240EO014 - Financial Management

Coordinating unit: 240 - ETSEIB - Barcelona School of Industrial Engineering
Teaching unit: 732 - OE - Department of Management
Academic year: 2017
Degree: ERASMUS MUNDUS MASTER'S DEGREE IN ENVIRONOMICAL PATHWAYS FOR SUSTAINABLE ENERGY SYSTEMS (Syllabus 2010). (Teaching unit Compulsory)
MASTER'S DEGREE IN MANAGEMENT ENGINEERING (Syllabus 2012). (Teaching unit Compulsory)
MASTER'S DEGREE IN INDUSTRIAL ENGINEERING (Syllabus 2014). (Teaching unit Optional)
ECTS credits: 4.5  Teaching languages: Spanish, English

Teaching staff
Coordinator: Carme Martínez Costa

Degree competences to which the subject contributes

Specific:
1. Apply theories and principles inherent in the financial area in order to analyze complex situations and uncertainty, and make decisions using engineering tools.
2. Identify, analyze, diagnose, design and implement solutions in complex socio-technical systems.

Teaching methodology

Master lecture, practical lecture and case study

Learning objectives of the subject

Deep knowledge of the facts and most important techniques of the financial management and the Corporate finance. Ability to take part in the decision making of companies in the finance field, as well as to understand the corporate operations of the business sale and the share valuations

Study load

<table>
<thead>
<tr>
<th>Total learning time: 112h 30m</th>
<th>Hours medium group: 20h 15m</th>
<th>18.00%</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Hours small group: 20h 15m</td>
<td>18.00%</td>
</tr>
<tr>
<td></td>
<td>Self study: 72h</td>
<td>64.00%</td>
</tr>
</tbody>
</table>
# 240EO014 - Financial Management

## Content

<table>
<thead>
<tr>
<th>Chapter</th>
<th>Learning time</th>
<th>Related activities</th>
<th>Specific objectives</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>1. The financial statements. Analysis to make decisions.</strong></td>
<td><strong>17h</strong></td>
<td>1, 2, 3, 4, 10, 11, 12</td>
<td>That the participants have the analysis ability of the financial statements to understand the financial situation of a company</td>
</tr>
<tr>
<td>Description:</td>
<td></td>
<td></td>
<td>Understanding of the financial statements of the companies in order to help in decision making. Balances and accounts of gain and loss, and cash flow forecasts will be dealt in class</td>
</tr>
<tr>
<td><strong>Learning time:</strong> 6h Theory classes:</td>
<td><strong>15h</strong></td>
<td>5, 6, 10, 11, 12</td>
<td>The participants must be able to carry out a complete valuation report in a professional manner</td>
</tr>
<tr>
<td><strong>Related activities:</strong></td>
<td></td>
<td></td>
<td>Study of the professional techniques for the valuation of companies, emphasizing on the basic valuation (discount on the cash flows) and the valuation of the market (multiple quoted and transaction companies).</td>
</tr>
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<td><strong>Specific objectives:</strong></td>
<td></td>
<td></td>
<td>The participants must be able to determine the keys to the working-capital management of the companies and allow enough time to the potential situations of the cash-flow and failure problems</td>
</tr>
<tr>
<td><strong>2. Valuation of companies</strong></td>
<td><strong>10h 30m</strong></td>
<td>7, 10, 11, 12</td>
<td>Techniques of business management of working capital, including the banking negotiations and the management of clients and suppliers</td>
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<td><strong>3. Short-term financing of a company</strong></td>
<td><strong>10h 30m</strong></td>
<td>7, 10, 11, 12</td>
<td>Techniques of business management of working capital, including the banking negotiations and the management of clients and suppliers</td>
</tr>
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<td></td>
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</table>
### 4. Long-term financing and corporate operations of a company

**Description:**
Study the operations with an important financial leverage. The financial management of the mergers and takeovers of the corporate operations will be included.

**Related activities:**
8, 10, 11, 12

**Specific objectives:**
Control all analysis and design corporate operations techniques and methodologies with a high level of indebtedness, determining the optimal structuring of the operations.

<table>
<thead>
<tr>
<th>Learning time: 10h 30m</th>
</tr>
</thead>
<tbody>
<tr>
<td>Theory classes: 4h</td>
</tr>
<tr>
<td>Practical classes: 2h</td>
</tr>
<tr>
<td>Self study : 4h 30m</td>
</tr>
</tbody>
</table>

### 5. Capital markets: variable and fixed income

**Description:**
Study the organized capital markets of fixed and variable income, its peculiarities and its operational practice.

**Related activities:**
9, 10, 11, 12

**Specific objectives:**
The participants must be able to value titles both of fixed and variable income and understand the operations of entry to the Stock market, the risk premium, the activity of the investment banks...

