



IDENTIFYING DATA

Internships

Subject	Internships			
Code	V02M098V01301			
Study programme	Máster Universitario en Biología Marina			
Descriptors	ECTS Credits	Choose	Year	Quadmester
	18	Mandatory	2nd	1st
Teaching language	Spanish Galician			
Department				
Coordinator	García Estévez, José Manuel			
Lecturers	García Estévez, José Manuel			
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General description	This matter gathers the majority of the competitions posed in the title since in her apply the knowledges purchased in the first year in some labour surroundings. It contemplates all the formative and professional activities and/or researchers that program and develop with one accord between the universities and the companies or institutions with which have established a specific agreement for the realisation of the External Practices.			

Training and Learning Results

Code	
A1	(*)Posuír e comprender coñecementos que acheguen unha base ou oportunidade de ser orixinais no desenvolvemento e/ou aplicación de ideas, adoito nun contexto de investigación.
A2	(*)Que os estudantes saiban aplicar os coñecementos adquiridos e a súa capacidade de resolución de problemas en contornos novos ou pouco coñecidos dentro de contextos máis amplos (ou multidisciplinares) relacionados coa súa área de estudo.
A3	(*)Que os estudantes sexan capaces de integrar coñecementos e se enfrontar á complexidade de formular xuízos a partir dunha información que, sendo incompleta ou limitada, inclúa reflexións sobre as responsabilidades sociais e éticas vinculadas á aplicación dos seus coñecementos e xuízos.
A4	(*)Que os estudantes saiban comunicar as súas conclusións, e os coñecementos e razóns últimas que as sustentan, a públicos especializados e non especializados dun xeito claro e sen ambigüidades.
A5	(*)Que os estudantes posúan as habilidades de aprendizaxe que lles permitan continuar estudando dun xeito que terá que ser, en grande medida, autodirixido e autónomo.
B1	Utilización de criterios y métodos científicos en el planteamiento y resolución de problemas aplicando los conocimientos adquiridos
B2	Búsqueda, análisis e integración de información a partir de diferentes fuentes y capacidad para su interpretación y evaluación
B3	Aprendizaje de diversas técnicas y métodos analíticos tanto en el medio natural como en el laboratorio
B4	Desarrollo de habilidades en el manejo y tratamiento de herramientas, matemáticas, estadísticas e informáticas
B5	Desarrollo de la habilidad de elaboración, presentación y defensa de trabajos e informes técnicos
B6	Desarrollo de la curiosidad científica, de la iniciativa y la creatividad
B7	Entendimiento de la proyección social de la ciencia
D1	Desarrollo de las capacidades comprensivas, de análisis y síntesis
D2	Desarrollo de la capacidad de razonamiento crítico y autocrítico
D3	Desarrollo de las capacidades de trabajo en equipo, enriquecidas por la pluridisciplinariedad
D4	Desarrollo de la capacidad para actualizar el conocimiento de forma autónoma
D5	Desarrollo de las habilidades de comunicación y discusión de planteamientos y resultados
D6	Desarrollo de las capacidades de reflexión sobre responsabilidades sociales y éticas
D7	Desarrollo de habilidades para la divulgación de ideas en contextos tanto académicos como no especializados
D8	Desarrollo de la habilidad para hablar bien en público

Expected results from this subject

Expected results from this subject	Training and Learning Results
That the student acquires physico-chemical knowledge of oceans and coasts, of the diversity of marine organisms and its adaptative strategies and those interactions with the marine and coastal ecosystems.	A1 B1 D1
That the student was able to pursue the potential economic and biotecnológico interest of marine organisms, to know the principles of their exploitation and sustainability and the planning and supervision of its management.	A2 D3 D5
That the student identifies and evaluates the environmental quality of the sea upon current legislation. Be able to carry out the direction of environmental consultings and evaluate the quality and security of foods and secondary products of marine origin	A3 B2 D3 D6
That the student was able to catalog, evaluate, conserve, restore and manage the marine protected areas, as well as know how to elaborating, assessing and executing coastal management plans.	A3 B1 B4 D4 D5
That the student knows how to handle the methodology of investigation, the technics of sampling the instrumental usage and the analysis of data applied to the marine environment.	A3 B3 D1 D4
That the student can inspect and advise technically in the evaluation, exploitation and management of fisheries, as well as in the extraction of resources and installations of aquaculture	A4 B2 B5 D2 D7
That the student can perform studies of populational dynamics, genetic improvement and selection of stocks in fisheries, aquaculture and programs of restocking and can schedule and direct aquariums, museums, centres of environmental interpretation, natural parks and natural spaces protected	A1 A2 A3 A4 A5 B1 B2 B3 B4 B5 B6 B7 D1 D2 D3 D4 D5 D6 D7 D8
That the student was able to elaborate, argue, interpret, and evaluate scientific reports-technical, ethical, legal and socioeconomic related with marine fields and fisheries and manage coastal activities of leisure and tourism.	A1 A2 A3 A4 A5 B1 B2 B3 B4 B5 B6 B7 D1 D2 D3 D4 D5 D6 D7 D8

