COURSE DATA

DATA SUBJECT

Code: 34781
Name: Final degree project in Chemical Engineering
Cycle: Undergraduate Studies
ECTS Credits: 12
Academic year: 2026-27

STUDY (S)

Degree	Center	Acad. year	Period
1401 - Degree in Chemical Engineering	Escola Tècnica Superior d'Enginyeria	4	Indefinite (Individuals)
1934 - Double Degree Program in Chemistry-Chemical Engineering	Facultat de Química	5	Indefinite (Individuals)

SUBJECT-MATTER

Degree	Subject-matter	Character
1401 - Degree in Chemical Engineering	Degree Final project in Chemical engineering	FINAL DEGREE PROJECT
1934 - Double Degree Program in Chemistry-Chemical Engineering	Trabajo Final de Doble Grado Q-EQ	FINAL DEGREE PROJECT

COORDINATION

VERCHER MONTAÑANA ERNESTO

LORAS GIMENEZ SONIA

LLADOSA LOPEZ ESTELA

SUMMARY

The Final Project is an original exercise performed individually and present and defend in front of a university tribunal, consisting of a project in the field of chemical engineering, professional in nature which synthesize and integrate the skills acquired in the education program.

The Final Project is proposed as a factor enabling the students to increase their skills, with their personal work done under the guidance of a supervisor, comprehensively covering the skills acquired during their studies.

The type of project to be developed can be very variable, but always within the guidelines set by the objectives and tasks set for the Graduated degree. In any case, we can say that the ultimate aim is to apply

the skills acquired during the studies to the activity of chemical engineering.

The organisation and assessment of final degree projects (TFG) is regulated in accordance with the current regulations indicated in the Regulations for final degree projects, approved by the Governing Council of the Universitat de València and by the instructions developed by the Escola Tècnica Superior d'Enginyeria de la Universitat de València (ETSE-UV). See more details in the section Degree Studies -> Final Degree Project on the ETSE-UV website (https://www.uv.es/etse).

>

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 completion of the Final Project require to have passed 180 ECTS curriculum, among which necessarily include all matters scheduled in the first two years of the degree and the subject Projects (courses 'Management and organization of production' and 'Project management').

COMPETENCES / LEARNING OUTCOMES

1401 - Degree in Chemical Engineering

Ability to apply quality principles and methods.

Ability to handle specifications, regulations and standards of compliance.

Acquire knowledge of basic and technological subjects to facilitate the learning of new methods and theories, and develop the versatility to adapt to new situations.

Act autonomously in learning, make informed decisions in different contexts, issue judgements based on experimentation and analysis and transfer knowledge to new situations.

Analyse and evaluate the social and environmental impact of technical solutions.

Be able to understand and apply the legislation required for the practice of the profession of technical industrial engineer.

Capacity for the management of the activities that are the subject of the engineering projects described in the previous section.

Complete an original individual project and present and defend it before a university panel, consisting of a professional project in the field of chemical engineering that synthesises and integrates the skills acquired during the course.

Contribute to the design, development and implementation of solutions that respond to social demands, guided by the Sustainable Development Goals.

Demonstrate critical and self-critical thinking, considering professional ethics, moral values and social implications of the different activities carried out throughout the degree.

Draft, sign and develop projects within the field of industrial engineering, aimed at constructing, renovating, repairing, maintaining, demolishing, manufacturing, installing, assembling or operating structures, mechanical equipment, energy systems, electrical and electronic installations, industrial facilities and plants, and manufacturing and automation processes, in accordance with the knowledge acquired through the specific technology of industrial chemistry.

Knowledge for carrying out measurements, calculations, valuations, appraisals, expert opinions, studies, reports, work plans and other similar work.

Organizational and planning skills in the business field, and other institutions and organizations.

Propose creative and innovative solutions to complex situations or problems, typical of the area of ¿¿¿¿connection, to donate responses to the various professional and social needs

Saber comunicarse de manera efectiva, tanto de forma oral como escrita, adaptándose a las características de la situación y de la audiencia

Solve problems with initiative, make decisions, think creatively and critically, and communicate and convey knowledge, skills and competences in the field of industrial engineering.

Work in a multilingual and multidisciplinary environment.

DESCRIPTION OF CONTENTS

1. Graduation Project Degree in Chemical Engineering

The contents of the Final Project will be different depending on the specific objectives of the project selection. May be subject to issue of Final Project all those that are typical of Chemical Engineering. Specifically, to project, among others, all kinds of industries involving chemical, physico-chemical and bioengineering, as well as their auxiliary and complementary facilities for development, production and/or packaging of chemicals; facilities where unit operations or chemical processes are involved, facilities designed to prevent environmental pollution by effluents of all kinds caused by industries and/or its services, equipment, machinery, apparatus, instruments and control systems for the chemical process industries.

