Universida_{de}Vigo

Subject Guide 2018 / 2019

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IDENTIFYIN	G DATA			
Repopulatio	on			
Subject	Repopulation			
Code	P03G370V01603			
Study	(*)Grao en			
programme	Enxeñaría Forestal			
Descriptors	ECTS Credits	Choose	Year	Quadmester
	6	Optional	3rd	2nd
Teaching language				
Department	Natural Resources and Environment Engineering			
Coordinator	González Prieto, Óscar			
Lecturers	Bartolome Mier, Javier			
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Web General	(*)Los objetivos generales de la asignatura son:			
description	 a) Conocer las bases, objeto y fundamentos de las l b) Conocer las caractaristicas, métodos y medios ne opreaciones relacionadas con las repoblaciones fore c) Conocer los principios generales de la obtención planta forestal en vivero. 	ecesarios para lle estales	evar a cabo las d	
Competenci	ies			
Code				
develop environ area. B2 Ability t C20 Ability t	o understand the biological, chemical, physical, math ment of professional activity, as well as to identify th ment and renewable natural resources susceptible to o analyze the ecological structure and function of for o know, understand and use the principles of forestry	e different biotic protection, cons est systems and machinery and	and physical ele ervation and exp resources, includ mechanization.	ments of the forest ploitations in the forest ling landscapes.
	o know, understand and use the principles of: refores		g and nurseries.	Forest improvement
	y for information management, analysis and synthesi			
	o solve problems, critical reasoning and decision mak	ang		
DIU Autonor	nous Learning			
Learning oເ				
Expected res	ults from this subject	Т	raining and Learı	ning Results
New		B1 B2	C20 C21	D5 D8 D10
Contents				
Торіс				

Module I Planning and implementation of afforestation	Theme 1. Concept and choice of species Lesson 1.1. Concept of afforestation and commentary Lesson 1.2. Background and need for afforestation Lesson 1.3. Objectives of afforestation Lesson 1.4. Species selection
	Topic 2. Methods of re-population Lesson 2.1. Types of methods Lesson 2.2. Selection of method
	Topic 3. Treatment of pre-existing vegetation Lesson 3.1. Rationale and objectives Lesson 3.2. Classification of clearing procedures Lesson 3.3. Description of the clearing procedures
	Topic 4. Soil preparation Lesson 4.1. Rationale and objectives Lesson 4.2. Classification of soil preparation procedures Lesson 4.3. Description of soil preparation procedures Lesson 4.4. Hydrological aspects of land clearing and soil preparation
	Topic 5. Introduction of new species Lesson 5.1. Density of introduction Lesson 5.2. Plantings Lesson 5.3. Plantations
	Item 6. Further care of restocking and complementary work Lesson 6.1. Subsequent care of restocking Lesson 6.2. Complementary works
	Topic 7. Environmental impact of reforestation Lesson 7.1. Introduction and regulations Lesson 7.2. Considerations on the environmental impact of forest R. Lesson 7.3. Affected Factors Lesson 7.4. Impact assessment Lesson 7.5. Methodological conclusion
Module II Seeds	Topic 8. General information on forest seeds Lesson 8.1. Harvest Lesson 8.2. Extraction and cleaning Lesson 8.3. Storage Lesson 8.4. Conservation Treatments Lesson 8.5. Analysis Lesson 8.6. Germination treatments
Module III Nurseries	Lesson 8.7. Sowing Topic 9. General information on forest nurseries Lesson 9.1. Definition and classes Lesson 9.2. Water Lesson 9.3. Floor Lesson 9.4. Location, shape and size Lesson 9.5. Bare root planting Lesson 9.6. Cultivation of plant in packaging Lesson 9.7. Staked Lesson 9.8. Quality of the forest plant
	Lesson 9.9. Mycorrhization

Planning			
	Class hours	Hours outside the classroom	Total hours
Lecturing	25.5	47.5	73
Problem solving	8	14	22
Studies excursion	8	8	16
Problem based learning	1	11.5	12.5
Case studies	10.5	14	24.5
Objective questions exam	0.5	0	0.5
Short answer tests	0.5	0	0.5
Laboratory practice	1	0	1
*The information in the planning table is	for guidance only and does no	t take into account the het	erogeneity of the students.

