



## Course Guide 44427 Master's final project

### COURSE DATA

#### Data Subject

<b>Código</b>	44427
<b>Name</b>	Master's final project
<b>Cycle</b>	Master's degree
<b>ECTS Credits</b>	15.0

#### Study (s)

Degree	Center	Acad. year	Period
2208 - M.U. en Nanociencia y Nanotecnología Molecular	FACULTY OF CHEMISTRY	1	First term

#### Subject-matter

Degree	Subject-matter	Character
2208 - M.U. en Nanociencia y Nanotecnología Molecular	11 - Master's final project	End Labour Studies

#### Coordination

Name	Department
CORONADO MIRALLES, EUGENIO	320 - QUÍMICA INORGÁNICA

### SUMMARY

Development of a research work in this area.

### PREVIOUS KNOWLEDGE

#### Relationship to other subjects of the same degree

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

#### Other requirements

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

### OUTCOMES



### 2208 - M.U. en Nanociencia y Nanotecnología Molecular

- 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.
- That student can communicate their conclusions and the knowledge and rationale underpinning these conclusions, in a clear manner, to specialized and unspecialized audiences.
- Students have the learning skills that will allow them to continue studying in a way that will be largely self-directed or autonomous.
- Students have the knowledge and understanding that provide a basis or an opportunity for originality in developing and/or applying ideas, often within a research context.
- To have the ability to develop a research team work.
- To possess the necessary knowledge and abilities to continue with future studies in the PhD program in Nanoscience and Nanotechnology.
- For students from field of knowledge (e.g. chemistry) to be able to scientifically communicate and interact with colleagues from another field (e.g. physics) in the resolution of problems laid out by the Molecular Nanoscience and Nanotechnology.
- To know the methodological approaches used in Nanoscience.
- To know the molecular nanoscience "state of the art".
- To know the state of the art in molecular nanomaterials with optical, electric and magnetic properties.

### LEARNING OUTCOMES

At the end of the training-learning period, students should be able to:

- Use the scientific databases, abstracts, full articles, documentation, etc. necessary to have a full vision of previous works, originality, interest and viability of a specific study.
- Use the experimental and theoretical methods to carry out a research work in the molecular nanoscience field.
- Work in the area of application needed by a specific study, with the maximum security for the operator and the environment.
- Produce a clear and concise report about their results obtained during their research work.
- Present and defend, in front of a specialized audience, the development, results and conclusions of the research work done.
- Explain in a clear and concise way the research work conclusions that might be of interest for a non-specialized audience.
- Demonstrate, during the development of the research work and during its exposition and defense, the ability to apply the obtained research experience in the planning and execution of future studies in different scenarios within the nanoscience field.



## DESCRIPTION OF CONTENTS

### 1. Master dissertation.

Students will carry out an initiation to research work and will defend their master dissertation.

## WORKLOAD

ACTIVITY	Hours	% To be attended
Graduation project		100
Development of group work	9.00	0
Development of individual work	30.00	0
Development of a final project	300.00	0
<b>TOTAL</b>	<b>339.00</b>	

## TEACHING METHODOLOGY

- Articles discussion.
- Master dissertation: experimental work, report elaboration, exposition and defence.

## EVALUATION

Activities evaluation by the tutor during the Master dissertation experimental work.	10-20%
Master dissertation report.	30-50%
Master dissertation presentation, exposition and defence.	30-50%



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