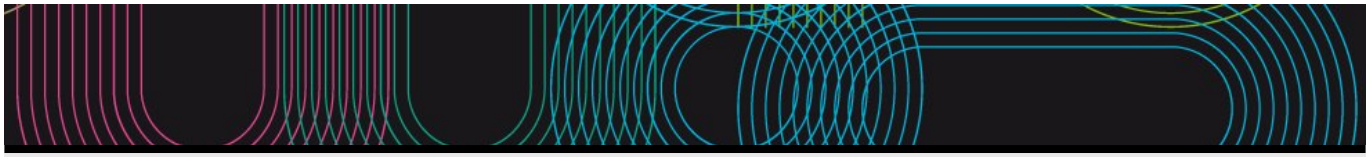

IDENTIFYING DATA				
Wood technology				
Subject	Wood technology			
Code	P03G370V01606			
Study programme	(*)Grao en Enxeñaría Forestal			
Descriptors	ECTS Credits	Choose	Year	Quadmester
	6	Optional	3rd	2nd
Teaching language	Spanish Galician			
Department				
Coordinator	González Prieto, Óscar			
Lecturers	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			

Skills	
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. 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	B11	C28	D4

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	30	66	96
Laboratory practical	10	20	30
Studies excursion	7	8	15
Introductory activities	1	0	1
Problem and/or exercise solving	4	0	4
Report of practices, practicum and external practices	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	Delivery by heart individual or in group of practices made. In case of teaching no face-to-face or *semi-face-to-face, memory of audiovisual material worked.
Studies excursion	Explanation in situ of industrial and technical processes of laboratory. Presentation of a memory of the visits made. In the case of teaching no face-to-face or *semi-face-to-face, will evaluate memory elaborated employing audiovisual material of processes of manufacture of industries of the wood (videos and digital information).
Introductory activities	Initial explanation of the aims and development of the subject

Personalized assistance

Methodologies	Description
Laboratory practical	The *tutorías will make preferably by telematic means (email, remotecampus, forums of doubts in *FaiTIC). For that student or student that request it will be able to make , inthe measure of the possible, *presencialmente. They will indicate to beginning of course the concrete forms ofcommunication as well as the schedules.

Assessment

	Description	Qualification	Training and Learning Results
Lecturing	Continuous evaluation through the assistance to the classes of classroom. In case of teaching no face-to-face or *semi-face-to-face, will value the active participation in the debate that pose in the classroom/remote campus on the theoretical concepts. Also it will value the participation in the forums that enable in the platform *FaiTIC	20	
Laboratory practical	Continuous evaluation through the assistance to the practices of laboratory. In case of teaching no face-to-face or *semi-face-to-face, will value the active participation in the debate that pose in the classroom/remote campus on the theoretical concepts. Also it will value the participation in the forums that enable in the platform *FaiTIC .	5	

Problem and/or exercise solving	Realisation of partial proofs and finals. Proofs written on the theoretical and practical contents of the subject. Some proofs will be scheduled along the course and will be delivered through the platform of *Teledocencia.	70
Report of practices, practicum and external practices	Realisation and presentation of the memories of the practices of laboratory. In the case of teaching no face-to-face or *semi-face-to-face, will value memories of audiovisual material with which work .	5

Other comments on the Evaluation

Calendar of examinations:

according to official information of the School.&*nbsp;http://forestales.uvigo.es/gl/docencia/exames/

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

Other comments

Eligible subject for dual training projects as established by the memory of the degree.

Contingency plan

Description

=== EXCEPTIONAL MEASURES SCHEDULED ===
In front of the uncertain and unpredictable evolution of the sanitary alert caused by the *COVID-19, the University of Vigo establishes an extraordinary planning that will activate in the moment in that the administrations and the own institution determine it attending to criteria of security, health and responsibility, and guaranteeing the teaching in a no face-to-face stage or partially face-to-face. These already scheduled measures guarantee, in the moment that was prescriptive, the development of the teaching of a more agile and effective way when being known in advance (or with a wide *antelación) by the students and the *profesorado through the tool normalised and institutionalised of the educational guides.

* Educational methodologies that keep
introductory Activities
Lesson *magistral
Resolution of problems
Work *tutelado
* educational Methodologies that modify
The exit of practices scheduled will not make in the case of teaching no face-to-face or in the case that it do not allow with teaching *semi-face-to-face. *substituirá By practical observation of audiovisual material of processes of manufacture of industries of the wood (videos and digital information)
* Mechanism no face-to-face of attention to the students (*tutorías)
virtual Dispatch, email and habilitation of forums in the platform *FaiTIC
* Modifications (if they proceed) of the contents to give
The exit of practices scheduled will not make in the case of teaching no face-to-face or in the case that it do not allow with teaching *semi-face-to-face. *substituirá By practical observation of audiovisual material of processes of manufacture of industries of the wood (videos and digital information)
* additional Bibliography to facilitate the car-learning
is not necessary, since they facilitate it to him materials in the platform of *teledocencia, many of them of own preparation by part of the professors, to be able to make a follow-up of the matter
* Other modifications

is not necessary
=== ADAPTATION OF THE EVALUATION ===
* Test already made
keeps the weight when being adapted all the proofs to any circumstance
* Test slopes that keep
keeps the weight when being adapted all the proofs to any circumstance
* Test that they modify
is not necessary
* New proofs
is not necessary
* additional Information
does not require