

Degree programme	Type	Course
Bachelor in Artificial Intelligence	PRO	3

Contact lecturer

Name : Javier Panadero Martinez

Email : javier.panadero@uab.cat

Prerequisites

As set out in the progression rules, in the section on enrolment continuation. As this is a fourth-year subject, students must have successfully completed at least all first-year subjects and obtained a total of 120 credits for the first three academic years.

However, as the main objective is to put the knowledge acquired on the degree into practice, students should be nearing the end of the programme (with the first three years completed), and should have enough time to devote to the placement and to other subjects.

Students may not begin the placement unless they are enrolled and the university-company cooperation agreement has been signed.

Objectives

The training objectives are:

- To allow students to apply and complement the knowledge and skills, both theoretical and practical, that they have acquired on their study programme.
- To familiarise students with the real methodology of work used in the professional context they will be joining and compare this with what they have learnt in their studies.
- To consolidate personal competences, such as teamwork, entrepreneurship, problem-solving in new environments, creativity and communication skills.
- To help students acquire the technical, methodological and participatory competences they will need in their future careers in computer engineering.
- To give students practical experience that will boost their future employability.

Learning outcomes

- CM28 (Develop artificial intelligence projects in a real environment by participating in the different phases, from design to implementation and validation, in accordance with ethical principles and current legislation.) Develop artificial intelligence projects in a real environment by participating in the different phases, from design to implementation and validation, in accordance with ethical principles and current legislation.
- CM29 (Act in accordance with ethical principles, respecting diversity and the different roles within the work team, responsibly fulfilling one's own duties.) Act in accordance with ethical principles, respecting diversity and the different roles within the work team, responsibly fulfilling one's own duties.
- CM30 (Critically evaluate the principles, values and procedures established within the framework of the

work placement, especially with regard to gender equality and respect for diversity.) Critically evaluate the principles, values and procedures established within the framework of the work placement, especially with regard to gender equality and respect for diversity.

- CM31 (Work in multidisciplinary teams in a professional environment demonstrating communication and coordination skills with the team, managing time and available resources, and adapting to unforeseen situations.) Work in multidisciplinary teams in a professional environment demonstrating communication and coordination skills with the team, managing time and available resources, and adapting to unforeseen situations.
- SM54 (Apply the knowledge, skills and competencies obtained in the subjects of the degree in the tasks of design, implementation and validation of artificial intelligence services, required by the external entity where the work placement is carried out.) Apply the knowledge, skills and competencies obtained in the subjects of the degree in the tasks of design, implementation and validation of artificial intelligence services, required by the external entity where the work placement is carried out.
- SM55 (Demonstrate the ability to communicate effectively with the rest of the work team to ensure the efficient development of the tasks assigned within the framework of the work placement.) Demonstrate the ability to communicate effectively with the rest of the work team to ensure the efficient development of the tasks assigned within the framework of the work placement.
- SM56 (Analyse the ethical, legal and environmental impact of the solutions developed within the framework of the work placement.) Analyse the ethical, legal and environmental impact of the solutions developed within the framework of the work placement.

Contents

The placement companies and institutions all work in different areas, which means that the content of the placements will also vary, depending on the tasks to be performed. Before beginning the placement, the training project has to be defined (and included in the placement agreement) with the placement organisation: detailing the tasks to be performed and the educational aims. This training project is validated by the lecturer in charge of the subject.

The subject content, therefore, is established in each student's training project, which will contain the following.

- Start and end dates, timetable, placement venue, and name and contact details of the company tutor.
- Description of the specific, transferable or general competences, to be developed, with their corresponding learning outcomes.
- Details of the content of the placement and the tasks to be performed.
- Monitoring procedure to be used by the company tutor.

Learning activities and methodology

Title	Hours	ECTS	Learning outcomes
Follow-up academic tutoring	2	0.08	
Placement at the company or institution	295	11.8	
Writing the report	3	0.12	

Students carry out a placement with an external company or institution of 295 hours in duration. The student's

role and tasks in the company are specified in the training project, which the student must know before starting.

