Universida_{de}Vigo

Expected results from this subject

Subject Guide 2017 / 2018

IDENTIFYIN				
	Fishery and Aquaculture Products			
Subject	Quality of Fishery			
	and Aquaculture			
<u> </u>	Products			
Code	V11M085V01302		1	
Study	(*)Máster			
programme	Universitario en			
	Ciencia e			
	Tecnoloxía de			
	Conservación de			
December	Produtos da Pesca	Channa	Vasu	Over due e abau
Descriptors	ECTS Credits	Choose	Year	Quadmester
	6	Mandatory	2nd	1st
Teaching	Spanish			
language				
Department				
	Tovar Rodríguez, Clara Asunción			
Lecturers	Barros Velázquez, Jorge			
	García Cabado, Ana			
	Losada Iglesias, Vanesa			
	Sotelo Sesto, Pablo			
	Tovar Rodríguez, Clara Asunción			
E-mail	tovar@uvigo.es			
Web General	http://webs.uvigo.es/pesca_master/ In this area, the modifications of the organoleptic charac			
description		shness of the fish food alterations d storage shall be s on will also be ac	nery products, as w uring storage and tudied. Microbiolog Idressed. In additio	vell as the methods for detecting gical criteria and on, rapid recognition
Competenc	cies			
Code				
B1				
B2				
materia	os estudantes desenvolvan as habilidades para realizar tr ais e biolóxicos e programas relacionados.			
	os estudantes desenvolvan as capacidades de traballo en			
B5 (*)Que	os estudantes desenvolvan a habilidade de elaboración, p	resentación e de	fensa de traballos	ou informes.
B6				
B7				
haberá	os estudantes posúan as habilidades de aprendizaxe que á de ser en gran medida autodirigido ou autónomo.	•		·
	erminar os criterios e procedementos para o control da cal axe utilizados no seu circuíto comercial. Coñecer os proced os			
C12 (*)Apro	os. oximación ao control de calidade de cada unha das liñas d s da xestión da calidade de produto.	e produción dos p	orodutos pesqueiro	s. Coñecementos
Learning o	outcomes			
Exported ro	sculte from this subject			Training and

Training and Learning Results

To know the basic aspects of the quality control of fishery and aquaculture products (PPAs)	B1
To know the basic aspects of the quality control of history and aquatantale products (1776)	B2
	B3
	B4
	B5
	B6
	B7
	B8
	C11
	C12
Wassellier and a standard and the standa	
Know the general aspects of quality control: packaging and packaging.	B1
	B2
	B3
	B4
	B5
	B6
	В7
	B8
	C11
	C12
Know the specific and operational aspects of quality control.	B1
	B2
	В3
	B4
	B5
	В6
	В7
	B8
	C11
	C12

Contents	
Topic	
SUBJECT 1. Basic aspects of the control of	- organoleptic and biochemical changes subsequent to capture.
Quality of fishery products and the	- Effects of refrigeration on loss of freshness.
Aquaculture (PPAs)	- Modifications of the constituents of fish during the Processing and
	storage.
	- Abiotic pollutants
SUBJECT 2. Microbiological aspects related	- Marine biotoxins.
With the conservation of the fish.	- Legislative progress and alternative methods.
	Rheology of gels for the determination of physical properties:
Fishery products	1) Oscillatory methods (test in tension sweeps and sweep of frequency;
	2) Static methods (load-recovery test, temperatura Constant:
	determination of gel strength, exponent of relaxation and relax time.
SUBJECT 4. Quality control in packaging. Defects.	
More common in packaged products.	- Know the guidelines of action in the daily practice of the industry.
SUBJECT 5. Practical classes	- Determination of sensory, chemical and microbiological parameters of
	the quality.
	- Nutritional composition, presence of additives and contaminants.

Planning			
	Class hours	Hours outside the	Total hours
		classroom	
Master Session	32	56	88
Group tutoring	3	2	5
Laboratory practises	25	25	50
Multiple choice tests	2	5	7

*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	Exposition by the teacher of the contents on the subject of study. bases.
	Theoretical and exercises of projects to be developed by the student.
Group tutoring	Resolution of doubts and queries, both in the individual level and in small group.
Laboratory practises	Determination of sensory, chemical and microbiological parameters of the quality, composition. Nutritional, presence of additives, contaminants

Personalized attention

Methodologies Description

Group tutoring The student will be guided in the acquisition of basic skills and related problem solving With the subject matter of study. The student's progress will be tracked.

Assessment				
	Description	Qualification	Training and Learning Resu	
Master Session	Master session Problem solving and case studies will be evaluated. So Like, the autonomous work of him student.	20	B1 C11 B2 C12 B7 B8	
Laboratory practis	sesThe performance and results of the Practice memory.	20	B3 C11 B4 C12 B5 B7 B8	
Multiple choice te	stsTest of test type The theoretical knowledge acquired in this subject will be evaluated, Through a test with test questions.	60	B1 C11 B2 C12 B7 B8	

Other comments on the Evaluation

Sources of information

Basic Bibliography

A. O. A. C., Official Methods of Analysis (14th edn). Association of Official Analytical Chemist, Ariington, USA,

FAO/DANIDA, El pescado fresco: su calidad y cambios de calidad,

FARBER J., DODOS K., **Principles of modified-atmosphere and sous vide product packaging.**, A technopnic Publishing Company Inc,

HEBARD, D. E., Flick G. J., Martin R. E., Occurrence and significance of trimethylamine oxide and its derivates in fish and shellfish. Chemistry and biochemistry of marine food products, Avi Publishing Co. Conneticut,

GOULD, New methods of preservation P., Blackie Academic and Professional,

Jae W. Park, Surimi and surimi sea food, 2nd edition,

Complementary Bibliography

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BEATTY S.A.., Studies of fish spoilage. I The trimetylamine oxide content of the muscle of fish of Nova Scotia., J. Fish Res. Bd. Can. 4 63-68,

CASTELL, C. H.; B. SMITH Y N. NEAL., **Production of dimethylamine in muscle of several species of gadoid fish during frozen storage, especially in relation to presence of dark muscle**, J. Res. Bd Can., 28 (1): 1-5,

CASTELL, C. H.; SMITH B. Y DYER, W. J., Simultaneous measurements of trimethylamine and diniethylarnine in fish, and their use for estimating quality of frozen storage gadoid fish., Fish Res. Bc/. Can., 31: 383-389,

COLLINS y. K., **Studies of fish spoilage. VIII: Volatile acid of cod muscle pressjuice**, J. Fish. Res. Bd. Can,, 5 (3): 197-202,

DYER W. J., **Ainines in fish muscle. 1** .**Colorimetric determiriation of trimethylainine as the picrate salt.**, 1 Fish res. Bd. Can., 6 (5): 351,

DYER W. J., Amines in fish Muscle. VI. Trimethylamine Oxide Content of Fish and Marine Invertebrates, J. Fish. Res Rd. Can., 8 (5).,

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Recommendations