Universida_{de}Vigo

Subject Guide 2023 / 2024

				Si	ubject Guide 2023 / 2024
IDENTIFYIN					
	cies of commercial interest	. Biology, parasitolo	gy and microbiolo	gy. Species ic	lentification
Subject	Marine species of				
	commercial				
	interest. Biology,				
	parasitology and microbiology.				
	Species				
	identification				
Code	V11M085V02104				
Study	Máster				
programme	Universitario en				
	Ciencia y				
	Tecnología de				
	Conservación de				
	Productos de la				
Descriptors	Pesca ECTS Credits		Choose	Year	Quadmester
Descriptors	3		Mandatory	lst	lst
Teaching	Spanish		Mandatory		
language	Galician				
Department					
Coordinator		ión			
Lecturers					
E-mail					
General description	The objective of this course is our country, as well as descri The aim is to know and under basic aspects of bivalve and of fishery products. Also, the alteration of the fish studying the microbiology of by DNA analysis.	bing the nutritional valu stand the fundamental crustacean biology, as v ing products and the fa	ues of fishery produ aspects of the biolo vell as acquiring ba actors that influence	cts. ogy of fish and o sic knowledge a their quality w	cephalopods and the about parasitology of ill be evaluated,
Code	nd Learning Results				
	s and understand knowledge th		opportunity to be or	iginal in the de	velopment and / or
	tion of ideas, often in a researd udents are able to integrate kr		complexity of makin	a judaments ba	ased on information that
	ncomplete or limited, includes				
	dge and judgments.				
	udents have the learning skills	that allow them to con	tinue studying in a	way that will be	largely self-directed or
autono					
	e students acquire the compre				
	e students develop the probler nd differentiate the main fishir				
	cal characteristics.	ig and aquaculture spe	cies of commercial	interest in our c	ountry, with its main
	ity, initiative and entrepreneur	ial spirit.			
	tment to ethics in the profession				
	esults from this subject				
Expected re	sults from this subject				Training and
					Learning Results

That students know how to identify marine species of commercial interest.	A1
	A3
	B1
	C1
	D4
That the students know the biology of the different fish, cephalopods, molluscs, bivalves and crustaceans	s. A3
	A5
	B4
	C1
	D4
That students know how to differentiate marine parasites of economic and sanitary importance.	A1
	A5
	B1
	C1
	D5
That the students know the pathogenic microorganisms and the norms that guarantee consumer health.	A1
	A3
	B1
	C1
	D4
	D5

Planning

	Class hours	Hours outside the classroom	Total hours
Lecturing	16	40	56
Case studies	4	7	11
Seminars	2	2	4
Objective questions exam	1	1	2
Self-assessment	1	1	2
*The information in the planning table is for guidance only and does not take into account the heterogeneity of the students.			

Methodologies	
	Description
Lecturing	Explanation by the lecturer of the contents of the course, theoretical bases and exercises to be developed by the student. Blackboard and audiovisual means will be used.
Case studies	Resolution of cases, doubts and queries both individually or in a small group regarding the follow-up and study of the course contents.
Seminars	Personalized and/or group tutorials: student interviews with the course's teaching staff for advice / development of activities of the learning process.

Personalized assistance			
Methodologies Description			
Lecturing	The lecturers will answer the questions posed by the students, in face-to-face or online tutorials, or by email.		

Case studies The student will be guided in the acquisition of basic skills and problem solving related to the subject matter of study. The progress of the student will be monitored.

Seminars

The student receives, in group and/or individually, advice from the teacher on the theoretical and practical concepts of the subject, for the development of the objectives of the course.

