Universida_{de}Vigo

Subject Guide 2022 / 2023

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IDENTIFYIN	IG DATA				
	ort and airborne systems				
Subject	Air transport and				
	airborne systems				
Code	O07G410V01404				
Study	Grado en				
programme	Ingeniería				
D	Aeroespacial	Chasses		0	
Descriptors	ECTS Credits	Choose	Year	Quadn	nester
Teeelsine	6 #En aliah Erian dhu	Mandatory	2nd	2nd	
Teaching	#EnglishFriendly				
language Department	Spanish				
Coordinator	Ulloa Sande, Carlos				
Lecturers					
E-mail					
Web	http://aero.uvigo.es				
General	The subject is divided in two main areas. F	irst civil aerial transport fund	amentals are	introduced as	well as the
description	regulatory laws, the elements that constit				
acsemption	English Friendly subject: International stud				
	references in English, b) tutoring sessions				nographie
				-	
Skills Code					
B1 Capabi	liity for design, development and managem shed in section 5 of order CIN / 308/2009), a				
	als , airport infrastructures, air navigation in	frastructures and space mana	gement, air tr	affic and trans	sport
	ement systems.				
	lity to analyze and assess the social and env				
	tand the air transport system and the coord				
	I knowledge of: science and technology of m				
	namics and flight mechanics; navigation and			theory of stru	ctures;
	e transportation; economy and production;			an anation of	
vehicle	riate knowledge applied to engineering: fou	ndations of sustainability, mai	ntenance and	operation of a	aerospace
	s. lity of analysis, organization and planificatio				•
		2			•
i	<u> </u>	n.			
D2 Leader	ship, initiative and entrepreneurship				
D2 Leader D3 Capabi	ship, initiative and entrepreneurship lity of oral and written communication in na	tive lenguage			
D2 Leader D3 Capabi D4 Capabi	ship, initiative and entrepreneurship lity of oral and written communication in nai lity of autonomous learning and information	tive lenguage			
D2 Leader D3 Capabi D4 Capabi D5 Capabi	ship, initiative and entrepreneurship lity of oral and written communication in na lity of autonomous learning and information lity to solve problems and draw decisions	tive lenguage			
D2 Leader D3 Capabi D4 Capabi D5 Capabi D6 Capabi	ship, initiative and entrepreneurship lity of oral and written communication in na lity of autonomous learning and information lity to solve problems and draw decisions liity for interpersonal communication	tive lenguage			
D2 Leader D3 Capabi D4 Capabi D5 Capabi D6 Capabi D8 Capabi	ship, initiative and entrepreneurship lity of oral and written communication in na lity of autonomous learning and information lity to solve problems and draw decisions liity for interpersonal communication liity for critical and self-critical reasoning	tive lenguage management			
D2 Leader D3 Capabi D4 Capabi D5 Capabi D6 Capabi D8 Capabi	ship, initiative and entrepreneurship lity of oral and written communication in na lity of autonomous learning and information lity to solve problems and draw decisions liity for interpersonal communication	tive lenguage management	nt use of reso	urces	· · · · · · · · · · · · · · · · · · ·
D2 Leader D3 Capabi D4 Capabi D5 Capabi D6 Capabi D8 Capabi D13 Sustair	ship, initiative and entrepreneurship lity of oral and written communication in na lity of autonomous learning and information lity to solve problems and draw decisions liity for interpersonal communication liity for critical and self-critical reasoning lability and environmental commitment. Equ	tive lenguage management	nt use of reso	urces	
D2 Leader D3 Capabi D4 Capabi D5 Capabi D6 Capabi D8 Capabi D13 Sustair	ship, initiative and entrepreneurship lity of oral and written communication in na- lity of autonomous learning and information lity to solve problems and draw decisions liity for interpersonal communication liity for critical and self-critical reasoning lability and environmental commitment. Equ	tive lenguage management	nt use of reso		
D2 Leader D3 Capabi D4 Capabi D5 Capabi D6 Capabi D8 Capabi D13 Sustair Learning o	ship, initiative and entrepreneurship lity of oral and written communication in na lity of autonomous learning and information lity to solve problems and draw decisions liity for interpersonal communication liity for critical and self-critical reasoning lability and environmental commitment. Equ	tive lenguage management	nt use of reso	Training and	d Learning
D2 Leader D3 Capabi D4 Capabi D5 Capabi D6 Capabi D8 Capabi D13 Sustair Learning o Expected re	ship, initiative and entrepreneurship lity of oral and written communication in na lity of autonomous learning and information lity to solve problems and draw decisions liity for interpersonal communication liity for critical and self-critical reasoning hability and environmental commitment. Equ utcomes sults from this subject	tive lenguage management uitable, responsible and efficie		Training and Resu	J Learning Its
D2 Leader D3 Capabi D4 Capabi D5 Capabi D6 Capabi D8 Capabi D13 Sustair Learning o Expected re	ship, initiative and entrepreneurship lity of oral and written communication in na- lity of autonomous learning and information lity to solve problems and draw decisions liity for interpersonal communication liity for critical and self-critical reasoning lability and environmental commitment. Equ	tive lenguage management uitable, responsible and efficie		Training and	d Learning

