



Universitat de Lleida

DEGREE CURRICULUM **TRENDING TOPICS IN COMPUTER SCIENCE**

Coordination: SEBE FEIXAS, FRANCISCO

Academic year 2022-23

TRENDING TOPICS IN COMPUTER SCIENCE 2022-23

Subject's general information

Subject name	TRENDING TOPICS IN COMPUTER SCIENCE			
Code	103104			
Semester	UNDEFINED			
Typology	Degree	Course	Character	Modality
	Master's Degree in Informatics Engineering	2	OPTIONAL	Attendance-based
Course number of credits (ECTS)	6			
Type of activity, credits, and groups	Activity type	PRALAB	TEORIA	
	Number of credits	3	3	
	Number of groups	1	0	
Coordination	SEBE FEIXAS, FRANCISCO			
Department	MATHEMATICS			
Important information on data processing	Consult this link for more information.			

Teaching staff	E-mail addresses	Credits taught by teacher	Office and hour of attention
SEBE FEIXAS, FRANCISCO	francesc.sebe@udl.cat	0	

Subject contents

The contents of this subject are defined within the context of the company by the company tutor (CT) and validated by the university tutor (UT), as part of the dual training in which they are involved.

The CT (see the methodology section to understand the role of each person involved in the training) defines the tasks within the company that the student (ST) will carry out. These tasks in turn will define the contents that will be treated by the student and must be adjusted to the competencies and objectives to be developed in the subject.

Methodology

The Higher Polytechnic School defines a methodological framework to monitor and evaluate the dual training process. This methodological framework is generic to all the subjects that are carried out within the company in dual training.

The tutoring of each student is ensured by two figures who are essential in the success of the methodology: the company tutor (CT) and the university (UT).

The company tutor (CT) is responsible for the practical training of the student. His /Her function consists of welcoming and ensuring a correct integration of the student in the company, contributing to the acquisition of professional skills, monitoring, and evaluating the following: skills, know-how and knowing how to be in a professional environment.

The university tutor (UT) accompanies the student in his/her professional development and gives his/her support in case of difficulty. This role is especially important in the accompaniment and guidance in pedagogical matters. The UT ensures the monitoring process in the company and the relationship the student maintains with the professional environment. In addition, the UT works closely with the CT who is associated with the student's professional development.

Training process

When a student begins the master's degree and decides to do it in dual training, the first step is to explain the methodology to him/her and, therefore, to show the operation mode of the modality in which they will be involved. This will allow the student to know before the beginning of their training program, how they will work in term of skills objectives.

The dual training subjects within the "Enterprise Integrated Projects" specialty are divided over the three semesters of the master's degree. The distribution is as follows:

- The first and second semesters correspond to the subject "Enterprise Projects 1" (6 ECTS).
- The first and second semesters correspond to the subjects "Enterprise Projects 2", "Enterprise Projects 3" and "Trending Topics" (18 ECTS).

The competencies and objectives are carried out through the completeness of tasks defined in the company. In this sense, at the beginning of each semester, through a meeting between the tutors and the student, the tasks, and competencies to be developed are defined. The (CT) will be responsible for making the formal proposal to be reviewed and analyzed by the corresponding TU. At the end of the meeting, the tasks will be defined and associated with the competencies to be developed.

At the end of each semester, a meeting will be held in which the work carried out by the student will be analyzed focused on the tasks defined at the initial meeting of the semester. This analysis is based on the tracking carried out by the CT in the daily work of the student, as well as the documentation collected by the student in the Memory of Activities. In the activity report, the student describes in detail the tasks performed, the competencies that have been discussed and, the technologies that have been used. In addition, the student performs an analysis of the level of achievement of the skills and the level of learning from a critical point of view. Based on all this documentation, TE and TU carry out the evaluation of the tasks and the level of achievement of the associated competencies.

All the information associated with the tasks to be performed by the student (description, competencies and objectives worked on) as well as its evaluation are described in the so-called "Learning Notebook". In it, all the authors involved (student, CT and UT) will be able to write their comments associated with each step performed during the dual training period in order to capture and record a personal analysis and assessments throughout the process. The UT will be responsible for guarding the learning notebook throughout the training process.

Development plan

Types	Stakeholders	Objective	Dates
Apprenticeship	UT/ST	<ul style="list-style-type: none"> To know each other. To know the dual training process. To know the functions of all each actor. 	2 nd half of September
Business training	UT/CT	<ul style="list-style-type: none"> To know each other. To know the dual training process. To know the functions of all each actor. 	2 nd half of September
1st Meeting	UT/CT/ST	<ul style="list-style-type: none"> To analyze the integration of the ST into the enterprise. To decide the competencies to work in the first period and the activities associated. Issues/Pooling. 	2 nd half of October
2nd Meeting	UT/CT/ST	<ul style="list-style-type: none"> To analyze the acquired know-how. To present the Activity Report (MEM1). To evaluate the first period. 	2 nd half of January
3rd Meeting	UT/CT/ST	<ul style="list-style-type: none"> To analyze the integration of the ST into the enterprise. To decide the competencies to work in the first period and the activities associated. Issues/Pooling. 	2 nd half of February
4th Meeting	UT/CT/ST	<ul style="list-style-type: none"> To analyze the acquired know-how. To present the Activity Report (MEM2). To evaluate the second period. This grade corresponds to the subject "Enterprise Projects 1". 	2 nd half of June

5th Meeting	UT/CT/ST	<ul style="list-style-type: none"> • To analyze the integration of the ST into the enterprise. • To decide the competencies to work in the first period and the activities associated. • Issues/Pooling. • To define the topic and plan the development of the TFM. 	2 nd half of September
6th Meeting	UT/CT/ST	<ul style="list-style-type: none"> • To analyze the acquired know-how. • To present the Activity Report (MEM3). • To evaluate the second period. This grade corresponds to the subjects "Enterprise Projects 2", "Enterprise Projects 3" and, "Trending Topics". • Overall evaluation of the dual training process. 	2 nd half of February

Evaluation

This subject is included in the Dual training program. The evaluation is oriented based on competencies that the students develops in the company during the evaluation period. The TE and TU evaluate the student through the Learning Notebook.

The final grade of the subject is obtained as a result of weighing the level of acquisition of the competencies of the subject with the level of the development of the skills or appreciation criteria. The calculation and weight of each of the parts is obtained by the following formula:

$$0.7 * \text{Competences Grade} + 0.3 * \text{Skills Grade}$$

The level of skills and competences acquisition is measured based on evidences such as daily monitoring, self-criticism assessment by the student of his/her learning process, detailed documentation of the learning process, activities performed, developed competencies, methodology, technologies, as well as self-assessment of the level of learning. All this information is provided by the learner through the Learning Notebook and Activity Memories.

At the end of the evaluation period, CT, UT, and student hold a meeting in which the conclusions of the learning process and the final qualification is obtained and shared. The information resulting from the evaluation process is reflected in the Learning Notebook to provide all actors with complete information about and serve as evidence of the evaluation process.