820421 - AEGDM - Further Graphic Expression. Mechanical Design

Coordinating unit: 295 - EEBE - Barcelona East School of Engineering
Teaching unit: 717 - EGE - Department of Engineering Presentation
Academic year: 2017
Degree: BACHELOR'S DEGREE IN MECHANICAL ENGINEERING (Syllabus 2009). (Teaching unit Compulsory)
ECTS credits: 6

Teaching staff
Coordinator: JORDI TORNER RIBE
Others: JORDI TORNER RIBE
Ivern Cacho, Jordi
Codina Riera, Enric Joan
Farrerons Vidal, Oscar
Gómez González, Sergio

Prior skills
Having successfully completed Graphic Expression

Requirements
Graphic Expression

Degree competences to which the subject contributes

Specific:
1. Understand and apply graphic engineering techniques.

Transversal:
3. TEAMWORK - Level 3. Managing and making work groups effective. Resolving possible conflicts, valuing working with others, assessing the effectiveness of a team and presenting the final results.

Teaching methodology
The course employs narrative methodology by 20%, individual work by 40%, work in groups by 20% and project-based learning by 20%.
No reassessment test is performed.

Learning objectives of the subject
Understand the techniques of cad systems.
Knowing the basic standards relating to technical drawings.
Learn the latest techniques in computer aided design.
Enhance spatial ability.
To introduce and practice the rules of graphing techniques most commonly used in engineering.
## Study load

<table>
<thead>
<tr>
<th></th>
<th>Total learning time: 150h</th>
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<tbody>
<tr>
<td>Hours large group:</td>
<td>0h</td>
</tr>
<tr>
<td>Hours medium group:</td>
<td>0h</td>
</tr>
<tr>
<td>Hours small group:</td>
<td>45h</td>
</tr>
<tr>
<td>Guided activities:</td>
<td>15h</td>
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<tr>
<td>Self study:</td>
<td>90h</td>
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</tbody>
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## Content

### (ENG) 3D Modelling

- **Learning time:** 50h
  - Practical classes: 12h
  - Guided activities: 5h
  - Self study: 33h

### (ENG) Assemblies

- **Learning time:** 50h
  - Practical classes: 12h
  - Guided activities: 5h
  - Self study: 33h

### (ENG) 2D Drawings

- **Learning time:** 50h
  - Practical classes: 12h
  - Guided activities: 5h
  - Self study: 33h

## Qualification system

1st test 20%
2nd test 20%
3rd test 30%
Final Project 20%
Exercises 10%
**Bibliography**

**Basic:**