Contents

Topic

Topics will be those offered in the laboratory, department, area or plant of the institution receptor of the student. The contents on Marine Biology will be the handled in the centre receptor, previous agreement between the student, the internal tutor and the external tutor. The thematic offered to carry out the external practices will be varied, to cover the distinct formation expectancies of the student i.e. marine biotechnology, management of fisheries, coastal pollution and bioremediación, evaluation of resources, etc.

In line with the precise work in which the student will work at the receptor centre he/she will handle elements, processes and affine concepts to the education apprehended in the title, in terms of amplitude and multidisciplinary. The background obtained in the first year of the title, allows to adapt to any discipline demanded in the company, centre or institution of received of students in external practices. The extension of subjects during the practicum period has the support of internal and external tutors, to ensure the suitable training of the trainee.

Planning

	Class hours	Hours outside the classroom	Total hours
Practicum, External practices and clinical practices	404	45.0056	449.006
Report of practices, practicum and external practices	0.9944	0	0.9944

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

Methodologies

	Description
Practicum, External practices and clinical practices	<p>The practical will be of forced *tutela by an External Tutor of the centres and institutions with specific agreement with the *MBM (see in Criterion 5, general Explanation of the Plan of Studies) and by an Internal Tutor, necessarily Doctor and educational of the *Máster of Marine Biology. Each one of the centres receptors will be able to receive to several students in function of his annual demand.</p> <p>The student will integrate in the labour dynamics of an institute or department of investigation or in a company or centre of services.</p> <p>The student has to develop autonomous and cooperative works, to scale computational or experimental and on scientific appearances, technicians, economic or politicians applied to the study and exploitation of the half marine .</p>

Personalized assistance

Methodologies	Description
Practicum, External practices and clinical practices	The practical will be of forced *tutela by an External Tutor of the centres and institutions with specific agreement with the *MBM (see in Criterion 5 of the Memory of the Title the general Explanation of the Plan of Studies) and supervised by an Internal Tutor, necessarily Doctor and educational of the *Máster. They explain besides with the personalised attention of the central services of attention to the student, of the universities and of the faculties of *matrícula, in addition to the coordinators of matter and of degree, local and autonomic. It will ensure the achievement of the external practices for the achievement of the title, *redestinando if it was necessary, to the student to a centre of destination in which develop fully his capacities and expectations.
Tests	Description
Report of practices, practicum and external practices	The student will have at all times advice and scientific follow-up-technical of his tutors, for the preparation of the report of the external practices.

Assessment

Description	Qualification	Training and Learning Results
Practicum, External practices and clinical practices.	70	A1 B1 D1 A2 B2 D2 A3 B3 D3 A4 B4 D4 A5 B5 D5 B6 D6 B7 D7 D8

Report of practices, practicum and external practices	Assessment by the Jury of the quality of the memory of practices, its brief presentation and its defence. The report will be brief although it is advised that it collects all the formative aspects that the student wish to reflect, e.g. his experience in the host centre. The report must contain the place of destination, the dates and length of the practices and the name and signature of the external tutors. Also it must contain a reflection on the degree of achievement of the goals and competences pursued, the technics handled and the professional or academic improvement perceived by the student. The student can accompany graphic information and the report can be summarized, lectured and defended at the interuniversity court wich will publish the annual rules in December each year.	30	A1 B1 D1 A2 B2 D2 A3 B3 D3 A4 B4 D4 A5 B5 D5 B6 D6 B7 D7 D8
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Other comments on the Evaluation

Do not describe the specific competitions evaluated as they are specific of the thematic tackled in the centre centre receptor, stranger a priori, of the work assigned to the student and of the economic nature of the company or institution *conveniada to realise the practices.

Sources of information

Basic Bibliography

Complementary Bibliography

Recommendations

Other comments

The external practices are the more visible professional aspect of the Master and place the student in very fist-line professional situation. Thus, it is of great relevance the selection of the destination centre upon the capacities of the student, his potentialities and his preferences. The Master offers more than 20 agreed companies which will receive students from the Master as well as all the academic Departments from SUG and centres associated to Galician universities and several Spanish universities. Along the second semester each student, tutorized by his internal tutor of the PAT will outline his preferences with regard to the centres of destination offered or will promote agreements with new ones better fitting his expectancies.