320086 - GPI - Innovation Project Management

Coordinating unit: 205 - ESEIAAT - Terrassa School of Industrial, Aerospace and Audiovisual Engineering
Teaching unit: 714 - ETP - Department of Textile and Paper Engineering
Academic year: 2019
Degree: BACHELOR'S DEGREE IN TEXTILE TECHNOLOGY AND DESIGN ENGINEERING (Syllabus 2009).
(Teaching unit Compulsory)
ECTS credits: 6  Teaching languages: Catalan, Spanish

Teaching staff

Coordinator: Ventura Casellas, Heura
Others: Camps Roca, Vicenç

Prior skills

- Knowledge of business organization
- Knowledge of materials and textiles
- Knowledge of textile finishing processes

Degree competences to which the subject contributes

Specific:
- CE21. TEX: Ability to develop textile products and industrial manufacturing.

Teaching methodology

Combines theoretical sessions given by the teacher and sessions for discussion of case studies, with individual and group work performed by the student:
- Theoretical sessions
- Guided discussion sessions of individual or group works
- Individual work

Learning objectives of the subject

- To train students to participate in the planning of business strategies based on product innovation and textile processes.
- Improve the competitiveness of the textile industry in today's environment of global economy and delocalized production.
- Provide the student with the skills and knowledge necessary to create the framework that allows innovation in the company and to develop and apply the innovative ideas that are generated.
- To train professionals to: analyze, disseminate and implement innovations in textile organizations; know the key aspects for implementation of innovation management systems; optimize processes and estimate economical resources need for supporting innovation activities.
<table>
<thead>
<tr>
<th>Study load</th>
<th>Hours</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total learning time:</td>
<td>150h</td>
<td></td>
</tr>
<tr>
<td>Hours large group:</td>
<td>30h</td>
<td>20.00%</td>
</tr>
<tr>
<td>Hours medium group:</td>
<td>0h</td>
<td>0.00%</td>
</tr>
<tr>
<td>Hours small group:</td>
<td>30h</td>
<td>20.00%</td>
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<tr>
<td>Guided activities:</td>
<td>0h</td>
<td>0.00%</td>
</tr>
<tr>
<td>Self study:</td>
<td>90h</td>
<td>60.00%</td>
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</table>
## TOPIC 1. The innovation culture

**Learning time:** 28h  
Theory classes: 4h  
Laboratory classes: 4h  
Self study: 20h

**Description:**  
1.1 What is innovation?  
1.2 Why we should innovate?  
1.3 Barriers to innovation

## TOPIC 2: Kinds of innovation

**Learning time:** 14h  
Theory classes: 2h  
Laboratory classes: 2h  
Self study: 10h

**Description:**  
2.1 Planning vs emerging  
2.2 Incremental vs radical  
2.3 According to nature

## TOPIC 3: Management tools and their application in textile industry

**Learning time:** 108h  
Theory classes: 24h  
Laboratory classes: 24h  
Self study: 60h

**Description:**  
3.1 Process map  
3.2 DAFO  
3.3 CANVAS  
3.4 Kaizen  
3.5 Brain storming  
3.6 Ishikawa diagram  
3.7 Six thinking hats  
3.8 Six Sigma
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Qualification system

- Exam: 20%
- Deliverables of the case studies: 30%
- Final report: 50%

For those students who meet the requirements and submit to the reevaluation examination, the grade of the reevaluation exam will replace the grades of all the on-site written evaluation acts (tests, midterm and final exams) and the grades obtained during the course for lab practices, works, projects and presentations will be kept. If the final grade after reevaluation is lower than 5.0, it will replace the initial one only if it is higher. If the final grade after reevaluation is greater or equal to 5.0, the final grade of the subject will be 5.0.

Bibliography

Basic:


Complementary:


Others resources: