Diploma of Expert in Geoinformation Tools for Climate Change Management

From: 13/10/25 | To: 5/6/26 | Universidad Politécnica de Valencia

Pre-registration: from 31/7/25

Coordinator: Prof. Luis Ángel Ruiz Fernández

Qualification	
Diploma of Expert	
Mode	**Academic year**
ONLINE	2025-2026
ECTS	**Campus**
15	Valencia
0 h	**150 h**
In-person	Online

Delivery Mode

In-person	Online	Live streaming
0 hours	150 hours	0 hours

Teaching platform:
Moodle online

Tuition fees	Type	Installments	From	To
525,00 €	UPV student	2	-	-
525,00 €	UPV alumni	2	-	-
525,00 €	UPV staff	2	-	-
750,00 €	General public	2	-	-
525,00 €	Students or graduates from UPV, Vrije Universiteit	2	-	-

	Brussel, University of Applied Sciences of Weihenstephan-Triesdorf, University of Zagreb, University of Nicosia, staff from GDi (Croacia) or HRDA (Chipre)

Comments to the fees:
750€ (2 installments) General public
525€ (2 installments) UPV student
525€ (2 installments) UPV alumni
525€ (2 installments) UPV staff
525€ (2 installments) Students or graduates from UPV, Vrije Universiteit Brussel, University of Applied Sciences of Weihenstephan-Triesdorf, University of Zagreb, University of Nicosia, staff from GDi (Croacia) or HRDA (Chipre)

Objectives

- Provide students with the basic principles of Geographic Information Systems (GIS), the interpretation of Earth Observation data, and its processing for terrestrial ecosystem monitoring.
- Identify the main effects of climate change on agroforestry, coastal, and urban systems, and how they can be mitigated using geoinformation techniques.
- Train students in the use of tools for processing and analyzing Earth Observation data and other georeferenced data for climate change adaptation and impact reduction in agroforestry, coastal, and urban systems.
- Analyze and evaluate results obtained through remote sensing and GIS techniques to optimize the management of different types of terrestrial ecosystems.

Target audience

University students and graduates, and professionals interested in learning the basic concepts of remote sensing and GIS, and their applications in climate change management (agriculture, forestry, coastal areas, and urban zones).

Admission requirements

A university degree (Bachelor's or Engineering). Exceptionally, undergraduate students who have no more than 30 ECTS credits pending may be admitted. Since the program is taught entirely in English, a minimum level of comprehension is required, which will be assessed by the program committee.

Previous knowledge

No specific prior knowledge is required.

Courses & teachers

01 > **BASIS OF REMOTE SENSING AND GIS , 3 ECTS**

Prof. Andrija Krtalić (University of Zagreb)

Prof. Olaf Gerhard Schroth (Weihenstephan-Triesdorf University of Applied Sciences)

02 > **COASTAL DYNAMICS MANAGEMENT, 3 ECTS**

Dr. Jaime Almonacid Caballer (Industry Professional)

Ass. Prof. Pablo Crespo Peremarch (U. Politécnica de Valencia)

Assoc. Prof. Alfonso Fernández Sarría (U. Politécnica de Valencia)

Assoc. Prof. Jesús Palomar Vázquez (.Politécnica de Valencia)

Prof. Josep Eliseu Pardo Pascual (U.Politécnica de Valencia)

Prof. Luis Ángel Ruiz Fernández (U. Politécnica de Valencia)

03 > **FOREST CONSERVATION, 3 ECTS**

Dr. Juan Pedro Carbonell Rivera (Researcher, U. British Columbia)

Ass. Prof. Pablo Crespo Peremarch ((U. Politécnica de Valencia)

Eng. Kyriakos Georgiou (University of Nicosia)

Prof. Luis Ángel Ruiz Fernández (U. Politécnica de Valencia)

Eng. Jesús Torralba Pérez (Researcher, U. Politécnica de Valencia)

04 > **SMART AGRICULTURE, 3 ECTS**

Assoc. Prof. Darija Bilandžija (University of Zagreb)

Ass. Prof. Marina Bubalo Kovačić (University of Zagreb)

Prof. Olaf Gerhard Schroth (Weihenstephan-Triesdorf University of Applied Sciences)

Assoc. Prof. Ivana Šestak (University of Zagreb)

Prof. Željka Zgorelec (University of Zagreb)

Dr. Ivona Žiža (Industry Professional)

Assoc. Prof. Monika Zovko (University of Zagreb)

05 > **URBAN MONITORING, 3 ECTS**

Assoc. Prof. Jonathan Cheung-Wai Chan (Vrije Universiteit Brussel)

Teaching methodology and assessment

- Short videos with PowerPoint presentations and reading materials providing basic knowledge of GIS and remote sensing.
- Practical sessions focused on developing technical skills, including the use of GIS and remote sensing tools for data processing and analysis.
- Quizzes to consolidate knowledge and evaluate understanding of key topics.
- Assessment through graded practical exercises and multiple-choice tests on theoretical concepts.

Internships

No internships in the curriculum.

Additional information

The e-handbook of the Expert Diploma in Geoinformation Tools for Climate Change Management is available at: https://geoclic.be/wp-content/uploads/2025/03/e_hanbook_GeoCLIC.pdf

Contact

Prof. Luis Ángel Ruiz Fernández
Department of Cartographic Engineering, Geodesy and Photogrammetry
Universidad Politécnica de Valencia
Email: laruiz@cgf.upv.es

Website

https://geoclic.be/wp-content/uploads/2025/03/e_hanbook_GeoCLIC.pdf

Registration at www.cfp.upv.es

Registration →

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