

# ZENUS INFOTECH INDIA PVT. LTD.

## CURRICULUM OF DJANGO

Course Duration: 4/6 Weeks\*

### **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

### 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

#### 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