

ITLEO

Django course

**Online
Intermediate**

24 lessons, 2 lessons per week

We study the following technologies:



Jenkins



Selenium



Rest



Git



Python



Continuous Integration



Django

More details about the course:

Django is one of the most powerful and popular frameworks in the Python ecosystem. It is used to create real projects: marketplaces, social networks, CRM systems. This course is a practical guide to creating a full-fledged Back-end project from scratch.

Course program

Block 1: Django Basics

- Django Installation, Project Structure
- MTV: Model, Template, View
- Creating the First Application
- Working with Routes (URLs)
- Processing Requests and Responses

Block 2: Working with Databases (ORM)

- Creating Models
- Database Migrations
- CRUD Operations via Django ORM
- Admin Panel: Settings and Customization
- Relationships between Tables (OneToOne, ForeignKey, ManyToMany)

Block 3: Front + Django

- Template Engine: Variables, Loops, Conditions
- Connecting CSS and JS
- Passing Data to Templates
- Django Forms: Creating Forms, Validation

Block 4: Authentication and Authorization

- User Registration and Login
- Sessions, Cookies, Access Logic
- Personal Accounts
- Page Protection

Block 5: API and Django REST Framework

- REST Basics
- Installing DRF
- Creating serializers
- API Views and ViewSets
- API Testing via Postman

Block 6: Practice, tests, teamwork

- Git, GitHub, teams for team development
- Creating a pull request
- Writing tests with pytest
- Basic coverage with unit tests

Final project:

- A full-fledged web application with a database and API
- CRUD system with users
- Functionality: filtering, sorting, registration, login
- Real templates and custom logic

Who is this course suitable for:

- Python developers who want to build full-fledged web applications
- Technical specialists who want to move to Back-end
- Front-enders who want to learn the back-end
- Anyone who wants to have a real application in their portfolio

What will be the output:

- Understanding of Django architecture
- Skills in developing a full Back-end application
- Own project with database and authorization
- API access to site functionality
- Readiness to work in a team

Career prospects:

Positions after the course:

- Junior Django Developer
- Junior Back-end Developer
- Python Full-stack Developer

Salary in Ukraine:

\$1200 – \$2200 (depending on region and company)

Why ITLEO:

- Real projects and cases
- Mentors with practical experience
- Git repository with your code
- API and DB practice
- Technical interview preparation