**ENGLISH COURSES( only available at Master level)**

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| **MASTER LEVEL** | **COURSES** |
| **02AC: Agri-Food Engineering** (Agroingeniería) | FIRST SEMESTER  - Automation and control of agro-food processes (3 ECTS)  - Applied electronics (3 ECTS)  - Robotics, applied to agriculture (3 ECTS)  - Web services and applications in the agro-food systems (3 ECTS)  - Precision agriculture (3 ECTS)  - Physical properties and quality of agriculture products (3 ECTS)  - Research methodology (3 ECTS)  SECOND SEMESTER  - Systems dynamics and modelling (3 ECTS)  - Oral presentation and communication techniques (3 ECTS)  - Electrical Systems in agri-food facilities (3 ECTS)  - Geographical Information Systems (3 ECTS) |
| **02AH: Agroforestry Biotechnology** (Biotecnología Agroforestal) | FIRST SEMESTER  - Genomics of plant-associated microorganisms (4 ECTS)  - Plant biophysics (4 ECTS)  - Scientific seminars (9 ECTS)  SECOND SEMESTER  - Plant immunity and resistance to pathogens (4 ECTS)  - Plant-insect interactions: control strategies (4 ECTS)  - Virulence factors in plant pathogens (4 ECTS)  - Biotechnological applications of rhizobacteria (4 ECTS) |
| **02AI: Agricultural, Food and Natural Resource Economics** (Economía Agraria, Alimentaria y de los Recursos Naturales) | FIRST SEMESTER  - Economics (4 ECTS)  SECOND SEMESTER  - Agricultural Policy (4 ECTS)  - Agri-environmental Policy and Law (4 ECTS)  - Water Economics and Policy (4 ECTS) |

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| **STUDY** | **COURSES** |
| **02AE: Physics of Complex System** (Física de los Sistemas Complejos) | The possibility of making a training schedule 30 ECTS in English is available. The subjects that can be studied in English are:  FIRST SEMESTER  - Chaos workshop (6 ECTS)  - Cellular automata (3 ECTS)  SECOND SEMESTER  - Fractal growth (3 ECTS)  - Fractal and multifractal geometry: applications (3 ECTS)  - Complex networks in ecology (3 ECTS)  - Semi-classical methods in chaotic systems (3 ECTS) |
| **02AJ:** **Agro-Environmental Technology for Sustainable Agriculture (**Tecnología Agroambiental para una Agricultura Sostenible) | FIRST SEMESTER  - Agricultural chemical analysis (4 ECTS)  - Models for analysis of agro-environmental systems (5 ECTS)  - Crop ecology and technology: productivity and resources uses (4 ECTS)  - Process of soil degradation (3 ECTS)  - Diffuse agricultural pollution (4 ECTS)  - Integrated pest management in plant protection (5 ECTS)  - Advanced seminars (9 ECTS)  SECOND SEMESTER  -Risk management in agriculture in a context of global change (4 ECTS)  - Pedometrics: mathematical techniques and modeling (4 ECTS)  - Experimental design and statistical data analysis (4 ECTS)  - Soil quality and growing media (5 ECTS) |
| **02AK**: **Technology for Human Development and Cooperation** (Tecnología para el Desarrollo Humano y la Cooperación) | Although the courses aren’t taught in English, they offer to the exchange students:  **- Material in English  - Tutoring in English  - Exams in English** |

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| **STUDY** | **COURSES** |
| **02AM: Plant Genetic Resources Conservation** (Recursos Fitogenéticos) | FIRST SEMESTER  - Ex situ conservation of plant: resources (6 ECTS)  - Plant genetic resources: origin and systematic (6 ECTS)  - Habitat conservation and characterization (4 ECTS)  SECOND SEMESTER  -Plant genetic resources characterization I (4 ECTS)  - Plant genetic resources characterization II (4 ECTS)  - In vitro culture techniques applied to plant genetic resources conservation (4 ECTS)  - Design and analysis of experiments (3 ECTS) |