



IDENTIFYING DATA

Wood technology

Subject	Wood technology			
Code	P03G370V01606			
Study programme	(*)Grao en Enxeñaría Forestal			
Descriptors	ECTS Credits	Choose	Year	Quadmester
	6	Optional	3rd	2nd
Teaching language				
Department				
Coordinator	Bartolome Mier, Javier			
Lecturers	Bartolome Mier, Javier			
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General description	*Asignatura In which it studies the wood like industrial prime matter, his characteristics and properties			

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.
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
Capacity to relate the principles of anatomical structure intern and properties of the wood with his potentiality for the supply to the forest industry	B32 D19 D20
New	

Contents

Topic	
Macroscopic structure of the wood	Albura, heartwood, marrow longitudinal and radial Fabrics Growth in rings Anisotropy of the wood Texture, grain and design
Microscopic structure of the wood	Microscopic structure of the wood of coniferous microscopic Structure of the wood of leafy
Structure submicroscopic	Submicroscopic structure Chemical composition of the wood
Anomalies and defects of the wood	Knots juvenile Wood Anomalies of the growth of the layer cambial Fends Wood of reaction internal Tensions of growth Stock exchanges of resin Other defects of the wood
Properties of the wood	Physical properties of the wood mechanical Properties of the wood
Industrial classification of the wood in roll	Classification in function of the characteristics of the wood and his aptitude for the different industrial applications

Planning			
	Class hours	Hours outside the classroom	Total hours
Master Session	29	72	101
Laboratory practises	10	20	30
Outdoor study / field practices	4	8	12
Introductory activities	1	0	1
Short answer tests	2	0	2
Reports / memories of practice	0	4	4

*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	Exhibition of aims and contents and importance of the same inside the group of competitions of the subject.
Laboratory practises	Realisation and individual presentation and in groups of works of laboratory
Outdoor study / field practices	Explanation in situ of industrial and technical processes of laboratory
Introductory activities	Initial explanation of the aims and development of the subject.

Personalized attention	
Methodologies	Description
Laboratory practises	

Assessment				
	Description	Qualification	Training and Learning Results	
Master Session	Continuous evaluation through the assistance to the classes of classroom	20	B32	
Laboratory practises	Continuous evaluation through the assistance to the practices of laboratory	5	B32	D19 D20
Short answer tests	Realisation of partial proofs and finals	70	B32	
Reports / memories of practice	Realisation and presentation of the memories of the practices of laboratory	5	B32	D19 D20

Other comments on the Evaluation

Sources of information	
Basic Bibliography	
Complementary Bibliography	

Recommendations	
Subjects that continue the syllabus	
Primary wood processing industries/P03G370V01706	
Wood preservation and drying technology/P03G370V01705	

Subjects that it is recommended to have taken before	
Physics: Physics I/P03G370V01102	
Physics: Physics II/P03G370V01202	
Botany/P03G370V01303	