Degree competences to which the subject contributes

Specific:
1. CE 17 AERO. Conocimiento adecuado y aplicado a la ingeniería de: Los elementos fundamentales de los diversos tipos de aeronaves; los elementos funcionales del sistema de navegación aérea y las instalaciones eléctricas y electrónicas asociadas; los fundamentos del diseño y construcción de aeropuertos y sus diversos elementos. (CIN/308/2009, BOE 18.2.2009)

General:
5. EFFICIENT USE OF EQUIPMENT AND INSTRUMENTATION - Level 3: Design experiments, measurements, subsystems and systems, equipment and tools most appropriate laboratory. Knowing not only benefits but also the limitations of the equipment and resources. Conduct assessments and evaluations critically, making decisions according to the overall system specifications or service.
6. PROJECT MANAGEMENT - Level 2: Define the objectives of a well-defined, narrow scope, and plan development, identifying resources, tasks, shared responsibilities and integration. Use appropriate tools to support project management.

Transversal:
3. 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.
4. 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.
7. 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.
8. 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.

Learning objectives of the subject

Missing
# Study load

<p>| Total learning time: 150h | Hours large group: 36h 24.00% | Hours medium group: 0h 0.00% | Hours small group: 24h 16.00% | Guided activities: 6h 4.00% | Self study: 84h 56.00% |</p>
<table>
<thead>
<tr>
<th>Content</th>
<th>Learning time: 60h</th>
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</thead>
<tbody>
<tr>
<td><strong>(ENG) - Adquisició, condicionament i processat lineal de senyals analògics.</strong></td>
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<tr>
<td></td>
<td>Theory classes: 15h</td>
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<td>Laboratory classes: 12h</td>
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<tr>
<td></td>
<td>Self study : 33h</td>
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</tbody>
</table>

| **(ENG) - Components i circuits electrònics no lineals bàsics**       | Learning time: 19h 30m |
|                                                                        | Theory classes: 4h 30m |
|                                                                        | Laboratory classes: 2h |
|                                                                        | Self study : 13h      |

**Description:**
- Diodes.
- Transistors.
- Circuits senzills amb diodes i transistors.

| **(ENG) - Senyals i sistemes digitals bàsics**                        | Learning time: 39h |
|                                                                        | Theory classes: 15h |
|                                                                        | Laboratory classes: 4h |
|                                                                        | Self study : 20h    |

| **(ENG) - Introducció als sistemes electrònics programables**        | Learning time: 31h 30m |
|                                                                        | Theory classes: 1h 30m |
|                                                                        | Laboratory classes: 6h |
|                                                                        | Guided activities: 6h |
|                                                                        | Self study : 18h     |

**Description:**
- Sistemes amb programació hardware
- Sistemes amb programació software: Microprocessadors i microcontroladors.
- Sistemes amb programació mixta.
Bibliography

Basic:


Complementary:

