

		Teaching Guide			
	Identifying D	ata		2018/19	
Subject (*)	Acoustic Waves		Code	730495015	
Study programme	Mestrado Universitario en Materiais Complexos: Análise Térmica e Reoloxía (plan 2012)				
	1	Descriptors			
Cycle	Period	Year	Туре	Credits	
Official Master's Degree	e 1st four-month period	First	Optional	4	
Language	English				
Teaching method	Face-to-face				
Prerequisites					
Department					
Coordinador	López Beceiro, Jorge José		nail jorge.lopez.bec	ro@udc.es	
Lecturers	Derode , Arnoud	E-n	nail arnoud.derode	arnoud.derode@espci.fr	
Web		·			
General description	By focusing on the core concepts of	propagation of sound w	aves, this course provides st	tudents with the skills necessa	
	study the acoustical problems in com	plex 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	Study 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 for guidance only and does not take into account the heterogeneity of the students.

Methodologies		
Description		
Presentation given by the professor, on a schematic basis, focusing on the main topics, covering both theoretical and practical		
issues.		
Performance of practical activities such as demonstrations, exercises, experiments, etc		
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.	
	No academic dispensation is accepted.	

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

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

(\*)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.