



Universidad de Jaén
FACULTY OF EXPERIMENTAL SCIENCES

Olive oil technology

2024-2025
Grado en Química



GRATIS



Acceso Mayores 40

Guías docentes UJA

Horarios de tutorías

Llamamientos PEvAU

Movilidad (Coordinador)

P.O.D.

Solicitud bilingüismo

Syllabus 2024-25 - 10313012 - Olive Oil Technology (Tecnología del aceite de oliva)

Caption

- Level 1: Tutorial support sessions, materials and exams in this language
- Level 2: Tutorial support sessions, materials, exams and seminars in this language
- Level 3: Tutorial support sessions, materials, exams, seminars and regular lectures in this language

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DEGREE:

Grado en Químicas

FACULTY:

FACULTY OF EXPERIMENTAL SCIENCES

ACADEMIC YEAR:

2024-25

COURSE:

Olive Oil Technology

SYLLABUS

1. COURSE BASIC INFORMATION

NAME: Olive Oil Technology

CODE: 10313012

ACADEMIC YEAR: 2024-25

LANGUAGE: English

LEVEL: 2

ECTS CREDITS: 6.0

YEAR: 4

SEMESTER: SC

2. LECTURER BASIC INFORMATION

NAME: SÁNCHEZ VILLASCLARAS, SEBASTIÁN

DEPARTMENT: U122 - INGENIERÍA QUIM., AMBIENTAL Y DE LOS MAT.

FIELD OF STUDY: 555 - INGENIERÍA QUÍMICA

OFFICE NO.: B3 - 406

E-MAIL: ssanchez@ujaen.es

P: 953212219

WEBSITE: <https://www10.ujaen.es/conocenos/departamentos/ingqui/3451>ORCID: <https://orcid.org/0000-0003-1993-0227>

LANGUAGE: -

LEVEL: 2

3. CONTENT DESCRIPTION

Unit 1.- Characteristics of oleaginous raw materials

Unit 2.- Elaboration of oils. Preliminary operations

Unit 3.- Extraction processes of olive oils

Unit 4.- Extraction with solvent

Unit 5.- Extraction of olive pomace oils

Unit 6.- Refining processes

Unit 7.- Conservation and packaging

Unit 8.- Fat transformations

Unit 9.- Utilization of by-products and effluent treatment

Lab Practices:

- Characterization of the olive fruit
- Olive oil processing systems
- Olive pomace oil extraction
- Physicochemical characterization of virgin and refined olive oils

INTEGRATION OF THE 'SUSTAINABLE DEVELOPMENT GOALS' (SDG)

The contents of the subject 'Olive Oil Technology' connect with the SDG-12 (Responsible production and consumption), SDG-7 (Sustainable and non-polluting energy), SDG-6 (Clean water and sanitation), SDG-4 (Quality education) and SDG-3 (Health and well-being)

4. COURSE DESCRIPTION AND TEACHING METHODOLOGY

SECOND QUARTER SUBJECT

Distribution of the number of hours

- **Theoretical classes: 40**
- **Technical visits: 4**
- **Practical classes: 14**
- **Specialized tutorials (face-to-face or virtual): 2**

Students with special educational needs should contact the Student Attention Service (Servicio de Atención y Ayudas al Estudiante) in order to receive the appropriate academic support

5. ASSESSMENT METHODOLOGY

- Oral and written test of theoretical knowledge
- Assessment of exercises during the development of the subject
- Assessment of laboratory practical work and the final report that must perform
- Establishing a direct relationship with the student

6. BOOKLIST ([Access the bibliography in the Library catalog](#))**MAIN BOOKLIST:**

- Handbook of Olive Oil. Edition: 2ª. Author: Aparicio, Ramón; Harwood, John (Editores). Publisher: Springer ([Library](#))
- Olive oil : chemistry and technology . Edition: Second edition.. Author: Boskou, Dimitrios.. Publisher: AOCS Press.
 - **Notes:** PATIE ([Library](#))

ADDITIONAL BOOKLIST:

- Variedades de olivo en España. Edition: -. Author: Rallo, L. et al.. Publisher: Sevilla: Junta de Andalucía, Consejería de Agricultura Pesca y Alimentación ; Madrid: Ministerio de Agricultura Pesca y Alimentación, Secretaría General Técnica, Centro de Publicaciones: Mundi Prensa, ([Library](#))
- Olive oil: minor constituents and health . Edition: -. Author: Boskou, Dimitrios, ed. lit.. Publisher: CRC Press.
 - **Notes:** PATIE ([Library](#))

7. SUSTAINABLE DEVELOPMENT GOALS

Fin de la pobreza

Salud y bienestar

Educación de calidad

DETAILED INFORMATION

ODS-06 Clean water and sanitation

ODS-07 Clean energy and non-pollution

ODS-08 Industry, innovation and infrastructure

8. VIRTUAL / CLASSROOM TEACHING SCENARIO

According to the trajectory of previous academic courses, 'Olive Oil Technology' is framed as a subject consisting of a small number of students. Therefore, it is possible to choose a mixed or fully face-to-face scenario.

In this scenario, there will be no problems for the development of theoretical or laboratory classes.

The aspects of methodology, evaluation system and resources are indicated below:

1. METHODOLOGY AND TRAINING ACTIVITIES

A1 - Theoretical group classes are face-to-face if the situation allows it and according to the time distribution that we have.

