

UNIVERSIDAD DE CASTILLA - LA MANCHA

GUÍA DOCENTE

1. General information

Course: AERONAUTICAL PRODUCTION ENGINEE			ING	NG Code: 56734			
Type: CORE COURSE			ECTS credits: 6				
Degree: 403 - UNDERGRADUATE DEGREE PRO ENGINEERING			AMME	IN AEROSPACE Aca	demic year: 2023-24		
Center: 303 - E.DE INGENIERÍA INDUSTRIAL Y A			OESPO	DACIAL DE TOLEDO	Group(s): 40		
Year: 4				Duration: First semester			
Main language: Spanish			Second language:				
Use of additional languages:			English Friendly: N				
Web site:				Bilingual: N			
Lecturer: MARIA REYES GARCIA CONTRERAS - Group(s): 40							
Building/Office	Department	Phone nu	mber E	Email	Office hours		
Sabatini/1.57		92605262	24 r	mariareyes.garcia@uclm.es			
Lecturer: PEDRO REY MARTÍNEZ - Group(s): 40							
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	MECÁNICA ADA. E ING. PROYECTOS			Pedro.Rey@uclm.es			
Lecturer: MARIA REYES GARCIA CONTRERAS - Group(s): 4 Building/Office Department Phon Sabatini/1.57 MECÁNICA ADA. E ING. PROYECTOS 9260 Lecturer: PEDRO REY MARTÍNEZ - Group(s): 40		Phone nui 92605262 Pho nun	24 r	mariareyes.garcia@uclm.es	Office hours		

2. Pre-Requisites

Not established

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

Not established

4. Degree competend	ces 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.
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
CE06	Knowledge of the concept of company, institutional and legal framework of the company. Business organization and management.
CE11	Knowledge of the technological benefits, the optimization techniques of the materials and the modification of their properties by means of treatments.
CE12	Knowledge of manufacturing processes.
CE23	Knowledge applied to Engineering of: Technological performance, optimization techniques for materials used in the aerospace sector and treatment processes to modify their mechanical properties.
CE25	Knowledge applied to Engineering of: The methods of calculation and development of defense materials and systems; the management of experimental techniques, equipment and measuring instruments typical of the discipline; the numerical simulation of the most significant physical-mathematical processes; inspection, quality control and fault detection techniques; the most appropriate repair methods and techniques.
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.
CG03	Installation, operation and maintenance 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, materials aerospace, airport infrastructure, air navigation infrastructure and any space, traffic and air transport management system.
CG04	Verification and Certification 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,

CG05	airport infrastructures, air navigation infrastructures and any space, traffic and air transport management system. 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.
CT02	Knowledge and application of Information and Communication Technologies (ICT).
CT03	Correct use of oral and written communication.
CT04 CT05	Knowledge of ethical commitment and professional ethics. Knowledge of the principles of management skills and teamwork.

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:	

7. Activities, Units/Modules and Methodology Related Competences Hours As Com Description Training Activity Methodology (only degrees before RD ECTS 822/2021) CA01 CA02 CA03 CA04 CA05 CA06 CA07 CB02 Class Attendance (theory) [ON-CB04 CB05 CE06 CE11 Lectures 1.08 27 Ν SITE] CE12 CE23 CE25 CG02 CG03 CG04 CG05 CT02 CT03 CT04 CT05 CA01 CA02 CA03 CA04 CA05 CA06 CA07 CB02 Problem solving and/or case CB04 CB05 CE06 CE11 Problem solving and exercises 15 0.6 N studies [ON-SITE] CE12 CE23 CE25 CG02 CG03 CG04 CG05 CT02 CT03 CT04 CT05 CA01 CA02 CA03 CA04 CA05 CA06 CA07 CB02 CB04 CB05 CE06 CE11 Group tutoring sessions [ON-SITE] Guided or supervised work 15 0.6 Ν CE12 CE23 CE25 CG02 CG03 CG04 CG05 CT02 CT03 CT04 CT05 CA01 CA02 CA03 CA04 CA05 CA06 CA07 CB02 Writing of reports or projects [OFF-Cooperative / Collaborative CB04 CB05 CE06 CE11 0.8 20 Υ v SITE] CE12 CE23 CE25 CG02 Learning CG03 CG04 CG05 CT02 CT03 CT04 CT05 CA01 CA02 CA03 CA04 CA05 CA06 CA07 CB02 CB04 CB05 CE06 CE11 Other off-site activity [OFF-SITE] Problem solving and exercises 1.2 30 Ν CE12 CE23 CE25 CG02 CG03 CG04 CG05 CT02 CT03 CT04 CT05 CA01 CA02 CA03 CA04 CA05 CA06 CA07 CB02 Study and Exam Preparation [OFF-CB04 CB05 CE06 CE11 Self-study 40 1.6 Ν SITE] CE12 CE23 CE25 CG02 CG03 CG04 CG05 CT02 CT03 CT04 CT05 CA01 CA02 CA03 CA04 CA05 CA06 CA07 CB02 CB04 CB05 CE06 CE11 Final test [ON-SITE] Assessment tests 0.12 3 Y CE12 CE23 CE25 CG02 CG03 CG04 CG05 CT02 CT03 CT04 CT05 Total: 6 150 Total credits of in-class work: 2.4 Total class time hours: 60 Total credits of out of class work: 3.6 Total hours of out of class work: 90

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	15.00%	15.00%		
Final test	85.00%	85.00%		
Total:	100.00%	100.00%		

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	
Hours	hours
Class Attendance (theory) [PRESENCIAL][Lectures]	27
Problem solving and/or case studies [PRESENCIAL][Problem solving and exercises]	30
Group tutoring sessions [PRESENCIAL][Guided or supervised work]	15
Writing of reports or projects [AUTÓNOMA][Cooperative / Collaborative Learning]	15
Other off-site activity [AUTÓNOMA][Problem solving and exercises]	20
Study and Exam Preparation [AUTÓNOMA][Self-study]	40
Final test [PRESENCIAL][Assessment tests]	3
Global activity	
Activities	hours
Group tutoring sessions [PRESENCIAL][Guided or supervised work]	15
Study and Exam Preparation [AUTÓNOMA][Self-study]	40
Class Attendance (theory) [PRESENCIAL][Lectures]	27
Final test [PRESENCIAL][Assessment tests]	3
Other off-site activity [AUTÓNOMA][Problem solving and exercises]	20
Writing of reports or projects [AUTÓNOMA][Cooperative / Collaborative Learning]	15
Problem solving and/or case studies [PRESENCIAL][Problem solving and exercises]	30
	Total horas: 150

10. Bibliography and Sources						
Author(s)	Title/Link	Publishing house	Citv	ISBN	Year	Description
	Production Engineering and Development	Research				Electronic ISSN 1863- 7353, Print ISSN 0944- 6524
	https://www.springer.com	n/journal/11740				
	Journal of Industrial and					
	Production Engineering					
	https://www.tandfonline.c	:om/toc/tjci21/current				