



IDENTIFYING DATA

Environmental Impact

Subject	Environmental Impact			
Code	P03G370V01504			
Study programme	(*)Grao en Enxeñaría Forestal			
Descriptors	ECTS Credits	Choose	Year	Quadmester
	6	Mandatory	3rd	1st
Teaching language	Spanish Galician			
Department				
Coordinator	Álvarez Bermúdez, Xana			
Lecturers	Álvarez Bermúdez, Xana Valero Gutiérrez del Olmo, Enrique María			
E-mail	xana.alvarez.bermudez@gmail.com			
Web				
General description	(*)(*)En esta materia se trata de compatibilizar la actividad humana con el medio ambiente de tal manera que se puedan prever y prevenir los impactos que sobre los diversos factores del medio provocan determinadas actuaciones y/o actividades, tratando de minimizarlos o reducirlos.			

Competencies

Code	
B1	Ability to understand the biological, chemical, physical, mathematical and representation systems necessary for the development of professional activity, as well as to identify the different biotic and physical elements of the forest environment and renewable natural resources susceptible to protection, conservation and exploitations in the forest area.
B2	Ability to analyze the ecological structure and function of forest systems and resources, including landscapes.
B3	Knowledge of degradation processes that affect forest systems and resources (pollution, pests and diseases, fires, etc.) and capacity for the use of forest environment protection techniques, forest hydrological restoration and biodiversity conservation .
B4	Ability to evaluate and correct the environmental impact, as well as apply the techniques of auditing and environmental management.
C19	Ability to know, understand and use the principles of: evaluation and correction of environmental impact; recovery of degraded spaces.
D4	Sustainability and environmental commitment
D5	Capacity for information management, analysis and synthesis
D6	Organization and planning capacity
D8	Ability to solve problems, critical reasoning and decision making
D10	Autonomous Learning

Learning outcomes

Expected results from this subject	Training and Learning Results
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2R. 2018 Knowledge and understanding of the disciplines of engineering of the his speciality, to the necessary level to purchase the rest of the competitions of the qualifications, including notions of the last advances.	B1 B2 B3	C19	D4 D5 D6
3R. 2018 Be conscious of the multidisciplinary context of the engineering.	B4		D8
4R. 2018 Capacity to #analyze products, processes and complex systems in the his field of study; choose and apply analytical methods, of calculation and experimental *relevantes of form *relevante and interpret correctly the results of these analyses.			D10
5R. 2018 Capacity to identify, formulate and resolve problems of engineering in the his speciality; choose and apply analytical methods, of calculation and experiments properly established; Recognize the importance of the social restrictions, of health and security, environmental, economic and industrial.			
6R. 2018 Capacity to project, design and develop complex products (pieces, component, products finished, etc.), processes and systems of the his speciality, that fulfil the requirements established, including the knowledge of the social aspects, of health and environmental security, economic and industrial; as well as select and apply methods of appropriate project.			
7R. 2018 Capacity of the project using any knowledges advanced of the his speciality in engineering.			
12R. 2018 practical Competition to resolve complex problems, realize complex projects of engineering and realize specific investigations stop his speciality.			
14R. 2018 Capacity to apply norms of engineering in the his speciality.			
15R. 2018 Knowledge of the social implications, of health and security, environmental, economic and @industrial of the practice in engineering.			
17R. 2018 Capacity to collect and interpret data and handle complex concepts inside the his speciality, to issue judgements that involve a reflection on ethical and social questions			
20R. 2018 Capacity to work effectively in national and international contexts, individually and in team, and cooperate with the engineers and people of other disciplines.			