It is the student's responsibility to be selected by a placement organisation. Students send their CV to the contact person specified in the offer and go through the selection process determined by the company.

There are three possible sources of offers, as follows.

1. Proposals made by the School of Engineering, for placements in collaborating organisations. Offers are posted in the subject's teaching space in the Campus Virtual intranet
2. Offers of non-curricular placements made by the "Servei d'Ocupabilitat de la UAB" (employment service). The placement coordinator verifies that the training project meets the subject's needs in terms of its competences and characteristics. An agreement on curricular placements must be drawn up between the School and the company, and signed.
3. Proposals from students themselves through direct contact with a company or based on an offer posted on online platforms or social networks. Before signing the agreement and starting the placement, the placement coordinator has to confirm that the training project meets the requirements of the subject.

In all cases, students will be supervised by an academic tutor and an external tutor.

- External tutors belong to the host organisation. They receive the students, assign work to them as set out in the training project, monitor their progress and submit the corresponding assessment reports.
- Academic tutors are university lecturers. They oversee students' progress to make sure that the subject's objectives are met and they submit a final assessment report.

The placement with the collaborating organisation must last 295 hours. The calendar and timetabling must be compatible with the students' university activities (academic work, representation, participation, etc.) and are tailored to each student, in line with the nature of the placement and the capabilities of the collaborating organisation.

At the end of the placement, the students write a report, for which the format and submission deadlines are set by the coordinator. A model report can be found in the teaching space in the Campus Virtual.

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

Continuous assessment activities

Title	Weight	Hours	ECTS	Learning outcomes
External tutor's assessment report on the placement	60	0	0	CM28, CM29, CM31, SM54
Academic tutor's assessment report on the placement	40	0	0	CM30, SM55, SM56

At the end of the placement, the coordinator assesses it on the basis of the reports from the academic tutor (40% of the final mark), the placement report submitted by the student and the report from the external tutor (60% of the final mark).

Unjustified non-fulfilment, on the part of students, of the terms of the agreement signed by them is cause for rescinding the agreement and assigning a "Fail" grade (0) for the subject. Once the placement has started, a grade of "Not assessed" cannot be obtained.

Students may not change to another organisation once one of the parties to the agreement (collaborating organisation, student or university) has signed it.

The external tutor assesses the degree of satisfaction with the placement undertaken through a document

prepared by the coordinator, to be submitted to the School's academic tutor within a maximum of ten days from the end of the placement. This report must contain the total number of hours contributed by the student and must assess the student's acquisition of the general, specific and transferable competences set out in the training project.

Students have to submit their placement report to their academic tutor within a maximum of ten days from the end of the placement. They can do this by email, requesting confirmation of receipt. Students must not disclose any confidential information from the collaborating organisation that they may acquire as a result of engaging in the placement. The report must be 9 to 12 pages in length, and keep to the format and content set out by the coordinator.

Academic tutors send their assessment reports to the lecturer responsible for the subject within five days of having received the reports from the external tutors and the students.

In this course, the use of Artificial Intelligence (AI) technologies is permitted as an integral part of the development of the work, provided that the final result reflects a significant contribution from the student in terms of analysis and personal reflection. The student must clearly identify which parts have been generated using this technology, specify the tools used, and include a critical reflection on how these tools have influenced the process and the final outcome of the activity. Lack of transparency in the use of AI will be considered academic dishonesty and may result in a penalty in the activity grade, or more severe sanctions in serious cases.

In this course, no MH grades are awarded.

Bibliography

The bibliography will be refer to the specific task that each student will develop during their placement and what they need to prepare the final report.

Software

None in particular

Course groups and languages

The information provided is provisional until November 30. After this date, you will be able to consult the language of each group through this [link](#). To access the information, you will need to enter the course CODE

Type of teaching	Group	Language	Semester	Shift
(PEXT) Pràctiques externes i pràcticum	1	Unknown	Undefined	morning-mixed