



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			
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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	C19	D4
3R. 2018 Be conscious of the multidisciplinary context of the engineering.	B2		D5
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.	B3		D6
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.	B4		D8
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.			D10
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	
Subject 1.	Concepts and concepts: Environment and environmental management.
Subject 2.	History and environmental regulations in Europe. Environmental action plans of the European Union.
Subject 3.	Environmental management in the public sector. Environmental Plans. Global plans. Sectoral plans.
Subject 4.	Environmental legislation: In the European Union, in Spain, in the Autonomous Communities.
Subject 5.	Environment and Natural environment. Environmental factors. Actions and activities that produce impacts.
Subject 6.	Sustainable development. Renewal rate, assimilation capacity and host capacity.
Subject 7.	Impact of a project or activity. Impact on the different phases of the project.
Subject 8.	Indicators of impact. Biological indicators.
Subject 9.	Typology of impacts. Cataloging and classification of environmental impacts.
Subject 10.	Types of environmental impact assessment.
Subject 11.	EIA process. Administrative process and content of the EIA. Declaration of Environmental Impact.
Subject 12.	Environmental impact studies: content and process.
Subject 13.	Studies of project actions that can cause impacts.
Subject 14.	Environmental inventory and factors susceptible of affection.
Subject 15.	Identification and assessment of impacts. Techniques and methods.
Subject 16.	Qualitative methods and quantitative methods.
Subject 17.	Corrective and protective measures. Environmental monitoring plans. Environmental control plans.
Subject 18.	Eco audits and environmental audits.
Subject 19.	Degraded areas: landfills, tailings, slopes, mines, etc. Recovery work.
Subject 20.	Civil works for the regeneration and environmental actions and of restoration and recovery.
Subject 21.	Revegetation and planting.
Subject 22.	Hidrosiembra

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.

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
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Other comments on the Evaluation

Sources of information

Basic Bibliography

Complementary Bibliography

Recommendations