<table>
<thead>
<tr>
<th>Learning time: 8h 30m</th>
</tr>
</thead>
<tbody>
<tr>
<td>Theory classes: 2h</td>
</tr>
<tr>
<td>Practical classes: 2h</td>
</tr>
<tr>
<td>Self study : 4h 30m</td>
</tr>
</tbody>
</table>

### (ENG) -

<table>
<thead>
<tr>
<th>Learning time: 1h 52m</th>
</tr>
</thead>
<tbody>
<tr>
<td>Practical classes: 0h 20m</td>
</tr>
<tr>
<td>Laboratory classes: 0h 20m</td>
</tr>
<tr>
<td>Self study : 1h 12m</td>
</tr>
</tbody>
</table>
## Planning of activities

### 1. PRACTICE 1

**Description:**
Presentation of the database SABI. Search information of the agents of the competitive environment for a real case in a company.

**Support materials:**
Statement of the practice and guideline of the database available in ATENEA

**Specific objectives:**
Learn to search information of the market for a company: clients, suppliers and competitors

### 2. PRACTICE 2 ANNUAL ACCOUNTS

**Description:**
Resolution of an exercise of financial accounting where the balance of the situation and the account of gains and loss of a company must be carried out by the end of the exercise

**Support materials:**
Collection of cases of the course

**Specific objectives:**
Application of the knowledge in a real company situation

### 3. PRACTICE 3 ECONOMIC AND FINANCIAL ANALYSIS

**Description:**
Resolution of a case where the economic and financial analysis of a real company must be carried out

**Support materials:**
Collection of cases of the course

**Specific objectives:**
Application of the knowledge in a real company situation

### 4. PRACTICE 4 ECONOMIC FINANCIAL ANALYSIS

**Description:**
Resolution of a case where the economic and financial analysis of another real company must be carried out

**Support materials:**
Collection of case studies of the course

**Specific objectives:**
Application of the knowledge in a real company situation

### 5. PRACTICE 5 VALUATION OF COMPANIES
## 6. PRACTICE 6 VALUATION OF COMPANIES

**Description:**
Resolution of a second case of company valuation

**Support materials:**
Collection of case studies of the course

**Specific objectives:**
Application of the knowledge in a real company situation

## 7. PRACTICE 7 SHORT-TERM FINANCING

**Description:**
Resolution of a short-term finance case

**Support materials:**
Collection of case studies of the course

**Specific objectives:**
Application of the knowledge in a real company situation

## 8. PRACTICE 8 LONG-TERM FINANCING

**Description:**
Resolution of a long-term finance case

**Support materials:**
Collection of case studies of the course

**Specific objectives:**
Application of the knowledge in a real company situation

## 9. PRACTICE 9 VALUATION OF TITLES

**Description:**
Resolution of a valuation case of titles

<table>
<thead>
<tr>
<th>Hours</th>
<th>Practical classes: 0h 20m</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Laboratory classes: 0h 20m</td>
</tr>
<tr>
<td></td>
<td>Self study: 1h 12m</td>
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</tbody>
</table>
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Support materials:
Collection of case studies of the course

Specific objectives:
Application of the knowledge in a real company situation

10. MASTER CLASSES

Description:
Exposition of the contents by the Professors. Explanation of examples, resolution of exercises and problems. Discussion of current news and topics in the business field. Each student must previously prepare each class

Support materials:
Notes of the course and additional material available in ATENEA, recommended bibliography of the course

Descriptions of the assignments due and their relation to the assessment:
During some of the sessions some exercises will be carried out in class, individually or in small groups and will have to be handed in to the Professor

Specific objectives:
Acquisition of the contents of the course and development of the specific competences

11. QUESTIONS, TEST, EXERCISES, SMALL REPORTS

Description:
Analysis of a real case of a company chosen by each student using the database SABI

Support materials:
Statements available in ATENEA. Database SABI. Institutional information of the chosen company available in its website or memory

Descriptions of the assignments due and their relation to the assessment:
Written report of the case

Specific objectives:
Acquisition of the contents of the course and development of the specific competences

12. FINAL EXAM

Description:
Individual written exam. It can include theory or numerical exercise questions

Support materials:
Before the exam, the student will be informed about the material (notes, calculator, books...) which he/she will be able to use during the exam

Descriptions of the assignments due and their relation to the assessment:
Resolution of the test

Specific objectives:
Evaluate the acquisition level of the contents and competences of the course
Qualification system

Final exam (60%)
Questions, test, exercises, small reports 30%
Take part in the theory classes and in the practices (10%)

The qualification of the reassessment exam will replace the mark of the written examination
Students who have made the final examination and have not passed the subject, they can make the reassessment exam

Bibliography

Basic:

Complementary: