### Degree competences to which the subject contributes

**Specific:**
1. Understand the basics of production and manufacturing systems.
2. Understand machine control and electric drives and their applications.
3. Understand the fundamentals of automatic control methods.
4. Understand automatic regulation and control techniques and their application to industrial automation.

**Transversal:**
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.
9. 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.
13. 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.

### Learning objectives of the subject
820142 - ACIE - Industrial Automation and Communications

Study load

<table>
<thead>
<tr>
<th>Total learning time: 150h</th>
<th>Hours large group: 45h</th>
<th>30.00%</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Hours medium group: 0h</td>
<td>0.00%</td>
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<tr>
<td></td>
<td>Hours small group: 15h</td>
<td>10.00%</td>
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<tr>
<td></td>
<td>Guided activities: 0h</td>
<td>0.00%</td>
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<td>Self study: 90h</td>
<td>60.00%</td>
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</tbody>
</table>

Content

(ENG) Introducció a l'automatització industrial

Degree competences to which the content contributes:

(ENG) Filosofia i aplicació de l'automat programable

Degree competences to which the content contributes:

(ENG) Introducció a la programació d'automats

Degree competences to which the content contributes:

(ENG) Introducció al GRAFCET

Degree competences to which the content contributes:

(ENG) Pantalles d'operador. Programes SCADA. Xarxes d'automats

Degree competences to which the content contributes:
Bibliography

Basic:


