

UJI MEANS MORE

- University located in Castelló, a pleasant Mediterranean city with accommodation facilities.
- A modern campus, just 5 minutes away from the train and bus station.
- 100% of the classrooms with multimedia equipment and labs with the latest technologies.
- A library with more than 500,000 books and over 50,000 electronic publications.
- Extensive sports facilities and more than 100 activities available.
- Highly-qualified teaching staff receiving ongoing teacher training and numerous external professionals involved in teaching.
- Small groups, enabling a personal relationship with students.
- A Virtual Classroom which allows teaching to include technological tools.
- International mobility programmes for students.
- A high employment rate among UJI graduates.

MASTER'S DEGREE IN GEOSPATIAL TECHNOLOGIES



UJI
es **más**

Academic Information:
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mastergeotech@uji.es

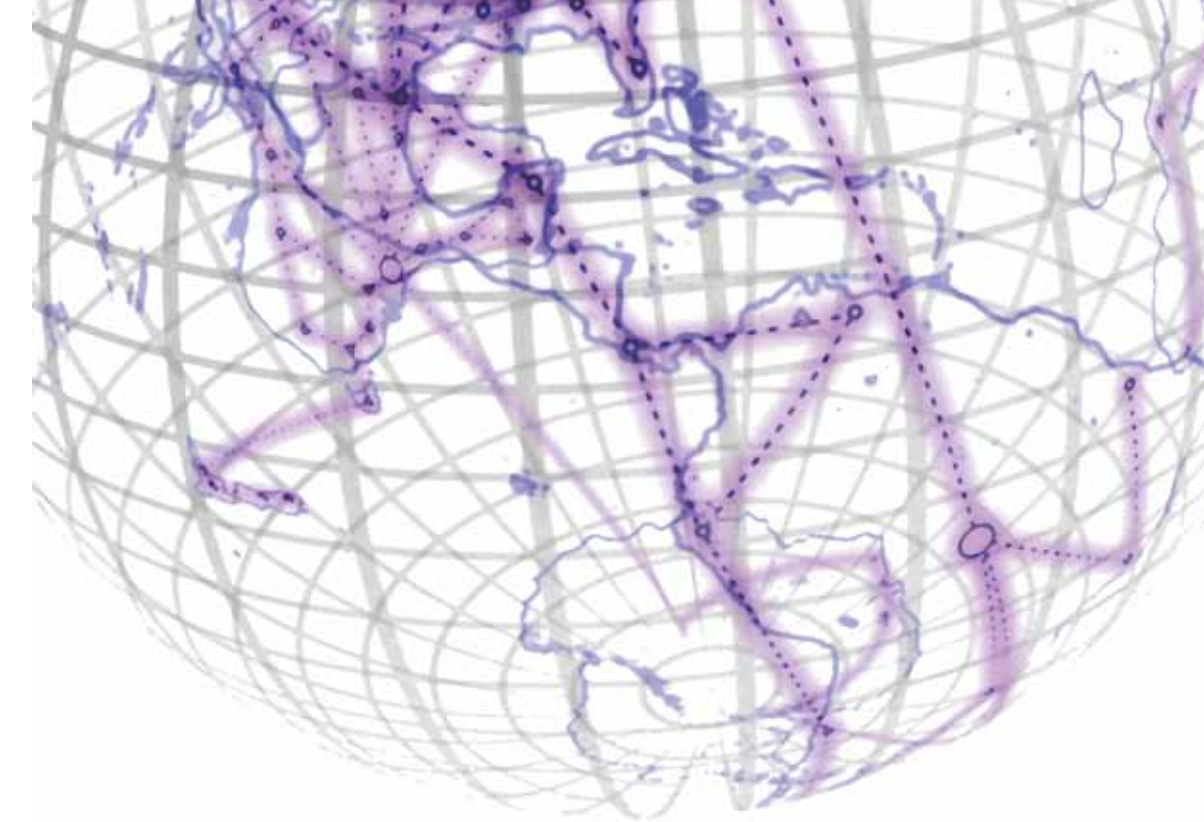
www.mastergeotech.info

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Please note that this brochure is for information purposes only



MASTER'S DEGREE

Technology and Experimental Sciences

Geospatial Technologies

[International Erasmus Mundus]

September 2011 - February 2012



DESCRIPTION

This Master consists of three semesters, the first two dedicated to the courses of the programme, and the third dedicated to the Master's thesis. The first semester is held in the UJI, the second in the University of Münster (Germany). In the third semester, the Master's thesis can be completed in either the UJI, the University of Münster, or the Universidade Nova de Lisboa.

The courses of the first semester in the UJI are focused on new technology contents and basic Geographical Information processing.

