



Universidad de Jaén

School of Engineering of Linares

Operations management

2024-2025

Máster Universitario en Industria Conectada



GRUEA



Acceso Mayores 40

Guías docentes UJA

Horarios de tutorías

Llamamientos PAU

Movilidad (Coordinador)

P.O.D.

Solicitud bilingüismo

Syllabus 2024-25 - 78412002 - Operations Management (Dirección de operaciones)

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:

Máster Univ. en Industria conectada

FACULTY:

SCHOOL OF ENGINEERING OF LINARES

ACADEMIC YEAR:

2024-25

COURSE:

Operations Management

SYLLABUS

1. COURSE BASIC INFORMATION

NAME: Operations Management

CODE: 78412002

ACADEMIC YEAR: 2024-25

LANGUAGE: English

LEVEL: 2

ECTS CREDITS: 4.0

YEAR: 1

SEMESTER: PC

2. LECTURER BASIC INFORMATION

NAME: MOYANO FUENTES, JOSÉ

DEPARTMENT: U136 - ORG. DE EMPRESAS, MÁRKETING Y SOCIOLOGÍA

FIELD OF STUDY: 650 - ORGANIZACIÓN DE EMPRESAS

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ORCID: <https://orcid.org/0000-0002-8702-6419>

LANGUAGE: -

LEVEL: 2

3. CONTENT DESCRIPTION

1) Strategic Operations Management

- Strategic relevance of operations management
- Evolution of production systems
- Strategic decisions in the operations area
- Measuring results in the area of operations

2) Lean Production

- Origin, concept and principles of Lean Production
- Tools and management practices integrated in Lean Production
- The role of human resources in lean environments
- The role of ITs in the implementation of Lean Production

3) Purchasing and warehouse management

- The purchasing process
- Selection and evaluation of suppliers. Negotiation
- Fundamentals of logistics
- Design and organisation of warehouses and inventory policies.
- The role of ICT in the management of stores and warehouses.

4) Supply chain management

Supply Chain Management Strategy: Conceptualisation and Evolution

Model for Supply Chain Management

Industry 4.0: Technology Characterisation in the Supply Chain Domain

Impact of Industry 4.0 on principles, practices, tools and indicators of supply chain management.

5) Total Quality Management.

- Fundamentals and basic concepts related to total quality management.

- Tools for quality management
- Statistical process control
- Quality management and industry 4.0

4. COURSE DESCRIPTION AND TEACHING METHODOLOGY

To develop the theoretical contents of the subject, the participative master class will be used. Specifically, during the classes, stimulus questions will be asked to involve the students in the classes and they will be asked to provide examples of the aspects that are being explained at any given time.

The master classes will be made more dynamic with commentaries on videos used in class and cases and readings given to the students.

In order to check the degree of assimilation of the theoretical concepts explained in the master class, practical cases will be proposed which the students will have to hand in in writing.

The master class will also be combined with problem-solving sessions to apply the analytical procedures that have been explained to specific numerical exercises.

A strategy game will also be used to teach students how to make decisions related to the field of operations management.

Finally, a final exam will be held to assess the overall understanding of the subject.

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

The grade for the course will be the result of weighting the grades achieved in the exam, in the cases and written assignments, in the presentations and exhibitions together with the individual monitoring of the student.

The exam will represent 55% of the final grade and will consist of multiple-choice questions and concept questions.

This evaluation system develops the following competences: CB10, CB6, E03MIC and EO4MIC. In turn, it allows the following learning outcomes to be achieved: RB6, RB7, RB9, RE03MIC, REO4MIC, RE05MIC, RE06MIC, REO7MIC, RE08MIC and RG4MIC.

The delivery of written assignments and cases will have an individual or group character together with presentations and exhibitions will represent 40% of the final grade.

This system develops the following competences: CB7, CB8, CG1MIC, CG3MIC, CG4MIC, CT1, CT4, CT5 and E05MIC and allows to achieve the following learning outcomes: RB7, Rb7b, Rb7C, RB8, RE03MIC, RE04MIC, RE05MIC, RE06MIC, RE07 MIC, RE08MIC, RG1MIC, REG3MIC, RG4MIC, RT1, RT4 and RT5.

Finally, individual monitoring of the student will be carried out by assessing their participation in class and will be weighted with 5% of the final grade.

This assessment system develops the following competences: CB6, CB7, CB8, CB9, CT1, CT5 and E05MIC. In turn, it allows the following learning outcomes to be achieved: rRB7, RB9, RE03MIC, REO4MIC, RE05MIC, RE06MIC, RE07MIC, RE08MIC, RG4MIC and RT4.

The face-to-face classes are of a practical and compulsory nature.

According to the Regulations of academic regime and evaluation of the students of the University of Jaén (approved by the Governing Council no. 33, 21/11/2013 in its article 18 point 4), to be eligible for the ordinary and extraordinary call it is necessary to have attended at least 80% of the classroom sessions of the subject.

Therefore, if the student has not attended at least 80% of the face-to-face sessions of the subject, he/she will not be able to take either the ordinary or the extraordinary call.

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

MAIN BOOKLIST:

- Decisiones estratégicas de la dirección de la producción y operaciones. Edition: -. Author: Daniel Arias Aranda y Beatriz Minguella Rata. Publisher: Pirámide ([Library](#))

7. SUSTAINABLE DEVELOPMENT GOALS

Industria, innovación e infraestructura

Producción y consumo responsables

DETAILED INFORMATION

Part 1 (Strategic Operations Management) is associated with SDG9: Industry, Innovation and Infrastructure.

Parts 2 (Lean Production), 3 (Purchasing and Warehouse Management), 4 (Supply Chain Management) and 5 (Quality Management) are associated with SDG 12 (Responsible Consumption and Production).

8. VIRTUAL / CLASSROOM TEACHING SCENARIO

Methodology

In the event that the capacity of the classroom assigned to teach the master's degree does not allow the safety distance to be guaranteed, the classes, both master classes and practical sessions, will be taught in rotational classroom mode with two subgroups at 50%, for which the class list will be divided into two with the same number of students in alphabetical order. Attendance will be on alternate days for each group, with live online retransmission for the subgroup that is not attending.

Assessment System

Although the same assessment instruments will be used as in the face-to-face mode, some of the weights given to the different instruments will be modified. These instruments will be:

1. Attendance and participation (5%).

Class attendance in this scenario is still compulsory. Students must attend at least 80% of the sessions. Likewise, active participation in class and in debates will also be valued.

2. The delivery of written assignments and cases will have a weight of 45%.

3. The exam will have a weight of 50%. The exam will take place online. Students must connect to the google meet platform on the scheduled date and time and have the video activated during the exam.

Timing

In this scenario, the number of classroom hours is reduced by 50% compared to the normal situation.

9. VIRTUAL TEACHING SCENARIO

Methodology

In this case, all the teaching will be given by videoconference in a synchronous way through the google meet tool.

Assessment System

Although the same assessment instruments will be used as in the face-to-face mode, the weights given to the different instruments will be modified. These weights coincide with those of the multimodal or mixed scenario:

Attendance and participation (5%).

Class attendance in this scenario is still compulsory. Students must attend at least 80% of the sessions. Active participation in class and in debates will also be assessed.

The delivery of written assignments and cases will have a weight of 45%.

The exam will have a weight of 50%. The exam will take place online. Students must connect to the google meet platform on the scheduled date and time and have the video activated during the exam.

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

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