

		Teaching Guide		
Identifying Data			2019/20	
Subject (*)	Acoustic Waves Code		730495015	
Study programme	Mestrado Universitario en Materiai	s Complexos: Análise Térm	iica e Reoloxía (plan 2012)	
		Descriptors		
Cycle	Period	Year	Туре	Credits
Official Master's Degre	e 1st four-month period	First	Optional	4
Language	English			· · · ·
Teaching method	Face-to-face			
Prerequisites				
Department				
Coordinador	López Beceiro, Jorge José E-mail jorge.lopez.beceiro@udc.es			eiro@udc.es
Lecturers	,	E-ma	ail	
	Derode , Arnoud		arnoud.derode	@espci.fr
Web				
General description	By focusing on the core concepts of	of propagation of sound way	ves, this course provides st	tudents with the skills necessal
	study the acoustical problems in complex fluids.			

	Study programme competences
Code	Study programme competences
A4	Knowing and applying statistical methods to analyze data from complex material testing
A5	Understanding the relationships between structure and properties of materials
B1	Knowledge and understanding to provide a basis or opportunity for originality in developing and / or applying ideas, often in a research context
B2	The students have the skill to apply their knowledge and their ability to solve problems in new or unfamiliar contexts within broader (or multidisciplinary) contexts related to their field of study
B4	That the students can communicate their conclusions and the knowledge and last reasons behind that conclusions to specialized and non specialized audience in a clear and unambiguous way
B8	Applying a critical, logical and creative way of thinking
B12	Communicate effectively in the work environment
B18	Ability for abstraction, understanding and simplification of complex problems
B19	Will of continuous improvement
B21	To assess the importance of research, innovation and technological developments in the socio-economic and cultural progress of society
C2	Have a good command of spoken and writing expression and understanding of a foreign language.
C6	Critically assessing the knowledge, technology and information available to solve the problems they face with.
C7	To assume as a professional and citizen the importance of learning throughout life.
C8	To assess the importance of research, innovation and technological development in the socio-economic and cultural progress of society.

Learning outcomes				
Learning outcomes	Learning outcomes Study pr		programme	
	competences			
	AR4	BR1	CR2	
	AR5	BR2	CR6	
		BR4	CR7	
		BR8	CR8	
		BR12		
		BR18		
		BR19		
		BR21		



Contents		
Торіс	Sub-topic	

	Planning]		
Methodologies / tests	Competencies	Ordinary class	Student?s personal	Total hours
		hours	work hours	
Guest lecture / keynote speech	A4 A5 B1 B4 B18 C2	10	18	28
Laboratory practice	B2 B8 B12 B19 B21	20	20	40
	C8			
Supervised projects	B4 B19 B21 C2 C6	5	25	30
	C7			
Personalized attention		2	0	2
(*)The information in the planning table is fo	r quidance only and door not t	aka into account the	botorogonoity of the ctu	donto

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

	Methodologies
Methodologies	Description
Guest lecture /	Presentation given by the professor, on a schematic basis, focusing on the main topics, covering both theoretical and practical
keynote speech	issues.
Laboratory practice	Performance of practical activities such as demonstrations, exercises, experiments, etc
Supervised projects	Activities whose purpose is that the students enlarge the study of the topics pesented in the program and consolidate their
	acquired knowledge and capabilities. These activities should also help the students learn and improve their capabilities in
	literature survey.

	Personalized attention	
Methodologies	Description	
Guest lecture / The personalized attention to students, understood as a support in the teaching-learning process, will take place in		
keynote speech	of tutoring of the professor.	
	No academic dispensation is accepted.	

Assessment			
Methodologies	Competencies	Description Qualifica	
Guest lecture /	A4 A5 B1 B4 B18 C2	Examination or objective test.	
keynote speech			
Laboratory practice	B2 B8 B12 B19 B21	Continuous assessment through monitoring of student work in the classroom,	20
	C8	laboratory and / or tutorials.	
Supervised projects	B4 B19 B21 C2 C6	Presentation (oral and written) of the supervised work.	30
	C7		

Assessment comments

Sources of information



Basic
Complementary

Recommendations

Subjects that it is recommended to have taken before

Subjects that are recommended to be taken simultaneously

Subjects that are recommended to be taken simultaneously

Subjects that continue the syllabus

Other comments

To help achieve a sustained immediate environment and meet the objective of action number 5: "Healthy and sustainable environmental and social teaching and research" of the "Green Campus Ferrol Action Plan: The delivery of the documentary work carried out in this subject: &nbs

- Printing of drafts shall be avoided. - A sustainable use of resources and the prevention of negative impacts on the natural environment must be made. - It will work to identify and change gender biases and attitudes, and influence the environment to change them and promote values of respect and equality. - Situations of discrimination should be identified and actions and measures proposed to correct them.

(*)The teaching guide is the document in which the URV publishes the information about all its courses. It is a public document and cannot be modified. Only in exceptional cases can it be revised by the competent agent or duly revised so that it is in line with current legislation.