



## 1. General information

Course: AEROSPACE ENGINEERING PROJECTS

Type: CORE COURSE

Degree: 403 - UNDERGRADUATE DEGREE PROGRAMME IN AEROSPACE ENGINEERING

Center: 303 - E.DE INGENIERÍA INDUSTRIAL Y AEROESPACIAL DE TOLEDO

Year: 4

Main language: Spanish

Use of additional languages:

Web site:

Code: 56735

ECTS credits: 6

Academic year: 2023-24

Group(s): 40

Duration: C2

Second language:

English Friendly: N

Bilingual: N

Lecturer: ALBERTO GÓMEZ-SERRANILLOS RESINO - Group(s): 40

Building/Office	Department	Phone number	Email	Office hours
	MECÁNICA ADA. E ING. PROYECTOS		Alberto.GResino@uclm.es	

Lecturer: LUIS SANCHEZ RODRIGUEZ - Group(s): 40

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## 2. Pre-Requisites

Not established

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

Not established

## 4. Degree competences achieved in this course

## Course competences

Code	Description
CA01	Ability to carry out bibliographic searches, use databases and other sources of information for its application in tasks related to Technical Aeronautical Engineering.
CA02	Ability to efficiently design experimentation procedures, interpret the data obtained and specify valid conclusions in the field of Aeronautical Technical Engineering.
CA03	Ability to autonomously select and carry out the appropriate experimental procedure, operating the equipment correctly, in the analysis of phenomena within the scope of Engineering.
CA04	Ability to select advanced tools and techniques and their application in the field of Aeronautical Technical Engineering.
CA05	Knowledge of the methods, techniques and tools as well as their limitations in the application for the resolution of problems typical of Aeronautical Technical Engineering.
CA06	Ability to identify and assess the effects of any solution in the field of Aeronautical Technical Engineering within a broad and global context and the ability to interrelate the solution to an engineering problem with other variables beyond the technological field, which must be considered.
CA07	Knowledge, understanding and ability to apply business and project management practices, as well as their limitations in the exercise of the profession of Technical Aeronautical Engineer.
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
CE12	Knowledge of manufacturing processes.
CE19	Applied knowledge of: materials science and technology; mechanics and thermodynamics; fluid mechanics; aerodynamics and mechanics of flight; air traffic and navigation systems; aerospace technology; structure theory; air Transport; economy and production; Projects; environmental impact.
CG02	Planning, drafting, direction and management of projects, calculation and manufacturing in the field of aeronautical engineering that have as their object, in accordance with the knowledge acquired as established in section 5 of order CIN/308/2009, aerospace vehicles, aerospace propulsion systems, aerospace materials, airport infrastructures, air navigation infrastructures and any space, traffic and air transport management system.
CG05	Ability to carry out activities of projection, technical direction, expert opinion, report writing, opinions, and technical advice on tasks related to Aeronautical Technical Engineering, exercise of functions and genuine aerospace technical positions.
CG07	Ability to analyze and assess the social and environmental impact of technical solutions.
CG08	Knowledge, understanding and ability to apply the necessary legislation in the exercise of the profession of Aeronautical Technical Engineer.
CT03	Correct use of oral and written communication.
CT04	Knowledge of ethical commitment and professional ethics.

## 5. Objectives or Learning Outcomes

### Course learning outcomes

Description

## 6. Units / Contents

Unit 1:

Unit 2:

Unit 3:

Unit 4:

Unit 5:

Unit 6:

Unit 7:

Unit 8:

Unit 9:

Unit 10:

Unit 11:

Unit 12:

Unit 13:

## 7. Activities, Units/Modules and Methodology

Training Activity	Methodology	Related Competences (only degrees before RD 822/2021)	ECTS	Hours	As	Com	Description
Class Attendance (theory) [ON-SITE]	Lectures	CA01 CA02 CA03 CA04 CA05 CA06 CA07 CB02 CB03 CB04 CB05 CE12 CE19 CG02 CG05 CG07 CG08 CT03 CT04	1.08	27	N	-	
Problem solving and/or case studies [ON-SITE]	Problem solving and exercises	CA01 CA02 CA03 CA04 CA05 CA06 CA07 CB02 CB03 CB04 CB05 CE12 CE19 CG02 CG05 CG07 CG08 CT03 CT04	1	25	N	-	
Group tutoring sessions [ON-SITE]	Guided or supervised work	CA01 CA02 CA03 CA04 CA05 CA06 CA07 CB02 CB03 CB04 CB05 CE12 CE19 CG02 CG05 CG07 CG08 CT03 CT04	0.2	5	N	-	
Writing of reports or projects [OFF-SITE]	Cooperative / Collaborative Learning	CA01 CA02 CA03 CA04 CA05 CA06 CA07 CB02 CB03 CB04 CB05 CE12 CE19 CG02 CG05 CG07 CG08 CT03 CT04	1.4	35	Y	Y	
Study and Exam Preparation [OFF-SITE]	Self-study	CA01 CA02 CA03 CA04 CA05 CA06 CA07 CB02 CB03 CB04 CB05 CE12 CE19 CG02 CG05 CG07 CG08 CT03 CT04	2.2	55	N	-	
Final test [ON-SITE]	Assessment tests	CA01 CA02 CA03 CA04 CA05 CA06 CA07 CB02 CB03 CB04 CB05 CE12 CE19 CG02 CG05 CG07 CG08 CT03 CT04	0.12	3	Y	Y	
<b>Total:</b>			<b>6</b>	<b>150</b>			
<b>Total credits of in-class work: 2.4</b>			<b>Total class time hours: 60</b>				
<b>Total credits of out of class work: 3.6</b>			<b>Total hours of out of class work: 90</b>				

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
Theoretical papers assessment	30.00%	30.00%	
Final test	70.00%	70.00%	
<b>Total:</b>	<b>100.00%</b>	<b>100.00%</b>	

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).

**9. Assignments, course calendar and important dates**

Not related to the syllabus/contents	
<b>Hours</b>	<b>hours</b>
Class Attendance (theory) [PRESENCIAL][Lectures]	27
Problem solving and/or case studies [PRESENCIAL][Problem solving and exercises]	25
Group tutoring sessions [PRESENCIAL][Guided or supervised work]	5
Writing of reports or projects [AUTÓNOMA][Cooperative / Collaborative Learning]	35
Study and Exam Preparation [AUTÓNOMA][Self-study]	55
Final test [PRESENCIAL][Assessment tests]	3
<b>Global activity</b>	
<b>Activities</b>	<b>hours</b>
Final test [PRESENCIAL][Assessment tests]	3
Problem solving and/or case studies [PRESENCIAL][Problem solving and exercises]	25
Study and Exam Preparation [AUTÓNOMA][Self-study]	55
Writing of reports or projects [AUTÓNOMA][Cooperative / Collaborative Learning]	35
Class Attendance (theory) [PRESENCIAL][Lectures]	27
Group tutoring sessions [PRESENCIAL][Guided or supervised work]	5
<b>Total horas: 150</b>	

**10. Bibliography and Sources**

Author(s)	Title/Link	Publishing house	Citv	ISBN	Year	Description
Fernando Santos Sabrás	Ingeniería de proyectos	EUNSA		978-84-313-1723-2	2002	Segunda edición