

**COURSE DATA****Data Subject**

Code	44290
Name	Master's final project
Cycle	Master's degree
ECTS Credits	7.0
Academic year	2021 - 2022

Study (s)

Degree	Center	Acad. Period year
2199 - Master's Degree in Electronic Engineering	School of Engineering	1 Annual

Subject-matter

Degree	Subject-matter	Character
2199 - Master's Degree in Electronic Engineering	4 - Master's final project	End Labour Studies

Coordination

Name	Department
GONZALEZ MILLAN, VICENTE	242 - Electronic Engineering

SUMMARY

The Master's Thesis, will link the knowledge gained in the Master with project management activities presented in previous training so that it is the best passing interface between the university environment and the world of Business.

PREVIOUS KNOWLEDGE**Relationship to other subjects of the same degree**

There are no specified enrollment restrictions with other subjects of the curriculum.



Other requirements

The realization of the theoretical modules for electronic technology and able to carry out the Master's Thesis.

COMPETENCES (RD 1393/2007) // LEARNING OUTCOMES (RD 822/2021)

2199 - Master's Degree in Electronic Engineering

- Students should apply acquired knowledge to solve problems in unfamiliar contexts within their field of study, including multidisciplinary scenarios.
- Students should be able to integrate knowledge and address the complexity of making informed judgments based on incomplete or limited information, including reflections on the social and ethical responsibilities associated with the application of their knowledge and judgments.
- Students should communicate conclusions and underlying knowledge clearly and unambiguously to both specialized and non-specialized audiences.
- Students should demonstrate self-directed learning skills for continued academic growth.
- Take into account the economic and social context in engineering solutions, be aware of diversity and multiculturalism and ensure sustainability and respect for human rights and equality between men and women.
- Diseñar un sistema, componente o proceso que cumpla unas especificaciones desde diferentes puntos de vista: electrónico, económico, social, ético y medioambiental.
- Demostrar una comprensión sistemática de un campo de estudio y el dominio de las habilidades.
- Realizar un análisis crítico, evaluación y síntesis de ideas nuevas y complejas.
- Ser capaz de fomentar, en contextos académicos y profesionales, el avance tecnológico, social o cultural dentro de una sociedad basada en el conocimiento.
- Students should possess and understand foundational knowledge that enables original thinking and research in the field.

LEARNING OUTCOMES (RD 1393/2007) // NO CONTENT (RD 822/2021)

The student should be able to:

- Acquire appropriate professional skills.
- Know how to approach a problem in electronics engineering.
- Be able to apply the most appropriate solution to every problem.
- Can identify the devices, subsystems and systems in electrical engineering.
- Apply creative solutions in engineering.
- Learn to defend decisions made when designing a project.
- Acquire appropriate professional skills.
- Develop skills of cooperation with other professionals.
- Make contact with the specific aspects of the practice of the profession.



DESCRIPTION OF CONTENTS

1. General Content.

The contents of the Master's Thesis will be different depending on the specific objectives of the project selection. They may be the subject of Master's Thesis are those who own the Master studies. In particular, they can project all kinds of electronic systems and devices carry few procedures allow engineering today. It may also be the subject of the Master's Thesis research and development, and theoretical or numerical modeling of equipment or electronic systems and components. They may also be considered as subjects End of Master studies related to the contents of the Certification and related equipment, factories, facilities, services or planning, management or operation. Therefore the contents of the field will be different depending on the specific work to master is selected by the student.

WORKLOAD

ACTIVITY	Hours	% To be attended
Graduation project		100
Development of a final project	105,00	0
TOTAL	105,00	

TEACHING METHODOLOGY

- Class work by attending meetings with the principal. Presentiality center in laboratories for conducting the practical part of the Master's Thesis.
- No student class work: preparation and introduction of the objectives of the work, simulations and designs. Another important part of the work will consist of the writing of the report.

EVALUATION

The master thesis will be evaluated by a court of master thesis. The court will comprise three members of the Electronic Engineering Department of. The note of the Master's Thesis will be given by the court after the defense of the student of your project and it will take into account both the solutions adopted for the resolution of the problem, as the rigor of memory and clarity of his defense. The procedure and documentation of evaluation is determined by the rules of the ETSE.

REFERENCES



Basic

- Apuntes de la asignatura de Proyectos del Máster de Ingeniería Electrónica.

ADDENDUM COVID-19

This addendum will only be activated if the health situation requires so and with the prior agreement of the Governing Council

English version is not available

1. Contenidos

Se mantienen los contenidos inicialmente recogidos en la guía docente.

2. Volumen de trabajo y planificación temporal de la docencia

Mantenimiento del peso de las distintas actividades que suman las horas de dedicación en créditos ECTS marcadas en la guía docente original.

3. Metodología docente

Continuará el trabajo del alumno de manera individual con seguimiento por parte del director mediante correo electrónico y/o tutorías mediante videoconferencia.

Si el trabajo requiere de datos experimentales que no pueden ser obtenidos por la imposibilidad de acceso a los laboratorios y, en caso de ser posible, los proporcionará el director del trabajo. En caso contrario, si ya existen datos experimentales pero no completos se podrá realizar el trabajo con los mismos, siempre que el director lo considere adecuado.

En caso de que no fuera posible la finalización del trabajo con los datos existentes ni se pudieran proporcionar otros, se podría reorientar el trabajo para llevarlo a cabo sin los mismos, siempre que esto sea posible según el criterio del director.

4. Evaluación

Exposición a través de videoconferencia mediante BBC con la asistencia del tribunal y posterior turno de preguntas

Entrega previa por parte del alumno de las transparencias de la defensa del TFM.