# Universida<sub>de</sub>Vigo

# Subject Guide 2015 / 2016

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IDENTIFYIN				
Climate Cha	-			
Subject	Climate Change			
Code	001G260V01702			
Study	(*)Grao en			
programme	Ciencias			
Deceriaters	Ambientais	Chasses	Veer	Our dress stor
Descriptors	ECTS Credits	Choose	Year	Quadmester
Taaabina	6 Collision	Mandatory	4th	1st
Teaching	Galician			
language				
Department Coordinator	Castro Rodríguez, María Teresa de			
Lecturers	Castro Rodríguez, María Teresa de			
Lecturers	Gómez Gesteira, Ramón			
E-mail	mdecastro@uvigo.es			
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General				
description				
description				
Competence	les			
Code				
	cidade de análise e síntese			
	cidade de organización e planificación.			
	cidade de comunicación oral e escrita tanto na lingu	la vernacula como n	as extranxeiras	
	cidade de xestión da información			
	irir capacidade de resolución de problemas			
	irir capacidade na toma de decisións			
	cidades de traballo en equipo, con carácter multidis	ciplinar e nos contex	tos tanto nación	ais como internacionais
	idades de razonamento crítico			
	nvolver un compromiso ético			
	ndizaxe autónomo			
	tación as novas situacións			
B15 (*)Creat				
	ración pola calidade			
	bilidade hacia temas medioambientais	nrácticos		
	cidade de aplicalos coñecementos teóricos en casos			
	cidade de comunicarse con persoas non expertas na			
	cidade para entender a lenguaxe e propostas doutro	os especialistas		
	cidade de autoevaluación			
C4 C5				
C10				
C22				
Learning ou				
Expected res	ults from this subject			Training and Learning Results

Results

Development of the capacity to transmit information, ideas and defend arguments so much in from of a skilled public as no. Development of the capacities of management of the information, analysis and synthesis of the results, resolution of problems and taking of decisions. Development of the capacities of autonomous work and in team, of self-criticism, ethical commitment, creativity, sensitivity in front of the environmental problems and motivation by the quality. Develop the capacity to integrate the experimental evidences in the theoretical knowledges and for the qualitative and quantitative interpretation of the results. Know and comprise the climatic scales and the concepts related with the climate and the global change-	B2 B3 B5 B6 B7 B8 B11 B12 B13 B14 B15 B19 B20 B21 B22	C4 C5 C10 C22
	B22 B23	
	B24	

Contents	
Торіс	
Block I: climatic Change in the atmosphere and	Definition of climate. Climatic system. Reconstruction of the climate.
ocean	Climatic variability.
Fear 1. Climate happened in the Earth	Characterisation of the climate us distinct periods of the Earth.
Subject 2. Effect of the current climatic change in	n Evolution of the global half temperature in the 20th century and XXI.
the atmosphere.	Tendencies.
	Evolution of the cover of ice in the different regions of the planet.
	Tendencies.
	Variability of the atmospheric humidity. Tendencies.
	Evolution of global clouds coverege.
	Variations in the atmospheric circulation.
Subject 3. Effect of the current climatic change in	n Changes of the temperature and salinity to scale global.
the ocean.	Changes in the level of the mar.
	Changes biochemical.
Block II: climatic Change and biodiversity	Evidences of the climatic change and his characteristics.
<u> </u>	Main climatic elements fundamental to the development and vegetal
Subject 4. Effect of the climatic change in the	growth.
biodiversityvegetal	Influence of the meteorological parameters on the periodic phenomena in
, ,	the vegetal
	Effects on the agriculture.
Subject 5. *Mitigación And adaptation	Resources to improve the current energetic system.
	Management of forest resources and of crops.

Planning			
Class hours	Hours outside the classroom	Total hours	
26	44.2	70.2	
10	20	30	
2	18	20	
4	25.8	29.8	
-	26 10 2 4	classroom           26         44.2           10         20           2         18	

\*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	In the masterclasses will explain the own concepts of each subject. Like material of support will use the available technology: projection, blackboard, etc.	
	Summary subjects will dump in the platform Fear of *Teledocencia of the University of Vigo (http://faitic.uvigo.es).	
Seminars	Analysis of temporary series (perpetual years, variability *interanual, anomalies, tendencies]) of distinct variables so much atmospheric how oceanic (elevation of the tide, temperature of the air, temperature of the ocean, salinity, atmospheric models like *NAO, *EA]) Resolution of exercises and practical cases. Analysis of documentation on the subject and of	
	audiovisual.	

# Personalized attention

#### **Methodologies Description**

Master Session	Through the platform "FAITIC" the student can access so much to the content of each one of the subjects that integrate the matter, like the different activities proposed. The personalised attention will take place during tutorials of the professors/the and in the masterclasses and seminars. Turorials: Monday: 16:00-18:00 Tuesdays: 16:00-18:00
Seminars	Through the platform "FAITIC" the student can access so much to the content of each one of the subjects that integrate the matter, like the different activities proposed. The personalised attention will take place during tutorials of the professors/the and in the masterclasses and seminars. Turorials: Monday: 16:00-18:00 Tuesdays: 16:00-18:00

Assessment			
	Description	Qualification	Training and Learning Results
Short answer tests	Questions on the *temario	60	B1 C10 B2 B3 B5 B11 B13 B19 B20 B23
Troubleshooting and / or exer	rcises Proposal of resolution of practical cases and exercises posed in the seminars	40	B1 C4 B2 C5 B3 C22 B5 B6 B7 B8 B11 B12 B13 B14 B15 B19 B21 B22 B23 B24

## Other comments on the Evaluation

Attendance is compulsory lectures and especially the seminars.

To pass the course, students must have passed the two parts of the same, both short-answer tests the presentation and performance of work seminars and individual activities. Students just cause can not attend classes must justify properly. The evaluation will be conducted with additional work that will propose him / her second teacher the case.

## Examinations: DAY: 20 January 2016 HOUR: 10 h.DAY: 5 July 2016 HOUR: 16 h.End of career: 1 October 2016 Hour: 16 h.

 Sources of information

 Antón Uriarte Centolla, Historia del Clima de la Tierra, EuskoJaurlaritzarenArgitalpenZerbituNagusia,

 Intergovernmental Panel on Climate Change, Climate change 2007: the physical science basis, Contribution of Working

 Group 1 to the Fourth Assessment Report of the Intergovernmental Panel on C,

 Elias F. & Castellví F., Agrometeorología, Mundi Prensa,

 Mavi H.S. & Tupper G.J., Agrometeorology., Food Products Press.,

 Cambio climático y biodiversidad, IPCC,

## Recommendations

Subjects that are recommended to be taken simultaneously Bioclimatology/O01G260V01909 Physical Climatology/O01G260V01901