

Python | Django

Course Curriculum

Course Overview:

This course is designed to provide students with a basic understanding of Web Development using Django Framework. It gives basic hands on training on a high-level Python web framework named django that enables rapid development of secure and maintainable websites. Participants will learn fundamental and advanced concepts to ensure a solid grasp of Django.

WEEK	DAY	MODULE	OBJECTIVES	TOPICS	HOURS
Week 1	Day 1	1. Basics of Web Development and Setting Up Environment	To understand the basics of Web Development. Set up a development environment for Django Framework.	1. Introduction to Web Development and Django Framework. 2. Installing Python and Django.	2
✓	✓	2. Understand the basic structure of a Django project.	Understand the basic structure of a Django project.	1. Creating a new Django project. 2. Exploring the project structure.	1
✓	Day 2	3 Understand the basic structure of a Django app.	To create a simple Django application.	1. Running the Development Server. 2. Creating a simple Django app.	1
✓	✓	4 Working with Models and Databases	To learn about Django models and databases.	1. Introduction to Django models and databases.	2
Week 2	Day 3	5. Working with Admin Interface	To explore Django admin interface.	1. Registering models with the Admin.	1
✓	Day 3 contd...	6. Working with Admin Interface	To customize Django admin interface.	1. Django admin interface. 2. Customizing the admin interface	2
✓	Day 4	7. Templates, Views	To Understand how to create dynamic web pages using templates.	1. Introduction to Django templates. 2. Creating templates for views.	2
✓	✓	8. Templates, Views	To Understand how to create dynamic web pages using views with CRUD operations.	1. Building views to handle user requests.	2
Week 3	Day 5	9. Templates, Views	To Understand how to create dynamic web pages using templates and views using CRUD operations.	1. Routing URLs to views. 2. Creating and processing templates.	1

WEEK	DAY	MODULE	OBJECTIVES	TOPICS	HOURS
Week 3	Day 5	10. Templates, Views	To Understand how to create dynamic web pages using templates and views using CRUD operations.	1. Displaying forms in templates. 2. Handling form submission.	2
✓	Day 6	11. Working with Static Files and Media	To understand how to handle static files (like CSS, JavaScript) and media files (like images) in a Django project.	1. Introduction to static files in Django. 2. Organizing static files in a Django project. 3. Linking static files in templates.	1
Week 4	Day 7	12. Introduction to Django Forms	To understand the role of Django forms in web development.	1. Introduction to Django forms and their importance. 2. Handling form submission in Django views. 3. Creating Django forms using the forms module.	2
✓	✓	13. Introduction to Django Forms	To learn how to create forms in Django	1. Displaying forms in templates using Django's form rendering.	2
✓	Day 8	14. Introduction to Django Forms	Learn how to create and process forms in Django.	1. Form validation in Django. 2. Customizing form behavior and appearance.	2
✓	✓	15. Introduction to Django Forms	Learn how to create and process forms in Django.	1. Handling form errors and displaying them to users.	2
				Total	24