

UNIVERSIDAD DE CASTILLA - LA MANCHA

GUÍA DOCENTE

1. General information

Course: (EDIBLE) OILS AND FATS					Code: 58329				
Type: CORE COURSE				ECTS credits: 6					
383 - UNDERGRADUATE DEGREE PROGRAMME AND TECHNOLOGY				E IN FOOD SCIENCE Academic year: 2023-24					
Center: 1 - FACULTY OF SCIENCE AND CHEMICAL TECHNOLOGY					Group(s): 22				
Year: 4 Duration: First semester									
Main language: S	panish			Secor	id language:				
Use of additional languages:				Engl	ish Friendly: Y				
Web site:					Bilingual: N				
Lecturer: SERGIO GON	MEZ ALONSO - Group(s): 22								
Building/Office	Department	Phone num	ber Email	er Email Office hours					
IRICA/Primera planta	Q. ANALÍTICA Y TGIA. ALIMENTOS	926052829	sergio.gome	ez@uclm.es	Send an email to arrange a day and time of the tutorial.				
Lecturer: MARIA DESAMPARADOS SALVADOR MOYA - Group(s): 22									
Building/Office	Department	Phone number	Email		Office hours				
Marie Curie, 1a planta	Q. ANALÍTICA Y TGIA. ALIMENTOS	3422	amparo.salvador@uclm.es Send an email to arrange a day and		Send an email to arrange a day and time of the tutorial.				

2. Pre-Requisites

It is recommended to have passed the subjects 'Estructura y propiedades de los componentes de los alimentos', 'Bromatología', 'Tecnología de Alimentos' y 'Análisis Sensorial'.

3. Justification in the curriculum, relation to other subjects and to the profession

The main objective of this subject is to adquire basic knowledge and skills applied to the composition, characterization and manufacture of main edible fats and oils.

Due to the great relevance in our nutrition, virgin olive oil is studied in more detail.

4. Degree competences achieved in this course

CodeDescriptionCB03Be able to gather and process relevant information (usually within their subject area) to give opinions, including reflections on re social, scientific or ethical issues.CB04Transmit information, ideas, problems and solutions for both specialist and non-specialist audiences.CB05Have developed the necessary learning abilities to carry on studying autonomouslyE04To know the basic fundamentals of instrumentation and process control in the food industryE05To know the composition, phyco-chemical properties, nutritional value and sensory properties of foodsE06To know and be able to handle the techniques and procedures of food analysisE08evaluate their acceptability by consumersE09To know, optimize and control the production and conservation food processingE11To qualify to be able to evaluate the effects of processing on the components and properties of foodsE12To acquire knowledge on equipments and systems for the automatization and control of food processingE13To know the organoleptic properties of foods and be able to apply methodology and techniques of sensory analysisE18To adquire knowledge on microbiology and biotechnology and their applications in the food Sensory analysisE19To know the fundamentals of quality and traceability systems and be able to perform their deploy, as well as to evaluate and cor food qualityE22To perform formation of staff in the food sectorE34To adsuire this ability, a series of actions that will be specified in every module will be peformed).G05To understand and to use the English language, both written and spok	Course competences							
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Course learning outcomes

Description

To acquire skills regarding the physico-chemical analysis in the food (edible fats, grape and wine, dairy and meat products).

To acquire basic and applied knowledge on the majority and minority chemical compounds with influence in the sensory properties (color, smell, flavor, texture), or related to technological processes or of instability of the different food studied.

To qualify the stutent in order to determine the effects of the technological processes on the composition of the above mentioned food.

To have knowledge on the quality control and the procedeures that guarantee the traceability of the meat and dairy products, wine, fats and oils.

To advance in the knowlegde of the physico - chemical, nutritional and functional properties, as well as the alterations that can experiment the cereals and its derivatives, as well as of different type of drinks.

To learn how to detect the origin of defects in processed foods and their possible prevention or correction.

6. Units / Contents

Unit 1: Introduction to edible fats and oils.

- Unit 2: Vegetable oils.
- Unit 3: Fats and oils processing

Unit 4: Refining of fats and oils

- Unit 5: Virgin olive oil
- Unit 6: Fats of anima origin
- Unit 7: Practical activities

7. Activities, Units/Modules and Methodology								
Training Activity	Methodology	Related Competences (only degrees before RD 822/2021)	ECTS	Hours	As	Com	Description	
Class Attendance (theory) [ON- SITE]	Lectures		1.28	32	Y	N		
Class Attendance (practical) [ON- SITE]	Practical or hands-on activities		0.85	21.25	Y	Y		
Workshops or seminars [ON-SITE]	Project/Problem Based Learning (PBL)		0.1	2.5	Y	Y		
Group tutoring sessions [ON-SITE]	Group tutoring sessions		0.05	1.25	Y	N		
Practicum and practical activities report writing or preparation [OFF- SITE]	Cooperative / Collaborative Learning		1	25	Y	N		
Study and Exam Preparation [OFF- SITE]	Self-study		2.6	65	Y	N		
Progress test [ON-SITE]	Assessment tests		0.12	3	Y	N		
Total:				150				
Total credits of in-class work: 2.4				Total class time hours: 60				
Total credits of out of class work: 3.6				Total hours of out of class work: 90				

As: Assessable training activity

Com: Training activity of compulsory overcoming (It will be essential to overcome both continuous and non-continuous assessment).

8. Evaluation criteria and Grading System								
Evaluation System	Continuous assessment	Non- continuous evaluation*	Description					
Progress Tests	70.00%	70.00%	Written examen on theoretical knowledge and practical activities					
Portfolio assessment	30.00%	30.00%	Assessment of educational activities					
Total:	100.00%	100.00%						

According to art. 4 of the UCLM Student Evaluation Regulations, it must be provided to students who cannot regularly attend face-to-face training activities the passing of the subject, having the right (art. 12.2) to be globally graded, in 2 annual calls per subject, an ordinary and an extraordinary one (evaluating 100% of the competences).

Evaluation criteria for the final exam:

Continuous assessment:

Defined in Campus virtual.

Non-continuous evaluation:

Defined in Campus virtual.

Specifications for the resit/retake exam:

none

Specifications for the second resit / retake exam: None

9. Assignments, course ca	lendar and important dates
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Not related to the syllabus/contents	
Hours	hours

10. Bibliography and Sources								
Author(s)	Title/Link	Publishing house	Citv	ISBN	Year	Description		
Alba Mendoza, José	Aceite de oliva virgen : análisis sensorial	Editorial Agrícola Española Ministerio de Med	l	978-84-85441-92-1	2008			
Comisión Mixta FAO/OMS del Codex Alimentarius	Codex alimentarius. volumen 8. Grasas y aceites y productos	Organización de las Naciones Unidas para la Agr		92-5-303268-5	1993			
Edited R.E. O`Brien; W.E. Farra	Introduction to Fats and Oils technology	American Oil Chemists' Society		0-893997-13-8	2000			
Graciani Constante, Enrique	Los aceites y grasas : composición y propiedades	A. Madrid Vicente Mundi Prensa		84-8476-272-6	2006			
Lawson, Harry	Aceites y grasas alimentarios : tecnología, utilización y nu	Acribia		84-200-0880-X	1999			
Madrid Vicente, Antonio	Manual de aceites y grasas comestibles	A. Madrid Vicente Mundi Prensa		84-87440-60-6 (A. Ma	1997			
Aparicio, Ramón	Manual del aceite de oliva	A. Madrid Vicente, Edicones Ediciones Mundi-P		84-8476-038-3 (Edici	2003			