

# Bachelor Degree in Business Administration and Management and Business Transformation

**Course:** Information technologies for business transformation

**Subject:** Computer science

**Credits:** 6 ECTS

**Program:** Bachelor

**Modality:** On-site

**Year:** First

**Semester:** First

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## 2. Presentation

### 2.1 Description

The subject Information and communication technologies provides a set of both computer and organizational tools so that the student can perform with more efficiency and productivity in their immediate environment both individually and professionally.

### 2.2 Relevant professional applications

In any professional environment the relevant use of computer tools, together with their reasoned application in practical problems, has a very important relevance and is a differential value as a transversal competence to all disciplines.

## 3. Learning outcomes of the degree

- RAT1 - The graduate will be able to recognize the tasks of the different functional areas within a company or organization, taking into account previous theoretical learning about business structures.
- RAT4 - The student will describe the techniques of management in the development of business organizations by means of different written tests.
- RAT6 - The graduate will be able to understand the different data analysis techniques used to assess the feasibility of a business project.
- RAT9 - The student will be able to provide clear and precise explanations of any knowledge/information, both orally and in writing, in Catalan, Spanish and a third language, particularly English.
- RAT10 - The student will be able to apply digital technologies (at the right time) in his/her field of expertise.
- RAT12 - The graduate will be able to develop both traditional and digital marketing and promotional projects in a business environment.
- RAT18 - The student will be able to provide innovative, creative and entrepreneurial solutions in professional situations.
- RAT19 - The student will be able to evaluate the sustainability and social impact of the proposals presented, with ethical, environmental and professional responsibility.
- RAT20 - The student will be able to apply the gender perspective in the professional tasks.
- RAT22 - After completing the degree, the student will be able to design work processes to achieve organizational efficiency.

- RAT23 - The graduate will be able to actively propose a plan for the implementation and support of information and communication systems for the digital transformation of the organization, according to a project based on a real business case.

## 4. Learning outcomes of the subjects

- RAM1 - The student will be able to properly infer the general concepts of information and communication technologies, through their practical application in technological simulation environments.
  - RAM,2 - The student will be able to correctly solve problems, worksheet tools exercises, databases, presentations, project management and other Internet personal productivity tools.
  - RAM3 - The student will be able to clearly identify the ethical, cultural and social problems brought about by technological systems.
  - RAM7 - The student will be able to correctly interpret management techniques and economic aspects related to the production of technological tools.
  - RAM8 - The student will be able to properly use management techniques and technological tools for a digital transformation.
- Contenidos

The subject Information technologies for business transformation provides a set of tools both computer and organization so that the student can perform with more efficiency and productivity in their immediate environment both individually and professional, apply it to make changes in the company, transform the business, digitize the business, and expand the business. In particular, it will address these issues:

- Spreadsheets.
- Personal productivity trends and utilities on the Internet.
- Project management tools for business transformation
- Presentation tools.
- Research tools for departments such as computing, finance, economics, marketing
- Introduction to databases Relational data mode
- Administration and interpretation of databases for business transformation decision-making
- Design and development of database applications
- Creation of content
- Web application mechanisms and technologies
- Google G suite
- Application through examples and exercises of Corporate Social Responsibility to ensure a better sustainable community and continuity in awareness of its importance.

## 5. Metodology

Learning outcomes developed	Teaching methodology	Training activities
Knowledge	Master class	Teacher's presentations
	Instructional sessions	Student's presentations
	Tutoring	Meetings for the resolution of doubts
	Learning based on readings	Reading and analysis of documents
Skill	Learning based on projects	Problem solving
	Learning based on audio-visual	Audiovisual analysis
	Case-based learning	Search and processing of information. Problem solving
Competence	Project-based work	Reporting Submissions of reports or papers

## 6. Evaluation

Evaluation system	Weight
Continuous evaluation: exercises, problems, reporting, papers, case studies	40 %
Mid-term exam	20 %
Final exam	40 %

When computing the final grade, the on-going activities (participation, in-class quizzes, seminar cases and group projects, midterm exam) will be weighted only if the final exam grade is equal to or greater than 4.0. Therefore, to obtain a passing course grade, the final exam grade must be equal to or greater than 4.0. If the final exam grade is less than 4.0, the final exam grade becomes the final course grade, irrespective of the other grades. Students must take the final exam if they want to receive a quantitative course evaluation. Students who do not sit the final exam will receive a "No Show" overall course grade.

"The maximum grade that students may obtain on the revaluation tests [...] shall be 5,0. In addition, "the grade of the revaluation tests will, in any case, constitute the final grade of the subject". **Thus, only those students who having completed the partial exam, the final exam and have completed 100% of the activities of continuous assessment of the subject, are suspended (final grade of the subject less than 5) will be entitled to the exam."**

**Single Evaluation:** The single assessment consists of a single examination equivalent to 100% of the grade of the subject. The exam, and therefore the subject, is passed with a grade of 5 out of 10 in this final test.

To benefit from the single assessment, it is necessary to send the teacher a written request during the first 15 working days of the course.

## 7. Bibliography

### 8.1 Basic Bibliography

- Thach, N. N., Kreinovich, V., & Trung, N. D. (Eds.). (2021). Data Science for Financial Econometrics. Springer International Publishing.

### 8.2 Recommended Bibliography

- Propergol, Sergio (2019). Excel 2019: manual avanzado. Anaya Multimedia, 2019.