



IDENTIFYING DATA

Forest entomology and Zoology

Subject	Forest entomology and Zoology			
Code	P03G370V01305			
Study programme	(*)Grao en Enxeñaría Forestal			
Descriptors	ECTS Credits	Type	Year	Quadmester
	6	Mandatory	2nd	1st
Teaching language				
Department				
Coordinator	Paz Bermudez, María Graciela			
Lecturers	López de Silanes Vázquez, María Eugenia Paz Bermudez, María 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 adicárase 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 comprender a dinámica e a evolución das poboacións animais.			

Competencies

Code			
CG1	CG-01: Capacidade para comprender os seguintes fundamentos necesarios para o desenvolvemento da actividade profesional: Biolóxicos.		
CG6	CG-06: Capacidade para identificar os diferentes elementos: elementos bióticos.		
CG8	CG-08: Capacidade para identificar os diferentes elementos: recursos naturais renovables susceptibles de protección, conservación e aproveitamento.		
CG16	CG-16: Capacidade para o uso das técnicas de conservación da biodiversidade.		
CE13	(*)CE-13: Capacidade para coñecer, comprender e utilizar os principios de: zooloxía e entomoloxía forestais; fundamentos biolóxicos do ámbito animal na enxeñaría.		
CT20	(*)CBS 8: Sensibilidade cara a temas ambientais.		

Learning outcomes

Learning outcomes	Competences		
(*)	CG1 CG6 CG8 CG16	CE13	CT20

Contents

Topic			
I. General zoology	<ol style="list-style-type: none"> 1. Introduction to the zoology 2. Structure of the animal cells 3. The cellular division 4. The fabrics 		
II. Genetic	<ol style="list-style-type: none"> 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	Evaluated Competences		
Master Session	(*)1.-Probas de tipo test 2.-Probas de respuesta corta 3.-Probas de respuesta larga, de desarrollo	75	CG1 CG6 CG8 CG16	CE13	CT20
Laboratory practises	(*)Informes/memorias de prácticas e/ou examen práctico	20	CG6 CG8 CG16	CE13	CT20
Troubleshooting and / or exercises (*)		5	CG16		

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