Universitat Autònoma de Barcelona

2023/2024

Work placement

Code: 100109
ECTS Credits: 12

Degree	Type	Year	Semester
2500149 Mathematics	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

Isabel Serra Mochales

Prerequisites

In order to be able to enrol in the subject, the student must have passed 180 ECTS.

It is adviced to have passed 200 ECTS

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

This subject want to get the student closer to the job market, and get orientation towards the development of his/her future career in relation to knowledge and abilities he/she has gone studying the degree in Mathematics.

He/she will be able to see how his abilities and knowledge can be useful in industry as well as in secondary school teaching. Being able to see how his/her technical knowledged and the abilities adquired while studying the degree help to develope a professional career.

The subject should also help the student to decide whether more formation in needed in order to incorporate to the job market.

The interested student must read carefully the documentation in the Internship section of the Virtual Campus Communication Area.

Competences

- Actively demonstrate high concern for quality when defending or presenting the conclusions of one's work.
- Apply critical spirit and thoroughness to validate or reject both one's own arguments and those of others.
- Develop critical thinking and reasoning and know how to communicate it effectively, both in one's own languages and in a third language.
- Distinguish, when faced with a problem or situation, what is substantial from what is purely chance or circumstantial.
- Effectively use bibliographies and electronic resources to obtain information.
- Formulate hypotheses and devise strategies to confirm or reject them.
- Students must be capable of communicating information, ideas, problems and solutions to both specialised and non-specialised audiences.
- Take account of social, economic and environmental impacts when operating within one's own area of knowledge.
- Use computer applications for statistical analysis, numeric and symbolic calculus, graphic display, optimisation or other purposes to experiment with Mathematics and solve problems.
- When faced with real situations of a medium level of complexity, request and analyse relevant data and information, propose and validate models using the adequate mathematical tools in order to draw final conclusions
- Work in teams.

Learning Outcomes

1. Actively demonstrate high concern for quality when defending or presenting the conclusions of one's work.
2. Analyse a situation and identify points for improvement.
3. Analyse the indicators of sustainability of academic and professional activities in the areas of knowledge, integrating social, economic and environmental dimensions.
4. Apply critical spirit and thoroughness to validate or reject both one's own arguments and those of others.
5. Contrast acquired theoretical and practical knowledge.
6. Do work that tests one's critical and reflexive capacity and encourages decision-making.
7. Effectively use bibliographies and electronic resources to obtain information.
8. Identify situations that require changes or improvements.
9. Identify the social, economic and environmental implications of academic and professional activities in the area of your knowledge.
10. Know about professional life.
11. Propose new experience-based methods or alternative solutions.
12. Students must be capable of communicating information, ideas, problems and solutions to both specialised and non-specialised audiences.
13. Work in interdisciplinary teams.
14. Work in teams

Content

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

1) Interview with the academic tutor. Preparation of the CV ..... 12 hours

2) Planning: search, interviews, organization, ... 10 hours
3) Stay at the internship entity .... 250 hours
4) Preparation of the report .....,. ..... 30 hours
5) Preparation of the public exhibition of the work done ..... 6 hours
6) Public presentation and attendance at the presentation of classmates ..... 2 hours

Methodology

This subject has somewhat exceptional characteristics, as you can enroll throughout the course, when you are about to sign your internship agreement. Remember that there are two ways to do the subject:
• high school internships
• internships in companies

Then you will have to do the first steps of the subject without being enrolled.

It is very important that you access the section dedicated to Business Internships in the Degree Coordination Area. Among the documentation you will find there is:
• protocol document where you will find the detailed and updated information of the subject
• additional documentation needed to do the course (pre-agreement document, evaluation sheet of the internship tutor ...)
• internship offers

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 planificatin	12	0.48	
Type: Supervised			
Internship at the choosen entity	250	10	
Type: Autonomous			
Presentation Preparation	6	0.24	
Public presentation and attending the presentation of other students	1	0.04	
Report preparation	30	1.2	

Assessment

The steps to evaluate the subject are as follows:

1. At the end of the internship, the collaborating entity must be asked to draw up the accreditation-evaluation report for the internships carried out. You will find the model to be used in the moodle classroom of the subject on the Virtual Campus.
2. Write the internship report
3. Deliver the report to the collaborating entity for approval (e.g. confidentiality of data and processes)
4. Prepare and make the oral presentation of the report (10-15 minutes)

Throughout the course, several sessions of presentations of internship reports will be organized. In the Virtual Campus of the Subject we announce the calendar of these presentations. The student can choose the session they want to make the presentation. The subject has two calls: one in July and another in September.

In order to be evaluated positively, two conditions are indispensable:

(a) That the tutor's evaluation is positive.
(b) Achieve a positive evaluation of the internship report.

The student will be considered "Not Presented" in case the tutor of the Company does not certify that he / she has
the work has actually been carried out, or in the event that the Internship Report is not submitted or is not submitted to the
oral defense of memory.

For this subject there is no option of unique evaluation

Assessment Activities

Title	Weighting	Hours	ECTS	Learning Outcomes
Entity's tutor evaluation	60%	0.5	0.02	3, 2, 4, 5, 10, 1, 9, 8, 11, 12, 6, 14, 13, 7
Public Presentation	10%	0.25	0.01	2, 4, 5, 10, 1, 8, 11, 12, 7
Report on the internship	20%	0.25	0.01	3, 2, 5, 10, 1, 9, 8, 12, 6, 7

Bibliography

The bibliography may vary depending on the type of work and, most likely, the company will provide it. It is good to have on hand the bibliography that has been used throughout the studies of the Degree in Mathematics.

Software

The subject does not have any specific software, but it is almost certain that where you do the internship you will
To fill out the forms you will need to use Word or Libre Office, and to mak