



IDENTIFYING DATA

Industrial organisation and processes in the wood industry

Subject	Industrial organisation and processes in the wood industry			
Code	P03G370V01707			
Study programme	(*)Grao en Enxeñaría Forestal			
Descriptors	ECTS Credits	Choose	Year	Quadmester
	6	Optional	4th	1st
Teaching language	Spanish Galician			
Department	Natural Resources and Environment Engineering Business Organisation and Marketing			
Coordinator	García-Pintos Escuder, Adela González Prieto, Óscar			
Lecturers	García-Pintos Escuder, Adela González Prieto, Óscar			
E-mail	adelagpe@uvigo.es oscargprieto@uvigo.es			
Web	http://www.forestales.uvigo.es			
General description	(*)Materia que trata sobre os procesos industriais de transformación da madeira, especialmente os que se levan a cabo na fabricación dos produtos finais, así como as técnicas de xestión e mellora continua da produción.			

Competencies

Code	
C30	Ability to know, understand and use the principles of: knowledge of the basic principles of the second transformation processes of wood.
C31	Knowledge for the calculation and design of carpentry facilities. Drying, debarking and crushing of wood.

Learning outcomes

Expected results from this subject	Training and Learning Results
(*)Capacidad para conocer, comprender y utilizar los principios básicos de la organización industrial y los procesos de segunda transformación de la madera y del cálculo y diseño de instalaciones de carpintería y mueble	C30 C31

Contents

Topic	
The sector of second transformation of the wood	The carpentry and furniture industry in: <ul style="list-style-type: none"> · Galicia · Spain · Europe
Industrial operations on wood and boards Mechanization of wood and boards	Adhesives and gluing techniques in the wood industry Application of edges on boards Application of decorative surfaces on boards Sanding practices in carpentry and furniture Finishing technology on wood and boards
Basic principles and production management tools	Basic concepts Tools for supply chain management, purchasing and inventory Mathematical tools and models for the optimization of production
Basic principles and tools for continuous improvement in the organization of industrial production	Lean management basics and production excellence Application of Lean management to the wood industry Other tools: JIT, six-sigma

Planning			
	Class hours	Hours outside the classroom	Total hours
Introductory activities	1	0	1
Lecturing	17	44	61
Problem solving	11	30	41
Supervised work	7	20	27
Studies excursion	8	10	18
Short answer tests	2	0	2

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

Methodologies	
	Description
Introductory activities	Introduction to the objectives and development of the subject
Lecturing	Structured exposition of objectives, theoretical contents and exemplifications of the subjects and sub-themes that form the program of the subject
Problem solving	Active participation in the resolution of problems and / or exercises
Supervised work	Resolution of small practical exercises that accompany a theoretical explanation. Seminars of approach and resolution of type problems with oral presentation
Studies excursion	Explanation "in situ" of the organization and industrial processes in the carpentry and furniture industries

Personalized attention

Methodologies	Description
Supervised work	The tutoring hours will be indicated at the beginning of the course
Problem solving	The tutoring hours will be indicated at the beginning of the course

Assessment

	Description	Qualification	Training and Learning Results
Lecturing	(*)Participación activa no debate que se expoña na aula sobre os conceptos teóricos	10	C30 C31
Supervised work	(*)Participación activa nos seminarios de resolución de exercicios e de casos/análises de situacións, con críticas construtivas ás resolucións doutros compañeiros e entrega en tempo e forma dos traballos encomendados	5	C30 C31
Studies excursion	(*)Presentación dunha memoria das visitas realizadas	5	C30 C31
Short answer tests	(*)Proba escrita sobre os contidos teóricos e prácticos da materia	80	C30 C31

Other comments on the Evaluation

Sources of information

Basic Bibliography

Jay Heizer, Barry Render, **Dirección de la producción y de operaciones : decisiones tácticas**, 11, Pearson Educación, 2015

Complementary Bibliography

Carlos Rodrigo Illera, María Pilar Alberca Oliver, **Dirección de la producción**, Sanz y Torres, 2015

Lluís Cuatrecasas Arbós, **Organización de la producción y dirección de operaciones : sistemas actuales de gestión eficiente y competitiva**, Díaz de Santos, 2011

Tony Crespo Franco, Pilar Piñeiro García, **Producción : planificación, programación e control : ejercicios resoltos**, Universidade de Vigo, Servizo de Publicacións, 2005

Recommendations

Subjects that are recommended to be taken simultaneously

Primary wood processing industries/P03G370V01706

Subjects that it is recommended to have taken before

Wood technology/P03G370V01606