International Semester Program intended to foreign students of engineering.

Study a full semester for 30 ECTS in English divided into:

- 12 ECTS for a Project
- 18 ECTS for 3 Courses

More info.: subdireccion.externas.eii@uva.es

and: www.relint.uva.es ; www.eii.uva.es

START
February
2016
INDUSTRIAL ENGINEERING INTERNATIONAL SEMESTER

The project offers foreign students a full semester (30 ECTS credits) in English to undertake engineering studies in any of the degrees currently being taught at the faculty.

The proposed structure is as follows:

- **12 ECTS** corresponding to the student’s final project.
- **18 ECTS** corresponding to three courses with six ECTS credits each, which students choose from amongst six proposed courses, all of which are transversal for the seven bachelor’s degrees taught in industrial engineering.

The proposed courses are:

1. **Environment and Renewable Energies** – Department of Chemical Engineering and Environmental Technology and Department of Electrical Engineering.
   
   
   **Course description:** Renewable Energies: Department of Electrical Engineering. Solar energy fundamentals and solar photovoltaic basics. PV system components. PV systems designing and sizing both a grid-tied system and an off-grid system with battery backup. Hands-on lab: practice with meters and PV system components. Computer simulation lab: practice with simulation software for designing and calculating PV systems.

2. **Science, Technology and Society.** - Department of Electronic technology
   
   **Course description:** Link between science, technology and society: historical perspective. Science and technology culture. Technology


4. **System Dynamics. Modelling and Simulation in Engineering.**
Department of Systems and Automatic Engineering

**Course description:** System Dynamics: analysis of variables, structure and modes of behaviour. Process and systems modelling. System Dynamics software. Simulation models of elementary processes and of complex systems in engineering. Simulation models related to environment, energy, ecosystems and natural resources. Modelling and simulation of systems and processes found in the economy and society, and with long-term global development.


6. **Spanish Course.**- Language Centre

These courses will also be open to any visiting students even if they are not included in the full semester.