A2 - Classes in practice groups:

The 4 sessions of laboratory practices of this subject will be carried out in person if the situation allows it. The presentations and expositions of the students of the report of the practices, like in other academic courses, will be sent to the Professor for his review and evaluation.

The scheduled visit to companies, which has not yet been carried out, will be replaced by videoconference sessions by preparing a virtual visit to an oil mill and an extraction plant of pomace

2.EVALUATION SYSTEM

ASPECT		INSTRUMENT	VALUE
Assessment of Assistance and participation at class		Register	20 %
Carrying out work or exercises		Works	10 %
Laboratory practices		Register and Report submitted	20 %
Non-Presence Exam		Oral test or test type	50 %

The exam will be face-to-face if the social health situation allows it.

3. RESOURCES

Classes are taught using the Suite Meet application proposed by the University of Jaen for the development of teaching activity.

Students must have adequate equipment and Internet connection.

9. VIRTUAL TEACHING SCENARIO

For a non face-to-face scenery, both theoretical and practical teaching, will take place via 'on-line'

1.METHODOLOGY AND TRAINING ACTIVITIES

A1 - Theoretical group classes are being held through videoconferences with all students, according to the time distribution we have.

A2 - Classes in practice groups: I

The presentations and expositions of the students of the report of the practices, like in other academic courses, will be sent to the Professor for his review and evaluation.

The scheduled visit to companies, which has not yet been carried out, will be replaced by videoconference sessions by preparing a virtual visit to an oil mill and an extraction plant of pomace oils.

No changes have been made in the formation activity. The only difference is that instead of face-to-face classes the teaching activity is developed through videoconference using the same time distribution that the face-to-face classes were assigned.

2.EVALUATION SYSTEM

ASPECT		INSTRUMENT	VALUE
Assessment of Assistance and participation at class		Register	20 %
Carrying out work, cases or exercises		Works	10 %
Laboratory practices		Register and Report submitted	20 %

Non-Presence Exam		Oral test or test type	50 %
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If necessary, the Non-Face-to-Face Exam will be held on the date and time established in the academic calendar for the extraordinary call II.

This non-face-to-face exam will be carried out as indicated below:

- On the one hand, the ILIAS O GOOGLE FORM virtual teaching platform will be used to carry out the evaluation test.

On the other hand, to verify the identity of the students and take the test, the students will be required to connect to a Meet Google session, leaving the microphone and camera open.

3. RESOURCES

Classes are taught using the GSuite Meet application proposed by the University of Jaen for the development of teaching activity.

Students must have adequate equipment and Internet connection

DATA PROTECTION CLAUSE (on line exams)

Institution in charge of data processing: Universidad de Jaén, Campus Las Lagunillas, s/n, 23071 Jaén

Data Protection Delegate: dpo@ujaen.es

Purpose: In accordance with the Universities Law and other national and regional regulations in force, carrying out exams and assessment tests corresponding to the courses students are registered in. In order to avoid frauds while sitting the exam, the exam will be answered using a videoconference system, being able the academic staff of the University of Jaén to compare and contrast the image of the person who is answering the exam with the student's photographic files. Likewise, in order to provide the exam with evidential content for revisions or claims, in accordance with current regulation frameworks, the exam will be recorded and stored.

Legitimacy: compliance with legal obligations (Universities Law) and other national and regional regulations currently in force.

Addressees: service providers who are the owners of the platforms where the exams are carried out and with whom the University of Jaén has signed the corresponding data access contracts.

Storage periods: those established in current in force regulations. In the specific case of exam videoconference recordings, not before the examination records and transcripts are closed or the exam can still be reviewed or challenged.

Rights: you can exercise your right of access, amendment, cancellation, opposition, suppression, limitation and portability by sending a letter to the postal or electronic address indicated above. In the event that you consider that your rights have been violated, you may submit a complaint to the Andalusian Council for Transparency and Data Protection www.ctpdandalucia.es

CLASS RECORDING CLAUSE PERSONAL DATA PROTECTION

Person in charge: Universidad de Jaén, Paraje Las Lagunillas, s/n; Tel.953 212121; www.ujaen.es

Data protection delegate (DPO): TELEFÓNICA, S.A.U. ; Email: dpo@ujaen.es

Procedure aim: To manage proper recordings of teaching sessions with the aim of facilitating learning process under a multimodal and/or online teaching

Period for record storage: Images will be kept during legal term according to regulations in force

Legitimacy: Data will be managed according to legal regulations (Organic Law 6/2001, December 21, on Universities) and given consent provided by selecting corresponding box in legal admission documents

Data recipients (transfers or assignments): Any person allowed to get access to every teaching modality

Rights: You may exercise your rights of access, rectification, cancellation, portability, limitation of processing, deletion or, where appropriate, opposition. To exercise these rights, you must submit a written request to the Information, Registration and Electronic Administration Service of the University of Jaen at

the address above, or by e-mail to the address above. You must specify which of these rights you are requesting to be satisfied and, at the same time, you must attach a photocopy of your ID card or equivalent identification document. In case you act through a representative, legal or voluntary, you must also provide a document that proves this representation and identification. Likewise, if you consider that your right to personal data protection has been violated, you may file a complaint with the Andalusian Data Protection and Transparency Council www.ctpdandalucia.es

Campus Las Lagunillas s/n | 23071 - Jaén

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