Understanding of the legal characteristics of the aerial transport and knowledge of this transport B1 C14 D1 mode law B7 C21 D2 D3 D4 D8

D13

Knowledge of the different elements that integrate the system of transports: aerial companies, manufacturing, airports, aerial navigation suppliers	B1 B7	C14 C19	D1 D2 D4 D6 D8 D13
Comprise the most important aspects of the situation of the aerial transport in the actuality, so much in Spain how in the rest of the world	B1 B7	C14 C19 C21	D1 D2 D3 D4 D6 D8 D13
Knowledge of the different systems and subsystrems onboarded in aerospace vehicles	B1 B7	C14 C19 C21	D1 D3 D4 D8 D13
Knowledge of the way in which the aerial way inserts in the system of transport and the distinct forms of cooperation and intermodal competition	B1	C14	

Topic	
Aerial transport	Structure and elements that constitue current world-wide transport system. Insertion of the aerial mode in the transport system and the different way of cooperation and intermodal competition. Economic and social benefits of the aerial transport. Legal frame of the aerial transport and international law system. Elements that constitute the system of transportation: aerial companies, manufacturing, airports, aerial navigation suppliers. Situation of the aerial transport nowadays, in Spain and in the rest of the world.
Onboard systems	Introduction to flight systems Engine and fuel Systems Hydraulic System Eectrical System Pneumatic System Air conditioning Systems Navigation Systems Positioning Systems

	Class hours	Hours outside the classroom	Total hours	
Lecturing	35	68.5	103.5	
Laboratory practical	12	14.5	26.5	
Report of practices, practicum and exter	nal practices 2.5	14.5	17	
Objective questions exam	3	0	3	
*The information in the planning table is for guidance only and does not take into account the heterogeneity of the students.				

Methodologies	
	Description
Lecturing	The teacherwill expose the theoretical bases of the subject. The students will have basic reference texts
Laboratory practical	IT and laboratory solutions will be used to solve problems and exercises and apply the knowledge achieved.

Personalized assistance		
Methodologies	Description	
Lecturing	The teacher will attend personally the doubts and queries of the students, in person, or by telematic support.	
Laboratory practical	The teacher will attend personally the doubts and queries of the students, in person, or by telematic support.	

Description		Qualification		ig and Learning Results	
Report of practices, practicu and external practices	mReport covering all requirements given	20	B1 B7	C14 C19 C21	D1 D2 D3 D4 D5 D6 D8 D13
Objective questions exam	Test o short-questions valuation exam. The mark need to be greater than 4 out of 10 to be eligible for compensation	80	B1 B7	C14 C19 C21	D3 D8

Other comments on the Evaluation

First oportunity:

- For the evaluation of the exam to be carried out, the student must have attended all the practices and made all the required deliveries of laboratory practices on the dates indicated; In addition, it will be necessary that the average grade of the deliveries exceeds 4 out of 10.

- The minimum mark to be reached in the final continuous assessment exam will be 4 out of 10 to be able to weigh the exam and practices.

- To pass the subject, you must pass a weighted grade (exam, work, practice) of 5 out of 10. The exam may consist of test questions and / or short questions and / or questions developmental.

Second oportunity:

- Students who have not passed the subject in the first oportunity will take an extraordinary exam that will have the same format and the same requirements as the first oportunity

- In order to pass the subject, the weighted minimum mark between exam and practice reports will be 5 out of 10, and it is also necessary that this test exceed 4 out of 10.

As a student at the University of Vigo, the University Student Statute, approved by Royal Decree 1791/2010 of December 30, establishes in its article 12, point 2d, that the university student has the duty to []refrain from the use or cooperation in fraudulent procedures in assessment tests, in the work carried out or in official university documents []. Therefore, the student is expected to have adequate ethical behavior. If unethical behavior is detected during the course (copying, plagiarism, use of unauthorized electronic devices or others), the student will be penalized with a grade of 0.0 on the written or deliverable test where such fraud is detected.

Sources of information	
Basic Bibliography	
lan Moir & Allan Seabridge, Aircraft systems , Wiley,	
Mike Tooley, Aircraft digital electronic and computer systems, Routledge,	
Luis Utrilla Navarro, Descubrir el transporte aéreo , Aena Aeropuertos SA,	
Arturo Benito, Descubrir el transporte aéreo y el medio ambiente, AENA,	
Complementary Bibliography	
L. Tapia, Derecho aeronáutico , Bosch,	
A. Benito, Descubrir las líneas aéreas , AENA,	

Recommendations

Subjects that it is recommended to have taken before

Aerospace technology/O07G410V01205