205066 - Innovation Workshop on Automotive Industry

Coordinating unit: 205 - ESEIAAT - Terrassa School of Industrial, Aerospace and Audiovisual Engineering
Teaching unit: 205 - ESEIAAT - Terrassa School of Industrial, Aerospace and Audiovisual Engineering
Academic year: 2017
Degree: MASTER'S DEGREE IN INDUSTRIAL ENGINEERING (Syllabus 2013). (Teaching unit Optional)
MASTER'S DEGREE IN AERONAUTICAL ENGINEERING (Syllabus 2014). (Teaching unit Optional)
ECTS credits: 3
Teaching languages: English

Teaching staff
Coordinator: David Gonzalez Diez

Opening hours
Timetable: By previous appointment through e-mail

Prior skills
Those acquired in the Bachelor Degree

Requirements
To be previously selected

Teaching methodology
This subject is built around the challenges proposed by SEAT and VW in the frame of the consortium CARNET Barcelona. By using Design Thinking, several solutions are considered and finally a solution is proposed and developed. In order to achieve the goals, 4 kind of activities are scheduled:
- Sessions of training in specific subjects (Design Thinking, project management or some other subjects related with the project).
- Autonomous work sessions where the Project is developed.
- Discussion sessions with external advisors.
- Presentation and discussion of results.

Learning objectives of the subject
By applying a design-centered approach students should be able to conceive of radically innovative solutions and to create products or services convenient for both customers and stakeholders of automotive industry. Learn the fundamentals of design thinking and put in to practice project management methodologies. Solve complex challenges through the process of structured design thinking and by combining design thinking with analytical decision making. Establish a framework for building an environment that fosters creativity.
205066 - Innovation Workshop on Automotive Industry

Study load

<table>
<thead>
<tr>
<th>Total learning time: 75h</th>
<th>Hours large group:</th>
<th>27h</th>
<th>36.00%</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Hours medium group:</td>
<td>0h</td>
<td>0.00%</td>
</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>48h</td>
<td>64.00%</td>
</tr>
</tbody>
</table>

Content

Module 1

<table>
<thead>
<tr>
<th>Description:</th>
<th>Learning time: 75h</th>
</tr>
</thead>
<tbody>
<tr>
<td>content english</td>
<td>Theory classes: 27h</td>
</tr>
<tr>
<td></td>
<td>Self study: 48h</td>
</tr>
</tbody>
</table>

Qualification system

Presentation 1: Problem definition. 15%
Presentation 2: Evaluation of alternatives. 20%
Presentation 3: Work in progress. 25%
Presentation 4: Final Presentation. 40%

Bibliography