



Universidad de Jaén

FACULTY OF EXPERIMENTAL SCIENCES

Waste and Soil Management and Treatment

2024-2025

Grado en Ciencias Ambientales



GRATIA



Acceso Mayores 40

Guías docentes UJA

Horarios de tutorías

Llamamientos PEvAU

Movilidad (Coordinador)

P.O.D.

Solicitud bilingüismo

Syllabus 2024-25 - 10412005 - Waste and Soil Management and Treatment (Gestión y tratamiento de residuos y suelos)

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

[Back](#)[Full version \(Spanish\)](#)[English](#)

DEGREE:

Grado en Ciencias Ambientales

FACULTY:

FACULTY OF EXPERIMENTAL SCIENCES

ACADEMIC YEAR:

2024-25

COURSE:

Waste and Soil Management and Treatment

SYLLABUS

1. COURSE BASIC INFORMATION

NAME: Waste and Soil Management and Treatment

CODE: 10412005

ACADEMIC YEAR: 2024-25

LANGUAGE: English

LEVEL: 2

ECTS CREDITS: 6.0

YEAR: 3

SEMESTER: SC

2. LECTURER BASIC INFORMATION

NAME: ROMERO PULIDO, MARÍA INMACULADA

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

FIELD OF STUDY: 790 - TECNOLOGÍAS DEL MEDIO AMBIENTE

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ORCID: <https://orcid.org/0000-0002-4152-8034>

LANGUAGE: -

LEVEL: 2

3. CONTENT DESCRIPTION

SOLID WASTE MANAGEMENT. Domestic waste management. Physical, chemical, thermal and biological treatments. Management of hazardous residues. Other kind of wastes. Waste minimization.

TREATMENT OF POLLUTED SOILS. Physical, chemical, thermal and biological treatments.

Practical sessions:

4. COURSE DESCRIPTION AND TEACHING METHODOLOGY

Lectures and seminars: Exposure of theoretical content and applied examples (Spanish language)

Laboratory practices: Experiments in small groups about biodiesel production from residual oil and characterization (Spanish language)

Technical visits to facilities related to the treatment of wastes.

Other activities: Analysis of practical cases and oral presentations by the students (They could be in English language for foreign students)

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

Exam could be answered in English in the case of foreign students.

Practical activities reports and oral presentation of the practical work could be performed in English in the case of foreign students.

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

MAIN BOOKLIST:

- Soil Remediation and Rehabilitation [Recurso electrónico] : Treatment of Contaminated and Disturbed. Edition: -. Author: Meuser, Helmut. Publisher: Dordrecht : Springer Netherlands : Imprint: Springer, 2013 ([Library](#))
- Solid Waste Management [Recurso electrónico] : Principles and Practice. Edition: -. Author: Chandrappa, Ramesha.. Publisher: Berlin, Heidelberg : Springer Berlin Heidelberg : Imprint: Springer, 2012 ([Library](#))
- Life cycle assessment student handbook edited by Mary Ann Curran.. Edition: Test edition. Author: Curran, Mary Ann, editor.. Publisher: Scrivener Publishing ([Library](#))

7. SUSTAINABLE DEVELOPMENT GOALS

Agua limpia y saneamiento

Energía asequible y no contaminante

Ciudades y comunidades sostenibles

Producción y consumo responsables

Acción por el clima

Vida submarina

Vida de ecosistemas terrestres

DETAILED INFORMATION

These contents connect with the United Nations Sustainable Development Goals (SDGs). Mainly the topics related to waste management and treatment will reinforce SDGs 7 (Affordable and clean energy), 11 (Sustainable cities and communities), 12 (Responsible production and consumption), 13 (Climate action), 14 (Life below water) and 15 (Life on land), while the topics in the block dedicated to soil treatment will mainly contribute to the achievement of SDG 6 (Clean water and sanitation).

8. VIRTUAL / CLASSROOM TEACHING SCENARIO

Teaching methodology:

- lectures and seminars will be face to face or online

- laboratory sessions will be face-to-face on a rotational system.

- analysis of practical cases and oral presentations will be face-to-face or online, depending on the socio-health situation.

The adaptation to online teaching implies the use of synchronous and asynchronous activities with the support offered at the Intranet site of Virtual teaching at Universidad de Jaén and videoconferences by Hangout Meet.

9. VIRTUAL TEACHING SCENARIO**TEACHING METHODOLOGY**

The online videoconference system Google Meet substitute face-to-face interaction in the same official week, days and times established in the official timetables.

Practical session will be replaced by learning activities online (synchronous/ asynchronous) such as virtual technical visits to facilities related to the management and treatment of wastes.

ASSESSMENT SYSTEM

- Online final exam in the virtual classroom (Hangout Meet): 50%
- Practical activities: 50%

RESOURCES AND FACILITIES

Analysis of practical cases and oral presentations will be online with Google Meet.

The adaptation to online teaching implies the use of synchronous and asynchronous activities with the support offered at the Intranet site "Docencia Virtual" at Universidad de Jaén and videoconferences by Hangout Meet.

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