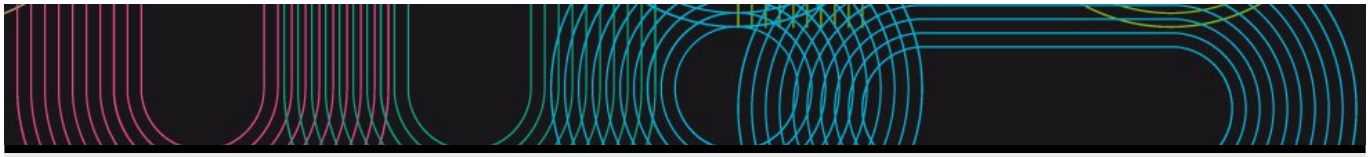

IDENTIFYING DATA				
Final Year Dissertation				
Subject	Final Year Dissertation			
Code	O07G410V01991			
Study programme	Grado en Ingeniería Aeroespacial			
Descriptors	ECTS Credits	Choose	Year	Quadmester
	12	Mandatory	4th	2nd
Teaching language	#EnglishFriendly Spanish Galician			
Department				
Coordinator	Ulloa Sande, Carlos			
Lecturers	Ulloa Sande, Carlos			
E-mail	carlos.ulloa@uvigo.es			
Web	http://aero.uvigo.es			
General description	The Final Degree Project (TFG) is an original and personal work that each student will carry out independently under the tutorship of the academic staff and will allow them to demonstrate, in an integrated manner, the acquisition of the knowledge and the competences associated with the degree. English Friendly subject: International students may request from the teachers: a) materials and bibliographic references in English, b) tutoring sessions in English, c) exams and assessments in English.			

Competencies	
Code	
A2	That the students know how to apply their knowledge to their work or vocation in a professional way and that they possess the competences that are usually demonstrated through the elaboration and defense of arguments and the resolution of problems within their area of study
A3	That the students have the capability to gather and interpret relevant data (usually within their area of study) to issue judgments that include a reflection on relevant social, scientific or ethical issues
A4	That the students can transmit information, ideas, problems and solutions to a specialized and non-specialized audience
A5	That the students develop those learning capabilities necessary to undertake further studies with a high degree of autonomy.
D2	Leadership, initiative and entrepreneurship
D3	Capability of oral and written communication in native lenguage
D4	Capability of autonomous learning and information management
D5	Capability to solve problems and draw decisions
D6	Capabiliity for interpersonal communication
D7	Capability to adapt to new situations with creativity and innovation
D8	Capabiliity for critical and self-critical reasoning
D9	Capability to work in interdisciplinary teams
D10	Capability to negotiate and deal with and act in situations of conflict
D11	Show motivation for quality with sensitivity towards subjects within the scope of the studies
D12	Ethical and democratic commitment
D13	Sustainability and environmental commitment. Equitable, responsible and efficient use of resources

Learning outcomes	
Expected results from this subject	Training and Learning Results
(*)O estudante obterá un coñecemento de os procesos de creación e produción artística.	

Realization of a personal and original work, both in the title and in the contents, carried out autonomously under teacher tutoring, which must allow the acquisition of the training contents and the competences associated with the title to be shown in an integrated manner.	A2 A3 A4 A5	D2 D3 D4 D5 D6 D7 D8 D9 D10 D11 D12 D13

Contents

Topic	
Classical projects of aerospace engineering	For example, the design and even the manufacture of a prototype, the engineering of a production facility or the implementation of a system in any aerospace field.
Technical studies, organisational and economic.	Reports related to equipment, materials, systems, services, etc., in the fields of aerospace engineering, dealing with one or more aspects related to design, planning, production, management, exploitation and any other engineering field. They must compare technical alternatives to economic evaluations and allow the discussion and evaluation of the results when necessary.
Theoretical works-experimental	Theoretical-experimental nature works, which contribute to the technique in different fields of engineering, including, when appropriate, the evaluation and economic discussion and evaluation of the results.

