



Universitat de Lleida

DEGREE CURRICULUM

MASTER'S THESIS

Coordination: SEBE FEIXAS, FRANCISCO

Academic year 2023-24

Subject's general information

Subject name	MASTER'S THESIS			
Code	103075			
Semester	UNDEFINED			
Typology	Degree	Course	Character	Modality
	Master's Degree in Informatics Engineering	2	COMPULSORY	Attendance-based
Course number of credits (ECTS)	12			
Type of activity, credits, and groups	Activity type	TFM		
	Number of credits	12		
	Number of groups	1		
Coordination	SEBE FEIXAS, FRANCISCO			
Department	COMPUTER ENGINEERING AND DIGITAL DESIGN			
Important information on data processing	Consult this link for more information.			
Language	Catalan/Spanish/English			

Teaching staff	E-mail addresses	Credits taught by teacher	Office and hour of attention
LERIDA MONSO, JOSEP LLUIS	joseplluiss.lerida@udl.cat	,38	
ONRUBIA PALACIOS, JORDI RICARD	jordi.onrubia@udl.cat	1,14	
SARRAT GONZÁLEZ, DAVID	david.sarrat@udl.cat	,38	
SEBE FEIXAS, FRANCISCO	francesc.sebe@udl.cat	0	

Subject's extra information

You will find all [the information regarding the TFM Masters in computer engineering](#) in the Master webpage.

Learning objectives

The Master Thesis is a compulsory subject in the curricula of all undergraduate degrees and master. In the Master in Computer Engineering, the final Masters (TFM) has 12 ECTS has been made in the last year and must work each student (or group of students) performed under guidance a director or two co-directors.

This work allows students to show an integrated training content received and acquired skills associated with the Masters degree.

Subject contents

Themes of the Master thesis MT according to areas

Below is a list of some fields where you can develop the TFM and contact person.

- Design and development of web applications and systems using interactive methods and techniques for user-centered design. **The person in charge** [Toni Granollers](#)
- Optimization of parallel applications, planning work in parallel and distributed environments, applications around the Liquid Galaxy. **The person in charge** [Francesc Giné](#)
- Applications for mobile devices and techniques for assessing the usability on mobile devices. **The person in charge** [Montserrat Sendín](#)
- Resolution of "decision and optimization" problems (Constraint Satisfaction and Satisfiability problems). **The person in charge** [Carlos Ansotegui](#)
- And data visualization applications in functional languages ??(eg Clojure, Scala) on the JVM. **The person in charge** [Juan Manuel Gimeno](#)
- Development of a Hadoop application for the calculation of a basic library of consistency that allows alignment of thousands of large-scale genomic sequences. The project will be done in groups. **The person in charge** [Fernando Cores](#)

TFM issues that can make a proposal UdL departments

- Please contact the coordinator and / or periodically review the Master website.

Proposals TFM proposal EPS and companies

- Proposals by Liquid Galaxy Lab (EPS - Ponent2002 company). The persone in charge Andres Ibanez (coordinator LAB Liquid Galaxy). More information in Lleida Google Developers Group (GDG Lleida)

Methodology

Proposal

The proposal of the master's thesis may be carried out in the following way:

- A student's proposal.
- A department's proposal.
- Proposals carried out within the framework of the convention of cooperation between university and enterprises.
- Projects carried out within the framework of the mobility offered by the UdL.

The proposal must be approved by the director (or the co-director) and the coordinator of the degree.

Enrolment

The enrolment allows a student to apply for the reading of his/her master's thesis once during the academic year.

The enrolment may be processed during two periods along the academic year:

- At the beginning of the first semester.
- At the beginning of the second semester.

Committee

The committee is composed of three members of whom at least one member must belong to the teaching staff of the Higher Polytechnic School, and at least two of them must be university teachers or researchers. The director or one of the co-directors will take part in the committee.

The degree coordinator will appoint the members of the committee. This appointment will be proposed by the director who personally fills out the [proposal document](#).

Delivery and defense of the thesis

The master's thesis must be delivered at least 5 working days prior to the presentation date following the instructions given in the [Regulation on master's thesis](#).

The defense of the MT can be carried out between 1st October and 15th July of the academic year in which the thesis was registered.

At the time of deposit students deliver a [brief summary of the Master thesis](#) signed by the director or co-director responsible for the EPS. This document will include the authorization of the student and the director of Master thesis to deposit a copy in the Library of the University of Lleida.

Evaluation

The master's thesis will be assessed following continuous assessment methodology. For the evaluation is going to be used [the Master thesis Portfolio document](#).

The final mark will be based on the marks of the following four items:

- Initial report (10%) which shows the assimilation of the aims and context of the MT to be carried out. It is assessed by the director.
- Follow-up report (10%) which presents evolution of the MT and decisions made. It is assessed by the director.
- Final MT presentation document (50%). It is assessed by the director.
- Presentation and defense of the MT in front of the examination committee (30%). Students will present their project and defend it publically answering the committee's questions.

The master's thesis must be delivered at least 5 working days prior to the presentation date following the instructions given in the [format of the Master thesis in Computer Engineering](#).

The committee is composed of three members of whom at least one member must belong to the teaching staff of the Higher Polytechnic School, and at least two of them must be university teachers or researchers. The director or one of the co-directors will take part in the committee.

The defense of the Master thesis can be carried out between 1st October and 15th July of the academic year in which the thesis was registered.