

## Syllabus & Course

<b>Course Name</b>	: Web Development with Django
<b>Duration</b>	: Weekend (8 weekends) / Weekday (5 weeks)
<b>Delivery Mode</b>	: Classroom/Online
<b>Key Features</b>	: 500+ Quizzes, Lab Exercises, Projects, Online Account on SDL Cloud
<b>Training Kit</b>	: All course related software, Notes, Practice Question & Others

## Django

### Introduction and Installation of Django

- History and features of Django
- MTV Architecture
- Installing Django for Windows
- Creating a Project and Application

### Views and URLconfs

- Django Views
- Function Based Views
- Class Based Views

### Templates

- Django Templates
- Template Tags and Filters
- Template loading
- Template Inheritance

### Models

- Django Models
- Defining Models in Python
- Basic Data Access

### Django Admin Site

- Using admin site
- Adding Models to admin site

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**Amit Sharma (Founder, B. Tech - CS, Microsoft Certified Professional)**

SKAAY Data Labs, A-15, Ground Floor, Sector - 3, Noida – 201301, Landmark: Near Sector - 16 Metro Station

LinkedIn: <https://www.linkedin.com/in/skaay-data-labs/> ✉ [amitsharma@skaaydatalabs.com](mailto:amitsharma@skaaydatalabs.com) ☎ 9717008603

- Customizing Field Labels
- Custom Model Admin Classes

## Forms

- Django Forms
- Getting Data from request object
- Making a contact form
- Customizing form design

## Advanced Views and URLconfs

- URLconfs Tips and Trick
- URL namespaces
- Other URLconfs

## Advanced Templates

- Requestcontext and context Processor
- Custom template tags and filters
- Advances Custom Template tags and filters
- Automatic Html Escaping
- Inside Template Loading

## Advanced Models

- Objects
- Model Methods
- Performing Raw Queries
- Executing Custom SQL Directly

## User Authentication in Django

- User Objects
- Authentication in Web Request
- Authentication Views
- Authenticating Data in templates
- Customizing authentication

## Testing and Deploying Django

- Introducing Automated Testing
- Testing tools
- Deploying Django with Apache
- Scaling
- Serving Static Files

## Generating Non-Html Content

- Generating PDF

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- High level framework
- Sitemap framework
- Low level framework

### Django Sessions and Cache

- Configuring the session engine
- Using session in views
- Session Serialization
- Setting Up the cache
- The low-level cache API

### Internationalization

- Internationalization: In Python and Template Code
- Localization

### Security

- Clickjacking protection
- Cross Site Request Forgery protection
- Cryptographic signing

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