250964 - ESPEMPENG - Entrepreneurship

Coordinating unit: 250 - ETSECCPB - Barcelona School of Civil Engineering
Teaching unit: 732 - OE - Department of Management
Academic year: 2015
Degree: MASTER'S DEGREE IN NUMERICAL METHODS IN ENGINEERING (Syllabus 2012). (Teaching unit Compulsory)
ERASMUS MUNDUS MASTER'S DEGREE IN COMPUTATIONAL MECHANICS (Syllabus 2013). (Teaching unit Optional)
ECTS credits: 5
Teaching languages: English

Teaching staff
Coordinator: FRANCESC XAVIER BELLES ROS
Others: FRANCESC XAVIER BELLES ROS

Degree competences to which the subject contributes

Specific:
8382. Experience in numerical simulations. Acquisition of fluency in modern numerical simulation tools and their application to multidisciplinary problems engineering and applied sciences.
8383. Interpretation of numerical models. Understanding the applicability and limitations of the various computational techniques.
8384. Experience in programming calculation methods. Ability to acquire training in the development and use of existing computational programs as well as pre and post-processors, knowledge of programming languages and standard calculation libraries.

Teaching methodology

The course consists of 1.5 hours per week of classroom activity (large size group).

The 1.5 hours in the large size groups are devoted to theoretical lectures, in which the teacher presents the basic concepts and topics of the subject, shows examples and solves exercises.

The rest of weekly hours devoted to laboratory practice.

Support material in the form of a detailed teaching plan is provided using the virtual campus ATENEA: content, program of learning and assessment activities conducted and literature.

Learning objectives of the subject

What is an entrepreneur and what is his or her importance within the company?

* Identify the mechanisms of organisation and growth in a company and learn to manage its growth. * Identify the mechanisms of failure in a company or project and establish measures to avoid it.

* Aspects of business initiative.
* The structure and presentation of opportunities
* The resources and structures of finances
* People and teams
* How to manage companies in an international level
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* Short and long term management of growth
* Generation and purchase
* To keep the flow of ideas within a company, case studies
* Identification of opportunities and business plans
* Financial sources and their structuring

Learning Resources:

<table>
<thead>
<tr>
<th>Study load</th>
<th>Theory classes:</th>
<th>20h</th>
<th>16.00%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total learning time:</td>
<td>Practical classes:</td>
<td>0h</td>
<td>0.00%</td>
</tr>
<tr>
<td></td>
<td>Laboratory classes:</td>
<td>20h</td>
<td>16.00%</td>
</tr>
<tr>
<td></td>
<td>Guided activities:</td>
<td>5h</td>
<td>4.00%</td>
</tr>
<tr>
<td></td>
<td>Self study:</td>
<td>80h</td>
<td>64.00%</td>
</tr>
</tbody>
</table>
# Content

## Areas and functions in business

**Learning time:** 6h  
**Theory classes:** 2h 30m  
**Self study:** 3h 30m

**Description:**  
Introduction. Areas and functions in business

## The entrepreneur's personality

**Learning time:** 3h 35m  
**Theory classes:** 1h 30m  
**Self study:** 2h 05m

**Description:**  
The entrepreneur's personality

## The business idea. How to spot it.

**Learning time:** 3h 35m  
**Theory classes:** 1h 30m  
**Self study:** 2h 05m

**Description:**  
The business idea. How to spot it.

## Elements of business policy

**Learning time:** 3h 35m  
**Theory classes:** 1h 30m  
**Self study:** 2h 05m

**Description:**  
Elements of business policy

## Business model. Contents of a business plan.

**Learning time:** 51h 36m  
**Theory classes:** 1h 30m  
**Laboratory classes:** 20h  
**Self study:** 30h 06m

**Description:**  
Business model. Contents of a business plan.  
Team work for the creation of a business plan draft
<table>
<thead>
<tr>
<th>Course</th>
<th>Learning time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Costs and prices</td>
<td><strong>3h 35m</strong>&lt;br&gt;Theory classes: 1h 30m&lt;br&gt;Self study: 2h 05m</td>
</tr>
<tr>
<td>Description</td>
<td>Costs and prices</td>
</tr>
<tr>
<td>Elements of Marketing</td>
<td><strong>3h 35m</strong>&lt;br&gt;Theory classes: 1h 30m&lt;br&gt;Self study: 2h 05m</td>
</tr>
<tr>
<td>Description</td>
<td>Elements of Marketing</td>
</tr>
<tr>
<td>Financial accounting</td>
<td><strong>3h 35m</strong>&lt;br&gt;Theory classes: 1h 30m&lt;br&gt;Self study: 2h 05m</td>
</tr>
<tr>
<td>Description</td>
<td>Financial accounting</td>
</tr>
<tr>
<td>Corporate finance</td>
<td><strong>3h 35m</strong>&lt;br&gt;Theory classes: 1h 30m&lt;br&gt;Self study: 2h 05m</td>
</tr>
<tr>
<td>Description</td>
<td>Corporate finance</td>
</tr>
<tr>
<td>Financial resources</td>
<td><strong>6h</strong>&lt;br&gt;Theory classes: 2h 30m&lt;br&gt;Self study: 3h 30m</td>
</tr>
<tr>
<td>Description</td>
<td>Financial resources</td>
</tr>
</tbody>
</table>
The mark of the course is obtained from the ratings of continuous assessment and their corresponding laboratories and/or classroom computers.

Continuous assessment consist in several activities, both individually and in group, of additive and training characteristics, carried out during the year (both in and out of the classroom).

The teachings of the laboratory grade is the average in such activities.

The evaluation tests consist of a part with questions about concepts associated with the learning objectives of the course with regard to knowledge or understanding, and a part with a set of application exercises.

Failure to perform a laboratory or continuous assessment activity in the scheduled period will result in a mark of zero in that activity.

Bibliography

Basic:

Complementary: