



IDENTIFYING DATA

Wood preservation and drying technology

Subject	Wood preservation and drying technology			
Code	P03G370V01705			
Study programme	(*)Grao en Enxeñaría Forestal			
Descriptors	ECTS Credits	Choose	Year	Quadmester
	6	Optional	4th	1st
Teaching language				
Department				
Coordinator	González Prieto, Óscar			
Lecturers	González Prieto, Óscar			
E-mail	oscargprieto@uvigo.es			
Web	http://www.forestales.uvigo.es			
General description	(*)Asignatura que trata las dos tecnologías básicas para el uso industrial de la madera			

Competencies

Code	
B32	CG-32: Capacidade para caracterizar as propiedades anatómicas e tecnolóxicas das materias primas forestais madeirables así como das tecnoloxías e industrias destas materias primas.
C31	(*)CE-31: Coñecementos para o cálculo e deseño de instalacións de carpintería. Secado, descortizado e trituración da madeira.
D1	(*)CBI 1: Capacidade de análise e síntese.
D2	(*)CBI 2: Capacidade de organización e planificación.
D6	(*)CBI 6: Adquirir capacidade de resolución de problemas.

Learning outcomes

Expected results from this subject	Training and Learning Results		
(*)Conocimientos para el cálculo y diseño de instalaciones de secado y tratamiento d ela madera	B32	C31	D1 D2 D6

New

Contents

Topic	
Wood drying technology	Physical principles of drying Natural drying Artificial drying Phases of artificial drying Predecaderos Drying tunnels Drying Chambers Drying of wood by special methods Defects caused by drying Programming of drying processes Design of dryers

Technology of wood conservation Pathologies of wood	Natural wood durability and impregnability Types of wood use Protective products and application systems Protector application systems Treatments of wood different from the use of chemicals Wood treatment - sawmills, joinery and carpentry Technical report on pathology Constructive measures for the protection of wood Reinforcement of wooden structures
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Planning

	Class hours	Hours outside the classroom	Total hours
Master Session	28	80	108
Troubleshooting and / or exercises	8	18	26
Outdoor study / field practices	4	6	10
Laboratory practises	2	0	2
Introductory activities	1	0	1
Short answer tests	2	0	2
Troubleshooting and / or exercises	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	Exposition of objectives and contents and relevance of the same within the set of competences of the subject
Troubleshooting and / or exercises	Type and oral presentation problem solving seminars
Outdoor study / field practices	Explanation "in situ" of industrial processes of drying and conservation of wood
Laboratory practises	Explanation of the handling of dryers
Introductory activities	Presentation of the objectives and development of the subject

Personalized attention

Methodologies	Description
Troubleshooting and / or exercises	
Laboratory practises	

Assessment

	Description	Qualification	Training and Learning Results		
Master Session	(*) Evaluación continua a través de la asistencia a las sesiones impartidas	20	B32	C31	D1
Troubleshooting and / or exercises	(*) Evaluación continua a través de la asistencia a las clases prácticas impartidas	10	B32	C31	D2 D6
Outdoor study / field practices	(*) Presentación de una memoria de las visitas realizadas	5	B32		D1 D2 D6
Short answer tests	(*)Evaluación de la prueba de evaluación sobre los contenidos teóricos de la asignatura	45	B32	C31	
Troubleshooting and / or exercises	(*)Evaluación de las pruebas de realización de ejercicios	20	B32	C31	D1 D2 D6

Other comments on the Evaluation

Sources of information

Basic Bibliography

Complementary Bibliography

Recommendations

Subjects that continue the syllabus

Quality control and prevention of occupational hazards in the forestry industry/P03G370V01804

Subjects that are recommended to be taken simultaneously

Primary wood processing industries/P03G370V01706

Product development and innovation in the wood industry/P03G370V01708

Industrial organisation and processes in the wood industry/P03G370V01707

Subjects that it is recommended to have taken before

Wood technology/P03G370V01606
