



**122040038 - Bachelor of Computer Science**

**0038022 - Business Management**

### ***Dades generals***

<b>Codi:</b>	0038022
<b>Tipus:</b>	OB
<b>Semestre:</b>	5
<b>Crèdits:</b>	6.0
<b>Llengua d'impartició:</b>	Anglès

### ***Professorat***

#### ***Professorat responsable***

Rueda Garcia, Ana (Titulació: Llicenciatura en ADE (Universitat Ramon Llull); Àrea de coneixement: Ciències econòmiques)

#### ***Professorat que imparteix***

Beening Jansen, Alexander (Àrea de coneixement: Ciències tecnològiques)

### ***Informació***

#### **Presentació de l'assignatura:**

1st part: Accounting and Financial Mathematics: This subject gives student the knowledge and tools in the area of general accounting and financial mathematics, necessary to have a critical and informed approach when dealing with financial situations or related events (financial operations, investment projects, financing modalities ...).

2nd part: Project Management

Students will acquire the basics for project management, starting from general concepts and focusing sometimes on particular concepts to information technologies projects, students will also acquire some specific methodologies in computer sciences and in electronics.

**Objectius:**

1st part: Students must familiarise themselves with, and understand accounting information in order to be able to understand the financial situation of the company that is presented to them, and how it could be improved.

Likewise, students must also learn, basic concepts and various calculations that help them understand situations in everyday life, as well as in the business world.

2nd part: Project Management

The main objective of this part will be preparing students for real life, real jobs in real business. The course will bridge academic life and business life.

**Metodologia:**

The subject will be taught in the classroom and will be presented with a few slides in Power Point. The student will have to take the notes that he thinks necessary and carry out the exercises that are proposed both in class and at home. At the time, a complete exercise will be undertaken to carry out at home during the learning process and that the student will have to deliver before the partial exam. In addition to several exercises that will be solved during the course and that the student will have to solve either in class or at home to solve it the next day.

This methodology will be used both for the general accounting area and for the area of financial mathematics.

For online students, the Power Point will be posted on the virtual campus.

Two near real life projects will be executed, the first one with a low level of difficulty and the second one requiring the application of all the course. The projects will be carried out in groups whenever possible.

**Avaluació continuada:**

The student who follows the continuous assessment will be evaluated in the following way:

Description of Competences Evaluation

Activity 1 Continuous assesment face-to-face (CP) controls (2 controls) 60%

Activity 2 Online Homework (TV) (2 exercises) 40%

The methodology for ongoing monitoring of the program will be based on the following criteria:

- During the semester there will be two on-site controls (CP) for the ongoing assessment. The weighted average of these two controls (QP) gives the ongoing global assessment rating.

- These controls take place at a date fixed in advance (see course calendar). The on-site controls are only repeated in exceptional cases. In order to be able to opt for the repetition of a control, students must justify the reason for the absence by submitting an

official certificate or legal supporting document.

- During the semester, two optional online projects (TV) are also proposed to students, who, can deliver them through the virtual classroom delivery point. The weighted average of these two works (QV) gives the virtual global rating of continuous assesment.

- The overall assessment of continuous assessment (QAC) will be:

- QP; if  $QP < 4$
- Maximum  $\{QP ; (QP * 0,7 + QV * 0,3)\}$ ; if  $QP \geq 4$

- To pass the course through continuous assesment, students must obtain an overall qualification of continuous assessment (QAC) greater than or equal to 5.

For the 2nd part the avaluation will contemplate the following concepts and weight:

First project: 20%

Second project: 40%

In premises exam: 40%

#### **Avaluació final:**

Final assesment

Alternatively, students who have not opted for the continuous assessment or who have not passed it, have the possibility of taking a single final exam (EF) that gives a course qualification (QF).

The overall qualification of the final exam (QAF) will be:

- Not submitted; If it is no-show at the final exam
- • QF; If  $QF < 4$
- • Maximum  $\{QF ; (QF * 0.7 + QV * 0.3)\}$ ; If  $QF \geq 4$

To pass the subject, students must obtain a global qualification of the final assesment (QAF) greater than, or equal to 5.

Evaluation

As already mentioned in the previous section, the evaluation of this subject can be carried out on an ongoing basis, leading to a global assessment of continuous assessment (QAC), or through a single face to face final exam, resulting in the overall qualification of the final assesment (QAF).

The qualification that will be included in the academic record of the student will be:

- QAC, If  $QAC \geq 5$
- QAF, If  $QAC < 5$

All students in project management, whether f2f or online, are subject to the same

evaluation scheme.

### **Bibliografia bàsica:**

The subject will be taught relying on Power Point. These documents will be uploaded periodically on the Virtual Campus.

These documents have been extracted from various materials that can be found extensively in the following books:

1st part:

Title: Accounting : A Very Short Introduction

Author: Nobes, Christopher

Published: Oxford ; New York : Oxford University Press, 2014.

Publisher: Oxford University Press,

SBN: 0199684316 (pbk.)

9780199684311 (pbk.)

Title: Handbook of Financial Mathematics

Author: Moore, Justin Hartley 1884-

Published: New York, Prentice Hall, inc., 1929.

Publisher: Prentice Hall, inc.,

Students do not need to buy these books to pass the subject, since the slides, class notes and practical exercises provided during the course will be sufficient. Anyway these books are available at the University Library.

2on part:

Strategic Project Management Made Simple

Practical Tools for Leaders ans Teams

Terry Schmidt

Jhon Wiley & Sons

ISBN 978-0470-41158-2

### ***Competències específiques (4)***

Codi - Competència específica

BINFO01 - Planificació i gestió d'aplicacions informàtiques

BINFO04 - Elaboració de jocs de tests i avaluació de la qualitat de la solució

BINFO14 - Aplicació de tècniques empresarials per optimitzar la gestió d'una empresa

BINFO15 - Estudi i planificació de projectes

### ***Competències transversals (2)***

Codi - Competència transversal

Àrea

**Continguts (27)****1. Accounting and financial mathematics**

- 1.1. - Accounting information and decision-making
- 1.2. - The accounting cycle
- 1.3. - Main Financial Statements
- 1.4. - Concepts, classification and distribution of business costs
- 1.5. - Concept and calculation of the Balance point
- 1.6. - Financial operations for the company's external financing
- 1.7. - Simple interest and compound interest
- 1.8. - Discount and capitalization
- 1.9. - NPV and IRR
- 1.10. - APR & TIE
- 1.11. - Types of loans

**2. Project Management**

- 2.1. What's a project and what isn't
- 2.2. Differences between projects and usual tasks
- 2.3. Types of information technology projects
- 2.4. How to measure projects objectively
  - 2.4.1. Objectives - How to define them and types
  - 2.4.2. KPI
- 2.5. The project's life cycle
- 2.6. Deliverables of a project
- 2.7. The roles in a project
- 2.8. The project phases deeply
- 2.9. PMO: Project Management Office
- 2.10. Tools for project management
- 2.11. Understanding the organizations
- 2.12. Process description: An introduction

**Activitats (4)**

Codi - Activitat	Descripció	Competències	Percentatge
First Part - Accountancy & Financial Maths	Presential Continuous evaluation (CP): 2 controls	BINFO14, UdA03	35,00%
First part - Accountancy & Financial Maths	Virtual Exercices (TV) x2	BINFO14, UdA03	15,00%

Segona part - Activitat 4	Treballs virtuals (TV) (2 treballs)	BINFO01, BINFO15, UdA03	15,00%
Segona part - Activitat 3	Controls presencials (CP) d'avaluació continuada (2 controls)	BINFO01, BINFO15, UdA03	35,00%