MOOC: GEOTOOLS FOR TEACHERS

MY GEO — Geo Tools for Modernization and Youth Employment
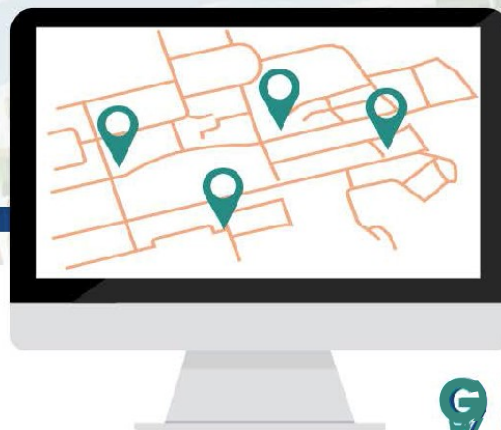
"Geotools for teachers" has the objective of promoting the use of geotechnologies in university teaching in order to improve the technological skills and employability of students.

It is organized in 7 modules exemplifying frequent topics in lectures, using free and quality geodata that facilitates research, analysis, information management and its visualization.

INFO

- Length: 2 weeks.
- Effort: 25 hours *(Self-paced in your own time)*.
- Price: Free *(Co-funded by the Erasmus+ Program EU)*, except for official certification.
- Certification: Yes (by applying for it).
- https://iedra.uned.es/login

- Subject: geodata, GIS, geotechnology
- Target group: university teachers
- Institutions: Universidad Nacional de Educación a Distancia and University of Zaragoza (Spain), University of Padova (Italy), Ghent University and EUROGEO (Belgium).
- Companies: GeoSpatiumLab (ES), ARS Progetti (IT), Archetipo (IT) and Geosolutions (BE).

WHAT YOU'LL LEARN?

- ☑ Search, analyze and visualize geodata
- ☑ Cartography
- ☑ Geographical Information Systems
- ☑ Sources of data collection
- ☑ Management of satellite images
- ☑ 3D rendering

SYLLABUS

Module 0: Presentation *introduction.*
Module 1: Where can I get and how can I see geodata? *Cartography concepts and data source for Web GIS.*
Module 2: How can data be manipulated? *Vector map creation with free geodata.*
Module 3: How to make decisions? *Raster multicriteria analysis.*
Module 4: How can I manage data with mobile geo-tools? How can I make a geolocated survey? *Geo-apps.*

Module 5: How can I share data on a Web GIS? *Storymaps.*
Module 6: How can I explore the power of satellite images? *Optical remote sensing, spectral signature and sensors.*
Module 7: How can I make a 3D representation? *Download, select, and process raster data by creating a 3D image.*

SOFTWARE

Google MyMaps, Google Earth Pro & Google Earth Engine