Universida_{de}Vigo

Subject Guide 2023 / 2024

IDENTIFYIN	G DATA			
Science and	technology of fish related products			
Subject	Science and			
	related products			
Code	0016041V01702			
Study	Grado en Ciencia v			
programme	Tecnología de los			
	Alimentos			
Descriptors	ECTS Credits	Choose Year		Quadmester
	6	Mandatory 4th		1st
Teaching	Spanish			
language				
Department	Martínaz Cuáraz Sidania			
	Martínez Suárez, Sidonia			
Eeccurers F-mail				
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General	This discipline has like aims the study of the	nature of the products of the fishing.	and the	e causes of his
description	alteration, in addition to the fundamentos sc	ientific and the applications of the m	ethods ι	used for his processed
	conservation and diversification.			•
Training an	d Learning Results			
Code				
A2 Student	s will be able to apply their knowledge and sk	ills in their professional practice or ve	ocation	and they will show
they ha	ve the required expertise through the constru	iction and discussion of arguments ar	nd the re	esolution of problems
Within t	he relevant area of study.	litics into practice, whather these ha		dia ciplinary, characta
or not i	n both national and international contexts be	acoming familiar with a diversity of pe	ve multi	uscipillary character
thought	and practical procedures.		Jopeen	
C2 To be fa	miliar with the chemistry and biochemistry of	f food and of its associated technolog	ical prov	cesses.
C5 To be fa	miliar with the basic operations in the food in	dustry.	1	
C6 To be fa	miliar with the industrial processes linked wit	h the processing and transformation	of food.	
C12 Ability t	o make and preserve food.			
C15 Ability t	o develop new processes and products.			
C21 Ability t	o act as consultant in processes of marketizat	tion and distribution of products in th	e food ir	ndustry.
D1 Analysis	, organization and planning skills.			
D7 Ability t	o adapt to new situations in creative, innovati	ive ways.		
D8 Critical	and self-critical thinking skills.			
D9 Interdis	cipilnary teamwork skills.			
	resolution and negotiation skills.			
F				
Expected re	suits from this subject			raining and Learning
Expected res			11	Results
RA2: The stu	dent that there is cursado the asignatura with	buen aprovechamiento will remain	Δ2	B2 C2 D1
capacitado s	:Op:		/ \ <u>~</u>	C5 D7
- Develop his	professional activity like technician in an ind	ustry pesquera.		C6 D8
·	-	-		C12 D9
				C15 D10
				C21

Contents Торіс

Unit I: INTRODUCTION

Unit II: CLASSIFICATION PRODUCTS OF THE FISHING	Subject 2 The products of the fishing.
Unit III: COMPOSITION OF THE MUSCLE OF THE FISH	Subject 3 The muscle of the fish.
Unit IV: TRANSFORMATION OF THE MUSCLE IN MEAT	Subject 4 Biochemical changes post-mortem.
Unit V: QUALITY	Subject 5 Attributes of quality of the fish.
Unit SAW: SYSTEMS OF FISHING And *ESTIBA	Subject 6 Capture, manipulation and distribution of the fish.
Unit VII: SYSTEMS OF CONSERVATION And INDUSTRIALISATION	Subject 7 Refrigeration of the fish.
	Subject 8 Freezing of the fish.
	Subject 9 Salting and dehydration of the fish.
	Subject 10 Canned fish
	Subject 11 Semi-canned fish
	Subject 12 Smoked fish
	Subject 13 The molluscs.
	Subject 14 The crustaceans.
	Subject 15 The cephalopods.
	Subject 16 Surimi
	Subject 17 Concentrated proteic of fish muscle.
SEMINARS	1. Processed in the fish industry
	2. Fishing sector
	3. Seaweeds
	3. Other fish products
PRACTICES OF LABORATORY	1. Classification of fish
	2. Quality parameters of fish and fishery products
	3. Processing of fishery products

Planning			
	Class hours	Hours outside the classroom	Total hours
Lecturing	27	32.5	59.5
Seminars	14	15	29
Laboratory practical	14	4	18
Studies excursion	0	5	5
Mentored work	0	10.5	10.5
Seminars	0	2	2
Autonomous problem solving	0	1.5	1.5
Presentation	1	2	3
Learning-Service	0	20	20
Objective questions exam	0	1.5	1.5
The information in the planning table is	fau autologica a sulli canal ale come	h hales into a second that had	and a superior of the superior desides.

*The information in the	planning table is for	guidance only an	nd does not take into account the l	neterogeneity of the students.

