

		Teaching Guide			
	Identifying	Data			2021/22
Subject (*)	Physical Geography			Code	610G02006
Study programme	Grao en Bioloxía				
		Descriptors			
Cycle	Period	Year		Туре	Credits
Graduate	2nd four-month period	First		Basic training	6
Language	Spanish		I		
Teaching method	Face-to-face				
Prerequisites					
Department	Física e Ciencias da Terra				
Coordinador	Santos Fidalgo, Luisa	E	-mail	luisa.santos@udc	.es
Lecturers	Lado Liñares, Marcos	Lado Liñares, Marcos E-mail marcos.lado@udc.es			c.es
	Sanjurjo Sanchez, Jorge			jorge.sanjurjo.san	chez@udc.es
	Santos Fidalgo, Luisa			luisa.santos@udc	.es
Web		I			
General description	General and global study of the ma	ain elements of Geograp	phy in Natu	ure, their internal correl	lations and significant elemer
	with an integral introduction to the	study of relief, climate, v	water, bios	phere and landscape.	



Contingency plan	1. Changes in contents
	No changes will be made.
	2. Methodologies
	*Teaching methodologies will be maintained
	Most of the teaching methodologies that will have to be changed to telematics are maintained:
	Keynote lectures
	Practical works
	Small Teaching group reports (seminars)
	*Teaching methodologies that are modified
	Field trips: Voluntary field trips will be suspended
	Objective test (no elimination questionnaires, evaluation of this knowledge will be incorporated in the continuous evaluation
	of practices and seminars and in the final evaluation)
	3. Mechanisms for personalized attention to students
	E-mail: Daily, for consultations, to request tutorials and to follow up on tutored work.
	Moodle: Daily. They will have specific forums associated with the different activities for consultations, as well as Tasks and
	other activities for the development of the contents of the subject.
	Teams: Synchronous sessions (video conferences) weekly in the time slots assigned in the class schedules of the faculty
	(both for theoretical content and for monitoring and support of practices and supervised work) and asynchronous
	(messaging) daily.
	4. Modifications in the evaluation
	Practices (30%): Continuous evaluation, completion of the practices and delivery of the requested exercises.
	Small Teaching groups (seminars) (40%): Continuous assessment, elaboration of two papers and delivery through Moodle.
	Theoretical content (30%): Eveluation through Teams and Moodle.
	Other activities (1.5 points or more): Active participation in the different programmed activities (Forums, Headings, etc.).
	*Evaluation observations:
	5. Modifications of the bibliography or reference website
	They didn't happen.
	Other observations:
	-This subject is taught in the First and Second Semesters, so it could be the case that in the Second Semester the
	Teaching Modality is different to the one in the first.
	-Modification in case the capacity of the classroom asigned for the subject is exceeded
	The modification is the allocation of two or more classrooms to the subject, and teaching online using TEAMS for the
	students who are not in the classroom with the teacher.

	Study programme competences / results		
Code	Study programme competences / results		
A6	A6 Catalogar, avaliar e xestionar recursos naturais.		
A22	A22 Describir, analizar, avaliar e planificar o medio físico.		
A23	A23 Avaliar o impacto ambiental. Diagnosticar e solucionar problemas ambientais.		
A30	A30 Manexar adecuadamente instrumentación científica.		
A32	A32 Desenvolverse con seguridade no traballo de campo.		
B1	Aprender a aprender.		



B2	Resolver problemas de forma efectiva.
B3	Aplicar un pensamento crítico, lóxico e creativo.
B4	Traballar de forma autónoma con iniciativa.
B5	Traballar en colaboración.
B6	Organizar e planificar o traballo.
B7	Comunicarse de maneira efectiva nunha contorna de traballo.
B8	Sintetizar a información.
B9	Formarse unha opinión propia.
B10	Exercer a crítica científica.
B11	Debater en público.
B12	Adaptarse a novas situacións.
B13	Comportarse con ética e responsabilidade social como cidadán e como profesional.

