

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

<b>Code</b>	43312
<b>Name</b>	Master's final project
<b>Cycle</b>	Master's degree
<b>ECTS Credits</b>	18.0
<b>Academic year</b>	2022 - 2023

**Study (s)**

<b>Degree</b>	<b>Center</b>	<b>Acad. Period</b>
2150 - M.D. in Advanced Physics	Faculty of Physics	1 Second term

**Subject-matter**

<b>Degree</b>	<b>Subject-matter</b>	<b>Character</b>
2150 - M.D. in Advanced Physics		End Labour Studies

**Coordination**

<b>Name</b>	<b>Department</b>
	180 - Atomic, Molecular and Nuclear Physics

**SUMMARY**

This subject represents the first contact of the student with the research work and is addressed to measure the maturity of the student to abord a research problem in the field of physics. Master's Thesis work will be under the supervision of a director of Master's Thesis, and it will deal with one topic related to the research lines offered by the research groups involved in the Master in Advanced Physics and the Physics PhD program.

The subject of the Master Thesis will be in close connection with the specialty and the learning path followed by the student. The content of the Master Thesis must be a deep study of a topic of interest of the specialty. It could be either a research work on a specific topic (theoretical, experimental, educational, etc..), or a exploratory work on one or several hot issues in the scientific community, either theoretical or experimental.



## PREVIOUS KNOWLEDGE

### Relationship to other subjects of the same degree

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

### Other requirements

## OUTCOMES

### 2150 - M.D. in Advanced Physics

- Students can apply the knowledge acquired and their ability to solve problems in new or unfamiliar environments within broader (or multidisciplinary) contexts related to their field of study.
- Students are able to integrate knowledge and handle the complexity of formulating judgments based on information that, while being incomplete or limited, includes reflection on social and ethical responsibilities linked to the application of their knowledge and judgments.



## LEARNING OUTCOMES

At the end of the teaching-learning process the student should be able to:

1. Carry out a research project within a line of research in a specialty of the Master.
2. Use sources of information, scientific databases, abstracts, full articles, documentation, etc.. both traditional and electronic format, necessary to have a clear view of the history, originality, interest and viability of a particular study.
3. Develop a clear and concise report of work performed and the results obtained in the research.
4. Present and defend a clear and concise, to a specialized audience, development, results and conclusions of a research work.
5. Demonstrate by performing the tasks of a research work, the ability to apply gained research experience in the planning and implementation of future studies within the field of physics or related fields.

## DESCRIPTION OF CONTENTS

### 1. Master Thesis

This matter is thought to mean a first contact of the student with research and try to measure the maturity of the student to address a research problem in the area of Physics. Master Thesis work is under the supervision of the director of the Master's Thesis, and will be connected to one of the lines of research that are listed in section 6 and are offered by the research groups involved in the Advanced Master in Physics and Physics Doctorate Program.

The theme of the work will be in close connection with the specialty and the training route followed by the student. The object of it is to be in-depth study of a topic of interest of their specialty. It includes both the research on a specific topic with a theoretical, experimental, educational, etc. guidance, as the modality of exploratory work on one or more appealing topics in the scientific community, whether theoretical or experimental.

**WORKLOAD**

ACTIVITY	Hours	% To be attended
Theory classes	180,00	100
Development of a final project	270,00	0
<b>TOTAL</b>	<b>450,00</b>	

**TEACHING METHODOLOGY**

Master's Thesis. Students will do a research job in collaboration with a research group. They have to prepare a Master Thesis that will be presented and defended in a public session

The CCA of the Master in Advanced Physics recommends that the presentation of the Master's Thesis lasts about 20 minutes and that the debate does not exceed 20 minutes.

Students can write and defend teh Master's Thesis and its presentation in Spanish, Valencian or English.

**EVALUATION**

The evaluation of the course will be based on:

Oral presentation of the Master's Thesis.

Report of the Master's Thesis presented.