# Universida<sub>de</sub>Vigo

Subject Guide 2019 / 2020

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IDENTIFYIN				
Use of fore				
Subject	Use of forests			
Code	P03G370V01601			
Study	(*)Grao en			
programme	Enxeñaría Forestal			
Descriptors	ECTS Credits	Choose	Year	Quadmester
	6	Mandatory	3rd	2nd
Teaching				
language				
Department				
Coordinator	Ortiz Torres, Luis			
Lecturers	Ortiz Torres, Luis			
E-mail	lortiz@uvigo.es			
Web	http://http://dasometriaweb.blogspot.com.es/			
General	(*)Se analizarán los fundamentos básicos de los apr			
description				
	así como sus rendimientos, costes y normas de seg	uridad.		
	En la enseñanza de la materia, tres aspectos son fui en la enseñanza de la ciencia forestal: intuición, rigo problemas que se quiere atacar (a través de ejempl historia del problema) y en definitiva genera un inte despoja de lo accesorio hasta desentrañar lo esenci la transmisión de conocimientos técnicos. La creacio antes tenga un contacto forestal y más aprenda de asignatura.	or y creación. La int os), crea una persp erés. El segundo niv al. El rigor necesita ón permite construi	uición ubica al a ectiva (a menuc el formaliza tod de la abstraccio r soluciones pro	alumno en el tipo de lo a través de la propia as esas intuiciones y las ón y es fundamental en pias, prácticas, cuanto

### Competencies

Cod	le
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.
B6	Ability to measure, inventory and evaluate forest resources, apply and develop silvicultural techniques and

B6 Ability to measure, inventory and evaluate forest resources, apply and develop silvicultural techniques and management of all types of forest systems, parks and recreational areas, as well as techniques for harvesting timber and non-timber forest products

C23 Ability to know, understand and use the principles of forest exploitation and supply of raw materials in the forest industry.

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

2R. 2018 Knowledge and understanding of the disciplines of engineering of the his speciality, to	B1	C23
the necessary level to purchase the rest of the competitions of the qualifications, including notions	B6	
of the last advances.		

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.

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.

9R. 2018 Capacity to consult and apply codes of good practices and security of the his speciality. 11R. 2018 Understanding of the techniques and methods of analysis, project and applicable investigation and his limitations within the scope of the his speciality.

12R. 2018 practical Competition to resolve complex problems, realize complex projects of engineering and realize specific investigations stop his speciality.

13R. 2018 Knowledge of the application of materials, teams and tools, technological processes and of engineering and his limitations within the scope of the 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

Торіс	
General information on forestry and its market i	n Definition and types of use
the world	The Forest Products Market
	The demanada and the companies
	The supply of forest products in the world
Marketing of wood	Main procedures for the sale and sale of wood
-	Auction and drafting
Techniques, means and procedures of logging	Wood felling and processing
	Manual tools
	The chainsaw and other portable machines
	Automotive Fodder and Processing Machinery
	Waste treatment machinery (chippers and balers)
	Pull out of the wood (skider and autoloader)
	Adapted agricultural tractor
	Unblocking cables, helicopter and other methods
	Transport of wood (river, rail, sea and land)
	Parks for wood storage
Timber harvesting planning	Factors influencing planning
	Main systems of exploitation
	Organization of the uses
	Control systems in the harvests
Prevention of occupational hazards in forestry	The risk assessment
	Loss in the forestry sector
The environmental impact of harvesting	Main impacts of forestry activity
	Methodological guide
The use of bark	Cork Ecology
	The cork market
The use of resins	The use of resins
	The resin market

Class hours	Hours outside the	Total hours
26	63	89
3	11	14
		classroom

Case studies	6	12	18	
Studies excursion	10	18	28	
Problem and/or exercise solving	1	0	1	

\*The information in the planning table is for guidance only and does not take into account the heterogeneity of the students.

Methodologies	
	Description
Lecturing	Presentation by the teacher of the contents on the subject under study, theoretical and / or guidelines for a job, exercise or project to be developed by the student.
Problem solving	Activity which formulated problem and / or exercises related to the course. The student should develop appropriate solutions or right through the exercise routines, application of formulas or algorithms, application processing procedures available information and interpretation of the results. It is often used to complement the lecture.
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.
Studies excursion	Activities application of knowledge to specific situations and basic skills acquisition and related procedural matter under study. They thrive in nonacademic outdoor spaces. Among them we can cite practical field visits to events, research centers, companies, institutions academic-professional interest to the student.

Personalized assistance			
Methodologies	Description		
Problem solving	It is a question of performing a practical work corresponding to a gap in the topics included in the agenda and publicly presenting said work.		
Studies excursion It is a series of practical visits to facilities and mountains			

Assessment			
	Description	Qualification	Training and Learning Results
Lecturing	(*)Asistencia e desempeño dedicado ás clases da materia. Se *evaluan as competencias básicas *CB1 e *CB2, as xerais *CG8, *CG18, *CG23, *CG38, *CG39, *CG40 e *CG41, a específicas CE23 (CE 23.1 a 23.10) e as transversais *CB11, *CB12, *CB14, *CB15, *CB16, *CB17, *CBP4, *CBS1, *CBS7.	10	
Case studies	(*)Resolución dun suposto práctico de planificación que o alumno deberá realizar e entregar Se *evaluan as competencias básicas *CB1 e *CB2, as xerais *CG8, *CG18, *CG23, *CG38, *CG39, *CG40 e *CG41, a específicas CE23 (CE 23.1 a 23.10) e as transversais *CB11, *CB12, *CB14, *CB15, *CB16, *CB17, *CBP4, *CBS1, *CBS7.	20	D5 D6
Studies excursion	(*)Asistencia ás saídas e práctica de campo organizadas.	10	
	r (*)Resposta a preguntas relacionadas co temario g Se *evaluan as competencias básicas *CB1 e *CB2, as xerais *CG8, *CG18, *CG23, *CG38, *CG39, *CG40 e *CG41, a específicas CE23 (CE 23.1 a 23.10) e as transversais *CB11, *CB12, *CB14, *CB15, *CB16, *CB17, *CBP4, *CBS1, *CBS7.	60	D6

#### Other comments on the Evaluation

Sources of information **Basic Bibliography Complementary Bibliography** TOLOSANA, E. et al, El aprovechamiento maderero, Ediciones Mundi-Prensa, DALLA-PRIA, E et al, Manuel d'exploitation forestière. Tome I.et II, CTBA y ARMEF, MONTOYA, J. M., Los alcornocales, M.A.P.A. Madrid, ZAMORANO, J. L, Resinar de forma rentable, I.N.I.A. Madrid, ACEMM, Manual de prevención de riesgos laborales en el sector forestal, Fundación para la prevención de riesgos laborales. Gobierno de Cantabria, AAEF, Manual de prevención de riesgos laborales en el sector forestal, Junta de Andalucía,

Recommendations Subjects that continue the syllabus

# Subjects that are recommended to be taken simultaneously

Dasometry/P03G370V01602

# Subjects that it is recommended to have taken before Forestry/P03G370V01401