Universida_{de}Vigo

Subject Guide 2017 / 2018

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IDENTIFYIN	G DATA				
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Dasometry	Dacametry				
Subject	Dasometry				
Code	P03G370V01602				
Study	(*)Grao en				
programme	Enxeñaría Forestal				
Descriptors	ECTS Credits		Choose	Year	Quadmester
	6		Mandatory	3rd	2nd
Teaching					
language					
Department					
Coordinator	Díaz Vázquez, Raquel				
Lecturers	Díaz Vázquez, Raquel				
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Web					
General description	The *asignatura of *Dasometría consists	of two big b	locks: *Dasometría	and Inventor	ry.
	The first a forest basic science part of the	*Dasonom	ía and very related	with the *Se	lvicultura that centres in

the study of the volumes and growths of the forest masses.

The second is a group of technicians that allow to the technician in his professional work apply the sciences

In the education of the matter, three appearances are fundamental to develop, according to our point of view, in the education of the forest science: intuition, rigour and creation. The intuition situates to the student in the type of problems that wants to attack (through examples), creates a perspective (often through the own history of the problem) and in definite generates an interest. The second level formalises all these intuitions and undresses them of the accessory until *desentrañar the essential. The rigour needs of the abstraction and is fundamental in the transmission of technical knowledges. The creation allows to build own solutions, practical, what before have a forest contact and more learn of this, more motivated goes to continue the study of the *asignatura.

Competencies

Code

Contents Topic

C24 (*)CE-24: Capacidade para coñecer, comprender e utilizar os principios de: dasometría e inventariación forestal, ordenación de montes.

(*Dasometría) for *recopilar data on the masses and possible future evolution.

D6 (*)CBI 6: Adquirir capacidade de resolución de problemas.

Learning outcomes		
Expected results from this subject	Traii	ning and Learning Results
CE-24.1: Know the basic concepts for the measurement of individual trees, the main variables used and the necessary technicians for his measurement.	C24	D6
The relation between competitions and results, and the weight of each competition inside the matter show in the pdf attach. http://forestales.uvigo.es/sites/default/files/24%20*Daso.Pdf#*overlay.*context=is/*content/competitions-and-resulted-of-learning-by-matte	er	

Páxina	1	de 4	

0. Introduction to the Dasometry	1. Why measure?
	2. Why measure trees and forest masses?
	3. Dasometry and affine sciences.
	4. Units of measure.
	5. Normalisation of symbols used in dasometry.
	 Significant figures. Precision, bias and accuracy of the data.
	8. Errors.
	9. Weight or volume?
	10. Components of the tree.
	11. The form of the tree.
	12. Measurement by trip of fluid.
	13. Differences between quantity, value and price.
1. Measurement of Trees: Diameters	1.1. Important terms.
	1.2. Basic dasometric parameters.
	1.3. Measurement of diameters of the trees.
	1.4. Measurement of the thickness of bark, diametral growth and age of
	the tree. 1.5. Marked and designation of trees.
	1.6. Measurement of distances.
2. Measurement of Trees: Heights	2.1. Measurement of slopes.
	2.2. Measurement of heights.
	2.3. Recommendations for the measurement of heights.
	2.4. Relascopio Of Bitterlich.
	2.5. Other devices of the inventory.
	2.6. Price devices dasometrycs.
3. Cubiculation By trozas.	3.1. Cubiculation Of trees.
	3.2. Types dendrométricos.
	3.3. Procedures for cubages of trees.
	3.4. Formulas for cubages by trozas.
A. Cultarias Cararlata trumlia	3.5. Rules madereras.
4. Cubages Complete trunks.	4.1. Graphic method.
	4.2. Function of profile.4.3. Formula of Pressler or of the point guideline.
	4.4. Cubages Of trees in foot. Pressler-Bitterlich.
	4.5. Parameters related with form: coefficients of form and mórphics
	4.6. Height reduced.
5. Cubiculation Of masses.	5.1. Stereometry.
	5.2. Function of distribution diametric.
	5.3. Half parameters of a mass.
	5.4. Cubification Of forest masses.
	5.5. Prices or tables of cubiculation.
	5.6. Tables of mass.
	5.7. Trees Type or modular values.
6. Wooden measurement stacked.	6.1. Quantification of the wood stacked. Definition of stereo.
o. Wooden measurement stacked.	6.2. Other units of apparent volume.
	6.3. Coefficient of stacked.
	6.4. Methods to calculate the coefficient of stacked.
7. Epidometry	7.1. Definition of epidometry
	7.2. Diametral growth and age of the tree.
	7.3. Analysis epidometric of trunks.
	7.4. Definitions of growth.
	7.5. Relation between growths.
	7.6. Methods of obtaining of growths.
O. Franchiscondon	7.7. Definitions of growth of a mass.
8. Forest inventory	8.1. Definition of inventory.
	8.2. Parts of the inventory. 8.3. Types of inventory.
	8.4. Planning of the inventory.
	8.5. Design of the inventory.
	8.6. Units of sampling.
	8.7. Methods of sampling.
	8.8. Number, size and form of the plots of sampling.
	8.9. Methods of realisation of the inventory.
	8.10. Determination of the number of sample for a determinate error.
	8.10. Estadillos Of taking of data in field.

