



IDENTIFYING DATA

Primary wood processing industries

Subject	Primary wood processing industries			
Code	P03G370V01706			
Study programme	Grado en Ingeniería Forestal			
Descriptors	ECTS Credits	Choose	Year	Quadmester
	6	Optional	4th	1st
Teaching language	Spanish Galician			
Department				
Coordinator	González Prieto, Óscar			
Lecturers	Bartolome Mier, Javier González Prieto, Óscar			
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Web	http://www.forestaes.uvigo.es			
General description	Study of the manufacturing technologies of two basic products of forest origin (first transformation): sawn wood and boards production			

Training and Learning Results

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.
B12	Capacity for organization and planning of companies and other institutions, with knowledge of the legislative provisions that affect them and the fundamentals of marketing and marketing of forest products.
C29	Ability to know, understand and use the basic principles of the processes of first transformation of wood and the principles of: non-wood forest raw materials; industrial processes of non-wood products: cork, resin, essential oils.
D4	Sustainability and environmental commitment
D8	Ability to solve problems, critical reasoning and decision making

Expected results from this subject

Expected results from this subject	Training and Learning Results
New	B11
New	B12
New	C29
New	D4
New	D8

Contents

Topic	
Introduction to the subject.	Presentation of the sector of first transformation of the wood in Galicia, Spain and Europe
Technology of the sawed of the wood	Wooden section in roll Section of court of the trunk Section of manipulation of the wood sawed Machinery of sawed Systems of sawed of the wood Lines of processed
The cut of the wood	Characteristics of the tool Preparation and conservation of tools of court Parameters of court Definition of the tool of court

Manufacture of wooden sheet to the flat	Definition and use of the wooden sheet to the flat Process of manufacture of the wooden sheet to the flat
Manufacture of boards plywoods	Definition, properties and types of board plywood Process of manufacture of the board plywood
Manufacture of boards of particles and wooden fibres	Boards of particles. Properties, uses and process of manufacture Boards of hard fibre. Properties, uses and process of manufacture Boards of fibre of half density. Properties, uses and process of manufacture
Properties and employment of the main wooden species of industrial use	Physical characteristics, mechanical and applications of the main wooden species of conifers, leafy and tropical

Planning

	Class hours	Hours outside the classroom	Total hours
Lecturing	35	87	122
Studies excursion	4	2	6
Laboratory practical	16	0	16
Introductory activities	1	0	1
Collaborative Learning	1	0	1
Problem and/or exercise solving	1	0	1
Report of practices, practicum and external practices	0	2	2
Essay questions exam	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	Exhibition of aims and contents and importance of the same inside the group of the competitions of the subject
Studies excursion	Explanation "in situ" of industrial processes in factories of first transformation of the wood
Laboratory practical	Macroscopic recognition of commercial wooden species in Spain
Introductory activities	Exhibition 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 tutorships 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 official channels.

Assessment

	Description	Qualification	Training and Learning Results		
Lecturing	Continuous evaluation through the assistance to the classes of classroom	10	B11 B12	C29	D4 D8
Laboratory practical	Macroscopic recognition of the commercial wood in Spain	20	B12	C29	D8
Report of practices, practicum and external practices	Preparation and delivery by heart of guide of the commercial wooden species in Spain	30	B11	C29	D8
Essay questions exam	Evaluation by means of proof of knowledges	40	B11 B12		D4 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: 10%, Laboratory Practices: 20%, Theoretical content exam: 40%, Practical memory delivery: 30%.

Evaluation in global evaluation modality; Theoretical content exam: 35%, Theoretical/practical content exam: 35%; Alternate memory: 30%.

Sources of information

Basic Bibliography

González-Prieto, Óscar, **¿Cómo se fabrican los productos de madera? Tomo I**, 978-84-87381-50-8, AITIM, 2020

González-Prieto, Óscar, **¿Cómo se fabrican los productos de madera? Tomo II**, 978-84-87381-51-5, AITIM, 2020

González-Prieto, Óscar, **¿Cómo se fabrican los productos de madera? Tomo IV**, 978-84-87381-53-9, AITIM, 2021

Complementary Bibliography

González-Prieto, Óscar, **¿Cómo se fabrican los productos de madera? Tomo III**, 978-84-87381-52-2, AITIM, 2021

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

Industrial organisation and processes in the wood industry/P03G370V01707

Wood preservation and drying technology/P03G370V01705

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.