Universida_{de}Vigo

Subject Guide 2016 / 2017

			Subjec	t Galac 2010 / 2017
IDENTIFYIN	G DATA			
Geological	Processes in Continental Margins and Ocean Basir	าร		
Subject	Geological			
	Processes in			
	Continental			
	Margins and Ocean			
	Basins			
Code	V10M153V01104			
Study	(*)Máster			
programme	Universitario en			
	Oceanografía			
Descriptors	ECTS Credits	Choose	Year	Quadmester
	5	Mandatory	1st	1st
Teaching	Spanish			
language				
Department				
Coordinator	Bernabéu Tello, Ana María			
Lecturers	Bernabéu Tello, Ana María			
	Mena Rodríguez, Ángel			
	Mohamed Falcón, Kais Jacob			
	Nombela Castaño, Miguel Angel			
E-mail	bernabeu@uvigo.es			
Web	http://masteroceanografia.com			
General	This subject tackles the knowledge of the geological pro-	ocesses that take p	place in the marine	field from the line
description	of coast until the abyssal plain. They will analyse the properties to sediment and the sedimentary structures tackles the study of post-sedimentary processes like the by the activity of the organisms in the sedimentary rec	resultant in the die diagenesis of sed	fferent marine env	vironments. Also it
	The practical content of the subject will suppose a field sedimentary environments . It proposes visit the neoge			

Competencies

of Almería.

Code

- A3 Students who have the ability to integrate knowledge and handle complexity, and formulate judgments with incomplete or limited information, but that include reflecting on social and ethical responsibilities linked to the application of their knowledge and judgments
- A4 Students who can communicate their conclusions, and the knowledge and rationale underpinning these, to specialist and nonspecialist audiences clearly and unambiguously
- B1 The students will understand in a detailed and based form the theoretical and practical aspects and the work methodology of the oceanography
- B5 The students will be able to develop the sufficient autonomy to participate in research projects and scientific collaborations, especially in interdiscipinary contexts
- C3 The students will analyse situations and specific oceanographic conditions related with the global change
- C4 The students will be able to apply in the practice the obtained knowledge and issue resolutions and judgments in the different oceanography fields
- D1 The students will know and will be able to apply the scientific method in the academic and research fields.
- D3 The students will be able to communicate the obtained information and their conclusions in a effective way to the general public, to other scientists and to the competent authorities, listening and answering of effective form and, using an appropriate language to the audience and to the context

Learning outcomes	
Expected results from this subject	Training and
	Learning Results

Capacity to interpret seismic profiles. Recognise	inside the context of the sequential stratigraphy the	A3
sedimentary courtships and his relation with the		B1
		B5
		C3
		C4
		D1
		D3
Capacity for the integration of data and interpret	ation of the physical and geological processes	A3
in oceanic environments.		B1
		B5
		C3
		C4
		D1
		D3
Capacity for the recognition and interpretation of	sequences and cycles.	A3
		B1
		C3
		C4
Constitute in the literature of the control of the	to the language of the decoration for the state of the st	D1
	ts, their processes associated and the factors that have	A3
controlled their spatio-temporal evolution.		B1
		C3
		C4 D1
Canacity to avaluate the economic notantial of th	e oceanic basins with regard to diverse geological	A3
resources.	le oceanic basins with regard to diverse geological	A4
resources.		B1
		C4
		D1
		D3
		55
Contonts		
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Topic PROGRAM OF THEORY Subject 1: Tectonic configuration and geomorphology of the oceanic bottom		
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Planning					
	Class hours	Hours outside the classroom	Total hours		
Master Session	25	35	60		
Outdoor study / field practices	20	0	20		

Presentations / exhibitions	3	0	3	
Tutored works	2	0	2	
Reports / memories of practice	0	15	15	_
Jobs and projects	0	25	25	

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

Methodologies	
	Description
Master Session	It consists in the exhibition of contents by part of the professor, analysis of competitions, explanation and demonstration of capacities, skills and knowledges in the classroom, using like methodology the participatory masterclass and in which the function of the professor is to explain the theoretical foundations of the matter.
Outdoor study / field practices	Session of work *grupal in practices of field, under the supervision of the professor, making possible the significant construction of the knowledge through the interaction and activity of the student and his contact with the reality where has to apply his knowledges. It will do a route by the outcrops *Neógenos of several basins *sedimentarias of the *sureste peninsular in which there is glorious examples of half *sedimentarios marine fossils, that include platforms *carbonatadas, *turbiditas, *evaporitas, reefs, *sedimentación *pelágica, etc.
Presentations / exhibitions	Realisation and individual exhibition on a subject of the *asignatura. The professor presents the aims, orients and *tutoriza the work, with participation shared with the students. This methodology carries implicit a load of work no face-to-face significantly upper to the activities signalled previously.
Tutored works	Sessions of work in group oriented by the professor, whose purpose is the research of data or information in libraries, databases, Internet, etc.

Personalized attent	Personalized attention				
Methodologies	Description				
Master Session	Schedule of tutorial: Prof. Ana Bernabeu: Monday, Tuesday and Wednesday of 12:00 to 14:00 hours Prof. Kais Mohamed: Tuesday and Friday of 12:00 to 14:00 hours and Thursday of 14:00 to 16:00 hours Prof. Miguel Nombela: Monday, Tuesday and Wednesday of 12:00 to 14:00 hours Prof. Anxo Mena:Monday, Tuesday and Wednesday of 12:00 to 14:00 hours				
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Assessment						
	Description	Qualification	١ .	Train	ing a	ind
			Le	arnir	ıg Re	sults
Presentations /	It will evaluate the document written and the oral presentation of the	40	А3	В1	C3	D1
exhibitions	work developed by the student in a subject related with the matter.		Α4	B5	C4	D3
Reports / memories o	f They will evaluate the reports of field elaborated by the student in	40	А3	В1	C4	D1
practice	relation to the exit of field in the outcrops *Neógenos of basins		Α4	B5		D3
	*sedimentarias situated in the peninsular					
Jobs and projects	It will evaluate the capacity of analysis and synthesis on the subject	20	A3	B5	C4	D1
	chosen, as well as the participation during the discussion of the works).	Α4			D3
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Other comments on the Evaluation

Sources	of i	inforr	nation
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Arche, A. (ed.), Sedimentología,

Chiocci, F.L. y Chivas, A.R. (eds.), Continental Shelves of the World,

Huneke, H. y Mulder, T., Deep-sea sediments,

Rebesco, M. and Camerlenghi, A. (eds.), Contourites,

Nittrouer, C.; Austin, J.; Field, M.; Kravitz, J.; Syvitski, J.; Wiberg, P. (eds.), Continental margin sedimentation: from sediment transport to sequence stratigraphy,

Mather, A., A Field guide to the neogene sedimentary basins of the Almería province, SE Spain,

Braga, J.C. et al., Geología del Entorno Árdido Almeriense. Guía Didáctica de Campo,

CIESM Workshop, The Messinian Salinity Crisis from mega-deposits to microbiology. A consensus report,

Recommendations

Subjects that it is recommended to have taken before Geological Oceanography/V10M153V01CF104

Other comments

For those students that have not graduated in Marine Science or in Geology is fundamental to have studied the subject of Geological Oceanography.