In the second semester, in the University of Münster, students study subjects on basic and advanced Geoinformation Science.

Also, courses are taught on other important subjects such as project management and research methods.

The Master's thesis in the third semester is closely linked to ongoing research projects of one of the partners.

The objective of this Master's programme is to train professionals in Geospatial Technologies which is a rapidly growing area that lacks professionals; it therefore provides an excellent opportunity for the development of a professional career.

The excellence of this Master's programme is guaranteed by the fact that, in 2007, it was selected by the prestigious Erasmus Mundus Programme of the European Commission. http://ec.europa.eu/education/programmes/mundus/projects/index_en.html

This Master provides admission to the PhD programme in Integration of Geospatial Information.

COORDINATORS

Dr. Michael Gould and Dr. Joaquín Huerta. Institut of New Imaging Technologies of the Universitat Jaume I (UJI)



First Spanish university to receive the Golden European Seal of Excellence 500+ EFQM. This award was given by the Excellence in Management Club in agreement with the Spanish National Agency for Quality Assessment and Accreditation (ANECA), and recognises the quality management of all the University activities.



PROGRAMME

SEMESTER 1

OPTION A: UNIVERSITY JAUME I

Module 1: Informatics and Mathematics

- Programming
- Databases
- Software engineering
- Applied mathematics: logic and statistics

Module 2: New technologies

- Computer graphics
- Multimedia
- Image processing
- Networks/Internet

Module 3: GI basics

- GIS I
- Spatial analysis
- Geospatial infrastructures

OPTION B: UNIVERSIDADE NOVA DE LISBOA

Module 1: Mathematics and Statistics (1 of 2 courses)

- Mathematical statistics
- Descriptive statistics

Module 2: Data modelling (1 of 3 courses)

- Data analysis
- Data mining
- Databases

Module 3: GI basics (2 of 4 courses)

- GIS I
- Remote sensing
- Geostatistics
- Geosoftware I

SEMESTER 2: University of Münster

Module 4: Fundamentals of Geographic Information Science

- Introduction to Geographic Information Science
- Digital Cartography
- Reference Systems for Geographic Information

Module 5: Advanced Topics in Geographic Information Science

- Selected Topics in GI
- Seminar in GI
- Applications of GI within and outside geosciences
- Geoinformatics Forum

Module 6: Core competences

- Research methods in GI Science
- Project management in GI projects

Module 7: Annual summer school or project work, performed by ifgi, ISEGI, and UJI, alternating location

- Selected GI topics

SEMESTER 3: UJI, University of Münster

Thesis

- Master's thesis seminar
- Master's thesis (including defence)

ADDITIONAL INFORMATION

Geoinformatics is a young science. In Europe, there is a lack of qualified personnel in Geospatial Technologies, not only in research but also in industry and Public Administration.

The field of Geographic Information (GI) is growing at a very fast pace in the economic sector: 80% of all decisions in politics and economy are spatially related. Therefore, GI has been introduced as a tool in many areas, for example in environmental planning, regional planning, traffic and logistics, telecommunications, energy provisions, etc. This new Master's Programme provides training in the area of GI application for those professionals who are interested in acquiring qualifications in GI within their specific fields. The Master's Programme is directed towards the existing need in Europe of having qualified GI personnel in both the public and private sector.

DEPARTMENTS INVOLVED

The Master's Programme is taught by the following departments:

- Department of Computer Languages and Systems of the UJI
- Department of Computer Science and Engineering of the UJI
- Department of Mathematics of the UJI
- Institute of New Imaging Technologies (INIT) of the UJI
- Institute for Geoinformatics, University of Münster
- Superior Institute of Statistics and Management Information, Universidade Nova de Lisboa

ADMISSION CRITERIA

- The Master's Programme in Geospatial Technologies is directed towards students with relevant degrees in the area of Geographical Information applications. If this relevance is not clearly stated, the Programme's Evaluation Committee will decide upon admission.
- Students should have a degree with a minimum of 150 ECTS credits or its equivalency.
- As this Master is taught in English, a level of conversational English is required.

ENROLLMENT

Directed to	Students holding a university degree with qualifications in areas related with Geographic Information applications such as Computer Science, Applied Statistics, Environmental Science, Geography, Topography, Land Planning, Logistics, etc. In general it is directed to any professional who is interested in the application of Geospatial Technologies.
Dates	September 2011– February 2012
Duration	3 academic semesters
Number of credits	90 ECTS (European Credit Transfer System)
Cost	The tuition fees are 50,75 € per credit. Some grants available
Coordinating University	University of Münster (Germany)
Partner Universities	Universitat Jaume I, University of Munster (Germany) and Universidade Nova de Lisboa (Portugal)