

## 39730 - Economic Engineering

### Syllabus Information

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**Academic year:** 2024/25

**Subject:** 39730 - Economic Engineering

**Faculty / School:** 175 - Escuela Universitaria Politécnica de La Almunia

**Degree:** 608 -

**ECTS:** 6.0

**Year:** 5

**Semester:** Second semester

**Subject type:** Compulsory

**Module:**

### 1. General information

The main objective is the knowledge and use of basic economic instruments aimed at the analysis of information for business management, allowing managers to make operational and strategic decisions based on the study and estimation of costs, productivities, revenues and results.

### 2. Learning results

1. Identify and know how to calculate the different types of costs for each production environment and distribute them among products, services and areas of the company for decision making.
2. Establishes the company's profitability threshold and performs cost-volume-profit sensitivity analysis to overcome uncertainty in the company's decision making process.
3. Develops productivity scorecards and develops integral learning and improvement systems in the organization.
4. Make strategic and economic decisions on internalization or outsourcing of the company's production and logistics activities logistics activities of the company.
5. Establishes sales prices for the company's products and services in the market.
6. Make decisions about quality management in the company with the analysis of quality costs.
7. Prepares budgets for purchase orders, projects and various activities in the company.

### 3. Syllabus

List of contents to be developed in the subject:

- Concept and types of costs
- Cost Management Systems. Models and Structures
- Management Indicators
- Cost-volume-benefit analysis
- Price-fixing
- Depreciation methods
- Assessment of Quality Costs
- Economic Evaluation and selection of financing and investment projects

### 4. Academic activities

**Master classes, 28h:** Sessions of theoretical exposition and resolution of representative problems

**Practical sessions in the classroom, 31h:** Problem solving sessions, presentation and discussion of case studies

**Evaluation tests, 6h:** Tests in Continuous Assessment

**Tutored activities, 40h:** Tutored exercises and case studies distributed throughout the semester

**Autonomous student activities, 45h:** For personal study

### 5. Assessment system

An optional Continuous Assessment System is proposed, in addition to the Global Assessment System.

**Continuous Evaluation System** contains practical and theoretical tests throughout the semester

- **Practical tests**, involving the resolution of theoretical and practical exercises. 70% of the final grade.

The evaluation criteria are the obtaining of results, analysis and interpretation of the results

- **Theoretical tests**, with short open-answer and multiple-choice questionnaires. 30% of the final grade.

The evaluation criteria for open-ended questions include the accuracy, relevance and clarity of the answer.

Eligibility **requirements**:

- Participation in all the evaluative tests that comprise it, obtaining in each one of them a minimum grade of 30%.
- Minimum attendance at 80% of the semester's face-to-face activities

**Global Assessment System** corresponds to a single exam in an official call, in which the same type of tests and the same evaluation criteria as those mentioned for the Continuous Evaluation will be posed.

## 6. Sustainable Development Goals

5 - Gender Equality

8 - Decent Work and Economic Growth

12 - Responsible Production and Consumption