



IDENTIFYING DATA

Forest entomology and Zoology

Subject	Forest entomology and Zoology			
Code	P03G370V01305			
Study programme	(*)Grao en Enxeñaría Forestal			
Descriptors	ECTS Credits	Choose	Year	Quadmester
	6	Mandatory	2nd	1st
Teaching language				
Department				
Coordinator	Paz Bermudez, Maria Graciela			
Lecturers	López de Silanes Vázquez, María Eugenia Paz Bermudez, Maria Graciela Souto Otero, José Carlos			
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General description	(*)Esta materia ensina ó alumnado os fundamentos de zooloxía, con énfase nas especies máis comúns nos nosos bosques. Dada a gran importancia da entomoloxía no medio forestal, unha parte importante da materia adicarase a esta disciplina. Finalmente, outro bloque de temas centrarase en xenética, especialmente na de poboacións, co fin de que o alumno poida adquirir uns coñecementos fundamentais para comprende-la dinámica e a evolución das poboacións animais.			

Competencies

Code	
B1	CG-01: Capacidade para comprender os seguintes fundamentos necesarios para o desenvolvemento da actividade profesional: Biolóxicos.
B6	CG-06: Capacidade para identificar os diferentes elementos: elementos bióticos.
B8	CG-08: Capacidade para identificar os diferentes elementos: recursos naturais renovables susceptibles de protección, conservación e aproveitamento.
B16	CG-16: Capacidade para o uso das técnicas de conservación da biodiversidade.
C13	(*)CE-13: Capacidade para coñecer, comprender e utilizar os principios de: zooloxía e entomoloxía forestais; fundamentos biolóxicos do ámbito animal na enxeñaría.
D20	(*)CBS 8: Sensibilidade cara a temas ambientais.

Learning outcomes

Expected results from this subject	Training and Learning Results		
(*)	B1 B6 B8 B16	C13	D20

Contents

Topic	
I. General zoology	1. Introduction to the zoology 2. Structure of the animal cells 3. The cellular division 4. The fabrics
II. Genetic	1. Introduction to the mendelism 2. Nature of the hereditary material 3. Genetic structure of the populations 4. Changes of the genic frequencies 5. The continuous variation

III. Descriptive zoology

1. General characters of the invertebrates
2. Entomology. Characteristic and importance of the insects
3. Cordados. Introduction to fishes, amphibious and reptilian
4. Birds and mammalian

Planning

	Class hours	Hours outside the classroom	Total hours
Master Session	32	48	80
Laboratory practises	16	26	42
Troubleshooting and / or exercises	4	24	28

*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	Presentation by the teacher of the contents on the subject under study, theoretical and / or guidelines for a job, exercise or project to be developed by the student.
Laboratory practises	Activities application of knowledge to specific situations and basic skills acquisition and related procedural matter under study. Special spaces are developed with specialized equipment (scientific and technical laboratories, languages, etc.).
Troubleshooting and / or exercises	Activity which formulated problem and / or exercises related to the course. The student should develop appropriate solutions or right through the exercise routines, application of formulas or algorithms, application processing procedures available information and interpretation of the results. It is often used to complement the lecture.

Personalized attention

Methodologies	Description
Master Session	
Laboratory practises	

Assessment

	Description	Qualification	Training and Learning Results		
Master Session	(*)1.-Probas de tipo test 2.-Probas de respuesta corta 3.-Probas de respuesta larga, de desarrollo	75	B1 B6 B8 B16	C13	D20
Laboratory practises	(*)Informes/memorias de prácticas e/ou examen práctico	20	B6 B8 B16	C13	D20
Troubleshooting and / or exercises	(*)	5	B16		

Other comments on the Evaluation

Sources of information

Basic Bibliography

Complementary Bibliography

Davies RG, **Introducción a la entomología**, 1989,
 Falconer DS, Mackay TFC, **Introducción a la genética cuantitativa**, 1996,
 Hickman CP, Roberts LS, Keen S, Larson A, l'Anson H, Eisenhour D, **Principios integrales de zoología**, 2009,
 Paniagua R (coordinador), **Citología e histología vegetal y animal**, 2007,
 Barrientos JA (ed), **Curso práctico de entomología**, 2004,
 Carlos de Liñán Vicente (coord), **Entomología agroforestal**, 1998,
 Chinery, M., **Guía de campo de los insectos de España y de Europa**, 2005,

Recommendations

Subjects that are recommended to be taken simultaneously

Forestry Ecology/P03G370V01402

Mathematics: Statistics/P03G370V01301

