

Academic Year/course: 2021/22

## 28709 - Business economics, organisation and management

### Syllabus Information

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**Academic Year:** 2021/22

**Subject:** 28709 - Business economics, organisation and management

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

**Degree:** 423 - Bachelor's Degree in Civil Engineering

**ECTS:** 6.0

**Year:** 1

**Semester:** Second semester

**Subject Type:** Basic Education

**Module:**

## 1. General information

### 1.1. Aims of the course

Knowledge and use of economy basic instruments aimed at a technical knowledge profile linked to the world of the construction business world. Specific goals are:

- Understanding economic phenomena that influence the environment and that affect students, not only as future engineers but as individuals formed members of society
- Approaching the business reality and familiarizing with concepts such as business, entrepreneur and market
- Knowledge of an economic and business glossary, specific for the construction sector, necessary for analysis and discussion
- Getting in contact with the reading, meaning and interpretation of the company's economic and financial information. Special emphasis is given to the case study of companies belonging to productive areas related to the construction sector
- The use of concepts and tools that allow the analysis of business management, as well as the taking of actions in this regard, based on the results obtained after the study
- Development of the student's autonomous work through practical exercises

These approaches and objectives are in line with the following Sustainable Development Goals (SDGs) of the United Nations 2030 Agenda (<https://www.un.org/sustainabledevelopment/es/>), in such a way that the acquisition of the course learning outcomes provides training and competence to contribute to their achievement to some degree.

Goal 8: Promote inclusive and sustainable economic growth, employment and decent work for all

8.2 Achieve higher levels of economic productivity through diversification, technological upgrading and innovation, including through a focus on high-value added and labour-intensive sectors

8.4 Improve progressively, through 2030, global resource efficiency in consumption and production and endeavour to decouple economic growth from environmental degradation, in accordance, with the 10-year framework of programmes on sustainable consumption and production, with developed countries taking the lead

Goal 16: Promote just, peaceful and inclusive societies

16.6 Develop effective, accountable and transparent institutions at all levels

### 1.2. Context and importance of this course in the degree

The course on Business Management, Organization and Economy, is part of the Degree in Civil Engineering. It is a second semester, first year subject, classified as basic training, with a teaching load of 6 ECTS credits.

The importance of the subject in the degree is justified in that its design aims at the introduction of the student into the current economic context, which requires professionals with this degree to develop and strengthen their basic training in economics in the business world, specifically in those related to the field of construction. It is intended, to a large extent, to provide them with a profile of management and direction, in order to achieve better skills and competences, both specific and general, to improve their competitiveness. The knowledge of the business economy helps them to develop skills and competences applicable to many fields of action and they provide students with a greater added value and therefore make them more suitable for the labor market.

### 1.3. Recommendations to take this course

For an ideal follow-up of the course, the student is recommended to adopt an active attitude towards the subject, in terms of regular class attendance, completion of the suggested practice tasks, dedication and individual study.

## 2. Learning goals

### 2.1. Competences

General competences:

G01. Organizational and planning skills

G02. Capacity to solve problems

G03. Ability to make decisions

G04. Aptitude for oral and written communication of the native language

G05. Capacity for analysis and synthesis

G06. Ability to manage information

G07. Capacity for teamwork

G08. Capacity for critical reasoning

G09. Ability to work in an interdisciplinary team

G10. Ability to work in an international context

G11. Improvisation and adaptation capacity to face new situations

G12. Leadership aptitude

G13. Positive social attitude towards social and technological innovations

G14. Capacity of reasoning, discussion and exposition of own ideas

G15. Ability to communicate through words and images

G16. Ability to search, analyze and select information

G17. Capacity for independent learning

G23. Know and understand respect for fundamental rights, equal opportunities for women and men, universal accessibility for people with disabilities, and respect for the values of the culture of peace and democratic values.

G24. Promote entrepreneurship.

G25. Knowledge in information and communication technologies

B06. Adequate knowledge of the concept of company, institutional and legal framework of the company. Organization and management of companies

Basic competences:

CB1. That the students have demonstrated that they possess and understand knowledge in an area of study that begins at the foundation of general secondary education, and is generally at a level that, while supported by advanced textbooks, also includes some aspects that involve knowledge from the forefront of your field of study

CB2. That the students know how to apply their knowledge to their work or vocation in a professional manner and possess the competencies that are generally demonstrated through the elaboration and defense of arguments and problem solving within their area of study.

CB3. That the students have the ability to collect and interpret relevant data (usually within their area of study) to make judgments that include reflection on relevant issues of a social, scientific or ethical nature

CB4. Students can transmit information, ideas, problems and solutions to both a specialized and non-specialized audience

CB5. Students have developed the learning skills needed to undertake further studies with a high degree of autonomy

### 2.2. Learning goals

The student, to succeed in this subject, must demonstrate the following results:

1. Ability to read the financial information of a construction company from its annual accounts and to explain the economic facts that are the cause and consequence of the same
2. Details why accounting information and financial statements are necessary
3. Lists and describes who are the users of economic and financial information and thereby justifies the standardization process in the treatment thereof
4. Calculate by different methods the result of the construction company's business year
5. Identify the sources of financing for the construction company.
6. Analyze the profitability and economic and financial risk of a company, using basic calculation tools.
7. Describe, calculate and interpret the economic cycle of construction companies, both in periods and in rotations.
8. Use financial mathematics as a tool to value and treat capital over time in commercial, financial, and investment operations.

