220018 - Propulsion Systems

**Coordinating unit:** 205 - ESEIAAT - Terrassa School of Industrial, Aerospace and Audiovisual Engineering

**Teaching unit:** 724 - MMT - Department of Heat Engines

**Academic year:** 2017

**Degree:**
- BACHELOR'S DEGREE IN AEROSPACE VEHICLE ENGINEERING (Syllabus 2010). (Teaching unit Compulsory)
- BACHELOR'S DEGREE IN AEROSPACE TECHNOLOGY ENGINEERING (Syllabus 2010). (Teaching unit Compulsory)

**ECTS credits:** 4.5

**Teaching languages:** Catalan

### Degree competences to which the subject contributes

**Specific:**
1. GrETA/GrEVA - An adequate understanding of the following, as applied to engineering: concepts and laws that govern the processes of energy transfer, the movement of fluids, the mechanisms of heat transfer and phase transition, and their role in analysis of the main aerospace propulsion systems.

### Teaching methodology

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### Learning objectives of the subject

Study

### Study load

<table>
<thead>
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<th>Total learning time: 112h 30m</th>
<th>Hours large group:</th>
<th>31h</th>
<th>27.56%</th>
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<td>Hours medium group:</td>
<td>7h</td>
<td>6.22%</td>
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<tr>
<td></td>
<td>Hours small group:</td>
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<tr>
<td></td>
<td>Self study:</td>
<td>67h 30m</td>
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## Content

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Learning time</th>
<th>Theory classes</th>
<th>Practical classes</th>
<th>Self study</th>
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<tbody>
<tr>
<td><strong>Item 1:</strong></td>
<td></td>
<td><strong>2h 30m</strong></td>
<td><strong>1h</strong></td>
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<td><strong>Item 2</strong></td>
<td>2.1 2.2</td>
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<td><strong>7h 30m</strong></td>
<td><strong>3h 30m</strong></td>
<td><strong>16h 30m</strong></td>
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<td><strong>3h 30m</strong></td>
<td><strong>16h 30m</strong></td>
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</table>
Learning time: 27h 30m
Theory classes: 7h 30m
Practical classes: 3h 30m
Self study: 16h 30m

Item 5

Description:
5.1

Related activities:
P

Qualification system

Regulations for carrying out activities

Bibliography

Basic:

Others resources: