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:** 2019  
**Degree:** BACHELOR'S DEGREE IN MECHANICAL ENGINEERING (Syllabus 2009). (Teaching unit Compulsory)  
**ECTS credits:** 6  
**Teaching languages:** Catalan

### Teaching staff

**Coordinator:** JORDI TORNER RIBE  
**Others:** Primer quadrimestre:  
- ENRIC JOAN CODINA RIERA - M11  
- OSCAR FARRERONS VIDAL - M12  
- SERGIO GÓMEZ GONZÁLEZ - M13  
- JORDI IVERN CACHO - T12  
- JORDI TORNER RIBE - T11

### 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.
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Study load

<table>
<thead>
<tr>
<th>Total learning time: 150h</th>
<th>Hours large group: 0h</th>
<th>0.00%</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Hours medium group:</td>
<td>0h</td>
</tr>
<tr>
<td></td>
<td>Hours small group:</td>
<td>45h</td>
</tr>
<tr>
<td></td>
<td>Guided activities:</td>
<td>15h</td>
</tr>
<tr>
<td></td>
<td>Self study:</td>
<td>90h</td>
</tr>
</tbody>
</table>

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%
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Bibliography

Basic:

