

PRINCIPLES OF THE EDUCATIONAL MODEL

The Universitat Jaume I's educational model is based on ten principles that are closely interrelated, and which cannot be understood without considering them as a whole:

- 1. Comprehensive development of students
- 2. Fostering of ethics and social responsibility
- 3. Commitment to development and social and territorial cohesion
- 4. Encouragement of the vocation for research

- 5. Increased internationalisation
- 6. Commitment to Valencian as the institutional language and to multilingualism
- 7. Encouragement of the use of ICTs
- 8. Continuous improvement of quality
- 9. Promotion of employability and a smart entrepreneurial spirit
- 10. Promotion of lifelong learning



Further information:

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Academic information:

Master's Degree in Geospatial Technologies

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Master's Degree

Geospatial Technologies (Erasmus Mundus)

Engineering and Architecture



Geospatial Technologies (Erasmus Mundus)



Presentation

The Erasmus Mundus Master's Degree in Geospatial Technologies prepares you to master the new technologies for the development of applications in Geographic Information Systems (GIS) and Digital Twins and for the analysis of georeferenced information so as to be able to optimise decision making involving geographic, environmental and social aspects affecting the future of our planet.

Proof of the excellence of the programme is the fact that it has been recognised as an Erasmus Mundus Master by the European Commission. As a consequence, it has received more than 15 million euros in funding since it was launched in 2007. Its quality has been acknowledged on a number of occasions, including "Best master's degree in Technology" in the most recent editions of the ranking published by the newspaper El Mundo.

The course is also taught by the Universidade Nova de Lisboa and the University of Münster. It is an official joint degree in Spain, Portugal and Germany.

We are partners with top-level companies and institutions such as the United Nations, the European Environment Agency, the ESRI, the Spanish Geographic Institute or the Valencia Institute of Cartography.

Coordinators

Joaquín Huerta Guijarro

Additional information

Coordinating university: University of Münster (Germany)

Partner universities: Universitat Jaume I of Castellón, Universidade Nova

de Lisboa, University of Münster

Language of instruction: English

Number of credits: 90 ECTS credits (European Credit Transfer System)

Duration: three academic semesters (September/March)

Teaching modality: face-to face learning

Price: in accordance with official fees to be announced 51,26 €/credit

Course structure [32 students]

Subjects // Character // ECTS			Group Project Seminar on Programming and Analysis	С	7,5
First semester, Universitat Jaume I Module 1: Foundations of informati	` ,		Second semester, University of Mür	nster (W	WU)
(10 ECTS)			Module 4: Fundations of Geographi Science II (4 ECTS)	c Inform	natior
Programming	С	4	Core Topics in Geographic Infor-		2
Databases and Data Management	С	3	mation Science		<u></u>
Artificial Intelligence and Machine Learning	С	3	Geoinformatics Forum	С	1
Module 2: Advanced Informatics an Analytics (12 ECTS)	d Data		Geoinformatics Forum Discussion Group	C	1
Data Science	С	4	Module 5: Advanced Topics in Geog Information Science II (10 ECTS)	graphic	
Development of Applications for Geographic Data Exploration and Visualization	С	5	Location Based Services	OP	5
		-	Spatial Cognition	OP	5
Spatial Data Services, Sources,	С	3	Study Project	OP	5
Standards and Infrastructures Module 3: Geospatial Technologies	(8 FCT		Programming in Geographic Information	OP	5
Geographic Information Systems: Desktop to Web	C	3	Reference Systems	OP	5
			Further Electives	OP	5
Geographic Information Systems: Applications and Trends	С	2	Module 6: Applied Topics in Geographic Information Science (10 ECTS)		
Earth Observation and Remote Sensing	С	3	From Data to knowledge	С	5
			Applied topics	С	5
First semester, Universidade Nova o	le Lisbo	a	Module 7: Transferable Skills (6 EC	ΓS)	
(UNL) Module 1: Foundations of Geograph	nic		Project Management/ Geomundus conference	С	3
Information Science I (7,5 ECTS) Geographic Information Science		7,5	Research Methods in Geographic Information Science	С	3
Module 2: Advanced Topics in Geo Information Science I (7,5 ECTS)	graphic		TI: 10		
Spatial Analysis and Visualization	OP	7,5	Third Semester, University of Müns Universidade Nova de Lisboa or Un Jaume I		
Remote Sensing	OP	7,5	Thesis (30 ECTS)		
Module 3: Analytical Tools (15 ECTS	S)		Master thesis seminar	MT	2
Spatial Statistics	С	7,5	Master thesis with defence	MT	28
			Master thesis with defelled	IVII	20
Geospatial Datamining	С	7,5			

C: Compulsory | MT: Master's Thesis | OP: Optional