

International Courses

School of Industrial Engineering

Semester's information

Master's degree information



European Project Semester, EPS, Fall

21 ECTS ENGINEERING PROJECT

At least 3 different nationalities at the team

Groups from 3 to 6 people

Multidisciplinary team

Students with at least 3 different backgrounds

+

9 ECTS additional courses based on soft skills

2,5 ECTS Project Management, Leadership and Team Building

3 ECTS Academic Writing and use of Artificial Intelligence

2 ECTS Creativity and Design Thinking

INTERNATIONAL SPRING SEMESTER COURSES

6 ECTS Creativity and Innovation in Industrial Engineering

6 ECTS Science, Technology and Society

6 ECTS System Dynamics, Modelling and Simulation in Engineering

6 ECTS The Environment and Renewable Energy

6 ECTS Technical Projects Development and Manufacturing Engineering

12 ECTS Final Project

Internships available throughout the whole academic year

SEMESTER'S INFORMATION

The School of Industrial Engineering at the University of Valladolid (UVa), Spain offers different possibilities to enroll subjects taught in English.

Two specific programs: the International Project Semester (Autumn) and the International Semester (Spring) are tailored for engineering students seeking a multidisciplinary and multicultural academic experience.

The central component of the **International Project Semester** autumn program is a 21 ECTS Engineering Project, emphasizing collaboration among teams from different countries and academic backgrounds which are complemented by 9 ECTS of soft skills training, covering project management, academic writing with AI, and creativity through design thinking.

The **International semester** is taught in Spring and students can enroll up to 30 ECTS of their choice. It offers a diverse and forward-thinking curriculum designed to equip engineering students with interdisciplinary skills and global perspectives. Courses include Creativity and Innovation in Industrial Engineering, Science, Technology and Society, System Dynamics, Modelling and Simulation, Environment and Renewable Energy, and Technical Projects Development and Manufacturing Engineering, each worth 6 ECTS. The program culminates in a 12 ECTS Final Project, allowing students to apply their knowledge to real-world challenges, fostering innovation, sustainability, and systemic thinking within the field of industrial engineering.

MASTER'S DEGREE INFORMATION

The School of Industrial Engineering offers two advanced, English-taught Master's programs designed to equip students with specialized knowledge and practical skills in key engineering fields.

The **Master's Degree in Environmental Engineering** (Spring semester) focuses on sustainability and innovation, featuring courses such as Simulation of Processes for Pollution Management and Treatment and Environmental Biotechnology (3 ECTS each). A strong emphasis on independent research is reflected in the Research Orientation to the Final Project (15 ECTS), culminating in a 9 ECTS Final Project that enables students to apply their expertise to real-world environmental challenges.

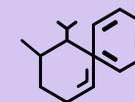
The **Master's Degree in Chemical Engineering** spans both Fall and Spring semesters, offering a well-rounded education in advanced chemical process design and sustainability. In Spring, students explore Reaction Process Design (6 ECTS) and Chemical Process Analysis with Simulators (4.5 ECTS), while the Fall semester includes Thermodynamic and Dynamic Simulation of Chemical Processes and the course Sustainability and Excellence, totaling 15 ECTS. Both programs combine rigorous academic training with practical application, preparing students for global careers in science and industry.

EII MASTER'S DEGRESS



Máster's Degree in Environmental Engineering / Spring semester

- Simulation of Processes for Pollution, 3 ECTS
- Management and Treatment, 3 ECTS
- Environmental Biotechnology, 3 ECTS
- Research Orientation, 15 ECTS
- Final Project, 9 ECTS



Master's Degree in Chemical Engineering

- Design of Reaction Processes 6 ECTS, Spring
- Chemical processes analysis with simulators, 4.5 ECTS, Spring
- Thermodynamic Modelling of Chemical Processes, 4.5 ECTS, Fall
- Dynamic Simulation of Chemical Processes, 4.5 ECTS, Fall
- Sustainability and Excellence, 6 ECTS, Fall