Planning			
	Class hours	Hours outside the classroom	Total hours
Master Session	26	52	78
Troubleshooting and / or exercises	4	10	14
Case studies / analysis of situations	6	12	18
Outdoor study / field practices	14	24	38
Short answer tests	1	0	1
Reports / memories of practice	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
Master Session	Exhibition by part of the professor of the contents on the matter supporting some presentations of images, diagrams and videos that the student can see/download in the web indicated by the professor
Troubleshooting and / o exercises	r I complement of the master lessons in which they expose practical exercises that the student has to develop applying the algorithms seen in the subject.
Case studies / analysis of situations	Study of real cases with examples of different Inventories realised analysing his memory and methodology. With special attention to the solutions of planning employed and the computer applications.
Outdoor study / field practices	They will realise three practical exits for the execution of a forest inventory previously designed in the classroom like practical case. The students will have of the material of necessary inventory for the take down of plots and his processed back in cabinet. It will have to present a memory of the inventory realised.

Personalized attention				
Methodologies	Description			
Troubleshooting and / or exercises	-			
Outdoor study / field practices				

Assessment				
	Description	Qualification	Trainir Lear Res	ning
Master Session	Assistance and participation in the theoretical classes of the *asignatura (7.5 points). Delivery of exercises realised during the classes or of realisation out of the classroom (10 points).	17.5	C24	
Short answer tests	Realisation of an examination in which they will evaluate the theoretical and practical concepts of the *asignatura, by means of questions type test, and of theoretical development, as well as practical exercises.	75	C24	D6
Reports / memories of practice	COMPULSORY assistance to the practical classes of the *asignatura, that realise usually in field. In exceptional cases, in which the assistance continued of the student was not possible, will realise a practical examination in field. COMPULSORY assistance to trip of practices of the *asignatura.	7.5	C24	D6

Other comments on the Evaluation

The student has to approve the practical part and the theoretical part separately. The assistance to the practices and to the trip of practices is of compulsory character to approve the *asignatura.

Sources of information

Basic Bibliography

Complementary Bibliography

DIEGUEZ, U. et al., **Dendrometría**, Mundi Prensa 🛘 Fundación Conde del Valle de Salazar,

MARTÍNEZ CHAMORRO, et al., **Manual para a cubicación, taxación e venda de madeira en pe e biomasa forestal**, Universidade de Vigo,

MADRIGAL, A.; ÁLVAREZ, J.G.; RODRÍGUEZ, R.; ROJO, A., **Tablas de producción para los montes españoles**, Fundación Conde del Valle de Salazar,

DIEGUEZ, U. et al., Herramientas Selvícolas para la Gestión Forestal Sostenible en Galicia, Xunta de Galicia,

PRIETO RODRÍGUEZ, A.; LÓPEZ QUERO, M., Dasometría. Versión española de [Dendrométrie de L´ecole national du génie rural des aux et des forêts], Editorial Paraninfo,

ACEMM, **Manual de prevención de riesgos laborales en el sector forestal**, Fundación para la prevención de riesgos laborales. Gobierno de Cantabria,

Recommendations

Subjects that continue the syllabus

Forest management/P03G370V01605

Physical planning and land management/P03G370V01701

Subjects that are recommended to be taken simultaneously

Projects/P03G370V01503

Subjects that it is recommended to have taken before

Mathematics: Statistics/P03G370V01301

Forestry/P03G370V01401

Forest exploitation/P03G370V01601