# Universida<sub>de</sub>Vigo

### Subject Guide 2016 / 2017

<ul> <li>methodology of the oceanography</li> <li>B5 The students will be able to develop the sufficient autonomy to participate in research projects and scientific collaborations, especially in interdiscipinary contexts</li> <li>C3 The students will analyse situations and specific oceanographic conditions related with the global change</li> <li>C4 The students will be able to apply in the practice the obtained knowledge and issue resolutions and judgments in the different oceanography fields</li> <li>D1 The students will know and will be able to apply the scientific method in the academic and research fields.</li> </ul>	41111111		KARKUNAT	Subj	
Geological Processes in Continental Margins and Ocean Basins           Subject         Geological           Processes in Continental Margins and Ocean Basins         Margins and Ocean Basins           Code         VI0N133V01104           Study (*)Master programme Universitatio en Oceanografia         Year           Descriptors         FCTS Credits           Code         VI0N133V01104           Study (*)Master programme Universitatio en Oceanografia         Descriptors           Department         Cordinator           Conditionator         Bernabéu Tello, Ana María Mena Rodríguez, Angel Mohamed Falcón, Kais Jacob Nombela Castaño, Miguel Angel           E-mail         Dernabeu@uvigo.es           Web         http://masteroceanografia.com           Web         http://masteroceanografia.com           General         This subject tackles the Nowledge of the geological processes that take place in the marine field from the line description           Goast until the abyssial plain. They will analyse the processes of transport and sedimentation that control the movement of sedimentary environments , it proposes visit the neogene basins of Sorbas; Nijar and Taberras in the province of Almería.           Competencies         Code           AS         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 linke					
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Learning outcomes	general	I public, to other scientists and to the competent authoritie			
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	Learning or	utcomes			
					Training and

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 eustatic stages.	B1
	B5
	C3
	C4
	D1
	D3
Capacity for the integration of data and interpretation 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
	D1
Capacity to identify the sedimentary environments, their processes associated and the factors that have	A3
controlled their spatio-temporal evolution.	B1
	C3
	C4
	D1
Capacity to evaluate the economic potential of the oceanic basins with regard to diverse geological	A3
resources.	A4
	B1
	C4
	D1
	D3
Contents	
Торіс	
PROGRAM OF THEORY	
Subject 1: Tectonic configuration and	

sediments	
Subject 3: Transport of sediments in coastal	
environments and continental shelf	
Subject 4: Continental shelf	
Subject 5: Gravitational processes in the	
continental slope and abyssal plain	
Subject 6: Currents of outline and contourites	
Subject 7: Hydrothermalism	
Subject 8: Ichnology in marine sedimentary	
environments	
Subject 9: Diagenesis in marine sediments	
Subject 10: Marine mineral resources	
PROGRAM OF PRACTICES	
SUBJECT P1: Identification of marine sedimentary	y P1.1. Environments in carbonate platforms: internal platform and reefs
environments	
	P1.2. Turbiditic environments
	P1.3. Pelagic environments
	P1.4. Evaporitic environments
SUBJECT P2: Sedimentary basins filling	P2.1. Factors of control

 P2.2. Spatio-temporal evolution

 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 fo	*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 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	ı -	Train	ing a	nd
		Learning Resu		sults		
Presentations /	It will evaluate the document written and the oral presentation of the	40	A3	B1	C3	D1
exhibitions	work developed by the student in a subject related with the matter.		A4	B5	C4	D3
Reports / memories of	f They will evaluate the reports of field elaborated by the student in	40	A3	Β1	C4	D1
practice	relation to the exit of field in the outcrops *Neógenos of basins		A4	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	•	A4			D3

#### Other comments on the Evaluation

## Sources of information

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,

# 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.