Learning outcomes		
Learning outcomes	Study	y programm
	con	npetences /
	results	
Acquisition of skills for the use, analysis and appraisal of the acquired knowledge in the practical context required by	A6	B1
professional activities.	A22	B2
	A23	B3
	A30	B4
	A32	B5
		B6
		B7
		B8
		B9
		B10
		B11
		B12
		B13
To work with autonomy and initiative, retrieving useful information from bibliographic references and other sources.	A6	B1
	A22	B2
	A23	B3
	A30	B4
	A32	B5
		B6
		B7
		B8
		B9
		B10
		B11
		B12
		B13



Development of skills for interpretation and synthesis of data supplied by references, different types of maps and photo	A6	B1
interpretation.	A22	B2
	A23	B3
	A30	B4
	A32	B5
		B6
		B7
		B8
		B9
		B10
		B11
		B12
		B13

	Contents		
Торіс	Sub-topic		
I. INTRODUCTION	1. Physical Geography: concept, division and correlation with other sciences.		
	2. The Earth System and subsystems		
	3. The Earth Surface: Global Topography		
II. THE ATMOSPHERE AND THE HYDROLOGIC SYSTEM	4. Composition and structure of the atmosphere		
OF THE EARTH	5. Energy of the atmospheric system		
	6. Winds and atmospheric movement		
	7. Ocean-atmospheric interaction. Oceanic circulation		
	8. Atmospheric water and water balance		
	9. Types of precipitation, air masses and weather fronts		
	10. Climatic zonation of the Earth		
	11. Climatic change		
III. THE BIOSPHERE	12. Climate, soil, flora and fauna		
	13. Soil formation, properties and classification		
	14. Biogeographic processes. Phytogeography and zoogeography		
IV. LANDSCAPE AND RELIEF EVOLUTION	15. Weathering and slope processes		
	16. Fluvial and lacustrine Systems		
	17. Coastal Systems		
	18. Karst Systems		
	19. Glacial Systems		
	20. Desert Systems		

	Planning	g		
Methodologies / tests	Competencies /	Teaching hours	Student?s personal	Total hours
	Results	(in-person & virtual)	work hours	
Guest lecture / keynote speech	B1 B3	28	70	98
Laboratory practice	A30	10	5	15
Supervised projects	A6 A22 A23 B2 B4 B5	8	16	24
	B6 B7 B9 B10 B11			
	B12 B13			
Field trip	A32	5	5	10
Objective test	B8	2	0	2
Personalized attention		1	0	1



	Methodologies
Methodologies	Description
Guest lecture /	Theoretical and basic concepts will be acquired in lectures.
keynote speech	
Laboratory practice	Practices are a basic complement of theoretical lectures to deal with the learning of basic methods and techniques for working
	with geographical data. The aim is that the students develop skills for interpretation, synthesis and analysis supplied by
	references, maps and photogeology, based on the contents of the subject. Moreover, it is intended to transmit the basic
	knowledge for the use of geographical information systems and spatial analysis using software (Geographic Information
	Systems).
Supervised projects	They will consist on the development of themes and individual or group reports, proposed by the Professor, about several
	aspects of the subject. The following is required: searching and dealing with data, summarizing main ideas, work division,
	group discussion and exposition of reports. Moreover, the students can voluntarily participate in learning service (ApS)
	activities. The results of the activities will be assessed. The Professor will continuously supervise the development of the
	different activities.
Field trip	It is a complement of the other activities.
Objective test	Eliminatory tests of the theoretical contents of the subject that will consist on short of test questions and comments or
	identification of diagrams and pictures.

Personalized attention		
Methodologies	Description	
Laboratory practice	The personalized attention described for these methodologies is understood as profesor-student face-to-face work, and	
Supervised projects	requieres student participation. These activities will be programmed by the teachers throughout the year according to the	
Field trip	subject work plan.	
	Personalized advice may be also received via online, through e-mail, virtual platform,	
	Part-time students may also perform these works and submit them to the teachers for their assessment. Part-time student	
	can also receive personalized assistance using both face-to-face and virtual tutorial sessions.	

