

1. BASIC INFORMATION

Course	Graduation Project
Degree program	Degree in Aerospace Engineering of aircrafts
School	Arquitectura, Ingeniería y Diseño
Year	Fourth
ECTS	12
Credit type	Compulsory
Language(s)	English
Delivery mode	Face to face
Semester	Second
Academic year	2019-20
Coordinating professor	Daniel González Juárez

2. PRESENTATION

Graduation project consists on a final academic work that students have to develop along an equivalent time of 425 hours during second semester of the fourth year. Topic of the work will be related to aerospace engineering and will be chosen with the help of the tutoring professor. Graduation project has to include an abstract, an introduction, the methodologies used, calculation, analysis, design, conclusions, and future work.

3. COMPETENCIES AND LEARNING OUTCOMES

Core competencies:

- CB1: That students have demonstrated knowledge and understanding in a field of study that part of the basis of general secondary education, and is usually found at a level that, while supported by advanced textbooks, includes some aspects that will knowledge of the forefront of their field of study
- CB2: That students can apply their knowledge to their work or vocation in a professional manner and have competences typically demonstrated through devising and sustaining arguments and solving problems within their field of study.
- CB3: That students have the ability to gather and interpret relevant data (usually within their field of study) to make judgments that include reflection on relevant social, scientific or ethical

- CB4: To allow students to communicate information, ideas, problems and solutions both to a specialized and non-specialized audience
- CB5: That students have developed those learning skills necessary to undertake further studies with a high degree of autonomy.

Cross-curricular competencies:

- CT2: Planning, definition, direction and project management of design, stress analysis and production in the field of aeronautical engineering aimed, according to the knowledge acquired as provided in paragraph 5 of the Decree CIN/308/2009, vehicles aerospace.
- CT5 Capacity to conduct activities of projecting, technical management, expertise, writing reports, inspections, opinions, and technical suggestions on tasks related to the technical aeronautical engineering, in assignments of the responsibilities and technical positions genuinely aerospace.
- CT7: Ability to analyze and assess the social and environmental impact of the technical solutions.
- CT8: Knowledge, understanding, and ability to use regulation needed for technical aeronautics engineers in specific field of aircraft.
- CT9: Knowledge, and ability to use business management technics and labour law, taking into account principles of equality between men and women, solidarity, and peace culture.
- CT20: Take decisions, in advance, on what is need to be done, who should do it, and how it should be done.
- CT21: Self-acknowledgement for achieving high levels of performance in one's work, with a positive influence in substantially improving the results (Self Confidence).

Specific competencies:

- CE36: Ability to individually develop a project related to specific technologies of aerospace engineering, associated to specifig technology of aircraft, in such manner the work is carried out professionally, synthesising and integrating the adquired competences in previous modules.

Notes: UNIQUE LEVEL: Competence developed at one level. Level 1 (N1): awareness about the importance of competences and basic application of it to several situations. Level 2(N2): interiorization and skillful handling of competences. Level 3 (N3): Full interiorization and handling of competences at any needed situation.

Learning outcomes:

- LO36: To develop a typical project in aerospace engineering field, specifically in aircraft.

The table below shows the relation between the competencies developed during the course and the envisaged learning outcomes:

Competencies	Learning outcomes
CB1, CB2, CB3, CB4, CB5, CT2, CT5, CT7, CT8, CT9, CT20, CT21, CE3	LO36

4. CONTENT

Original exercise to be carried out individually and presented to a university court, consisting of a project in the field of specific technologies of this degree, of a professional nature in which they synthesize and integrate the skills acquired in the teachings.

5. TEACHING-LEARNING METHODOLOGIES

- Survey of objectives and interests
- Designs

6. LEARNING ACTIVITIES

The following table shows how the different types of activities are distributed and how many hours are assigned to each type:

Type of educational activity	Number of hours
Self-study	425 h
Mentoring, academic monitoring and assessment	25 h
TOTAL	450 h

7. ASSESSMENT

Listed below are the assessment systems used and the weight each one carries towards the final course grade:

Assessment criteria	Weight (%)
Graduation Project	100%

When you access the course on the *Campus Virtual*, you'll find a description of the assessment activities you have to complete, as well as the delivery deadline and assessment procedure for each one.

7.1. First exam period

Graduation project is surpassed with a mark of 5 over 10.

The grade will be considered as NP (Not Presented) when the student has not delivered any evaluable activity of which they are part of the weighted average.

7.2. Second exam period

Graduation project is surpassed with a mark of 5 over 10.

The grade will be considered as NP (Not Presented) when the student has not delivered any evaluable activity of which they are part of the weighted average.

8. BIBLIOGRAPHY

Specific bibliography according the topic of the project.

9. DIVERSITY MANAGEMENT UNIT

Students with specific learning support needs:

Curricular adaptations and adjustments for students with specific learning support needs, in order to guarantee equal opportunities, will be overseen by the Diversity Management Unit (UAD: Unidad de Atención a la Diversidad).

It is compulsory for this Unit to issue a curricular adaptation/adjustment report, and therefore students with specific learning support needs should contact the Unit at unidad.diversidad@universidadeuropea.es at the beginning of each semester.

PLAN INSTITUCIONAL DE EVALUACIÓN DE APRENDIZAJES POR COVID-19

FICHA DE ADAPTACIÓN DE LAS ACTIVIDADES FORMATIVAS Y DE EVALUACIÓN

Asignatura/Módulo: Trabajo Fin de Grado
Titulación/Programa: Grado en Ingeniería Aeroespacial en Aeronave
Curso (1º-6º): 4º
Grupo (s): --
Profesor/a: Daniel González Juárez
Docente coordinador: Daniel González Juárez

Actividad formativa descrita en la Guía de aprendizaje	Actividad formativa adaptada a formato a distancia
Desarrollar un proyecto en el campo de la ingeniería aeroespacial, específicamente en aeronaves	Desarrollar un proyecto en el campo de la ingeniería aeroespacial, específicamente en aeronaves

Actividad de evaluación presencial planificada según Guía		NUEVA actividad de evaluación que se propone (a distancia)	
Descripción de la actividad de evaluación presencial original	Defensa pública del TFG	Descripción de la nueva actividad de evaluación	Defensa pública del TFG usando la plataforma online de la Universidad Europea
Contenido desarrollado (temas)	Específico de cada TFG		
Resultados de aprendizaje desarrollados (consultar Guía de aprendizaje de la asignatura/módulo)	Desarrollar un proyecto en el campo de la ingeniería aeroespacial, específicamente en aeronaves		
Duración aproximada	20min	Duración aproximada y fecha	20 min (semana del 22/06)
Peso en la evaluación	100%	Peso en la evaluación	100%
Observaciones	Las defensas públicas de los TFGs se realizarán de forma online a través de la plataforma de la Universidad Europea		