Main Features

Academic Period (2013-2014):
• From October 2013 to April 2014: lectures of the courses
• From April to July: Supervised research project (Master’s project will be defended in July or September 2014)

Language:
Spanish/English. Although most courses are taught in Spanish some courses are taught in English too. All courses provide information in English.

Class Schedule:
From 17:00 until 21:00, Monday to Thursday.

Location:

Application Period:
There are three periods for applying the master:
1. February 15 - March 6: Only for foreign students
2. July 1 - August 25
3. September 30 - October 3
If you need a pre-admission letter prior to these dates, please contact the coordinator of the Master.

Course Fee:
Approximately 2500 € (41.5 € per ECTS)
More information at: http://escuelaposgrado.ugr.es/pages/masteres_oficiales/calendario_precios_publicos

Financial Aid:
You can obtain information about different scholarships in the web of the International School for Postgraduate Studies: http://escuelaposgrado.ugr.es/pages/becas

Seven reasons to study at the University of Granada

• 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.
• It is the favourite destination for European exchange students (LLP/Erasmus). In 2007 was awarded the Erasmus Programme Gold Star.
• The UGR is a welcoming and cosmopolitan university where you can further your studies in an environment of diversity, equality and tolerance.
• The UGR offers a wide selection of quality academic programmes to more than 70000 students. The programmes are both modern and internationally oriented, including 24 double degrees and joint degrees.
• You can also learn Spanish and other foreign languages, as one of the 10000 students who enrol each year on the courses offered by the UGR Modern Languages Centre and the UGR Confucius Institute (Chinese).
• 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.
• Granada, a safe and 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.
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, among 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.

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 Data Mining
  - Data Mining and Evolutionary Models for Knowledge Extraction
  - Probabilistic Models for Data Mining
  - New Trends in Data Mining
- **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 Recommendations 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:

- **Master coordinator:** Andrés Cano Utrera (acu@decsai.ugr.es)
- **Email:** docto-si@decsai.ugr.es
- **Master web page:** http://docto-si.ugr.es
- **International School for Postgraduate Studies:** http://escuelaposgrado.ugr.es
- **University of Granada:** http://www.ugr.es