



IDENTIFYING DATA

Invasive Species and Fouling

Subject	Invasive Species and Fouling			
Code	V02M098V01211			
Study programme	Máster Universitario en Biología Marina			
Descriptors	ECTS Credits	Choose	Year	Quadmester
	3	Optional	1st	2nd
Teaching language	Spanish Galician			
Department				
Coordinator	García Estévez, José Manuel Cremades Ugarte, Javier			
Lecturers	Besteiro Rodríguez, Celia Cremades Ugarte, Javier García Estévez, José Manuel			
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Web				
General description	(*)Exponse as principais rutas da introdución de especies foráneas, as características tanto dos invasores como dos sistemas receptores, e as consecuencias ecolóxicas, xenéticas e evolutivas dos devanditos eventos. Préstase especial atención á problemática do fouling, presentando os organismos que o compoñen, a súa sucesión, os seus efectos negativos e os seus posibles tratamentos preventivos			

Training and Learning Results

Code	
B5	Desarrollo de la habilidad de elaboración, presentación y defensa de trabajos e informes técnicos
C2	Conocimiento de la diversidad de organismos marinos y sus estrategias adaptativas
C3	Conocimiento y comprensión de las interacciones de los organismos marinos y los ecosistemas marinos y costeros
D4	Desarrollo de la capacidad para actualizar el conocimiento de forma autónoma

Expected results from this subject

Expected results from this subject	Training and Learning Results
(*)*Conocer Characteristic wools of wools invading species *y *su *riesgo for *los @receptor ecosystems.*Reconocer Wools *principales invading species *halladas in wools coasts *gallegas.*Conocer Wool importance of *fouling how *vector of species *alóctonas *y *su problematic social *y economic.*Conocer *los *principales *tratamientos *antifouling *y *sus *desventajas.	C2 C3
(*)*Reconocer Wools *principales invading species *halladas in wools coasts *gallegas	C2 C3
(*)*Conocer Wool importance of *fouling how *vector of species *alóctonas *y *su problematic social *y economic	C2 C3
(*)*Conocer *los *principales *tratamientos *antifouling *y *sus *desventajas	C2 C3
New	B5 D4

Contents

Topic	
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(*)1. Invading species2. *Biodiversidad *alóctona (*1.1. Characteristics1.2. Routes of *introducción1.3. @Receptor systems1.4. Consequences2.1. Studio of cases: *principales species2.2. Roads of *introducción2.3. Dynamics of *colonización2.4. Problematic3.1. Definition *y problematic3.2. *Principales Organisms3.3. *Sucesión3.4. *Tratamientos *antifouling

Planning

	Class hours	Hours outside the classroom	Total hours
Lecturing	18	45	63
Mentored work	0.1	0	0.1
Seminars	2	8	10
Objective questions exam	1	0	1
Essay questions exam	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
Lecturing	Presentation by the teacher of the contents on the subject matter of study, theoretical bases and/or guidelines of a work or exercise that the student has to develop
Mentored work	It will register the assistance of the students to the distinct classes
Seminars	Personalization of support and monitoring of the student.

Personalized assistance

Methodologies	Description
Seminars	Discussion of the group work presented
Mentored work	Pertinent explanations
Tests	Description
Objective questions exam	Pertinent explanations

Assessment

	Description	Qualification	Training and Learning Results		
Mentored work	Both class attendance and attitude will be evaluated in the lectures	10			
Seminars	Preparation and presentation of works in group	30	B5	C2	D4
Objective questions exam	The written test will consist of a series of objective multiple choice questions that cover all parts of the subject.	20		C3	D4
Essay questions exam	The written test will consist of a series of essay questions of medium length and covering all parts of the subject.	40		C2	D4
				C3	

Other comments on the Evaluation

In the first opportunity the three methodologies will be considered. In the second the evaluation will result from the written exam, being able to be the 20-60% of the final note the qualifications obtained in activities evaluated positively previously.

Sources of information

Basic Bibliography

Complementary Bibliography

Recommendations

Subjects that it is recommended to have taken before

Biology of Exploited and Potentially Exploitable Species/V02M098V01207

Marine Botany/V02M098V01102

Marine Zoology/V02M098V01103

Other comments

It is recommended to work on the matter in a continuous form