# Universida<sub>de</sub>Vigo

Subject Guide 2021 / 2022

IDENTIFYIN	G DATA				
Wood prese	ervation and drying technol	logy			
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					
Coordinator	González Prieto, Óscar				
Lecturers	González Prieto, Óscar				
E-mail	oscargprieto@uvigo.es				
Web	http://www.forestales.uvigo.e				
General description	(*)Asignatura que trata las d	os tecnologías básicas	para el uso indus	trial de la mader	ra

# 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.
- 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

2R. 2018 Knowledge and understanding of the disciplines of engineering of the his speciality, to B11 C31 D5 the necessary level to purchase the rest of the competitions of the qualifications, including notions D6 of the last advances.

4R. 2018 Capacity to #analyze products, processes and complex systems in the his field of study; choose and apply analytical methods, of calculation and experimental \*relevantes of form \*relevante and interpret correctly the results of these analyses.

5R. 2018 Capacity to identify, formulate and resolve problems of engineering in the his speciality; choose and apply analytical methods, of calculation and experiments properly established; Recognize the importance of the social restrictions, of health and security, environmental, economic and industrial.

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. 10R. 2018 Capacity and capacity to project and realize experimental investigations, interpret results and obtain conclusions in the his field of study.

11R. 2018 Understanding of the techniques and methods of analysis, project and applicable investigation and his limitations within the scope of the his speciality.

12R. 2018 practical Competition to resolve complex problems, realize complex projects of engineering and realize specific investigations stop 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.

15R. 2018 Knowledge of the social implications, of health and security, environmental, economic and @industrial of the practice in engineering.

16R. 2018 general Ideas on economic questions, organisational and of management (how management of projects, management of risks and change) in the industrial and entrepreneurial context.

18R. 2018 Capacity to manage activities or technical projects or complex professionals of the his speciality, assuming the responsibility of the takes of decisions.

Topic	
Technology of the conservation of the wood	Introduction: Pathologies of the wood natural Durability of the wood and *impregnabilidad Classes of use: *CU 1, *CU 2, *CU3, *CU4 and *CU5 protective Products and systems of application Wood modified: processes and products Systems of application of protective Treatments of the different wood to the employment of chemical product technical Report on pathology
	Measured of constructive design for the protection of the wood Reinforcements of wooden structures
Technology of the dried of the wood	Introduction: physical Principles of the dried Dried natural Dried artificial Phases of the dried artificial *Presecaderos Tunnels of dried Cameras of dried Dried of the wood by special methods Defects originated in the dried Programming and design of *secaderos

Planning			
	Class hours	Hours outside the classroom	Total hours
Lecturing	16	69	85
Problem solving	8	18	26
Studies excursion	10	6	16
Laboratory practical	15	5	20

Introductory activities	1	0	1	
Problem and/or exercise solving	1	0	1	
Problem and/or exercise solving	1	0	1	

<sup>\*</sup>The information in the planning table is for guidance only and does not take into account the heterogeneity of the students.

Methodologies	
	Description
Lecturing	Lesson *magistral. Exhibition of aims and contents and importance of the same inside the group of
	competitions of the subject
Problem solving	Seminars of resolution of problems type and oral presentation
Studies excursion	Explanation "in situ" of industrial processes of dried and conservation of wood. In the case of
	teaching no face-to-face or *semi-face-to-face, without possibility to make exits of study, will
	evaluate memory of analysis of digital didactic material
Laboratory practical	Explanation of the handle of *secaderos. In the case of teaching no face-to-face or *semi-face-to-
	face, will make memory of audiovisual material employee.
Introductory activities	Presentation of the aims and development of the subject

Personalized assistance		
Methodologies	Description	
Problem solving	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.	
Laboratory practica	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		10	
	Continuous evaluation through the assistance to the sessions given. 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		
Problem solving		10	
	Continuous evaluation through the assistance to the practical classes given. 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. Some proofs will be scheduled along the course and will be delivered through		
Ctudios avauraian	the platform of *Teledocencia		
Studies excursion	Presentation of a memory of the visits made. In the case of teaching no face-to- face or *semi-face-to-face, without possibility to make exits of study, will evaluate memory of analysis of digital didactic material	Э	
Problem and/or exercise solving	Evaluation of the proof of evaluation on the theoretical contents of the subject	55	
Problem and/or exercise solving	Evaluation of the proofs of realisation of exercises	20	

# Other comments on the Evaluation

Information detailed of examinations in to official web of the School. The here contemplated dates, can suffer modifications in the official web. It recommends check&\*nbsp;the official dates.&\*nbsp;

&\*nbsp;General:&\*nbsp;http://forestales.uvigo.es/gl/docencia/exames/Specific:&\*nbsp;http://forestales.uvigo.es/images/docs/docencia/exames/exames\_gef\_1c\_2020-21.pdf1º Announcement: 13/01/2021 - 16:00 \*h.&\*nbsp;2º Announcement: 30/06/2021 - 16:00 \*h.The dates of delivery of the distinct activities will be communicated with sufficient \*antelación so that the&\*nbsp;students can schedule his realisation.

### 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

### 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.

## === ADAPTATION OF THE METHODOLOGIES ===

\* educational Methodologies that keep

introductory Activities Lesson \*magistral Resolution of problems

\* educational Methodologies that modify

No necessary

\* 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 No necessary

modifications
=== 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
No necessary
* New proofs

No necessary

No precise

\* additional Information