



# NANO SCIENTIFIC RESEARCH CENTRE

An ISO: 9001:2008 Certified Company

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## Django Course Content

### Introduction to Django

- Introduction
- About Django
- Django Components
- Installing & configuring Django Components
- Django Pre-Requisites
- Downloading & Installing Django
- Choosing a Database
- Creating a New Project

### Module2: Generating Simple Django Views

- Generating Simple Django Views
- About View Functions
- Using Django's Http Response Class
- Understanding Http Request Objects
- Using Query Dict Objects

### Module3: Configuring URL conf's

- Configuring URL conf's
- About URL conf
- Regular Expressions
- Expression Examples
- Simple URL Conf Examples
- Using Multiple URL Conf's
- Passing URL Arguments

### Module4: Django Templates

- About Templates
- Templates Fundamentals
- Creating Template Objects
- Loading Template Files
- Filling in Template Content (Context Objects)
- Template Filters Template Tags

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- More on For Loops
- Template Inheritance
- Easy Rendering of Templates
- Request Context Processors
- Global Context Processors

## **Module5: Forms**

- Getting Data From the Request Object
- A Simple Form-Handling Example
- Making a Contact Form
- Tying Form objects Into View

## **Module6: Database Models With Django**

- About Database Models
- Configuring Django for Database Access
- Understanding Django Apps
- About Django Models
- Defining Django Models
- Understanding Model Fields & Options
- Table Naming Conventions
- Creating A Django Model
- Adding the App to Yours Project
- Validating the App
- Generating & Reviewing the SQL
- Adding Data to the Model
- Primary Keys and Model
- Simple Data Retrieval Using a Model
- Understanding Query Sets
- Applying Filters
- Specifying Field Lookups
- Lookup Types
- Slicing Query Set Methods
- Deleting Records
- Using Q Objects
- Creating Forms from Models

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## **Module7: Using the Django Admin Interface**

- Using the Django Admin Interface
- Enabling the Admin Interface
- Creating an Admin User

## **Module8: Access Control With Sessions and Users**

- Access Control With Sessions and Users
- Cookies & Django
- The Django Session Framework
- Sessions in Views
- Session Tuning
- Installing Django User Authentication
- Using Authentication in Views
- Login and Logout
- Building yours Own Login/Logout Views
- Authentication Decorators
- Adding & Deactivating Users
- Asynchronous Messaging
- Managing Permission

## **Module9: Generic Views**

- Simple Generic Views
- Using Generic Redirects
- Other Generic Views
- Create/Update Generic Views

## **Module10: Deploying Django Applications**

- Deploying Django Application

## **Module11: Django Case Studies**

- Django Case Studies.