

Bachelor Degree in Business Administration and Management and Business Transformation

Course: Business intelligence

Subject: Computer science

Credits: 6 ECTS

Program: Bachelor

Modality: On-Site

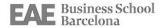
Year: Fourth

Semester: First



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2. Presentation

2.1Description

Information Systems (IS) and Information and Communication Technologies (ICTs) have changed the way organizations operate today. Through its use, important improvements are achieved, as they automate operational processes, provide a platform of information necessary for decision-making and, most importantly, its implementation achieves competitive advantages.

2.2 Relevant professional applications

In professional activity, the use and knowledge of information systems is essential as a structural part of a company. Its development and implementation should be known by any student as an essential factor and integrator of the set of procedures that are carried out in the business sphere.

3. Learning outcome of the degree

- RATI 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.
- RATIO The student will be able to apply digital technologies (at the right time) in his/her field of expertise.
- RATI2 The graduate will be able to develop both traditional and digital marketing and promotional projects in a business environment.
- RATI8 The student will be able to provide innovative, creative and entrepreneurial solutions in professional situations.
- RATI9 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

- RAM5 The student will be able to properly design web technology services and applications for integration into corporate information systems.
- RAM6 The student will be able to accurately analyze the technical specifications of computer engineering satisfying the requirements, optimizing resources and ensuring the quality of the result
- RAM8 The student will be able to properly use management techniques and technological tools for a digital transformation.

5. Contents

Information Systems (IS) and Information and Communication Technologies (ICTs) have changed the way organizations operate today. Through its use, important improvements are achieved, as they automate operational processes, provide a platform of information necessary for decision-making and, most importantly, its implementation achieves competitive advantages. The content will address the following topics:

- Business Intelligence as a factor of competitive advantage
- Classification and architecture of applications
- Advanced Relational Databases
- From Virtualization to Cloud Computing
- Big Data and Ethics in Information Systems
- E-Business E-Commerce for business transformation
- E-Marketing as a business expansion measure
- Life cycle of the Software
- Critical Factors S.I. Cost Estimation, TCO Calculation
- Information Security and Computer Security
- Application through examples and exercises of Corporate Social Responsibility to ensure a better sustainable community and continuity in awareness of its importance.



6. Methodology

Learning outcomes developed	Teaching methodology	Training activities
	Master class	Teacher's presentations
	Instructional sessions	Student's presentations
Knowledge	Tutoring	Meetings for the resolution of doubts
	Learning based on readings	Reading and analysis of documents
	Learning based on projects	Problem solving
Skill	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

7. 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."

<u>Single Evaluation:</u> 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.

8. Bibliography

8.1 Basic Bibliography

• Laudon, K. & Laudon, J. (2021) Sistemas de Información Gerencial. 14° Edición. Pearson. ISBN: 978-6073236966

8.2 Complementary Bibliography

- Laudon, K. & Guercio, C. (2019) E-Commerce 2019: Business, Technology and Society, Global Edition. 15° Edición. Pearson. IBSN: 978-0134998459
- Gallego, JC. (2018) Cómo protegerse de los peligros en Internet. Editorial Oxword. ISBN: 978-8409035700
- Gildner, Gil. (2019) Becoming A Digital Marketer: Gaining the Hard & Soft Skills for a Tech-Driven Marketing. Baltika Press. IBSN: 978-1733794879