WORKLOAD

PRESENCIAL ACTIVITIES

Activity	Hours
Attendance at supplementary activities	0,00
Monitoring and tutoring of the bachelor's thesis	19,00
Presentation and defence of the bachelor's thesis	1,00
Total hours	**20,00**

NON PRESENCIAL ACTIVITIES

Activity	Hours
Independent preparation of the bachelor's thesis	170,00
Preparation of the bachelor's thesis project	110,00
Total hours	**280,00**

TEACHING METHODOLOGY

The student must develop a work under the supervision of a faculty member involved in this degree.

Both the advisor and the student can propose the work. In any case, the advisor will approve the objectives to be achieved in the project and will ensure that the student work is designed to assess the achievement of the skills set out in the objectives of the Chemical Engineering degree.

Student and advisor will be in regular contact. In any case, the advisor must maintain a minimum of two meetings with the student, one to set the objectives of the project and another during the preparation of the final document, to assess the level of fulfillment of the objectives. However, if they consider it appropriate, additional meetings may be conducted to analyze the evolution of the work.

The Bachelor Thesis can be carried out in an institution external to the UVEG. In any case, always under the approval and supervision of a faculty member of the UVEG.

The student will be involved in all the stages of the project. However within large teams is normal a tasks division in which some aspects of a project are carried out by other team members or even other groups.

In this case, the student must explain in the final report these matters indicating his direct or indirect participation in the different phases of the work.

EVALUATION

The organisation and assessment of final degree projects (TFG) is regulated in accordance with the current regulations indicated in the Regulations for final degree projects, approved by the Governing Council of the

Universitat de València and by the instructions developed by the Escola Tècnica Superior d'Enginyeria de la Universitat de València (ETSE-UV). See more details in the section Degree Studies -> Final Degree Project on the ETSE-UV website (https://www.uv.es/etse).

The Final Year Project should be defend in public session in a court composed of the tutor college student and two faculty members from areas of knowledge related to the degree appointed by the Commission of the FYP of the degree. The student will have 15 minutes to present to the court the work developed, and then the court members will discuss with the student aspects considered relevant for their work. After the defense, the court will constitute the qualifying committee and proceed to qualify the project following the schedule of the Commission of the FYP of the degree. Basically, this scale indicates that the court together, evaluated up to 80% of the student's grade divided into the following aspects:

- Scientific-technical quality (40%)

-Quality of documentation (20%)

-Presentation and defense (20%)

In addition, the tutor shall deliver a specific assessment of the work done by the student to complete 20% of the grade. This report, evaluated between 0 and 10 points and that will take into account the Scientific-technical quality of work performed, the results of engineering project learning (ENAEE), the quality of memory and the attitude of student.

Moreover, students in mobility programs may make the FYP in the target center. In that case, the project will have to be approved by the exchange coordinator of the degree, by delegation of the Commission of FYP, assigning a UV academic tutor. In case that the student undertake an FYP defense in the target center and can demonstrate the competence of public presentation, the FYP Commission will delegated score recognition the exchange coordinator of the degree. Otherwise, there will be a public defense in UV on the same basis as other students, recognizing the portion corresponding to work and the memory submitted in target center, weighing destination and the corresponding part of the public defense of the UV.

The three members sign a record which shall contain work numerical rating.

Copying or plagiarism of any activity that is part of the evaluation will result in the impossibility of passing the course, and the student will then be subject to the appropriate disciplinary procedures indicated in the *ACTION PROTOCOL FOR FRAUDULENT PRACTICES AT THE UNIVERSITY OF VALENCIA* (ACGUV 123/2020).

Anyhow, the evaluation system will be based on the guides stated in the "Reglament d'Avaluació i Qualificació de la Universitat de València per a Graus i Màsters" (ACGUV 108/2017).

REFERENCES

- Cunha, Irida da., and Ma. Teresa Cabré. El trabajo de fin de grado y de máster [Recurso

electrónico]: redacción, defensa y publicación / Iria da Cunha.Teresa Cabré. Editorial UOC, 2016. https://trobes.uv.es/permalink/34CVA_UV/um6gse/alma991009392357306258

- Sánchez Asín, Antonio. Trabajos de fin de grado y de postgrado: guía práctica para su elaboración / Antonio Sánchez Asín...[et. al.]. Aljibe, 2016.

- Baelo Álvarez, Manuel. El arte de presentar trabajos académicos ante un tribunal: TFG, TFM y tesis doctoral: guía práctica para estudiantes universitarios / Manuel Baelo Álvarez. 2a ed, Círculo Rojo, 2017.

- Aprèn a fer el TFG (treball fi de grau): fons i organització de la informació (APRÈNTFG) https: //www.uv.es/uvweb/servicio-bibliotecas-documentacion/es/ formacion/cursos-linea-apren-ci2-apren-tfg/formacion-linea-1285915536101.html