Methodologies	
	Description
Lecturing	The master lesson is the common form of development of the expository function, in which the teacher develops a series of concepts related to the contents of the Subject, and the student adopts a receptive role of this information.
	The use of audiovisual media (slides, transparencies, videos, video canon, etc.) will be constant in these classes since the retention of information is much greater when combining oral and visual stimuli.
	The masterful lesson serves to conceptually develop a theme, give global versions, develop a working methodology. etc.
	Depending on the progress of the course, the content of each didactic unit will be provided in advance and in writing, either as notes or as a bibliography, which enables the student to attend classes with previous reading of the topic. On the other hand, if the student knows that what is taught can be found in a book when studying, his attitude in the classroom will be directed to understand the explanation, having to take only marginal notes of what is expanded.
	In the case of this subject, the use of audiovisual media such as digital presentations, multimedia, transparencies, rear projection, etc. Should expedite the exposure of topics with a marked descriptive character, or in which drawings and schemes of complicated implementation are needed.
	The classes of directed discussion, will be made at least one throughout the course and consists of the presentation of a topic, which must meet characteristics of real problem, richness in contradictions or reasons for controversy, should be of interest to the students, who Must know the activity well enough and be sufficiently qualified to express opinions about it.
	The technique is oriented to overcoming uncritical memorization, fostering participation in the group and verbalization of ideas as a means that favors their assimilation. In addition, an important part of the pupils is a difficulty in expression and writing, which can contribute to overcome through this didactic resource. The role of the teacher as the conductor or moderator of the discussion is fundamental allowing all kinds of opinions on the subject.
	In addition, and in a complementary way to the lecture, after the presentation of controversial topics or of special interest for the students, it is interesting to organize discussions of reduced scope, questions, etc. Such an activity, which is simpler to perform than the previous one, can be considered more as a resource of elaboration and control within the master's lesson than as a technique of a nature alien to it.
	 Other tools that help to reinforce the contents included in the master lessons are. Case study / situation analysis / directed discussion: Formulation, analysis, resolution and debate of a problem or exercise related to the thematic of the subject. Solving problems and / or exercises in an autonomous way: Formulation, analysis, resolution and debate of a problem or exercise related to the subject matter of the subject. Presentations / expositions: Oral presentation by the students of a specific subject or work (usually written presentation). Multimedia Sessions: Use of videographic / online material on aspects of the subject Study exits / field practices: Visits-outings to the field for the observation and study of aspects previously studied / analyzed
Problem solving	Resolution of problems and / or exercises Formulation, analysis, Resolution and debate of a problem or exercise related to the theme of the Subject, by the students. Exercises and problems will be carried out on topics such as: static study of forest masses, dynamic study of the forest masses, etc

Studies excursion	The practice of the techniques, theoretically learned, must be carried out in contact with the professional practice which can only be obtained by actual practice of the techniques (or their direct observation) wherever they are carried (Industry, forest masses, etc.)
	The practice of techniques, theoretically learned, must be carried out in close contact with professional practice which can only be obtained by practicing techniques (or their direct observation) wherever they are carried out (industry, forest masses, etc.). The maximum number of field practices or practical trips should be carried out, without which theoretical teaching is insufficient to achieve the teaching objectives. The field practices are therefore intended to establish the concepts of the subject, give students the opportunity to get in touch with the professional world and foster relationships between students and teacher student outside the center. The realization of practical trips make sense when they really contribute new knowledge that are impossible to acquire in the School itself.
Problem based learning	- Organization of specific seminars or conferences
	 Presentations / exhibitions: Oral presentation by the students of a theme
	Concrete or work (usually written presentation).
	- Multimedia Sessions: Use of videographic / online material on aspects of the
	subject
	- Days of study of aspects previously studied / analyzed in field trips
Case studies	Case study / situational analysis - Case study / situation analysis or directed discussion: Formulation, analysis, resolution and debate of a problem or exercise related to the subject matter of the subject

Personalized attention

Description

Problem solving

Studies excursion

Assessment

	Descriptio	nQualification	Training and Learning Results
Lecturing	(*).	0	
Problem based learning	(*).	0	
Case studies	(*).	30	C21
Objective questions exar	n(*).	30	C21
Short answer tests	(*).	40	C21

Other comments on the Evaluation

Sources of information
Basic Bibliography
Complementary Bibliography

Recommendations

Subjects that are recommended to be taken simultaneously

Botany/P03G370V01303 Forestry Ecology/P03G370V01402

Subjects that it is recommended to have taken before

Biology: Plant Biology/P03G370V01201

Methodologies Case studies