



1. General information

Course: UNDERGRADUATE DISSERTATION

Type: PROJECT

Degree: 344 - CHEMICAL ENGINEERING

Center: 1 - FACULTY OF SCIENCE AND CHEMICAL TECHNOLOGY

Year: 4

Main language: Spanish

Use of additional
languages:

Web site:

Code: 57731

ECTS credits: 12

Academic year: 2023-24

Group(s): 21

Duration: SD

Second language: English

English Friendly: Y

Bilingual: N

Lecturer: MARIA LUZ SANCHEZ SILVA - Group(s): 21

Building/Office	Department	Phone number	Email	Office hours
Enrique Costa. Despacho 12	INGENIERÍA QUÍMICA	6307	marialuz.sanchez@uclm.es	Monday and Friday (12:00 to 15:00). Preferably notify in advance to make an appointment

2. Pre-Requisites

All the previous Modules must be passed before the Final Project can be presented

3. Justification in the curriculum, relation to other subjects and to the profession

The final Project allows student demonstrate the application of knowledge, capacity and attitude acquired during the Degree for the profession of Chemical Engineering, joining the theoretical knowledge with the professional expertise.

4. Degree competences achieved in this course

Course competences

Code	Description
CB01	Prove that they have acquired and understood knowledge in a subject area that derives from general secondary education and is appropriate to a level based on advanced course books, and includes updated and cutting-edge aspects of their field of knowledge.
CB02	Apply their knowledge to their job or vocation in a professional manner and show that they have the competences to construct and justify arguments and solve problems within their subject area.
CB03	Be able to gather and process relevant information (usually within their subject area) to give opinions, including reflections on relevant social, scientific or ethical issues.
CB04	Transmit information, ideas, problems and solutions for both specialist and non-specialist audiences.
CB05	Have developed the necessary learning abilities to carry on studying autonomously
E23	Original exercise to be carried out individually and to present and defend before a university court, consisting of a project in the field of specific technologies of Chemical Engineering of a professional nature in which they synthesize and integrate the competences acquired in the teachings.
G01	Ability to write, sign and develop projects in the field of chemical engineering that are intended, according to the knowledge acquired as established in section 5 of order CIN / 351/2009 of February 9, construction, reform, repair, conservation, demolition, manufacture, installation, assembly or operation of: structures, mechanical equipment, energy installations, electrical and electronic installations, industrial facilities and processes and manufacturing and automation processes.
G02	Capacity for the direction, of the activities object of the engineering projects described in the competence G1.
G03	Knowledge in basic and technological subjects, which enables them to learn new methods and theories, and give them versatility to adapt to new situations.
G04	Ability to solve problems with initiative, decision making, creativity, critical reasoning and to communicate and transmit knowledge, skills and abilities in the field of Chemical Engineering.
G05	Knowledge for the realization of measurements, calculations, valuations, appraisals, surveys, studies, reports, work plans and other analogous works.
G06	Ability to handle specifications, regulations and mandatory standards.
G07	Ability to analyze and assess the social and environmental impact of technical solutions.
G08	Ability to apply the principles and methods of quality.
G09	Capacity for organization and planning in the field of the company, and other institutions and organizations.
G10	Ability to work in a multilingual and multidisciplinary environment.
G11	Knowledge, understanding and ability to apply the necessary legislation in the exercise of the profession of Industrial Technical Engineer
G14	Proper oral and written communication
G15	ethical commitment and professional ethics
G16	Management capacity and information planning
G17	Capacity for critical thinking and decision making
G18	Synthesis capacity
G20	Ability to analyze and solve problems
G22	Ability to apply theoretical knowledge to practice
G23	Creativity and initiative

5. Objectives or Learning Outcomes

Course learning outcomes

Description

To have the ability to develop, present and defend before a committee a work related to the degree defined by the general objectives indicated in this report.

6. Units / Contents

No units added

7. Activities, Units/Modules and Methodology

Training Activity	Methodology	Related Competences (only degrees before RD 822/2021)	ECTS	Hours	As	Com	Description
Writing of reports or projects [OFF-SITE]	Guided or supervised work	E23 G01 G02 G03 G04 G05 G06 G07 G08 G09 G10 G11 G14 G15 G16 G17 G18 G20 G22 G23	11.1	277.5	Y	Y	
Final test [ON-SITE]	Assessment tests	E23 G01 G02 G03 G04 G05 G06 G07 G08 G09 G10 G11 G14 G15 G16 G17 G18 G20 G22 G23	0.1	2.5	Y	Y	
Individual tutoring sessions [ON-SITE]	Guided or supervised work	E23 G01 G02 G03 G04 G05 G06 G07 G08 G09 G10 G11 G14 G15 G16 G17 G18 G20 G22 G23	0.8	20	Y	N	
Total:			12	300			
Total credits of in-class work: 0.9			Total class time hours: 22.5				
Total credits of out of class work: 11.1			Total hours of out of class work: 277.5				

As: Assessable training activity

Com: Training activity of compulsory overcoming (It will be essential to overcome both continuous and non-continuous assessment).

8. Evaluation criteria and Grading System

Evaluation System	Continuous assessment	Non-continuous evaluation*	Description
Oral presentations assessment	40.00%	40.00%	
Portfolio assessment	60.00%	60.00%	
Total:	100.00%	100.00%	

According to art. 4 of the UCLM Student Evaluation Regulations, it must be provided to students who cannot regularly attend face-to-face training activities the passing of the subject, having the right (art. 12.2) to be globally graded, in 2 annual calls per subject, an ordinary and an extraordinary one (evaluating 100% of the competences).

Evaluation criteria for the final exam:

Continuous assessment:

The student will deliver a speech for no more than 10-15 minutes of his or her Final Project and it will be evaluated by a Tribunal chosen by the Chemical Engineering Department of the UCLM.

Previously, the student must have delivered three hard-copies of his or her Final Project to the Secretary of the Chemical Department. The characteristics and the deadline for the presentation will be shown at the beginning of the Course in "Campus Virtual".

The percentage of the mark is as following: 40 %, the content of the Final Project; 30 %, the Oral Defense and 30 %, the marks of the Supervisor. The minimum mark in each section must be 4/10 and to pass the subject, the average mark must be 5/10 or higher.

Non-continuous evaluation:

Evaluation criteria not defined

Specifications for the resit/retake exam:

The same as for the Final Exam

Specifications for the second resit / retake exam:

The same as for the Final Exam

9. Assignments, course calendar and important dates

Not related to the syllabus/contents

Hours	hours
-------	-------

10. Bibliography and Sources

Author(s)	Title/Link	Publishing house	Citv	ISBN	Year	Description
	Todos los libros de especialización del Grado, en función de la temática a desarrollar en el Trabajo fin de Grado					