



**COURSE DATA**

**DATA SUBJECT**

**Code:** 34683  
**Name:** Business techniques  
**Cycle:** Undergraduate Studies  
**ECTS Credits:** 6  
**Academic year:** 2025-26

**STUDY (S)**

Degree	Center	Acad. year	Period
1400 - Degree in Computer Engineering	Escola Tècnica Superior d'Enginyeria	4	First quarter
1403 - Degree in Telematics Engineering	Escola Tècnica Superior d'Enginyeria	4	First quarter

**SUBJECT-MATTER**

Degree	Subject-matter	Character
1400 - Degree in Computer Engineering	Business techniques	COMPULSORY
1403 - Degree in Telematics Engineering	Optional subjects	ELECTIVES

**COORDINATION**

PALACIOS RONDA ESTEBAN

COBOS CABALLERO ANGELA

**SUMMARY**

The subject Management Techniques has as purpose to penetrate into the business management and the management of resources, from the point of view organizational, technical, economic and financial.

The purpose of the Business Techniques course is to deepen the direction of companies and the management of their resources, both from the organizational and technical point of view, and economic-financial.

For this, the content of the subject is divided into two large blocks. In the first, dedicated to the management of companies, first of all, basic aspects of the management consultancy sector are introduced, going on to discuss, then, the functional strategies of human resources, marketing and quality, and their practical application in that sector, which represents a remarkable professional output. In addition, organizational models based on innovation and models based on efficiency are studied. Then, with a practical approach, different types of innovation and examples are considered, as well as different barriers to innovation and change. Considering the potential managerial functions of engineers, we finally



address aspects related to international trade, from an ethical perspective.

The second block focused in the economic - financial management, begins with an introduction to the financing sources of the company and continues with the study of the basic concepts of the Cost accounting, in order to provide the knowledge necessary for the comprehension and calculation of costs and budgets.

NOTE: The order of the blocks can be changed. In this case the subject would begin with the block of Business and Accounting and continue with the block of Organization.

## PREVIOUS KNOWLEDGE

### RELATIONSHIP TO OTHER SUBJECTS OF THE SAME DEGREE

There are no specified enrollment restrictions with other subjects of the curriculum.

### OTHER REQUIREMENTS

## COMPETENCES / LEARNING OUTCOMES

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G11 - Ability to analyse and assess the social and environmental impact of technical solutions, and understanding of the ethical and professional responsibility of a computer engineer.

G12 - Knowledge and application of the basic principles of economics and human resource management, project organisation and planning, and legislation, regulation and standardisation in the field of computer projects, in accordance with both the knowledge and the specific skills acquired in the degree.

G2 - Ability to lead project activities in the field of information technology, in accordance with both the knowledge and the specific skills acquired in the degree.

SI1 - Ability to integrate ICT solutions into business processes in order to meet the information needs of organisations, thus enabling them to achieve their goals effectively and efficiently and providing them with competitive advantage.

SI4 - Ability to understand and apply the principles and practices of organisations, so that they can liaise between the technical and administrative staff of an organisation, and can actively participate in the training of users.

SI5 - Ability to understand and apply the principles of risk assessment and apply them correctly in the development and implementation of action plans.

SI6 - Ability to understand and apply the principles and techniques of quality management and



technological innovation in organisations.

TI1 - Ability to understand the environment of an organisation and its needs in the field of information and communication technology.

TI3 - Ability to use user-centred and organisation-centred methodologies for the development, assessment and management of IT-based applications and systems, to ensure accessibility, ergonomics and usability.

TI5 - Ability to select, implement, integrate and manage information systems that meet the needs of the organisation taking account of cost and quality criteria.

## DESCRIPTION OF CONTENTS

### 1. MANAGEMENT OF PROFESSIONAL SERVICES

1. Structure of the sector
2. Marketing Strategy
3. HR Strategy
4. Quality strategy

### 2. ORGANIZATIONAL MODELS

1. Business models based on innovation
2. Business models based on the efficiency
3. Life cycle of activity
4. Size of the company

### 3. INNOVATION AND INTERNATIONAL TRADE

1. Barriers to the innovation and to the change
2. Ethical International trade

### 4. BUSINESS FINANCING SOURCES

1. Internal financing vs external financing.
2. Types of external financing.
3. Bank financing

1. The need to know and control business costs.
2. Basic concepts.



## 5. BUSINESS COSTS

1. The need to know and control business costs.
3. Cost models.
4. Cost location.
5. Cost accumulation systems.

## 6. WORK BY ORDER: COSTS AND BUDGETS

1. Costs by orders or production orders.
2. How to budget a specific job.

### WORKLOAD

#### PRESENCIAL ACTIVITIES

Activity	Hours
Theory	35,00
Classroom practices	25,00
<b>Total hours</b>	<b>60,00</b>