	Description	Qualification	-	Train	ing a	and
			Le	arnir	ig Re	esult
Lecturing	The attendance and participation of the students in the classes, in the discussion of contents and exercises, will be evaluated.	20	A1	B1 B4	C1	D4
Case studies	Problem solving and practical cases will be evaluated, as well as the student's autonomous work.	20	-	B1 B4	C1	D5
Objective questions exam	There will be an exam with multiple choice questions that will evaluate the theoretical and practical knowledge acquired in the course.		A1 A3 A5	B1 B4	C1	D4 D5
Self-assessment	Test-type questionnaires will be carried out through the teaching platform, so that students can evaluate their degree of acquisition of the subject's competences.		A1 A3 A5	B1 B4	C1	D4 D5

Other comments on the Evaluation

To pass the course, the student must obtain a grade equal to or greater than 4.5 points out of 10 in the final exam. In case of not reaching this grade, a "Fail" grade will be assigned, with the numerical value of the grade obtained in the final exam.

Sources of information
Basic Bibliography
Michael J. Leboffe and Burton E. Pierce.Morton, A photographic Atlas for Microbiology Laboratory, Pub. Co.,
J.G. Capuccino and N. Sherman., Microbiology. A laboratory Manual, 6ª edición. Benjamin/Cummings Company Inc,
Doyle, M.P., F. Diez-Gonzalez, C. Hill, Food Microbiology: Fundamentals and Frontiers, 5ª ed, ASM Press, 2019
Leboffe, M.J., B.E. Pierce, Microbiology Laboratory Theory & Application , 4ª ed, Morton Publishing Company, 2015
Leboffe, M.J., B.E. Pierce, A Photographic Atlas for the Microbiology Laboratory , Morton Publishing Company, 2021
Rigel, N., Laboratory Exercices in Microbiology, 12 ^a ed, McGraw-Hill Higher Education, 2022
Waite-Cusic, J.G., A. E. Yousef, J. J. Perry, Food Microbiology, 2ª ed, Willey, 2022
Complementary Bibliography
Case, J, Laboratory Experiments in Microbiology, 7ª ed. Pearson Benjamin,
http://www.ufrgs.br/para-site/taxono.htm, Atlas Electrónico de Parasitología,
http://planeta.terra.com.br/educacao/parasitepics/#protozoa,
http://martin.parasitology.mcgill.ca/JIMSPAGE/WORLDOF.HTM, The World of parasites,
http://www.biosci.ohio-state.edu, Directorio de Parasitología,
http://www.ent.iastate.edu/imagegallery, Galería Entomológica de la lowa state University,
http://www.med-chem.com/Para/index.htm, Paras-site Online ,
http://bumc.bu.edu/medicine, Web Page de Zoonosis,
http://cvm.msu.edu/courses/mic569/docs/parasite/index.html, Identificación de parásitos por internet,
http://www.parasitology.org.uk, British Society for Parasitology,
http://cal.vet.upenn.edu/parav/labs, Imágenes de parásitos ,
Macho G, Molares J. & amp; Vázquez E., Timing of larval release by three barnacles from NW Iberian Peninsula,
Marine Ecology Progress Series 298, 251-260.,
Primo C. & amp; Vázquez E., Zoogeography of the Southern Africa Ascidian Fauna., Journal of Biogeography 31,
1987-2009,
Bellas J., Beiras R. & amp; Vázquez E., A standardisation of Ciona intestinalis (Chordata, Ascidiacea) embryo-larval bioassay for ecotoxicological studies, Water Research 37, 4613-4622,
Vázquez E. & amp; Young C.M., Responses of compound ascidian larvae to haloclines., Marine Ecology Progress
Series 113, 179-190.,
O Young C.M., Vázquez E., Metaxas A. & amp; Tyler P.A, Embryology of Vestimentiferan Tube Worms from Deep-sea
Methane/Sulfide Seeps, Nature 381, 514-516.,
Capuccino, J.G., N. Sherman, Microbiology. A laboratory Manual, 12 ^a ed, Benjamin/Cummings Company Inc., 2019
Johnson, T.R., C.L. Case, Laboratory Experiments in Microbiology, 12 ^a ed, Pearson, 2019

Recommendations

Other comments