Contents

Topic

MODULE I: GENERAL FRAME	The Environmental System
Subject 1	<input type="checkbox"/> Introduction <input type="checkbox"/> The environmental system <input type="checkbox"/> environmental Problems <input type="checkbox"/> sustainable Development and the environmental management
MODULE I: GENERAL FRAME	Basic principles of the environmental politics
Subject 2	<input type="checkbox"/> Antecedents: <input type="checkbox"/> The protocol of Kioto <input type="checkbox"/> The forests in his paper of carbon sink
MODULE I: GENERAL FRAME	Environmental programmes of action of the European Union
Subject 3	<input type="checkbox"/> 1º Program (1973-1976) <input type="checkbox"/> 2º Program (1977-1981) <input type="checkbox"/> 3º Program (1982-1986) <input type="checkbox"/> 4º Program (1987-1992) <input type="checkbox"/> 5º Program (1992-2000) <input type="checkbox"/> 6º Program (2001-2010) <input type="checkbox"/> 7º Program (2014-2020)
MODULE I: GENERAL FRAME	Environmental management and his Instruments
Subject 4	<input type="checkbox"/> Definition <input type="checkbox"/> general Principles of the environmental management <input type="checkbox"/> Instruments of environmental management <input type="checkbox"/> environmental Management in the public sector <input type="checkbox"/> Systems of Environmental Management
MODULE II: INTRODUCTION To THE ENVIRONMENTAL IMPACT	Legal and institutional frame
Subject 5	<input type="checkbox"/> Antecedents <input type="checkbox"/> Community Legislation on Normative environmental <input type="checkbox"/> evaluation Spaniard in the national field <input type="checkbox"/> autonomic Rule <input type="checkbox"/> sectorial Rule

MODULE II: INTRODUCTION To THE ENVIRONMENTAL IMPACT	Analysis and environmental value of the geographic space
Subject 6	<input type="checkbox"/> environmental <input type="checkbox"/> Variable Introduction <input type="checkbox"/> Differentiation of environmental units <input type="checkbox"/> Phases
MODULE II: INTRODUCTION To THE ENVIRONMENTAL IMPACT	Environmental impact
Subject 7	<input type="checkbox"/> Introduction <input type="checkbox"/> Hit associated to the human activities <input type="checkbox"/> Relation causes effect <input type="checkbox"/> Classes of impacts <input type="checkbox"/> Attributes of the environmental impact
MODULE II: INTRODUCTION To THE ENVIRONMENTAL IMPACT	Indicators of Environmental Impact
Subject 8	<input type="checkbox"/> Concept <input type="checkbox"/> Classification of indicators <input type="checkbox"/> Models of indicators <input type="checkbox"/> Environmental Indicators in the field of the European Union <input type="checkbox"/> Environmental Indicators in Spain
MODULE III: EVALUATION OF ENVIRONMENTAL IMPACT	Evaluation of environmental impact. Strategic evaluation
Subject 9	<input type="checkbox"/> strategic environmental Evaluation ordinary <input type="checkbox"/> strategic environmental Evaluation simplified <input type="checkbox"/> Evaluation of ordinary environmental impact <input type="checkbox"/> Evaluation of environmental impact simplified <input type="checkbox"/> environmental Evaluation of activities
Module IV: CORRECTION OF ENVIRONMENTAL IMPACTS	Corrector measures, protective and compensatory
Subject 10	
Module IV: CORRECTION OF ENVIRONMENTAL IMPACTS	Program of Environmental Surveillance Document of Synthesis
Subject 11	
Module IV: CORRECTION OF ENVIRONMENTAL IMPACTS	environmental impact assessment and eco-audits (comparison)
Subject 12	
Module V: PRACTICAL CASES	Practical cases
Subject 13	

Planning			
	Class hours	Hours outside the classroom	Total hours
Mentored work	37	0	37
Laboratory practical	20	0	20
Case studies	30	0	30
Mentored work	60	0	60
Objective questions exam	1	0	1
Essay	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
Mentored work	The student, individually or in groups, prepares a paper on the subject of matter or prepare seminars, research, memoirs, essays, summaries of readings, lectures, etc.. Generally it is an autonomous activity / of the student / s that includes finding and collecting information, reading and literature management, writing ...
Laboratory practical	Activities application of knowledge to specific situations and basic skills acquisition and related procedural matter under study. Special spaces are developed with specialized equipment (scientific and technical laboratories, languages, etc.).
Case studies	Analysis of an event, issue or actual event in order to know, interpret, solve, generate hypotheses, comparing data, reflect, complete knowledge, diagnose and training in alternative dispute resolution procedures.