Planning

	Class hours	Hours outside the classroom	Total hours
Previous studies	0	90	90
Project based learning	0	120	120
Mentored work	20	0	20
Project	0	50	50
Presentation	1	19	20

*The information in the planning table is for guidance only and does not take into account the heterogeneity of the students.

Methodologies

	Description
Previous studies	Autonomous work aimed at the acquisition of theoretical knowledge.
Project based learning	Oriented to practical application.
Mentored work	Dedication of the student at the facilities of the School of Aeronautical Engineering and Space: - Student assistance to the school laboratories for the development of the project. - Tutorials with the tutor and / or co-tutor. Meetings with the student dedicated to the application of methods and techniques, review of documents, presentation rehearsal, etc.

Personalized assistance

Methodologies	Description
Mentored work	Tutorials with tutor and/or co-tutor

Assessment

Description	Qualification	Training and Learning Results

Project	Tutor evaluation of the project: 25% Academic tribunal evaluation: 50% - Evaluation of the scope of the project. The scientific-technical difficulty of the work will be evaluated (25%) - Evaluation of the documentation. The quality of the TFG memory will be evaluated (25%)	75	A2 A3 A4 A5	D2 D3 D4 D5 D6 D7 D8 D9 D10 D11 D12 D13
Presentation	Academic tribunal evaluation: 25% - Evaluation of the presentation. Aspects such as clarity in the presentation, use of time, quality of the material used and answering the questions of the tribunal members are evaluated.	25	A2 A3 A4 A5	D2 D3 D4 D5 D6 D7 D8 D9 D10 D11 D12 D13

Other comments on the Evaluation

The TFG is an original exercise that is carried out individually, is presented in front an academic tribunal. It must be a project in the field of specific technologies of Aerospace engineering, with a professional nature, in which students synthesize and integrate the competences acquired during their studies. The performance and evaluation of the TFG is regulated by active regulations of University of Vigo and EEAE.

Sources of information

Basic Bibliography

Complementary Bibliography

Recommendations

Other comments

Ethical commitment: student must present a suitable ethical behaviour. If a no ethical behaviour (cheating, plagiarism, or others) is detected, a fail (0,0) will be the global mark for the student.

Requirements: Enrollment in TFG course must be done only if the students enroll in all the remaining subjects necessary to get their degree..

Important information: The TFG only can be presented and evaluated if there are objective evidence that the students passed all the other necessary subjects to obtain their degree, according to the Univsersity of Vigo TFG Regulation, approved on 5th of June of 2016 and modified on 13 of November of 2018.

Plagiarism will be prosecuted using plagiarism software tool.

Contingency plan

Description

=== EXCEPTIONAL PLANNING ===
Given the uncertain and unpredictable evolution of the health alert caused by COVID-19, the University of Vigo establishes an extraordinary planning that will be activated when the administrations and the institution itself determine it, considering safety, health and responsibility criteria both in distance and blended learning. These already planned measures guarantee, at the required time, the development of teaching in a more agile and effective way, as it is known in advance (or well in advance) by the students and teachers through the standardized tool.

=== ADAPTATION OF THE METHODOLOGIES ===

* Teaching methodologies maintained
The teaching methodologies are maintained except in the experimental content works that will modify their focus and their contents to adapt to the impossibility of attending the center.
* Teaching methodologies modified
Tutored work:
- Attendance to laboratories: it will be supplemented by tutorials with the tutor and / or co-tutor.
- Tutorials with tutor and / or co-tutor: alternatively, they will be held through the Remote Campus platform of the University of Vigo.
* Non-attendance mechanisms for student attention (tutoring)
The tutoring sessions will be held, alternatively, by telematic means (email or videoconference) under the modality of prior agreement.
* Modifications (if applicable) of the contents
The works of experimental content will modify their approach and their contents to adapt to the impossibility of attending the center.

=== ADAPTATION OF THE TESTS ===
* Tests that are modified
In case of no attendance, the defenses of the works will be carried out on the Remote Campus platform.