

## Web Applications in Python and Django (code: PYTHON-WEB-DJANGO)

### Overview

A course in Python programming and using Python to create Django-based web applications. This training is designed for programmers who already know at least one object-oriented language, and have basic familiarity with creating web applications in a language other than Python/Django.

### Ask for details

Phone +44 203 608 6289

info@alx.training

### Duration

3 days

### Agenda

1. Introduction to Python. Standard library.
  - Creating simple programs
  - Getting to know the syntax, basic instructions, standard library
  - Running programs, different ways to run a program (in both Windows and Linux environments)
  - Creating production versions, which can be run without installing Python
2. Understanding the object model in Python (including references to other languages (Java, C++, C#, PHP))
  - Understanding differences and similarity to other object-oriented languages (Java, C++, C#, PHP)
  - Understanding how it exactly works
  - Using object-oriented mechanisms (namespaces, objects and classes (old and new type), callable objects, operator overloading, multi-inheritance, modules and packages, exceptions, iterators, generators)
3. Creating web applications using Django platform
  - Creating a blog with features (formatting posts, adding tags, inserting pictures, adding comments)
  - Installing and configuring Django (using build-in webserver, using Apache and mod\_python or WSGI)
  - Understanding a Django application - project, application, model, view, translating ULR to functions in program
  - Communication with database (interactive mode, program mode) and automatic administrative panel
  - Creating templates and using them in views
  - Creating forms - manually and using build-in mechanisms
  - Using generative views
  - Understanding good practices for programmers
  - Observing language mechanisms in practice

During our courses we use the latest Python version (branch 2) and the current version of Django. In case of on-demand courses, it's possible to use any version required by the Client, according to his needs.

### Target audience and prerequisites

The course is intended for programmers who use any other object-oriented programming language and have basic knowledge about designing web applications.

## Certificates

Course participants receive completion certificates signed by ALX.

## Locations

- Online (English) – your home, office or wherever you want
- Warsaw (English) – Jasna 14/16A
- any other location (London, UK, EU) on request

## Price

990 EUR

The price includes:

- course materials,
- snacks, coffee, tea and soft drinks,
- course completion certificate,
- one-time consultation with the instructor after course completion.

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