



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	Spanish Galician			
Department				
Coordinator	González Prieto, Óscar			
Lecturers	González Prieto, Óscar			
E-mail	oscargprieto@uvigo.es			
Web	http://www.forestales.uvigo.es			
General description	*Asignatura In which it studies the wood like industrial prime matter, his characteristics and properties			

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.
C28	Ability to know, understand and use the principles of: internal anatomical structure and macroscopic properties of wood.
D4	Sustainability and environmental commitment

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 the necessary level to purchase the rest of the competitions of the qualifications, including notions of the last advances.	B11	C28	D4
3R. 2018 Be conscious of the multidisciplinary context of the engineering.			
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.			
8R. 2018 Capacity to realize bibliographic researches, consult and use databases and other sources of information with discretion, to realize @simulación and analysis with the objective to realize investigations on technical subjects of the his speciality.			
9R. 2018 Capacity to consult and apply codes of good practices and security of the 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.			
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			

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
Lecturing	29	72	101
Laboratory practical	10	20	30
Studies excursion	4	8	12
Introductory activities	1	0	1
Problem and/or exercise solving	2	0	2
Practices report	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
Lecturing	Exhibition of aims and contents and importance of the same inside the group of competitions of the subject.
Laboratory practical	Realisation and individual presentation and in groups of works of laboratory
Studies excursion	Explanation in situ of industrial and technical processes of laboratory
Introductory activities	Initial explanation of the aims and development of the subject.

Personalized assistance

Methodologies	Description
Laboratory practical	

Assessment

	Description	Qualification	Training and Learning Results
Lecturing	Continuous evaluation through the assistance to the classes of classroom	20	
Laboratory practical	Continuous evaluation through the assistance to the practices of laboratory	5	
Problem and/or exercise solving	Realisation of partial proofs and finals	70	
Practices report	Realisation and presentation of the memories of the practices of laboratory	5	

Other comments on the Evaluation

Exam calendar:

First Call: June 3, 2020, 4:00 p.m.

Second Call: June 6, 2020, 12:00 a.m.

Publication of notes by official methods.

Sources of information

Basic Bibliography**Complementary Bibliography**

Santiago Vignote Peña, **TECNOLOGIA DE LA MADERA (3ª ED.)**, Muni Prensa,

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