Methodologies	
	Description
Lecturing	Lessons *magistrales in which they will expose the most important appearances of the subject to the student, with support of presentations in Power *Point, blackboard and transparency and with available material *FAITIC

Seminars	Will carry out different activities oriented to specific subjects related with the Science and the Technology of the Products *Pesqueros, that allow to deepen and complement the lessons *magistrales.			
	They will elaborate works using different tools TIC to apply the learning $*$ colaborativo in the classroom and out of her.			
	It will work of individual form or in group.			
Laboratory practical	They made activities where will apply the skills and knowledges purchased in the theoretical classes.			
	the protocols and using the materials supplied during the practices. The practical will be compulsory and indispensable to surpass the subject. It will allow a fault as long as this was justified. The students will have to elaborate a memory of practices.			
Studies excursion	They will make , whenever the sanitary situation allow it, visits to companies related with the industry *pesquera			
Mentored work	They will elaborate works using different tools TIC to apply the learning *colaborativo in the classroom and out of her.			
	It will work of individual form or in group.			
	The student will have to make bibliographic researches, collected of information, editorial, exhibition and defence of the work. It will make a follow-up of the work in *tutorías.			
Seminars	Will carry out different activities oriented to specific subjects related with the Science and the Technology of the Products *Pesqueros, that allow to deepen and complement the lessons *magistrales.			
Autonomous problem solving	They will propose practical cases and activities to do of autonomous form			
Presentation	The students will elaborate of individual form or in group a work on some/you of the subject/*s proposed, that will be in relation with some concrete appearance of the subject. The student will have to make bibliographic researches, collected of information, editorial, exhibition and defence of the work.			
Learning-Service	It offers him to the *estudiantado participate of voluntary form in the project "Feeding a sustainable future" devoted to the production and the responsible consumption, the hunger zero, the industry of			
	foods and the innovation. The participation will be voluntary. The students participants will receive material of support that will have to expand by means of bibliographic research. They will work in team.			
	They will make on-line informative activities and/or face-to-face in format of day/workshop/chats in the centres involved.			
	The application of this methodology is conditioned to his approval in the announcement *ApS 22-23.			
	For the students that do not participate in this activity, this methodology will be substituted by individual works or in group			

Personalized assistance			
Methodologies	Description		
Seminars	It will make a continuous follow-up of the students and will carry out a personalised attention, through the classes, of the resolution of exercises and of the control of the work made. Also they will be able to assist, if like this they wish it, to the *tutorías in group or customisedThe *tutorías relative to the teaching of the classes types To and *B will make of face-to-face form or in the virtual dispatch of the professor, through the remote campus in schedule of *tutorías and asking previous appointment through the email (sidonia@uvigo.es).		
Laboratory practical	It will make a continuous follow-up of the students and will carry out a personalised attention, through the classes, of the resolution of exercises and of the control of the work made. Also they will be able to assist, if like this they wish it, to the *tutorías in group or customisedThe *tutorías relative to the practices (hours type C) will follow the same procedure in the dispatches or virtual classrooms of the professors commissioned of his teaching, whose direction will communicate in his moment.		
Mentored work	It will make a continuous follow-up of the students and will carry out a personalised attention, through the classes, of the resolution of exercises and of the control of the work made. Also they will be able to assist, if like this they wish it, to the *tutorías in group or customisedThe *tutorías will follow the same procedure in the dispatches or virtual classrooms of the professors commissioned of his teaching, whose direction will communicate in his moment.		

Learning-Service

The professors will define the challenges for the groups participants and will design a stage oflearning will deliver the different tasks between the groups, and will guide in the process of realisation of the same

Assessment					
	Description	Qualificatior	n Training	g and Le Results	earning
Lecturing	In the total qualification will take into account, the participation of the student and the attitude. Results of learning evaluated: *RA1 and *RA2	2	B2	C2 C5 C6 C12 C15 C21	
Seminars	It will value the participation and the attitude, in addition to the correct realisation of all the activities posed.	2	- B2	C12 C15 C21	
Laboration and the l	Results of learning evaluated: *RA1 and *RA2		- 62	62	
Laboratory practical	It will value the participation, the attitude Resulted of learning evaluated: *RA1 and *RA2	7	В2	C2 C6 C12 C15 C21	
Mentored work	It will value the number, the quality of the works presented the exhibition and the defence	, 24	- B2	C15 C21	
	Resulted of learning evaluated: *RA1 and *RA2				
Autonomous problem solvir	gIt will value the realisation of the activities proposed *RA1, *RA2	5	A2 B2	C2 C5 C6 C12 C15 C21	D1 D7 D8 D9 D10
Learning-Service	It will make an assessment *multifocal of the project Resulted of learning evaluated: *RA1 to *RA6	20	A2 B2	C2 C5 C6 C12 C15 C21	D1 D7 D8 D9 D10
Objective questions exam	They will make one or two test type test and of short questions	40	-	C2 C6 C12	
	Resulted of learning evaluated: *RA1 and *RA2		_	C15 C21	

Other comments on the Evaluation

Sources of information

Basic Bibliography

HALL, G.M., Tecnología del procesado del pescado., Acribia, (2001).

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Recommendations