Assessment			
Methodologies	Competencies /	Description	Qualification
	Results		
Laboratory practice	A30	Avaliación continua.	20
Supervised projects	A6 A22 A23 B2 B4 B5	Traballos elaborados polos alumnos e presentación dos mesmos.	30
	B6 B7 B9 B10 B11		
	B12 B13		
Objective test	B8	Cuestionarios eliminatorios dos contidos teóricos da asignatura.	50

Assessment comments



Attendance

to practical lectures (including the submission of

requested exercises) and submission of seminar reports are required conditions to be evaluated. Practical work and seminar reports will account for

50% of the final score (practical works: 20% and seminar reports: 30%). Objective tests will account for 50% of the score. To pass the course, 5 points out of 10 should be obtained in each test. In

addition to this, the submission of the seminar reports, as well as the active

participation in them, attendance to tutorial sessions,

fieldtrip, AEMET visit, etc., will also be considered in the final score. Students

who do not pass the partial exemption exams will be evaluated in the

official tests of June and July. This call will be evaluated in the same way (percentages), by examining the theoretical and practical contents and submitting the seminar reports. To qualify as NOT PRESENTED, the students should not have

participated in more than 40% of the evaluable activities.

All prior observations apply to part-time students. Exceptional cases: when a student could not do all the evaluation activities due to justified causes, the Professors will take the actions they consider adequate to assess the work of the student. Students who pass the course in the first opportunity will have priority to be granted with Honors.

Fraud in tests or evaluation activities, once verified, will directly imply the failure grade "0" in the matter at the corresponding call.

	Sources of information		
Basic	De Blij, H.J., Muller, P.O. y Williams, R.S. 2004. Physical Geography. The global environment. Oxford University		
	Press, Oxford.López Bermúdez, F., Rubio Recio, J.M. y Cuadrat, J.M. 1992. Geografía Física. Cátedra,		
	Madrid.Strahler, A.N. y Strahler, A.H. 1994. Geografía Física. Omega, Barcelona.		
Complementary	Briggs, D. y Smithson, P. 1992. Fundamentals of Physical Geography. Routledge, LondonGabler, R.E., Sager,		
	R.J., Wise, D.L. y Petersen, J.F. 1999. A Essentials of Physical Geography. A Thomson Learning, London. Strahler,		
	A.N. y Strahler, A.H. 2002. Â Physical Geography: science and systems of the human environment. Â John Wiley and		
	Sons, New York.Hamblin, W.K. y Christiansen, E.H. 2001. Earth?s Dynamic Systems. Prentice Hall,		
	London.Skinner, B. J. & Porter, S. C. 1995. The Dynamic Earth. An Introduction to Physical Geology. John		
	Wiley and Sons, New York.Briggs, D. y Smithson, P. 1992. Fundamentals of Physical Geography. Routledge,		
	LondonGabler, R.E., Sager, R.J., Wise, D.L. y Petersen, J.F. 1999. Essentials of Physical Geography. Thomson		
	Learning, London.Strahler, A.N. y Strahler, A.H. 2002. Physical Geography: science and systems of the human		
	environment. John Wiley and Sons, New York. Hamblin, W.K. y Christiansen, E.H. 2001. Earth?s Dynamic		
	Systems. Prentice Hall, London.Skinner, B. J. & Porter, S. C. 1995. The Dynamic Earth. An Introduction to Physical		
	Geology. John Wiley and Sons, New York.		

	Recommendations
	Subjects that it is recommended to have taken before
Geology/610G02004	
	Subjects that are recommended to be taken simultaneously



Subjects that continue the syllabus

Ecology I: Individuals and Ecosystems/610G02039 Ecology II: Populations and Communities/610G02040 Edaphology/610G02045

Other comments

Students in Physical Geography should have passed the corse "Geology", compulsory of the first semester. Attendance to theoretical lectures is recommended. English language knowledge is recommended (medium level). Writting, summarizing, and submitting seminar works is required, as well as the basic user knowledge of basic software applications such as internet tools, word processor, presentation software, etc. Green Campus Science Faculty ProgramTo contribute to achieve an immediate sustainable environment and comply with point 6 of the "Environmental Declaration of the Faculty of Sciences (2020)", the documentary works carried out in this subject:- They will be requested mostly in virtual format and electronic form.- If it is printed: - Plastics will not be used. - Double-sided prints will be made. - Recycled paper will be used. - Drafts will be avoided.

(*)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.