#### NON PRESENCIAL ACTIVITIES

Activity	Hours
Attendance at other activities	2,00
Individual or group project	30,00
Independent study and work	8,00
Preparation of lessons	15,00
Preparation for assessment activities	25,00
Resolution of case studies	10,00
<b>Total hours</b>	<b>90,00</b>

### TEACHING METHODOLOGY

The formative activities will develop in agreement with the following methodology:

- **Theoretical activities.**

Description: explanatory lessons of the contents of every unit. In the theoretical classes the topics will be developed with a global vision, analyzing in detail the key aspects and more complex, and also considering the participation of the student. (G2, G11, G12, TI1, TI3, TI5, SI1, SI4, SI5, SI6)

- **Practical activities.**



Description: These are a complement to the theoretical activities in order to apply the basic concepts and expand the knowledge with the experience acquired during the course.

Some of these activities will be conducted in small groups and may include the following types of classroom activities:

- Problems and questions. (G12, T15, SI4, SI5)
- Discussion sessions and problem-solving exercises, previously worked by the students. (G12, T15, SI4, SI5)
- A monographic work. (G2, G11, G12,T11, T13, T15, SI1, SI4, SI5, SI6)
- Oral presentations. (G2, G11, G12,T11, T13, T15, SI1, SI4, SI5, SI6)
- Conferences, seminars and events (in or outside the classroom). (G2, G11, G12,T11, T13, T15, SI1, SI4, SI5, SI6)
- Tutorials scheduled (individualized or in group). (G2, G11, G12,T11, T13, T15, SI1, SI4, SI5, SI6)

- **Evaluation.**

Description: Individual assessment exercises in the classroom with the teacher's presence.

**Dedication: 60h (40 %)**

- **Personal work of the student.**

Description: Accomplishment (out of the classroom) of monographic works, bibliographical search, questions and problems, accomplishment of reports, as well as the preparation of classes and examinations (study). This task will be realized in an individual way and it tries to promote the autonomous work.

**Work at small groups.**

Small groups of students (2-4) will work about questions and problems out of the classroom. This task complements the individual work and promotes the capacity of integration in workgroups.



**Dedication: 90h (60 %)**

The e-learning platform (Virtual Classroom) of the University of Valencia will be in use as support of communication with the students. Students will have access to the didactic material used in during the course, as well as the problems and exercises to resolve.

## EVALUATION

To evaluate the subject BUSINESS, it is important to consider that it combines two distinct blocks of content taught by two departments: Accounting and Management.

For the 1st and 2nd rounds and both evaluation options (A or B), the teacher of each part of the course (Accounting or Management) assesses, independently, 50% of the final grade.

Criteria in both assessment bands are applied independently to each subject block. The overall score will be equal to the mean score for the two blocks. To pass, students must obtain a minimum of 40% in each block.

Student involvement in the teaching-learning process carries significant weight. Student involvement is assessed by regular monitoring of classroom activities and continuous learning of subject content. Marks are supplemented using objective testing throughout the semester. Calculation of the final course grade in the 1st round is explained in the following table:

### OPTION A

a. Concept being evaluated:	% of final mark
Participation and work throughout the semester:	35 %
Submission of case studies and coursework.	
Objective testing throughout the semester.	
b. Final Exam	65 %

To approve the subject it will be required the obtaining of a minimum of 4 points in the final examination, in each of the parts. In case the student manages to approve one of two blocks of the subject, the qualification obtained in the first summons will be kept for the second summons, in which only it will have to do the examination of the not approved block.

Due to its face-to-face nature, continuous evaluation activities related to business seminars and presentation tasks work in the classroom are not recoverable.

### OPTION B

This evaluation option will apply to students who have failed to complete the activities set out in the paragraph a) option A.

The final exam, regardless of the round and its weighting in the final grade, will consist of two parts, one for each of the content blocks (Accounting and Management).

In this option B, course grade depends only on the exam.

The assessment will be 80% of the mark obtained in the examination of that part. The course grade will be the result of adding the note of both parts of the subject. For this option, passing the subject also requires a minimum of 40% in the final note of each part of the course.



In any case, the evaluation of this subject will be done in compliance with the University Regulations in this regard, approved by the Governing Council on 30th May 2017 (ACGUV 108/2017). <https://webges.uv.es/uvTaeWeb/MuestraInformacionEdictoPublicoFrontAction.do?accion=inicio&idEdictoSeleccionado=5639>

Copying or plagiarism of any activity that is part of the evaluation will result in the impossibility of passing the course, and the student will then be subject to the appropriate disciplinary procedures indicated in the ACTION PROTOCOL FOR FRAUDULENT PRACTICES AT THE UNIVERSITY OF VALENCIA ([ACGUV 123/2020](#)).

## REFERENCES

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