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Pre-requisites: Python Basics

(Get self-paced Python programming video based training for just INR 590)

Program 1: Advance Python

- **Revisiting Python List & Dictionary**
- **Classes and Objects**
- **Decorators**
- **Regular Expression**

Program 2: Web Technologies

- **Understanding web servers and web clients**
- **HTML Tags**
- **CSS Classes**
- **Using JavaScript & JQuery**
- **Front-end framework: Bootstrap and Materialize CSS**
- **Responsive Grid Design**

Program 3: Django framework

Chapter 1: INTRODUCTION TO DJANGO

- What is Django
- HTTP request and response
- Django Model View Template architecture
- Django installation

- Virtual environment setup
- Starting your First Django Project

Chapter 2: DJANGO APP ARCHITECTURE

- Django project environment
- Understanding *settings.py*
- Start a new Django app
- Django app components
- Adding the app to your project
- Creating Django Skeleton App

Chapter 3: DJANGO MODELS

- Understating the Database tier of web-application
- Defining Django Models
- Understanding Model Fields & Options
- Importance of *__str__()* method
- Creating a Django Model
- Django *makemigrations* and *migrate*
- Django model relationships
- Changing the Database Engine

Chapter 4: DJANGO ADMIN

- Enabling the Admin Interface
- Creating Admin Super User
- Creating other Users and Groups
- Add, Change, View, Delete permissions
- Register Model with Admin
- ModelAdmin and Admin Options

Chapter 5: DJANGO URLS

- Django project *urls.py*
- Django app *urls.py*
- Django *urlpatterns* and *path*
- Django TemplateView
- Django URL patterns

Chapter 6: DJANGO VIEWS

- Simple Generic Views
- Using Django HttpResponse object
- Understanding render() object
- Using redirect()
- Other Generic Views
- Class based views

Chapter 7: DJANGO ORM & QUERYSETS

- Understanding Django ORM
- Django Queryset API
- Methods that return new QuerySets
  all(), filter(), order_by(), distinct(), values(), values_list()
- Methods that do not return new QuerySets
  get(), count(), create(), update(), delete()
- Two or more QuerySets
  union(), intersection(), difference(), AND(&), OR(|), Q objects
- Field lookups
  exact, iexact, contains, in, gt, gte, lt, lte, startswith, endswith, range

Chapter 8: DJANGO FORMS

- Understanding Django Forms
- ModelForm Class
- Form validation
- HTML forms
- Select field and dependent dropdown fields in django forms
- File field & Image fields in forms
- Date, Time and Duration Field in Django forms

Chapter 9: DJANGO USERS & AUTH

- Django Users and Groups
- Django Authorizations: add, change, view, delete
- Django Authentication, login and logout
- Create a Django User Registration app

Chapter 10: DJANGO TEMPLATES & STATIC FILES

- Understating Django App Presentation Layers
- Creates templates and static directories

- Template tags and filters
- Template inheritance
- Static files reference: images, css and javascript

Chapter 11: DJANGO TESTS & EXCEPTIONS

- Using Python’s UnitTest library
- Writing Django Tests
- Debugging
- Django Exceptions

Chapter 12: DJANGO SECURITY & WEB APPLICATION TOOLS

- Caching
- Cookies
- Django Emails
- Pagination
- Reusable Apps
- Session
- Sitemaps

Program 4: Databases

- **CRUD Operations in Sqlite3**
- **CRUD Operations in MySQL/MariaDB**
- **CRUD Operations in PostgreSQL**
- **CRUD Operations in MongoDB**
- **CRUD Operations in Neo4j**

Program 5: Django Rest API framework

- **Introduction to Rest API**
- **Working with JSON files**
- **Serialization**
- **Routers**
- **Class based views**
- **API Permissions**
- **API request methods**

- **Understating response objects and headers**
- **Using CURL**
- **Using Postman**
- **Creating API endpoints in Django web application**

Program 6: Deployment

- **Using Git and Bitbucket**
- **Amazon EC2 Services**
- **Microsoft Azure Cloud Platform**
- **Heroku Cloud Platform**

Project 1: Blog Application

Develop a Medium.com like micro blogging portal in Django

Project 2: Discussion Forum

Develop a Quora.com like question answer cum discussion forum in Django

Or,

Project 3: Job Portal

Develop a Naukri.com like mini job portal for candidates, universities and corporates using Django framework.

Add-on:

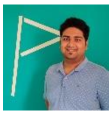
1. Get FREE Django Tutorial access: https://www.programink.com/django-tutorial/
2. Get an extra FREE projects with source code to mention in your CV.
3. Get FREE course completion certification and recommendations.
4. Get additional project training for 6000-15000.
5. Get a chance to be part of industry projects at Programink.com
6. Get internship opportunities for 3rd and 4th year engineering students.

7. Enroll in Placement Guarantee Program for Freshers and Working Professionals. Charges: 5000 (initial deposit) + 15,000 (post placement).

Duration: 2 months

- Format 1: 4 days a week * 90 minutes per class
- Format 2: 3 days a week * 120 minutes per class
- Format 3: 2 days a week * 180 minutes per class

Trainer: Ram Kumar


LinkedIn Profile: https://www.linkedin.com/in/ram-kumar-programink/

Course Fee:

Sno.	Program	Unit Price
1	Object-oriented Python Programming	4,000
2	Web technologies	4,000
3	Django framework	10,000
4	Databases	4,000
5	Rest API	5,000
6	Deployment	3,000
	Subtotal	**30,000**
	Discount	**50%**
	Net Payable	**15,000**

Preferred Payment Method:

- UPI Payment: 8073328732@yesbank

Other Payment Options:

- Google Pay, Credit/Debit Card, Net banking
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