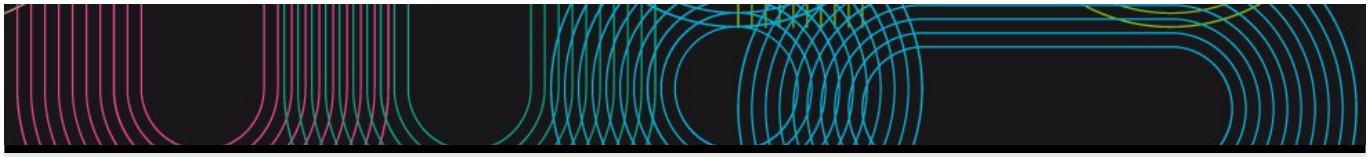

IDENTIFYING DATA				
Hunting and fishing management				
Subject	Hunting and fishing management			
Code	P03G370V01702			
Study programme	(*)Grao en Enxeñaría Forestal			
Descriptors	ECTS Credits	Choose	Year	Quadmester
	6	Optional	4th	1st
Teaching language	Spanish Galician			
Department				
Coordinator	Valero Gutiérrez del Olmo, Enrique María			
Lecturers	Álvarez Bermúdez, Xana Valero Gutiérrez del Olmo, Enrique María			
E-mail	evalero@uvigo.es			
Web	http://http://faitic.uvigo.es/index.php/es/			
General description	(*)Preténdese que o alumno adquira os coñecementos necesarios para a realización de Inventarios poboacionais, redacción de proxectos de xestión da caza e da pesca, avaliación e medidas correctoras dos hábitats e para a realización de repoboacións cinexéticos e piscícolas			

Skills	
Code	
B8	Ability to manage and protect forest fauna populations, with special emphasis on hunting and fish populations.
C33	Ability to know, understand and use the principles of: hunting and fishing management. Aquaculture systems.
D4	Sustainability and environmental commitment
D5	Capacity for information management, analysis and synthesis
D6	Organization and planning capacity
D8	Ability to solve problems, critical reasoning and decision making

Learning outcomes	
Expected results from this subject	Training and Learning Results

2R. 2018 Knowledge and understanding of the disciplines of engineering of the his speciality, to the necessary level to purchase the rest of the competitions of the qualifications, including notions of the last advances.	B8	C33	D4 D5 D6
3R. 2018 Be conscious of the multidisciplinary context of the engineering.			D8
4R. 2018 Capacity to #analyze products, processes and complex systems in the his field of study; choose and apply analytical methods, of calculation and experimental *relevantes of form *relevante and interpret correctly the results of these analyses.			
5R. 2018 Capacity to identify, formulate and resolve problems of engineering in the his speciality; choose and apply analytical methods, of calculation and experiments properly established; Recognize the importance of the social restrictions, of health and security, environmental, economic and industrial.			
6R. 2018 Capacity to project, design and develop complex products (pieces, component, products finished, etc.), processes and systems of the his speciality, that fulfil the requirements established, including the knowledge of the social aspects, of health and environmental security, economic and industrial; as well as select and apply methods of appropriate project.			
8R. 2018 Capacity to realize bibliographic researches, consult and use databases and other sources of information with discretion, to realize @simulación and analysis with the objective to realize investigations on technical subjects of the his speciality.			
9R. 2018 Capacity to consult and apply codes of good practices and security of the his speciality.			
10R. 2018 Capacity and capacity to project and realize experimental investigations, interpret results and obtain conclusions in the his field of study.			
11R. 2018 Understanding of the techniques and methods of analysis, project and applicable investigation and his limitations within the scope of the his speciality.			
13R. 2018 Knowledge of the application of materials, teams and tools, technological processes and of engineering and his limitations within the scope of the his speciality.			
14R. 2018 Capacity to apply norms of engineering in the his speciality.			
15R. 2018 Knowledge of the social implications, of health and security, environmental, economic and @industrial of the practice in engineering.			
16R. 2018 general Ideas on economic questions, organisational and of management (how management of projects, management of risks and change) in the industrial and entrepreneurial context.			
17R. 2018 Capacity to collect and interpret data and handle complex concepts inside the his speciality, to issue judgements that involve a reflection on ethical and social questions			
18R. 2018 Capacity to manage activities or technical projects or complex professionals of the his speciality, assuming the responsibility of the takes of decisions.			
19R. 2018 Capacity to communicate of effective way information, ideas, problems and solutions in the field of the engineering and with the society in general.			
20R. 2018 Capacity to work effectively in national and international contexts, individually and in team, and cooperate with the engineers and people of other disciplines.			

Contents

Topic	
BLOCK I: HUNTING AND KINETIC RESOURCES	MODULE I: BASIC CONCEPTS OF CINEGÉTICAL MANAGEMENT MODULE II: TECHNIQUES FOR IMPROVING THE CONDITIONS OF REPRODUCTION AND CREATION MODULE III: IMPROVEMENT TECHNIQUES COND. OF SHELTER AND FOOD MODULE IV: SUSTAINABLE APPROVAL METHODS MODULE V: HUNTING IN THE CONTEXT OF RURAL DEVELOPMENT
BLOCK 2: AQUACULTURE	MODULE I. INTRODUCTION TO AQUACULTURE IN THE FLUVIAL HABITAT: MODULE II. AQUACULTURE AND FLUVIAN FISHERIES: MODULE III. FISH SPECIES: -SMALMIDS MODULE IV. FISH SPECIES: -CYPRINESIS: MODULE V. FISH SPECIES: -MOTHER SPECIES: MODULE VI.- METHODS OF MANAGEMENT MODULE VII.- METHODS OF USE MODULE VIII.-CONTINESAL WATER MANAGEMENT PROJECTS

