subquery
- Exists & not exists operators
- Identifying nth max Value & min Value

13. Data Definition Language (DDL)

- Create
- Rename
- Alter
- Truncate
- Drop

14. Data Manipulation Language

- Insert
- Update
- Delete

15. Transaction Control Language

- Commit
- Rollback
- Save point

16. Data Control Language

- Grant
- 8.16.2.Revoke

17. Normalization

- Functional Dependencies & It's types
- Types of Functional Dependencies
- Normalization
- 1st normal form
- 2nd normal form
- 3rd normal form & BCNF

Advanced Python Techniques

Advanced Features

Decorators & Generators for enhanced functionality.

Functional Programming

Lambda, Map, Filter, Reduce for concise code.

Data Interaction

Working with APIs & JSON for data exchange.

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Frontend Development Essentials

Web Foundations

- HTML5, CSS3, JavaScript.

- Responsive Design with Bootstrap.

Interactive UI

- DOM Manipulation for dynamic content.

- Basics of React.js for modern interfaces.

Backend Development & Databases

Flask Framework

Routing, Templates, API creation.

Django Framework

Introduction to robust web development.

MySQL Database

CRUD operations, Joins, Relationships, Python connectivity.

Essential Tools & Deployment

Master industry-standard tools for efficient development and deployment.

- **Git & GitHub:** Version control for collaborative projects.

- **Postman:** For API Testing and debugging.

- **Heroku:** Basics of application deployment.

Real-Time Project Portfolio

Build a strong portfolio with practical, real-world projects.

Blog Application

Portfolio Website

Login/Signup System

E-commerce Mini Project

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Comprehensive Career Support

Certificate & Resume

Industry-recognized Certificate of Completion and professional Resume Building.

Interview Preparation

Daily coding, mock interviews, and aptitude training.

Career Guidance

1-on-1 mentoring and job role mapping.

Placement Assistance

Interview scheduling & company-specific preparation.

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CERTIFICATION AND CAREER ADVANTAGE

Upon successful completion of the **Python Full Stack Development** Course, you will be awarded an industry-recognised certification from Ecorporate Trainings. This certification is a testament to your acquired expertise and serves as a valuable credential to significantly boost your CV and enhance your career prospects in the competitive tech landscape.

Our certification validates your skills across the crucial areas of cloud computing, signalling to potential employers that you possess the practical knowledge required for immediate impact. It sets you apart, demonstrating your commitment to professional development and your readiness to tackle complex cloud challenges.

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Completion Certificate

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This certificate is awarded to an individual or team that has demonstrated exceptional work quality or results in the relevant project.
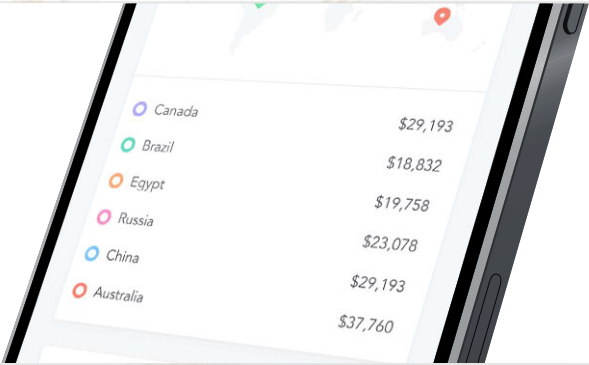
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Register Now & Build Your Future!

Seats are limited for the Python Full Stack Development Course. Become a Python Full Stack Developer and start building your future with skills that get you hired!

To know more…

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Our mission is to provide learners with the best corporate learning experience. Comprehensive resources & tutorials, a vibrant community, 24/7 assistance…

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