Universida_{de}Vigo

Subject Guide 2023 / 2024

IDENTIFYIN	G DATA			
	ervation and drying technology			
Subject	Wood preservation and drying technology			
Code	P03G370V01705			
Study programme	Grado en Ingeniería Forestal			
Descriptors	ECTS Credits	Choose	Year	Quadmester
	6	Optional	4th	1st
Teaching	Spanish			
language	Galician			
Department				
Coordinator	González Prieto, Óscar			
Lecturers	González Prieto, Óscar			
E-mail	oscargprieto@uvigo.es			
Web	http://www.forestales.uvigo.es			
General	Topics in relation with wood (timber and wood deriva	ates) conservatio	n and protection	n, as well as the industrial

Training and Learning Results

drying process.

Code

description

- 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

Expected results from this subject		
Expected results from this subject		ind Learning
	Re	sults
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	B11	
Knowledge for the calculation and design of carpentry facilities. Drying, debarking and crushing of	C3	31
wood.		
Capacity for information management, analysis and synthesis	-	D5
Organization and planning capacity		D6
Ability to solve problems, critical reasoning and decision making		D8

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
Laboratory practical	8	18	26
Studies excursion	10	6	16
Problem solving	14	5	19
Introductory activities	1	0	1
Collaborative Learning	1	0	1
Objective questions exam	1	0	1
Problem and/or exercise 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	Lesson *magistral. Exhibition of aims and contents and importance of the same inside the group of
	competitions of the subject
Laboratory practical	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
Problem solving	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
Collaborative Learning	The tutorials will be carried out both in person or by telematic means (email, remote campus, doubt
	forums, Moovi). For those students who request it, they can be carried out, to the extent possible,
	outside the indicated hours. Both the hours and the place of the tutorials will be indicated at the
	beginning of the course through the officially established channels.

Personalized assistance		
Methodologies	Description	
Collaborative Learning	The tutoships will be carried out preferably by telematic means (email, remote campus, question forums in Moovi). For those students who request it, they may be held, as far as possible, outside the established time and place. The specific forms of communication as well as the schedules will be indicated at the beginning of the course.	

Assessment	Description	Ouglification	Т.,	a in in a	d
	Description	Qualification		aining	
			Lear	ning R	esuits
Lecturing		5	B11	C31	D5
	Continuous evaluation through the assistance to the sessions. Active				D6
	participation in the debate in the classroom/remote campus on				D8
	the theoretical concepts. Also it will value the participation in the				
	forums that enable				
	in the platform Moovi				
Laboratory practical	Continuous evaluation through the assistance to the practical classes.	. 10	B11	C31	D5
, ,	Active participation in the debate in the classroom/remote campus on				D8
	the theoretical concepts. Also it will value the participation in the				
	forums that enable in the platform Moovi. Some test will be scheduled	i			
	along the course and will be delivered through the platform Moovi	•			
Ctudios overreion					DE
Studies excursion	Presentation of a memory of the visits to the real industry.	5			D5
					D6
					D8

Problem solving	Memory of practical activities	10	B11	C31	D5 D6 D8
Objective questions exam	Evaluation of the proof of evaluation on the theoretical contents of the subject	40	B11	C31	D5 D6 D8
Problem and/or exercise solving	Evaluation with a practical test	30	B11	C31	D5 D6 D8

Other comments on the Evaluation

Exam calendar: according to official information from the Forest Engineering School (check the official website for updated information)

Evaluation in continuous evaluation modality; Master class: 5%, Laboratory Practices: 10%, Theoretical and practical content exam: 40% + 30 %, Exterior visit + memory: 5%, Memory of practical activities: 10 %.

Evaluation in global evaluation modality; Theoretical content exam: 40%, Theoretical/practical content exam: 40%; Alternate memory: 20%.

Sources of information Basic Bibliography Complementary Bibliography Oscar González-Prieto, Patoloxía da Madeira Estrutural, 978-84-691-6284-2, Xunta, 2008 F. Arriaga, Intervención en estructuras de madera, 978-84-8738-12-49, AITIM, 2003 Fernando Peraza, Protección Preventiva de la Madera, 978-84-8738-12-25, AITIM, 2002 J.I. Fernández-Golfín Seco, Manual de secado de La Madera, 978-84-8738-13-79, AITIM, 2007 León M. Fiske, Manual del Secado de Maderas, Muni Prensa, 1967

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.