Degree competences to which the subject contributes

Specific:
1. (ENG) Saber usar los instrumentos de medición y aplicación de los métodos de fabricación.
2. (ENG) Diseñar procesos de fabricación, según el tipo de pieza, sus propiedades y sus características, seleccionando las máquinas apropiadas y los parámetros a controlar.
3. (ENG) Optimizar los parámetros de control de procesos de fabricación.
4. (ENG) Evaluar los costes de fabricación de una pieza adoptando diferentes metodologías.

Transversal:
5. EFFICIENT ORAL AND WRITTEN COMMUNICATION - Level 3. Communicating clearly and efficiently in oral and written presentations. Adapting to audiences and communication aims by using suitable strategies and means.
6. SELF-DIRECTED LEARNING - Level 3. Applying the knowledge gained in completing a task according to its relevance and importance. Deciding how to carry out a task, the amount of time to be devoted to it and the most suitable information sources.
7. 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.
8. SUSTAINABILITY AND SOCIAL COMMITMENT - Level 3. Taking social, economic and environmental factors into account in the application of solutions. Undertaking projects that tie in with human development and sustainability.

Learning objectives of the subject
<table>
<thead>
<tr>
<th>Study load</th>
<th>Hours large group:</th>
<th>45h</th>
<th>30.00%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total learning time: 150h</td>
<td>Hours medium group:</td>
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<td>0.00%</td>
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<tr>
<td></td>
<td>Hours small group:</td>
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<td></td>
<td>Guided activities:</td>
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<td>0.00%</td>
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<tr>
<td></td>
<td>Self study:</td>
<td>90h</td>
<td>60.00%</td>
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<tr>
<td>Content</td>
<td>Learning time</td>
<td>Theory classes</td>
<td>Laboratory classes</td>
</tr>
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</tr>
<tr>
<td><strong>(ENG) 1: Introducció a la Tecnologia Mecànica</strong></td>
<td>13h</td>
<td>5h</td>
<td></td>
</tr>
<tr>
<td><strong>(ENG) 2: Metrologia</strong></td>
<td>18h</td>
<td>5h</td>
<td>2h</td>
</tr>
<tr>
<td><strong>(ENG) 3: Conformat per Deformació Plàstica</strong></td>
<td>31h</td>
<td>10h</td>
<td>2h</td>
</tr>
<tr>
<td><strong>(ENG) 4: Conformat per arrencada de ferritja.</strong></td>
<td>32h</td>
<td>10h</td>
<td>3h</td>
</tr>
<tr>
<td><strong>(ENG) 5: Conformat per Fusió i Emmotllament</strong></td>
<td>22h</td>
<td>7h</td>
<td>2h</td>
</tr>
<tr>
<td><strong>(ENG) 6: Soldadura</strong></td>
<td>17h</td>
<td>5h</td>
<td>2h</td>
</tr>
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</table>
(ENG) 7: Introducció al control numèric | Learning time: 17h
---|---
Theory classes: 3h
Laboratory classes: 4h
Self study: 10h
### Planning of activities

<table>
<thead>
<tr>
<th>Lab Activity</th>
<th>Hours</th>
<th>Laboratory</th>
<th>Self Study</th>
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</thead>
<tbody>
<tr>
<td>(ENG) 1: PRÀCTICA DE LABORATORI. METROLOGIA</td>
<td>5h</td>
<td>2h</td>
<td>3h</td>
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<tr>
<td>(ENG) 2: RESOLUCIÓ DE PROBLEMES. CONFORMAT PER DEFORMACIÓ PLÀSTICA.</td>
<td>5h</td>
<td>2h</td>
<td>3h</td>
</tr>
<tr>
<td>(ENG) 3: PRÀCTICA DE LABORATORI. CONFORMAT PER ARRENCADA DE FERRITJA.</td>
<td>7h</td>
<td>3h</td>
<td>4h</td>
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<tr>
<td>(ENG) 4: RESOLUCIÓ DE PROBLEMES. CONFORMAT PER FUSIÓ I EMMOTLLAMENT.</td>
<td>5h</td>
<td>2h</td>
<td>3h</td>
</tr>
<tr>
<td>(ENG) 5: PRÀCTICA DE LABORATORI. SOLDADURA.</td>
<td>5h</td>
<td>2h</td>
<td>3h</td>
</tr>
<tr>
<td>(ENG) 6: PRÀCTICA DE LABORATORI. CONTROL NUMÉRIC.</td>
<td>9h</td>
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<td>5h</td>
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<td>(ENG) 7: PRIMERA PROVA INDIVIDUAL D’AVALUACIÓ CONTÍNUA.</td>
<td>12h</td>
<td>2h</td>
<td>10h</td>
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<tr>
<td>(ENG) 8: SEGONA PROVA INDIVIDUAL D’AVALUACIÓ CONTÍNUA.</td>
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<td>10h</td>
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</tbody>
</table>
330127 - TMEC - Mechanics Technology

| (ENG) 9: PROVA FINAL. | Hours: 18h  
Theory classes: 3h  
Self study: 15h |

### Bibliography

**Basic:**

- Al Omar, A. Apuntes de tecnología mecánica. Campus Virtual de la EPSEM.

**Complementary:**