

Main Features

Academic Period (2011 - 2012):

November 2011 to June 2012 (Master's project is defended in September/December 2012)

Language:

Spanish/English. Although most courses are taught in Spanish also some courses are taught in English. All courses provide information in English.

For Spanish speakers master students, the Modern Languages Centre at the University of Granada offers an English course at reduced rate (30% of the price) during the first term (<http://www.ugr.es/~clm/>).

Class Schedule:

From 17:00 until 20:00, Tuesday to Thursday.

Location:

Technical School of Computer and Telecommunications Engineering, University of Granada, Spain.
C/ Periodista Daniel Saucedo Aranda, s/n. 18071 Granada, (España).

Application Period:

Students must apply from June to July, and will be informed about their admission by September. There's a second application period from September to the middle of October, being their applications answered by the end of October.

If you need pre-admission letter prior to these dates, please contact the coordinator of the Master.

Course Fee:

Approximately 1,700€ (official prices for next year not published yet).

Financial Aid:

The Master offers two scholarships that will partially cover registration fee (800€) and living expenses (400€ per month for nine months). Scholarships are mainly opened to non-Spanish speaker students and will be awarded on the basis of academic excellence.

7 reasons to study at the University of Granada (UGR)

- 1.** The UGR, one of the best in Europe, is widely recognized internationally for its quality in all areas of higher education: teaching, research, culture and services.
- 2.** It is the favorite destination for European exchange students (LLP/Erasmus). In 2007 it was awarded the Erasmus Programme Gold Star.
- 3.** The UGR is a welcoming and cosmopolitan university where you can further your studies in an environment of diversity, equality and tolerance. 13% are international students.
- 4.** The UGR offers a wide selection of quality academic programmes to more than 70,000 students. These programmes are both modern and internationally oriented, including 24 double degrees and joint degrees.
- 5.** You can also learn Spanish and other foreign languages, as one of the 10,000 students who enrol each year on the courses offered by the UGR Modern Languages Centre and the UGR Confucius Institute (Chinese).
- 6.** The UGR is recognized internationally for its research excellence in many fields. Its more than 400 research groups carry out top-quality research in all areas of scientific knowledge, in collaboration with other national and international leaders in their fields.
- 7.** Granada -a safe modern city- is also located in a privileged spot, halfway between the sea and the mountains: 40 minutes from the Mediterranean coast's sub-tropical climate and 30 minutes from the ski resort of Sierra Nevada.



MASTER SOFT COMPUTING & INTELLIGENT SYSTEMS

DEPARTMENT OF COMPUTER SCIENCE
AND ARTIFICIAL INTELLIGENCE



SOFT
COMPUTING
& INTELLIGENT
SYSTEMS



<http://docto-si.ugr.es/>

The Master's Degree in Soft Computing and Intelligent Systems

provides advanced training in the field of Intelligent Systems, particularly in key techniques such as Fuzzy Logic, Artificial Neural Networks, Evolutionary Computation and Probabilistic Reasoning, amongst others. Furthermore, it covers the use of these techniques in the context of key problems such as Data Mining, Bioinformatics, the Semantic Web, Robotics and Intelligent Databases, amongst others.

All students who complete the Master are awarded a degree which is recognised throughout the European Higher Education Area (EHEA) and also allows the possibility to study for the Doctorate Program "Information and Communication Technology" and to obtain a PhD Degree. This is a one-year full-time program that combines rigorous training in advanced techniques with a close contact with real applications.



Program Structure

The Master is divided into nine modules plus a Master's project.

SOFT COMPUTING: BASICS

- Evolutionary Computation and Bio-Inspired Algorithms
- Fuzzy Sets
- Probabilistic Reasoning
- Advanced Neural Networks

SOFT COMPUTING: HYBRIDISATION AND APPLICATIONS

- Soft Computing-Based Metaheuristics
- Decision-Making Models
- Evolutionary Neural Networks and Applications
- Fuzzy Rules-Based Systems
- Soft Computing and Computer Vision

DATA MINING

- Introduction to Data Mining
- Support Vector Machines (SVMs) and Data Mining
- Fuzzy Logic-Based Data Mining
- Data mining and Evolutionary Models for Knowledge Extraction
- Probabilistic Models for Data Mining
- New Trends in Data Mining

BIOINFORMATICS: BASICS AND APPLICATIONS

- Bioinformatics: Basics and Applications

COLLABORATIVE WORKING ARCHITECTURES AND ENVIRONMENTS

- Intelligent Process Planning and Management
- Autonomous Robots

DATABASE INFORMATION HANDLING FOR INTELLIGENT SYSTEMS

- New Trends in Database-Based Information Management
- Soft Computing-Based Database Systems

KNOWLEDGE ENGINEERING AND THE SEMANTIC WEB

- Ubiquitous Computing and Knowledge Mobilisation
- XML Technologies for Knowledge Representation and the Web

WEB TECHNOLOGIES AND INFORMATION PROCESSING

- Text and Web Mining
- Intelligent Technique-Based Web Recommendation Systems
- Intelligent Technique-Based Information and Web-Retrieval Systems

SEMINAR ON NEW TRENDS IN SOFT COMPUTING AND INTELLIGENT SYSTEMS

Lecturers

The teaching staff has been selected among teachers of the Computer Science and Artificial Intelligence Department of the University of Granada and other prominent members of universities.

Information

For more information, please contact with:

docto-si@decsai.ugr.es

<http://docto-si.ugr.es/>

School for Postgraduate Studies

<http://escuelapostgrado.ugr.es/>



University of Granada

<http://www.ugr.es/>