

Unati Global Connect Private Limited (UGCPL)
| Integrity | Sanctity | Commitment |

**45 DAYS/ONE MONTH ONLINE INTERNSHIP PROGRAM POWERED BY
UGCPL**

PYTHON FOR INDUSTRIAL APPLICATION
(Using Django)

Important information related to 45/30 Days Internship Program

- ✚ On registration confirmation, a common whatsapp group will be formed, where the students will be getting all necessary updates including the joining link (MS Teams / Google Meet/Webex) for online sessions.
- ✚ Two-hours online session 3/4 days- per week will be held from 3.30 pm to 5.30 pm or 4:00 pm to 6:00 pm regularly on alternate days basis. Timing schedule/number of days per week may change on request of majority of the participants
- ✚ 25 % of the allocated time will be for real time project work implementation.
- ✚ Project work will be in group of students (group will be consisting of a maximum of 8 students).
- ✚ Submission of complete project report by the participant is mandatory for the Internship Certification— One copy of the project report needs to be submitted at the parent Institution/Department and another copy will be required to be submitted to UGCPL Training Team.
- ✚ Software based project work will be free of cost and sufficient requirement for the Internship Certification.
- ✚ Upon submission of project report in the concerned parent Institute/Department, the participants will be able to download their Internship Certificates within 10 to 15 working days from our website (www.ugcpl-india.com). The hard copy of the certificates will be submitted to the T&P Cell of the concerned University/Institute by UGCPL within 20 days time period.
- ✚ The participants will have to make their own arrangement of resources like Laptop or PC or smart phone and internet connectivity for attending the sessions through MS Teams/Google Meet/Webex platform.

HOW TO REGISTER

Please follow the following steps for successfully registering in our Training-cum-Internship program.

Step 1: Please select the area of Internships-cum-Industrial training you wish to enrol.

Step 2: Visit our website www.ugcpl-india.com

Step 3: Click on **Register Now** tab in top right corner given in our website by paying the necessary fees. OR you can also click in the given link: <https://www.ugcpl-india.com/register.aspx>

Step 4: You will receive confirmation of payment in e-mail post successful payment within 3 days.

Unati Global Connect Private Limited (UGCPL) | Integrity | Sanctity | Commitment |

- Step 5:** You will receive the Whatsapp Group Link for your specific batch/areas of Internship at least 3 days prior to start of Internship through e- mail. Please provide correct e-mail address during registration
- Step 6:** You will receive the class joining link and schedule details over whatsapp group as well as in your registered e-mail address.
- Step 7:** Once you have successfully completed the Internship programme and submitted the project report, you will be able to download your Internship Certificate.

Course Structure/Schedule of the Internship on **Python for Industrial Applications** (using Django)

Prerequisites

This course is suitable for students, developers, data analysts, and statisticians with very basic knowledge of Computer Science.

Module 1

Introduction to Python
History of Python
Using Python Interpreter
The Interpreter and its Environment
Using Python as Calculator
First Step towards Programming

Module 2

Basic Syntax
Python Identifiers
Python Keywords
Python Comments in Python
Command Line Arguments
Parsing Command-Line Arguments

Module 3

Variable Types
Assigning Values to Variables
Multiple Assignment
Standard Data Types
Python Numbers
Python Strings
Data Type Conversion

Module 4

Python Datastructure
Introduction to List
Work on Tuples
Sets
Dictionary
List Comprehension

Module 5

Unati Global Connect Private Limited (UGCPL) | Integrity | Sanctity | Commitment |

Conditional and Iterative statements

If Statements

Looping Techniques

for Statements

The range function

BREAK Statement

Basic Operators

Types of Operators

Python Arithmetic Operators

Python Comparison Operators

Python Assignment Operators

Python Logical Operators

Python Identity Operators

Python Operators Precedence

Module 6

Functions

Defining a Function

Calling a Function

Global vs. Local variables

Locating Modules

Creating Modules

Module 7

Files I/O

Printing to the Screen

Reading Keyboard Input

The input Function

Opening and Closing Files

The open Function

The file Object Attributes

The close() Method

Reading and Writing Files

The write() Method

The read() Method

Module 8

Introduction to Django

What is Django?

Django and Python

Django's take on MVC: Model, View and Template

DRY programming: Don't Repeat Yourself

How to get and install Django

Module 9

Getting started with Django

Important Core Files:

Templates

Adding static files

Models and Databases

Admin Interface

MVT- In details

Module 10

Unati Global Connect Private Limited (UGCPL) | Integrity | Sanctity | Commitment |

Forms and Validations

Forms

Validation

Relative URL

Template Inheritance

Module 11

Advanced Django

Django's in-built User

Registration

Login

Logout

Generic Views

CRUD Implementation

Project work and documentation

