COURSE DATA

DATA SUBJECT

Code: 34820
Name: Degree final project in Electronic Engineering for Telecommunications
Cycle: Undergraduate Studies
ECTS Credits: 12
Academic year: 2026-27

STUDY (S)

Degree	Center	Acad. year	Period
1402 - Degree in Telecommunications Electronic Engineering	Escola Tècnica Superior d'Enginyeria	4	Indefinite (Individuals)

SUBJECT-MATTER

Degree	Subject-matter	Character
1402 - Degree in Telecommunications Electronic Engineering	Degree Final project in Telecommunications electronic engineering	FINAL DEGREE PROJECT

COORDINATION

SORET MEDEL JESUS

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 telecomunication electronics 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 telecomunication electronics engineering.

The organization and evaluation of the Final Project is regulated by the Reglamet de Treball Fi de Grau, approved by the Council of Government of the University of Valencia and mandatory instructions developed by the Escola Tècnica Superior d'Enginyeria of the University of Valencia ETSE-UV.

PREVIOUS KNOWLEDGE

RELATIONSHIP TO OTHER SUBJECTS OF THE SAME DEGREE

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

OTHER REQUIREMENTS

La realització del Treball Fi de Grau requerirà tenir superats 180 ECTS del pla d'estudis, entre els quals s'inclouran necessàriament totes les matèries programades en els dos primers cursos del Grau i la matèria "Projectes: assignatura Gestió de Projectes (cod. 34817)".

COMPETENCES / LEARNING OUTCOMES

1402 - Degree in Telecommunications Electronic Engineering

FG1 - Original exercise to carry out individually and present and defend before a university tribunal, consisting of a project of professional nature in the field of specific technologies of telecommunication engineering, which synthesizes and integrates the skills acquired in the education program.

G1 - Ability to write, develop and sign projects in the field of Telecommunication Engineering aimed - according to the knowledge acquired in section 5 of CIN/352/2009 regulation - at the conception and the development or the exploitation of networks, services and applications of telecommunications and electronics.

G2 - Knowledge, understanding and ability to apply the legislation required in the development of the profession of Telecommunications Technical Engineering and ability in the handling of specifications, regulations and norms of compulsory compliance.

G3 - Acquisition of the knowledge of the basic and technological subjects that allows students to learn new methods and theories and endows them with the versatility to adapt to new situations.

G4 - Ability to solve problems with initiative, decision-making and creativity, and to communicate and transmit knowledge, abilities and skills, understanding the ethical and professional responsibility of the activity of a telecommunications technical engineer.

G5 - Knowledge to carry out measurements, calculations, assessments, evaluations, loss adjustments, studies, reports, task planning, and other analogous work in the specific field of telecommunications.

G6 - Ability in the handling of specifications, regulations and norms of compulsory compliance.

G7 - Ability to analyze and assess the social and environmental impact of technical solutions.

G8 - Knowledge and application of basic elements of economics and human resource management, project organization and planning, and legislation, regulations and norms in telecommunications.

G9 - Ability to work in a multidisciplinary environment and in a multilingual group and to communicate, in writing and orally, knowledge, procedures, results and ideas related to telecommunications and electronics.

DESCRIPTION OF CONTENTS

El Trabajo Fin de Grado es un trabajo individual a presentar ante un tribunal, consistente en un Proyecto en el ámbito de la Ingeniería Electrónica de Telecomunicación, de naturaleza profesional, en el que se sinteticen e integren las competencias adquiridas en las enseñanzas.

El Trabajo Fin de Grado se plantea como una actividad que permita a los estudiantes incrementar sus habilidades con su trabajo personal, realizado bajo la dirección de un profesor, abarcando de forma global las competencias adquiridas a lo largo de los estudios.

El tipo de proyecto a desarrollar puede ser muy variable, aunque siempre dentro de las líneas marcadas por los objetivos y las competencias establecidas para el título de Grado. En cualquier caso, se puede decir que el objetivo final del proyecto es aplicar las competencias adquiridas durante la carrera a la actividad propia de la Ingeniería Electrónica de Telecomunicación.

WORKLOAD

PRESENCIAL ACTIVITIES

Activity	Hours
Attendance at supplementary activities	0,00
Monitoring and tutoring of the bachelor's thesis	18,00
Presentation and defence of the bachelor's thesis	2,00
Total hours	**20,00**

NON PRESENCIAL ACTIVITIES

Activity	Hours
Independent preparation of the bachelor's thesis	20,00
Preparation of the bachelor's thesis project	260,00
Total hours	**280,00**

TEACHING METHODOLOGY

Students must develop a project 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 Telecom Electronics Engineering degree (G1, G2, G3, G4, G5, G6, G7, G8, G9, FG1).

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 organization and evaluation of the Final Project (FP) is regulated by the Regulation approved by the Council of Government of the University of Valencia and mandatory instructions developed by the Escola Tècnica Superior d'Enginyeria of the University of Valencia ETSE-UV.

The Final 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 FP of the degree (G1, G2, G3, G4, G5, G6, G7, G8, G9, FG1).

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 FP 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, shall contain the following assessments:

- Scientific-technical quality of work performed
- Quality of memory
- Attitude of students

In order to be able to average, a minimum grade of 5.0 / 10 must be obtained in each of the parts.

Moreover, students in mobility programs may make the FP 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 FP, assigning a UV academic tutor. In case that the student undertake an FP defense in the target center and

can demonstrate the competence of public presentation, the FP 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. The evaluation shall follow the Regulations ratings the University of Valencia. At the time of writing this teaching guide, the current regulations are approved by the Governing Council of the UVEG of January 27, 2004, adjusted as provided for that purpose by the Royal Decrees 1044/2003 and 1125 / 2003. It basically states that numerical grades are 0-10 with one decimal and to which one must add the corresponding qualitative rating to the following scale:

- From 0 to 4.9: "Not passed"
- From 5 to 6.9: "Passed"
- From 7 to 8.9: "Outstanding "
- From 9-10: "Excellent " or "Excellent with Distinction"

In any case the evaluation will be submitted to the statements of "Reglament d'avaluació i qualificació de la Universitat de València per a títols de Grau i Màster".

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).

REFERENCES

- Project Management Institute, "A Guide to the Project Management Body of Knowledge", 4th Ed., Project Management Institute. 2008. ISBN 1933890517
- Gómez, J. F; Coronel, A.J; Martinez de Irujo, L; Lorente, A. "Gestión de proyectos". FC Editorial. Madrid, (2000). ISBN: 8428317747.
- Meredith, J.R; Mantel, S,J (Jr.) "Project Management: A Managerial Approach ". 7th Ed. John Wiley & Sons, Inc. 2008. ISBN 0470226218
- Desmond, C.L. ¿Project Management for Telecommunication Managers". Kluwer Academic Publishers. 2004. ISBN 1402077289
- Grashina M.N; Newell M.W, ¿Preguntas y Respuestas Sobre La Gestión de Proyectos¿, Editorial Gestión 2000, (2005). ISBN: 8480886864
- Domingo Ajenjo, A. ¿Dirección y Gestión de Proyectos, un enfoque práctico¿. Editorial Rama, (2005). ISBN: 9701511301.