

Work Placement

Code: 44536

ECTS Credits: 12

2025/2026

Degree	Type	Year
Modelización para la Ciencia y la Ingeniería / Modelling for Science and Engineering	PRO	1

Contact

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Teachers

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Teaching groups languages

You can view this information at the [end](#) of this document.

Prerequisites

None.

Objectives and Contextualisation

Students will carry out internships in companies (public or private) or in institutions (research centers and/or university departments). The aim is to introduce students to the professional world, whether they wish to pursue a PhD or work in a company. Internships provide the necessary component of practical learning and establish a direct line of collaboration between the academic and professional worlds.

Learning Outcomes

1. CA36 (Competence) Perform professional tasks related to modelling with ethical, sustainability, gender equality and/or social justice responsibility.
2. CA36 (Competence) Perform professional tasks related to modelling with ethical, sustainability, gender equality and/or social justice responsibility.
3. CA36 (Competence) Perform professional tasks related to modelling with ethical, sustainability, gender equality and/or social justice responsibility.
4. CA36 (Competence) Perform professional tasks related to modelling with ethical, sustainability, gender equality and/or social justice responsibility.
5. CA36 (Competence) Perform professional tasks related to modelling with ethical, sustainability, gender equality and/or social justice responsibility.

6. CA37 (Competence) Work in multidisciplinary teams on the development of modelling projects proposed by companies and/or research centres.
7. CA38 (Competence) In the professional environment, effectively communicate the procedures and results required to solve problems posed by the centre hosting the student for their internship.
8. KA27 (Knowledge) Identify the knowledge acquired on mathematical modelling that facilitates entry into the labour market.
9. KA27 (Knowledge) Identify the knowledge acquired on mathematical modelling that facilitates entry into the labour market.
10. KA27 (Knowledge) Identify the knowledge acquired on mathematical modelling that facilitates entry into the labour market.
11. KA27 (Knowledge) Identify the knowledge acquired on mathematical modelling that facilitates entry into the labour market.
12. KA27 (Knowledge) Identify the knowledge acquired on mathematical modelling that facilitates entry into the labour market.
13. KA28 (Knowledge) Identify the programming languages and environments that are required to solve problems posed in a professional context.
14. SA37 (Skill) Critically assess the implementation of modelling techniques and/or tools carried out in a particular professional context.
15. SA37 (Skill) Critically assess the implementation of modelling techniques and/or tools carried out in a particular professional context.
16. SA37 (Skill) Critically assess the implementation of modelling techniques and/or tools carried out in a particular professional context.
17. SA37 (Skill) Critically assess the implementation of modelling techniques and/or tools carried out in a particular professional context.
18. SA37 (Skill) Critically assess the implementation of modelling techniques and/or tools carried out in a particular professional context.
19. SA37 (Skill) Critically assess the implementation of modelling techniques and/or tools carried out in a particular professional context.
20. SA38 (Skill) Implement original computational tools to provide solutions to new challenges and problems posed by the centre hosting the student for their internship.
21. SA39 (Skill) Interpret the results and predictions obtained from applying a model to the problem-solving posed in a specific professional context.

Content

There are no theoretical contents for this module.

Activities and Methodology

Title	Hours	ECTS	Learning Outcomes
Type: Supervised			
Development of practices	290	11.6	CA36, CA37, CA38, KA27, KA28, SA37, SA38, SA39, CA36
Work planning	6	0.24	CA36, CA37, CA38, KA27, KA28, SA37, SA38, SA39, CA36

The Virtual Campus of the module will display a real list of companies and research centers where students of this Master's program have completed internships in recent years.

An agreement must be signed between the University and the Company. This procedure is managed by the Academic Administration of the Faculty of Sciences, since, in fact, the agreement is signed by the Dean of the

Faculty of Sciences of the University, the person appointed by the Center, and the student. The document must clearly state the name of the tutor designated by the company, the academic tutor from the university, the dates, and the work plan.

The total number of hours is 300, which correspond to the 12 credits of the subject.

Annotation: Within the schedule set by the centre or degree programme, 15 minutes of one class will be reserved for students to evaluate their lecturers and their courses or modules through questionnaires.

Assessment

Continous Assessment Activities

Title	Weighting	Hours	ECTS	Learning Outcomes
Report done by the tutor appointed for the centre	80%	0	0	CA36, CA37, CA38, KA27, KA28, SA37, SA38, SA39
Report written by the student	20%	4	0.16	CA36, CA37, KA27, KA28, SA37, SA38, SA39

The evaluation of this module takes into account two items:

The first is a report prepared by the tutor designated by the company, which consists of filling out a form assessing certain aspects of the work performed by the student. The mentioned form will be available on the Virtual Campus. The company tutor must send it to the student, who will then have to submit it through an assignment that will be enabled on the Virtual Campus.

The second is a descriptive report written by the student explaining what they have been doing at the company / Research Center. The report should be between 6 and 12 pages long. Below is a possible outline:

- Personal information
- Dates of the stay at the company
- Company details. Tutor assigned by the company
- Explanation of the nature of the company
- Teamwork you have performed
- Specific description of the tasks carried out during your stay at the company
- Evaluation of the work done with the knowledge and skills acquired in relation to the master's studies
- List of problems encountered and procedures followed to resolve them
- Evaluation of personal work and suggestions
- Assessment of the experience and personal suggestions

Both documents must be submitted on the subject's Virtual Campus before June 30.

Bibliography

There are no specific references.

Software

There is no specific software

Groups and Languages

Please note that this information is provisional until 30 November 2025. You can check it through this [link](#). To consult the language you will need to enter the CODE of the subject.

Name	Group	Language	Semester	Turn
(PEXTm) Pràctiques externes i pràcticum (màster)	1	English	second semester	afternoon