		Teaching Guide		
	Identifying I	Data		2017/18
Subject (*)	Acoustic Waves		Code	730495015
Study programme	Mestrado Universitario en Materiais	Complexos: Análise Térmica	e Reoloxía (plan 2012)	,
		Descriptors		
Cycle	Period	Year	Туре	Credits
Official Master's Degre	ee 1st four-month period	First	Optativa	4
Language	English	,		<u> </u>
Teaching method	Face-to-face			
Prerequisites				
Department				
Coordinador	López Beceiro, Jorge José	E-mail	jorge.lopez.bec	eiro@udc.es
Lecturers	Derode , Arnoud	E-mail	arnoud.derode	@espci.fr
Web				
General description	By focusing on the core concepts of	propagation of sound waves	, this course provides st	tudents with the skills necessary
	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
В8	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	Study	y progra	amme
	competences		
	AR4	BR1	CR2
	AR5	BR2	CR6
		BR4	CR7
		BR8	CR8
		BR12	
		BR18	
		BR19	
		BR21	

Contents



Topic	Sub-topic 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 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 the hours
keynote speech	of tutoring of the professor.

		Assessment	
Methodologies	Competencies	Description	Qualification
Guest lecture /	A4 A5 B1 B4 B18 C2	Examination or objective test.	50
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 continue the syllabus
Other comments

(*)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.