Mentored work	Students develop exercises or classroom projects under the guidance and supervision of the teacher. May link autonomous development of student activities.
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Personalized assistance

Methodologies	Description
Mentored work	
Mentored work	
Laboratory practical	
Case studies	
Tests	Description
Objective questions exam	
Essay	

Assessment

Description	Qualification	Training and Learning Results
Mentored work (*)Valórase por parte do profesor a dedicación do alumno, o interese e o desenvolvemento dos traballos, a súa valoración realízase o a avaliación final do estudo de casos presentado Avalíanse as competencias básicas CB1 e CB2, as xerais CG6, CG7, CG8, CG9, CG13, CG14, CG17, CG18 e CG19, a específica CE19 (CE 19.1 a 19.19) e as transversais CT1, CT2, CT11, CT14, CT15 e CT20	0	
Laboratory practical (*)Valórase a asistencia e participación de forma conxunta cos traballos de aula Avalíanse as competencias básicas CB1 e CB2, as xerais CG6, CG7, CG8, CG9, CG13, CG14, CG17, CG18 e CG19, a específica CE19 (CE 19.1 a 19.19) e as transversais CT1, CT2, CT11, CT14, CT15 e CT20	0	
Case studies (*)O traballo é valorado e avaliado polos propios compañeiros tras a presentación do mesmo e polo profesor quen terá en consideración todos os factores sinalados no apartado de traballos tutelados Avalíanse as competencias básicas CB1 e CB2, as xerais CG6, CG7, CG8, CG9, CG13, CG14, CG17, CG18 e CG19, a específica CE19 (CE 19.1 a 19.19) e as transversais CT1, CT2, CT11, CT14, CT15 e CT20	0	
Mentored work (*)Valórase a asistencia e participación con seguimento individual dos alumnos Avalíanse as competencias básicas CB1 e CB2, as xerais CG6, CG7, CG8, CG9, CG13, CG14, CG17, CG18 e CG19, a específica CE19 (CE 19.1 a 19.19) e as transversais CT1, CT2, CT11, CT14, CT15 e CT20	0	
Objective questions exam (*)Realízase unha proba tipo test e de resposta longa ao final da materia a modo de exame final sobre o contido do temario que se desenvolveron no curso e sobre as materias das visitas e prácticas Avalíanse as competencias básicas CB1 e CB2, as xerais CG6, CG7, CG8, CG9, CG13, CG14, CG17, CG18 e CG19, a específica CE19 (CE 19.1 a 19.19) e as transversais CT1, CT2, CT11, CT14, CT15 e CT20	70	
Essay (*)O traballo presentado deberá ter unha parte importante de contido técnico e valorarase a súa innovación en canto a temática e desenvolvemento, A súa avaliación será incluída no estudo de casos. A valoración adicional será consecuencia da obtención dos obxectivos expostos inicialmente avalíanse as competencias básicas CB1 e CB2, as xerais CG6, CG7, CG8, CG9, CG13, CG14, CG17, CG18 e CG19, a específica CE19 (CE 19.1 a 19.19) e as transversais CT1, CT2, CT11, CT14, CT15 e CT20	30	

Other comments on the Evaluation

Sources of information

Basic Bibliography

Complementary Bibliography

Recommendations

Contingency plan

Description

=== EXCEPTIONAL MEASURES SCHEDULED ===

In front of the uncertain and unpredictable evolution of the sanitary alert caused by the *COVID-19, the University of Vigo establishes an extraordinary planning that will activate in the moment in that the administrations and the own institution determine it attending to criteria of security, health and responsibility, and guaranteeing the teaching in a no face-to-face stage or partially face-to-face. These already scheduled measures guarantee, in the moment that was prescriptive, the development of the teaching of a more agile and effective way when being known in advance (or with a wide *antelación) by the students and the *profesorado through the tool normalised and institutionalised of the educational guides.

=== ADAPTATION OF THE METHODOLOGIES ===

* educational Methodologies that keep

The educational methodology will be the same, simply that will change the *face to face class by the virtual modality.

* Educational methodologies that modify :

In the schedules established in the official calendars of the centre, will give sessions through the platform of the University of Vigo (remote campus)

* Mechanism no face-to-face of attention to the students (*tutorías):

The individual sessions will make through the virtual office of each professor (Xana Álvarez: room 71). The student will send a mail previously to agree the day and time

* Modifications (if they proceed) of the contents to give: they keep

* additional Bibliography to facilitate the car-learning: it will leave available in fatic

* Other modifications

=== ADAPTATION OF THE EVALUATION ===

* Test already made

Tests type test: [previous Weight 70%] [Weight Proposed 70%]

weekly Exposition: [previous Weight 70%] [Weight Proposed 70%]

...

* Pending proofs that keep

Tests type test: [previous Weight 70%] [Weight Proposed 70%]

weekly Expositions: [previous Weight 70%] [Weight Proposed 70%]

...

* Proofs that modify : they do not modify , only they will make of virtual form in place of face-to-face
[previous Proof] => [new Proof]

* New proofs: no

* additional Information