### 2.3. Importance of learning goals

In the development of his profession, the civil engineer will inevitably come into contact with the world of the company and its organization and will move in an economic environment. It is for this reason that knowledge of business economics, and particularly in the context of the construction sector, its key concepts and terminology, will help you develop skills and competencies applicable to many fields of action in which you will need to operate.

## 3. Assessment (1st and 2nd call)

### 3.1. Assessment tasks (description of tasks, marking system and assessment criteria)

In the evaluation of the subject there will be two types of exam tests:

- **Practical Evaluation Tests:** they are theoretical-practical exercises, with a value of 70% of the final grade

The evaluation criteria for these tests are the obtaining of results, analysis and interpretation of them

- **Theoretical Evaluation Tests:** by answering questionnaires. The value is 30% of the final grade

The Questionnaires will consist of brief open reponse question and/or multiple-choice questions

The evaluation criteria for brief open reponse question are precisión and clarity in answering them

For the development of both tests, an optional Continuous Assessment System is proposed, in addition to the Global Assessment System.

To opt for the continuous assessment system, the student must attend at least 80% of the course activities.

The student will pass the course if the final grade is equal to or greater than 50% of the 100 points of the subject

## 4. Methodology, learning tasks, syllabus and resources

### 4.1. Methodological overview

The learning process designed for the course is based on a strong interaction between the teacher and the student, through the division of work and the responsibilities of both.

The subject Business Management, Organization and Economy, is thought of as an autonomous combination of contents, but organized in two fundamental and complementary ways, the understanding of the theoretical concepts of each didactic unit and the resolution and analysis of problems, through different activities.

In order to achieve the learning outcomes of this subject, the teaching organization will be developed through blocks of content:

- Block of content I: Treatment and record of the economic and financial information; this question justifies the need for reading about the economic and financial information for endogenous and exogenous users of the company, as well as of the annual accounts as documents from which the economic and financial position of the company can be analyzed
- Block of content II: Results and Valuation of companies; it shows how to treat, to analyze and to interpret the economic and financial information of the company and its results with the study of profitability and risk functions
- Block of content III - Financing and investment in the Company: Focuses on an introduction to the decision processes on financing and investment in the company and the influence of time in its valuation, using financial mathematics for that purpose

### 4.2. Learning tasks

Along the semester the following activities will developed:

- Theory session: The theoretical concepts of the subject are explained and illustrative examples are developed as support to the theory when necessary
- Practice session: focused on the explanation, solution and discussion of practical cases that require a strong involvement of the student
- Tutored activities, programmed for the supervision of monitored work requiring a high level of advice by the teacher, as well as for the follow-up of the learning in which the teacher guide the students about the methodology of study necessary or more convenient for the assimilation of the aspects developed in each unit
- Individual Tutorials: Those carried out giving individual, personalized attention of the teacher. They may be in person or online
- Reinforcement activities, through the learning virtual portal Moodle, in which cases and readings that reinforce the basic contents of the course will be suggested

- Autonomous activities of students to:
- Study, understand and take in the theoretical and practical contents
- Preparation of topics for debate in class and resolution of suggested problems
- Preparation for the exam test

### 4.3. Syllabus

This course will address the following topics:

#### **Block of Content I.**

Topic 1. Introduction to financial decisions

Topic 2. Registration of the economic and financial information of the company

Topic 3. Annual accounts for construction companies I

Topic 4. Annual accounts for construction companies II

#### **Block of Content II**

Topic 5. Structural analysis of the company

Topic 6. Economic analysis of the company

Topic 7. Financial analysis of the company

Topic 8. Analysis of the economic cycle of the company

#### **Block of Content III**

Topic 9. Financial Operations

### 4.4. Course planning and calendar

The subject has 6 ECTS credits, which represents 150 hours of student work in the subject during the semester, in other words, 10 hours per week for 15 teaching weeks.

The summary of the temporary distribution of activities course would be as follows.

- Theory session (1,8 ECTS: 45 hours)
- Practice session (0,6 ECTS: 15 hours)
- Tutored activities (1,6 ECTS: 40 hours)
- Assessment task (0,2 ECTS : 5 hours)
- Autonomous work and study (1,8 ECTS: 45 hours)

The weekly distribution of the course from the Blocks of content would be as follows:

- Block I. Week 1 to Week 7
- Block II. Week 8 to Week 12
- Block III. Week 13 to Week 15

Compliance with the indicated timeframes is subject to change according to the learning pace of the students in each block and depending on any other circumstance justified and not expected at the beginning of the course.

Further information concerning the timetable, classroom, office hours, assessment dates and other details regarding this course will be provided on the first day of class or please refer to the website and Moodle:

<https://eupla.unizar.es/asuntos-academicos/calendario-y-horarios>

<https://moodle2.unizar.es>

The information concerning the timetable of the tutoring activities can be found at:

<https://eupla.unizar.es/la-eupla/directorio>

The dates of the final exams will be those that are officially published at:

<http://www.eupla.unizar.es/asuntos-academicos/examenes>

### 4.5. Bibliography and recommended resources

The materials to support the course can be found in Moodle, at the reprography desk or will be handed out directly in the classroom.

The updated bibliography of the course is consulted through the web page of the library.

<http://psfunizar10.unizar.es/br13/egAsignaturas.php?codigo=28709>