Knowing the factors and fundamentals that you need to know, analyze and evaluate to make the best decision regarding the two alternatives: Engineer employee or Engineer entrepreneur / employer?

After concluding the course, participants will be able to:

? Make the best decisions about alternatives and opportunities offered by the existing market-aligned expectations, vision, skills and personal and professional skills of students attending the last years of the different careers in engineering, considering their environment / features individual and the possibilities offered by the market.

? Minimize the risk of error in decision making “Engineer employee or Engineer entrepreneur / employer?”.

### Teaching methodology

Theoretical explanations. Self-reflections and discussion about the theoretical explanations working in groups. Examples, cases and exercises.

### Learning objectives of the subject

Knowing the factors and fundamentals that you need to know, analyze and evaluate to make the best decision regarding the two alternatives: Engineer employee or Engineer entrepreneur / employer?

After concluding the course, participants will be able to:

? Make the best decisions about alternatives and opportunities offered by the existing market-aligned expectations, vision, skills and personal and professional skills of students attending the last years of the different careers in engineering, considering their environment / features individual and the possibilities offered by the market.

? Minimize the risk of error in decision making “Engineer employee or Engineer entrepreneur / employer?”.

### Study load

<table>
<thead>
<tr>
<th>Total learning time: 75h</th>
<th>Hours large group:</th>
<th>30h</th>
<th>40.00%</th>
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<tbody>
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<td></td>
<td>Hours medium group:</td>
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</tr>
<tr>
<td></td>
<td>Hours small group:</td>
<td>0h</td>
<td>0.00%</td>
</tr>
<tr>
<td></td>
<td>Guided activities:</td>
<td>0h</td>
<td>0.00%</td>
</tr>
<tr>
<td></td>
<td>Self study:</td>
<td>45h</td>
<td>60.00%</td>
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</table>
## Content

### MODULE 1: MARKET OPPORTUNITIES

**Description:**
This module discusses the current status and recent and future trends regarding entrepreneurship. The current market environment and the current state of technologies (internet as principal) is supplementing or replacing the more traditional labor market by other options (self-employment, entrepreneur, etc ..), becoming an alternative chosen by more and more professionals.

At the end of the module, each participant will have an overall picture of the entrepreneurial market, and forecasting future developments in the coming years.

**Related activities:**
Theoretical explanations. Self-reflections and discussion about the theoretical explanations working in groups. Examples, cases and exercises.

<table>
<thead>
<tr>
<th>Learning time: 7h 30m</th>
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</thead>
<tbody>
<tr>
<td>Theory classes: 3h</td>
</tr>
<tr>
<td>Self study : 4h 30m</td>
</tr>
</tbody>
</table>

### MODULE 2: ENTREPRENEURIAL PROFILE

**Description:**
The aim of this course is the analysis of the alternative: entrepreneur or employee.

Being an entrepreneur brings opportunities and risks. The first risk that has to be tackled, and since its inception, is if I have the entrepreneurial profile or not.

Thus, this module will respond to the following questions, among others:
- What kind of people become entrepreneurs? What skills and personal characteristics tend to have entrepreneurs?
- Is there a model of entrepreneurial behavior?

At the end of the module, each participant will carry out the evaluation of their enterprising profile to know their "level of entrepreneurial?"

**Related activities:**
Theoretical explanations. Self-reflections and discussion about the theoretical explanations working in groups. Examples, cases and exercises.

<table>
<thead>
<tr>
<th>Learning time: 17h 30m</th>
</tr>
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<tbody>
<tr>
<td>Theory classes: 7h</td>
</tr>
<tr>
<td>Self study : 10h 30m</td>
</tr>
</tbody>
</table>
## MODULE 3: PLANS OF AN ENTERPRISING PROJECT

### Description:
Module 3 solves preliminarily, not in detail, the main elements that should contain a business plan: from the idea, start-up, and implementation. It is not intended to resolve in detail all elements of a business plan, but it is intended to resolve those key aspects that identify a business plan.

The aims of the different areas will be described, and the elements which have to contain the different main plans also will be described:
- Strategic Plan
- Business Plan
- Plan of Operations
- Economic and Financial Plan

At the end of the module, each participant will perform the analysis and evaluation of a Business Plan.

### Learning time:
- Theory classes: 10h
- Self study: 15h

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## MODULE 4: MANAGEMENT SYSTEMS, ORGANIZATION AND HR

### Description:
From Plans to Reality: this module addresses the key elements that should contain the Management Systems, the Organization System and the HR System. It has not the intention to resolve in detail all the items listed, but it describes those key aspects that identify the above Systems.

After completing this module, participants will perform the analysis and evaluation of the above elements in a MANAGEMENT SYSTEMS, ORGANIZATION AND HR.

### Related activities:
Theoretical explanations. Self-reflections and discussion about the theoretical explanations working in groups. Examples, cases and exercises.

### Learning time:
- Theory classes: 10h
- Self study: 15h

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## Qualification system

The assessment will be a combination between the works inside the class and the homework activities.
220134 - Decision Criteria - Engineer as Employee or Engineer as Entrepreneur

Bibliography

**Basic:**


