



IDENTIFYING DATA

Forest exploitation

Subject	Forest exploitation			
Code	P03G370V01601			
Study programme	(*)Grao en 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 description	(*)Se analizarán los fundamentos básicos de los aprovechamientos forestales madereros para aprender su planificación básica. Asimismo se estudiarán los principales sistemas de aprovechamiento usados en Galicia así como sus rendimientos, costes y normas de seguridad.			

En la enseñanza de la materia, tres aspectos son fundamentales a desarrollar, según nuestro punto de vista, en la enseñanza de la ciencia forestal: intuición, rigor y creación. La intuición ubica al alumno en el tipo de problemas que se quiere atacar (a través de ejemplos), crea una perspectiva (a menudo a través de la propia historia del problema) y en definitiva genera un interés. El segundo nivel formaliza todas esas intuiciones y las despoja de lo accesorio hasta desentrañar lo esencial. El rigor necesita de la abstracción y es fundamental en la transmisión de conocimientos técnicos. La creación permite construir soluciones propias, prácticas, cuanto antes tenga un contacto forestal y más aprenda de ello, más motivado va a continuar el estudio de la asignatura.

Competencies

Code	
A1	(*)Que os estudantes posúan e comprendan coñecementos que aporten unha base ou oportunidade de ser orixinal no desenvolvemento e / ou aplicación de ideas, a miúdo nun contexto de investigación
A2	Que los estudiantes sepan aplicar conocimientos adquiridos y su capacidad de resolución de problemas en entornos nuevos o poco conocidos dentro de contextos más amplios (o multidisciplinares) relacionados con su área de estudio
B8	CG-08: Capacidade para identificar os diferentes elementos: recursos naturais renovables susceptibles de protección, conservación e aproveitamento.
B23	CG-23: Capacidade para aplicar e desenvolver as técnicas de aproveitamento de produtos forestais madeirables e non madeirables.
C23	(*)CE-23: Capacidade para coñecer, comprender e utilizar os principios de: aproveitamentos forestais. Mellora forestal.
D1	(*)CBI 1: Capacidade de análise e síntese.
D2	(*)CBI 2: Capacidade de organización e planificación.
D5	(*)CBI 5: Capacidade de xestión da información.
D6	(*)CBI 6: Adquirir capacidade de resolución de problemas.
D7	(*)CBI 7: Adquirir capacidade na toma de decisións.
D11	(*)CBP 4: Habilidades de razoamento crítico.
D13	(*)CBS 1: Aprendizaxe autónoma.
D19	(*)CBS 7: Motivación pola calidade.
D20	(*)CBS 8: Sensibilidade cara a temas ambientais.

Learning outcomes

Expected results from this subject	Training and Learning Results
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(*)CE-23.1

A1
A2

B8
B23

C23

D1
D2
D5
D6
D7
D11
D13
D19
D20

New

Contents

Topic

General information on forestry and its market in the world	Definition and types of use The Forest Products Market The demand 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

Planning

	Class hours	Hours outside the classroom	Total hours
Master Session	26	63	89
Troubleshooting and / or exercises	3	11	14
Case studies / analysis of situations	6	12	18
Outdoor study / field practices	10	18	28
Short answer tests	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
Master Session	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.
Troubleshooting and / or exercises	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 situations	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.

Outdoor study / field practices	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.
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Personalized attention

Methodologies	Description
Troubleshooting and / or exercises	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.
Outdoor study / field practices	It is a series of practical visits to facilities and mountains

Assessment

	Description	Qualification	Training and Learning Results
Master Session	(*)Asistencia e desempeño dedicado ás clases da materia. Se *evalúan 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 *CBI1, *CBI2, *CBI4, *CBI5, *CBI6, *CBI7, *CBP4, *CBS1, *CBS7.	10	D1 D2 D13 D19
Case studies / analysis of situations	(*)Resolución dun suposto práctico de planificación que o alumno deberá realizar e entregar Se *evalúan 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 *CBI1, *CBI2, *CBI4, *CBI5, *CBI6, *CBI7, *CBP4, *CBS1, *CBS7.	20	D1 D2 D5 D6 D7 D11 D13 D19
Outdoor study / field practices	(*)Asistencia ás saídas e práctica de campo organizadas.	10	
Short answer tests	(*)Resposta a preguntas relacionadas co temario Se *evalúan 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 *CBI1, *CBI2, *CBI4, *CBI5, *CBI6, *CBI7, *CBP4, *CBS1, *CBS7.	60	D1 D6 D7 D11 D13

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,
MONTROYA, J. M., **Los alcornoques**, 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

Forestry machinery/P03G370V01502

Subjects that are recommended to be taken simultaneously

Dasometry/P03G370V01602

Subjects that it is recommended to have taken before

Forestry/P03G370V01401