Universida_{de}Vigo

Subject Guide 2019 / 2020

IDENTIFYIN				
Automobile				
Subject	Automobile Vehicles			
Code	V04M141V01323			
Study	(*)Máster			
programme	Universitario en			
	Enxeñaría			
-	Industrial			
Descriptors	ECTS Credits	Choose	Year	Quadmester
	4.5	Optional	2nd	1st
Teaching	Spanish			
language	Galician			
Department				
Coordinator	Izquierdo Belmonte, Pablo			
Lecturers	Izquierdo Belmonte, Pablo			
E-mail	pabloizquierdob@uvigo.es			
Web	http://faitic.uvigo.es			
General description	Knowledges on vehicles cars: description of his elem	ents and vehicu	lar dynamics	

Competencies

Code

- A2 That the students can apply their knowledge and their ability to solve problems in new or unfamiliar environments within broader (or multidisciplinary) contexts related to their field of study.
- A3 That students are able to integrate knowledge and handle complexity and formulate judgments based on information that was incomplete or limited, include reflecting on social and ethical responsibilities linked to the application of their knowledge and judgments.
- C1 CET1. Project, calculate and design products, processes, facilities and plants.
- C14 CTI3. Ability to design and test machines.
- C32 CIPC5. Knowledge of methods and techniques of transportation and industrial maintenance.

Learning outcomes					
Expected results from this subject		Training and Learning Results			
Comprise the operation of the main systems of the car and of the railway	A2	C1			
	А3	C14			
		C32			
Skill to make calculations of vehicular dynamics	A2	C1			
	А3	C14			
		C32			
Capacity to design systems and components of the car and of the railway	A2	C1			
	A3	C14			
		C32			
Capacity to analyse the dynamic provision of a vehicle.	A2	C1			
	A3	C14			
		C32			
Purchase knowledges on the homologation of vehicles.	A2	C1			
	A3	C14			
		C32			
Capacity to project reforms of importance in vehicles cars according to the valid regulation.	A2	C1			
	A3	C14			
		C32			

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Class hours	Hours outside the classroom	Total hours
10	20	30
10	20	30
8	6	14
8	6	14
0	22.5	22.5
0	2	2
	10	classroom 10 20 10 20 8 6 8 6

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

Methodologies	
	Description
Lecturing	Exhibition of the subjects with multimedia support
Problem solving	Resolution of problems of the different contents
Laboratory practical	Analysis of real elements of the car
Computer practices	Calculations and simulations of the vehicular behaviour

Personalized assi	tance	
Methodologies	Description	

Problem solving	Resolution of doubts during the session. Supervision of the professor in the classroom with attention to demand for explanation of contents. *Tutorías Personalised for explanation of doubts in the resolution of exercises.
Laboratory practical	Review put to place
Computer practices Review put to place	
Lecturing	Resolution of doubts during the session. *Tutorías Personalised for explanation of doubts in the contents given.

Assessment				
	Description	Qualificatio		raining and
			Lea	arning Results
Practices report	Assistance with *aprovechamiento to the practices and preparation of	30	A2	C1
	reports of the practices made and realisation of the relative proofs to the		А3	C14
	practical session (laboratory or classroom of computing) and activities of individual work			C32
Essay questions	Proof written, theory and problems	70	_ A2	C1
exam			Α3	C14
				C32

Other comments on the Evaluation

The matter will approve obtains an equal qualification or elder that a 5 how final note, obtained of the following form:- by the assistance with *aprovechamiento to &the *quot;Practices in classrooms of computer/laboratory&*quot;, the preparation of reports/memory of practice and resolution of the exercises proposed&*nbsp;(continuous evaluation of 30%).- By the realisation of &*quot;Proofs of long answer, of development&*quot; in the planned dates in January (first edition) and June (second edition) as it establish the school (final examination of 70%).Only the students that renounce&*nbsp;to the continuous evaluation in the terms established will have right the realisation of a proof of exercises (equivalent to&*nbsp;the continuous evaluation of 30%) in the same date of the examination.Can *suplir the half of the qualification of the &*quot;Proofs of long answer, of development&*quot; (final examination of 70%) by a work to define between the *profesorado and the student, as well as his public exhibition.Will employ a system of numerical qualification of 0 to 10 points second the legislation collected in the *RD 1125/2003 of 5&*nbsp;of September, BOE of 18 September* ethical Commitment: it expects that the present student a suitable ethical behaviour. In the case to detect a no ethical behaviour&*nbsp;(copy, plagiarism, utilisation of unauthorised electronic devices, and others) will consider that the student does not gather the&*nbsp;necessary requirements to surpass the matter. In this case the global qualification in the present academic course will be&of *nbsp;suspense (0.0).

Sources of information		
Basic Bibliography		
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Pablo Luque, Ingeniería del automóvil : sistemas y comportamiento dinámico, Thomson, 2004		
Manuel Arias-Paz, Manual de Automóviles , Dossat, 2001		
Complementary Bibliography		
Cascajosa Soriano, Manuel, Ingeniería de vehículos : sistemas y cálculos, Tébar, 2007		
José Font Mezquita, Tratado sobre automóviles , UPV, 2006		

Recommendations

Subjects that it is recommended to have taken before

Mechanical Engineering Design/V04M141V01114 Mechanical Engineering Design/V04M141V01214 Mechanism and machine theory/V12G380V01306 Machine design I/V12G380V01304