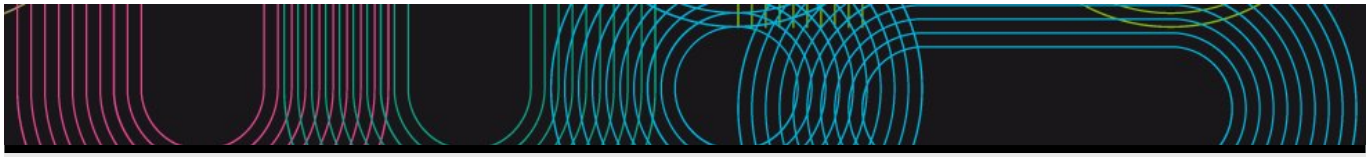

IDENTIFYING DATA				
Wood preservation and drying technology				
Subject	Wood preservation and drying technology			
Code	P03G370V01705			
Study programme	(*)Grao en Enxeñaría Forestal			
Descriptors	ECTS Credits	Choose	Year	Quadmester
	6	Optional	4th	1st
Teaching language	Spanish Galician			
Department	Natural Resources and Environment Engineering			
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	
B11	Ability to characterize the anatomical and technological properties of wood and non-timber forest raw materials, as well as the technologies and industries of these raw materials.
C31	Knowledge for the calculation and design of carpentry facilities. Drying, debarking and crushing of wood.
D5	Capacity for information management, analysis and synthesis
D6	Organization and planning capacity
D8	Ability to solve problems, critical reasoning and decision making

Learning outcomes			
Expected results from this subject	Training and Learning Results		
New	B11	C31	D5 D6 D8

Contents	
Topic	
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

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

Planning			
	Class hours	Hours outside the classroom	Total hours
Lecturing	28	80	108
Problem solving	8	18	26
Studies excursion	4	6	10
Laboratory practices	2	0	2
Introductory activities	1	0	1
Short answer tests	2	0	2
Problem 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	Exposition of objectives and contents and relevance of the same within the set of competences of the subject
Problem solving	Type and oral presentation problem solving seminars
Studies excursion	Explanation "in situ" of industrial processes of drying and conservation of wood
Laboratory practices	Explanation of the handling of dryers
Introductory activities	Presentation of the objectives and development of the subject

Personalized attention	
Methodologies	**Description**
Problem solving	
Laboratory practices	

Assessment			
	Description	Qualification	Training and Learning Results
Lecturing	(*)Evaluación continua a través de la asistencia a las sesiones impartidas	10	
Problem solving	(*)Evaluación continua a través de la asistencia a las clases prácticas impartidas	10	
Studies excursion	(*)Presentación de una memoria de las visitas realizadas	5	
Short answer tests	(*)Evaluación de la prueba de evaluación sobre los contenidos teóricos de la asignatura	55	
Problem solving	(*)Evaluación de las pruebas de realización de ejercicios	20	

Other comments on the Evaluation

Sources of information

Basic Bibliography

Complementary Bibliography

Oscar González-Prieto, **Patoloxía da Madeira Estrutural**, Xunta,

F. Arriaga, **Intervención en estructuras de madera**, AITIM,

Fernando Peraza, **Protección Preventiva de la Madera**, AITIM,

J.I. Fernández-Golfín Seco, **Manual de secado de La Madera**, AITIM,

León M. Fiske, **Manual del Secado de Maderas**, Muni Prensa,

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
Industrial organisation and processes in the wood industry/P03G370V01707

Subjects that it is recommended to have taken before

Wood technology/P03G370V01606