

Django (Python's Framework) - Syllabus

Sl. no	Topic	Hrs
1	Module 1: Introduction to Django	
	Introduction to Django	
	About Django, Features, Advantages	
	Django Components	
	Installing & Configuring the Django Components	
	Django Pre-requisites	
	Downloading & Installing the Django	
	Choosing Database	
	Creating a New Project	
2	Module 2: Generating Django Views	
	Generating Django Views	
	About View Functions	
	Using Django's HttpResponse Class and Object	
	Using Query Dict Objects	
3	Module 3: Configuring URL Conf's	
	Configuring URL Conf's	
	About URL Conf's	
	Regular Expressions	
	Expression Examples	
	URL Conf's Examples	
	Using Multiple URL Conf's	
	Passing URL Arguments	

4	Module 4: Django Templates	
	About Templates	
	Template Fundamentals	
	Creating Template Objects	
	Loading Template Files	
	Filling in Template Context (Context Objects)	
	Template Filters	
	Template Tags	
	More on For Loops	
	Template Inheritance	
	Easy Rendering of Templates	
	Request Context Processors	
	Global Context Processors	
5	Module 5: Forms	
	Getting Data from Request Object	
	Form Handling	
	Making a Contact Form	
	Tying Form Objects in to Views	
6	Module 6: Database Models with Django	
	About Database Models	
	Configuring Django for Database Access	
	Understanding Django Apps	
	About Django Models	
	Defining Django Models	

	Understanding Model Fields and Options	
	Table Naming Conventions	
	Creating a Django Model	
	Adding App to your Project	
	Validating the App	
	Generating & Reviewing the SQL	
	Adding Data to Model	
	Primary Keys and the Model	
	Data Retrieval using Model	
	Understanding Query Sets	
	Applying Filters	
	Specifying Field LookUps	
	LookUp Types	
	Slicing Query Sets	
	Specifying Ordering in Query Sets	
	Common Query Set Methods	
	Deleting Records	
	Managing Related Records	
	Retrieving Related Records	
	Using Q Objects	
	Creating Forms with Models	
7	Module 7: Using Django Admin Interface	
	Using Django Admin Interface	
	Enabling Admin Interface	
	Creating Admin User	

8	Module 8: Access Control with Sessions and Users	
	Access Control with Sessions and Users	
	Cookies & Django	
	Django Session Framework	
	Sessions in Views	
	Sessions Tuning	
	Installing Django User Authentication	
	Login & Logout	
	Building Login & Logout Views	
	Authentication Decorators	
	Adding & Deactivating Users	
	Asynchronous Messaging	
	Managing Permissions	
9	Module 9: Generic Views	
	Simple Generic Views	
	Using Generic Redirects	
	Other Generic Views	
	Create / Update / Delete Generic Views	
10	Module 10: Deploying Django Applications	
	Deploying Django Applications	