Planning

	Class hours	Hours outside the classroom	Total hours
Lecturing	45	0	45
Studies excursion	20	10	30
ICT suppoted practices (Repeated, Dont Use)	10	23	33
Objective questions exam	30	0	30
Problem and/or exercise solving	2	0	2
Systematic observation	10	0	10

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

Methodologies	
	Description
Lecturing	They will give lessons in class of the subjects of development
Studies excursion	They will organise gone out of field related with the matter, that later will be evaluated with a report of the practices made.
ICT suppoted practices (Repeated, Dont Use)	It will constitute the development of the subject through the new TIC known like TV-training or and-*learning, not to limiting to mere exhibitions written, but doing them of character *marcadamente participatory with the development of animations and simulations, in complex situations, that force to the student to *inte-*ractuar with the matter treated. All the competitions are treated and developed in the autonomous practical sessions through TIC as well as in the sessions *magistrales and in the exits of field.

Personalized assistance	
Methodologies	**Description**
ICT suppoted practices (Repeated, Dont Use)	They will make proofs through tools TIC
Tests	**Description**
Objective questions exam	It will make a final examination

Assessment			
	Description	Qualification	Training and Learning Results
ICT suppoted practices (Repeated, Dont Use)	They will evaluate the exits of field (20%) and the proofs through TIC (40%)	60	
Objective questions exam	Different questions on the matter seen in the sessions *magistrales as well as in the practices made.	40	

Other comments on the Evaluation

When constituting in a course and-*learning, as it is designed and has been described, the student has to follow and course by means of *teleformación, existing the tool of the system to know the frequency and the cadence in which to the student accesses to the course, and the *posibildad to board dialogues by the network of internet to detect anomalies or resolve incidences.

Sources of information

Basic Bibliography

Complementary Bibliography

ARRIGNON, J.., **Ecología y piscicultura de aguas dulces.**, (1979),

BARNABE, G, **Acuicultura**, 1989,

BEVERIDGE, M., **Acuicultura en jaulas**, 1984,

BLANCO CACHAFEIRO, M. C, **La trucha. Cría industial.**, 1995,

DOADRIO, I., B. ELVIRA y. Y. BERNAT, **Peces continentales españoles. Inventario y clasificación de zonas fluviales**, 1991,

DRUMOND, S., **Cría de la trucha**, 1988,

ESPINOSA, J. y LABARTA, U., **Reproducción en Acuicultura.**, 1987,

FAO, **La formulación de proyectos de acuicultura**, 1991,

GARCÍA-BADELL, J. J, **Tecnología de las explotaciones piscícolas**, 1985,

GARCÍA DE JALÓN, D.; G. PRIETO y F. HERRERUELA, **Peces ibéricos de agua dulce**, 1989,

GUEGUEN, J. y PROUZET, **Le saumon atlantique**, 1994),

HUET, M., **Tratado de piscicultura**, 1983,

LOBÓN CERVIÁ, JAVIER, **Dinámica de poblaciones de peces en ríos. Pesca eléctrica y métodos de capturas sucesivas en la estima de abundancias**, 1991,

MUUS, B. & P. DAHLSTÖM, **Los peces de agua dulce de España y de Europa; pesca, biología, importancia económica**, 1970,

ROBERTS, R. J, **Patología de los peces**, 1981,

SEDWICK, S.D., **Cría de l trucha**, 1987,

SHEPHERD, J. C. & BROMAGE, R. N., **Cultivo intensivo de peces.**, 2008,

STREBLE, H. y D. KRAUTER, **Atlas de los Microorganismos de Agua Dulce**, 2007,

ALVARADO CORRALES, E. et al., **Manual de Ordenación y Gestión Cinegética.**, 2001,

SÁNCHEZ GASCÓN, A, **Guardas de Caza: Legislación**, 1996,

AUDEBERT, Tristan (Henri Béraud), **La caza de la becada**, 1997,

BERTON, Jean, **El mundo de las armas de caza**, 2003,

ALBENTOS, Marqués de, **Arte general de cacerías y monterías.**, Ed. Clan, Sevilla,

BOZA, Moisés D, **El trampeo y demás artes de caza tradicionales en la península Ibérica.**, 2003,

Recommendations

Subjects that continue the syllabus

Projects/P03G370V01503
Physical planning and land management/P03G370V01701

Subjects that are recommended to be taken simultaneously

Forestry Ecology/P03G370V01402
Use of forests/P03G370V01601
Forestry hydrology/P03G370V01604

Subjects that it is recommended to have taken before

Hydraulics/P03G370V01404
Forest entomology and Zoology/P03G370V01305

Contingency plan

Description

=== EXCEPTIONAL PLANNING ===
Given the uncertain and unpredictable evolution of the health alert caused by COVID-19, the University of Vigo establishes an extraordinary planning that will be activated when the administrations and the institution itself determine it, considering safety, health and responsibility criteria both in distance and blended learning. These already planned measures guarantee, at the required time, the development of teaching in a more agile and effective way, as it is known in advance (or well in advance) by the students and teachers through the standardized tool.

=== ADAPTATION OF THE METHODOLOGIES ===
* Teaching on line
Use of institutional on-line teaching platform Campus Remoto in a synchronous way for the theoretical classes including basics, foundations, as well as general guidelines for resolution of problems and practical cases. Specific didactic materials adapted for on line teaching will be prepared e.g. Video or presentations, graphic resources, software, etc. All the resources will be available through FAITIC platform.
* Mechanism face-to-face of attention to the students (tutorials)
Personalized attention. Communication by email or another on-line tool. Tutorials via Campus Remoto platform.
=== ADAPTATION OF The EVALUATION ===
On-line tests and tasks via Campus Remoto and Faitic. The weight of the tests will be maintained as they are described in the main guide.