Course guide
220564 - 220564 - Technical Entrepreneurship

Unit in charge: Terrassa School of Industrial, Aerospace and Audiovisual Engineering
Teaching unit: 732 - OE - Department of Management.
Degree: MASTER'S DEGREE IN MANAGEMENT ENGINEERING (Syllabus 2012). (Compulsory subject).
Academic year: 2022  ECTS Credits: 5.0  Languages: Catalan, Spanish

LECTURER
Coordinating lecturer: MANEL RAJADELL CARRERAS
Others:

DEGREE COMPETENCES TO WHICH THE SUBJECT CONTRIBUTES

Specific:
1. Apply theories and inherent principles in the general direction of an organization with the aim of analyzing uncertainty complex situations and make decisions using engineering tools.
2. Identify, analyze, diagnose, design and implement solutions to complex socio-technical systems
3. To analyze the risks and consequences of proposed solutions in the various organizational sub-systems and their social and environmental contexts.
4. Develop a business plan in a new context.

Generical:
5. Ability to integrate knowledge and formulate judgments with the aim of making decisions based on information that, with incomplete or limited include reflecting on social and ethical responsibilities linked to the application of their knowledge and judgments.
6. Ability to effectively communicate their findings, knowledge and concluding reasons to skilled and unskilled audiences, clearly and unambiguously.
7. Ability to operate and lead multidisciplinary and multicultural groups, with negotiation skills, group work, relationships in an international setting, and conflict resolution.
8. Ability to understand the impact of engineering solutions in a global and social context.

TEACHING METHODOLOGY

The course is divided into three parts:

Theory classes
Practical classes
Self-study for doing exercises and activities.

In the theory classes, teachers will introduce the theoretical basis of the concepts, methods and results and illustrate them with examples appropriate to facilitate their understanding.

In the practical classes (in the classroom), teachers guide students in applying theoretical concepts to solve problems, always using critical reasoning. We propose that students solve exercises in and outside the classroom, to promote contact and use the basic tools needed to solve problems.

Students, independently, need to work on the materials provided by teachers and the outcomes of the sessions of exercises/problems, in order to fix and assimilate the concepts.

The teachers provide the curriculum and monitoring of activities (by ATENEA).
LEARNING OBJECTIVES OF THE SUBJECT

The aim of the course is to develop a business plan in order to create a business. The course uses the knowledge of other subjects in the area of finance, marketing or human resources. Students have to create their business plan from their own idea and following a specific methodology. This course is designed to awaken a spirit of creativity and active in front of business opportunities. To this end, part of an initial reflection: “good ideas generate good business and good business needs a good business plan. However, a good business plan can not turn a bad idea into a good business.”

STUDY LOAD

<table>
<thead>
<tr>
<th>Type</th>
<th>Hours</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hours large group</td>
<td>8,0</td>
<td>6.40</td>
</tr>
<tr>
<td>Guided activities</td>
<td>22,0</td>
<td>17.60</td>
</tr>
<tr>
<td>Self study</td>
<td>80,0</td>
<td>64.00</td>
</tr>
<tr>
<td>Hours small group</td>
<td>15,0</td>
<td>12.00</td>
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</tbody>
</table>

Total learning time: 125 h

CONTENTS

Module 1: General Definitions

Description:

Full-or-part-time: 15h
Theory classes: 1h
Laboratory classes: 1h
Guided activities: 3h
Self study: 10h

Module 2: Business Idea and Opportunity

Description:

Full-or-part-time: 16h
Theory classes: 1h
Laboratory classes: 2h
Guided activities: 3h
Self study: 10h
Module 3: Long-term decisions

Description:
- Choosing the name of the company. The mark. Objectives of the marks. Characteristics of a good brand. Generic brands.
- Licensing: Concept.

Full-or-part-time: 23h
- Theory classes: 1h
- Laboratory classes: 3h
- Guided activities: 4h
- Self study: 15h

Module 4: Marketing Plan

Description:
- Communication plan.

Full-or-part-time: 24h
- Theory classes: 2h
- Laboratory classes: 3h
- Guided activities: 4h
- Self study: 15h

Module 5: Human Resources Plan

Description:

Full-or-part-time: 24h
- Theory classes: 2h
- Laboratory classes: 3h
- Guided activities: 4h
- Self study: 15h

Module 6: Economic and Financial Plan. Contingency Plan

Description:
- Financial business plan.
- Contingency Plan.

Full-or-part-time: 23h
- Theory classes: 1h
- Laboratory classes: 3h
- Guided activities: 4h
- Self study: 15h
GRADING SYSTEM
The final grade depends on the following acts of evaluation

- Exam, weight: 50%
- Test, weight: 20%
- Project, weight: 30%

Any student that cannot attend to the exam or test, or wants to improve his/her grade will have an opportunity to do it in a final exam.

BIBLIOGRAPHY

Basic:

RESOURCES

Other resources:
Apuntes