

### Work Placement

Code: 104427  
ECTS Credits: 12

Degree	Type	Year	Semester
2503740 Computational Mathematics and Data Analytics	OT	4	A

### Contact

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### Teaching groups languages

You can check it through this [link](#). To consult the language you will need to enter the CODE of the subject. Please note that this information is provisional until 30 November 2023.

### Teachers

María Dolores Herbera Espinal

Isabel Serra Mochales

### Prerequisites

The student must have passed the first two courses of the degree and it is necessary, in addition, to have passed a minimum of 150 ECTS credits.

The student must have an academic tutor, who must be a teacher of the subject.

Annotation: The registration is formalized once the agreement has been signed between the UAB and the entity that hosts the student (and this can be at any time during the academic year), so the first steps to do the course are done before being enrolled. For non-enrolled students, there will be updated information in the Virtual Campus Coordination Space.

### Objectives and Contextualisation

The main objective of this course is to bring the student closer to the work reality and facilitate their professional insertion.

By studying this subject the student will be able to contrast the theoretical-practical knowledge acquired in the undergraduate studies with the needs of the professional life and will have the opportunity to work in interdisciplinary teams.

Given the duration of these practices, the student may have the possibility to experience the initiation, prospecting, assessment, organization, execution, completion and subsequent realization of the report of the same "real" project.

## Competences

- Apply a critical spirit and rigour for the validation or rejection of your own arguments and those of others.
- Demonstrate a high capacity for abstraction and translation of phenomena and behaviors to mathematical formulations.
- Make effective use of bibliographical resources and electronic resources to obtain information.
- Relate new mathematical objects with other known objects and deduce their properties.
- Students must be capable of applying their knowledge to their work or vocation in a professional way and they should have building arguments and problem resolution skills within their area of study.
- Students must be capable of collecting and interpreting relevant data (usually within their area of study) in order to make statements that reflect social, scientific or ethical relevant issues.
- Students must be capable of communicating information, ideas, problems and solutions to both specialised and non-specialised audiences.
- Using criteria of quality, critically evaluate the work carried out.
- Work cooperatively in a multidisciplinary context assuming and respecting the role of the different members of the team.

## Learning Outcomes

1. Apply a critical spirit and rigour for the validation or rejection of your own arguments and those of others.
2. Apply the knowledge acquired to professional life.
3. Carry out tasks that test critical and reflective capacities and encourage decision-making.
4. Contrast the theoretical and practical knowledge acquired.
5. Make effective use of bibliographical resources and electronic resources to obtain information.
6. Students must be capable of applying their knowledge to their work or vocation in a professional way and they should have building arguments and problem resolution skills within their area of study.
7. Students must be capable of collecting and interpreting relevant data (usually within their area of study) in order to make statements that reflect social, scientific or ethical relevant issues.
8. Students must be capable of communicating information, ideas, problems and solutions to both specialised and non-specialised audiences.
9. Using criteria of quality, critically evaluate the work carried out.
10. Work cooperatively in a multidisciplinary context, taking on and respecting the role of the distinct members in the team.
11. Work in interdisciplinary teams.

## Content

Stages and activities to be carried out by the student throughout the internship period:

Interview with the academic tutor. Preparation of the CV .....	2 hours
Planning: search, interviews, organization .....	10 hours
Work in the company.....	250 hours
Report writing.....	30 hours
Preparation of the public exhibition of the work carried out .....	6 hours
Public presentation and attendance to the presentations of the classmates ...	2 hours

## Methodology

Detail of the stages and activities to be carried out by the student throughout the internship period:

### In section 1:

You must fill in the initial form and prepare the CV. Send both to the academic tutor. Maintain an interview with the academic tutor and redo, if necessary, the CV. It must take into account what types of jobs are appropriate to the needs and conditions of the student.

### In section 2:

Search for work and go to interviews. Once the job has been chosen, the UAB-Company agreement proposal must be completed, together with the company. You must specify the work to be done, how to do it, with what time and on what dates. It is also necessary for the company to appoint a tutor who will ensure, within the company, the student's training; This tutor, once the work is completed, must prepare an evaluation report that shows the accreditation of the hours worked and the work done, how the relationship / adaptation of the student to the work team was developed.

### In section 3:

Perform the tasks entrusted by the company with the supervision of the company's tutor.

### In section 4:

Preparation of the report of the practices carried out. The student will have a guide on the Virtual Campus.

### In section 5:

Preparation of the public exhibition of the memory (it must have a maximum duration of 15 minutes). The use of IT is recommended.

### In section 6:

Public exhibition of the memory and attendance at the presentations of the other colleagues who have done the practices during the same period.

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.

## Activities

Title	Hours	ECTS	Learning Outcomes
Type: Directed			
Interview and planning	12	0.48	
Type: Supervised			
Work in the company	250	10	
Type: Autonomous			
Report and public presentation	38	1.52	

## Assessment

The criteria that are used for the evaluation of the course are the following:

- Report of the tutor designated by the company (60%)
- Content of the internship report (20%)
- Public exhibition of the report in front of a court and of the companions who have carried out the practices in the same period (20%)

To be evaluated positively, two conditions are indispensable:

- (a) That the tutor's report is positive.
- (b) Obtain a positive evaluation of the exposure.

The student will be considered as "Not Submitted" in the event that the tutor of the company does not certify that he or she has actually done the tribe, or in the event that the presentation is not made. In summary, it is necessary:

- Accreditation of work hours by the company's tutor.
- Report / evaluation of the company's tutor (must include the work done, the hours worked and an assessment of how the work was carried out and the adaptation to the work team).
- Oral presentation of the work done in front of one of the responsible professors and of the other colleagues who have also done the internships in the same period.

There is no option for unique evaluation for this subject.

## Assessment Activities

Title	Weighting	Hours	ECTS	Learning Outcomes
Public presentation	20%	0	0	1, 8, 6, 5
Work in the company	60%	0	0	2, 1, 9, 4, 3, 8, 6, 7, 10, 11, 5
Work report	20%	0	0	1, 8, 6, 5

## Bibliography

The bibliography will be variable depending on the type of practices, many times it will be provided by the company itself. It may be useful to have at hand the bibliography used in the courses of the degree.

## Software

The software will be variable depending on the type of practices, many times it will be provided by the company itself. It may be useful to have at hand the software used in the courses of the degree.