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: 2019
Degree: BACHELOR'S DEGREE IN AEROSPACE TECHNOLOGY ENGINEERING (Syllabus 2010). (Teaching unit Compulsory)
BACHELOR'S DEGREE IN AEROSPACE VEHICLE ENGINEERING (Syllabus 2010). (Teaching unit Compulsory)
ECTS credits: 4.5

Teaching languages: Catalan

Teaching staff
Coordinator: MANUEL QUERA MIRO
Others: ANGEL COMAS AMENGUAL - DAVID BERMEJO PLANA - ALBERT PUIG KOWERDOWICZ

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

Study

Learning objectives of the subject

Study

Study load

<table>
<thead>
<tr>
<th>Total learning time: 112h 30m</th>
<th>Hours large group: 31h</th>
<th>27.56%</th>
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<tbody>
<tr>
<td></td>
<td>Hours medium group: 7h</td>
<td>6.22%</td>
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<tr>
<td></td>
<td>Hours small group: 7h</td>
<td>6.22%</td>
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<tr>
<td></td>
<td>Self study: 67h 30m</td>
<td>60.00%</td>
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## Content

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

| Item 3 | **Learning time**: 27h 30m  
Theory classes: 7h 30m  
Practical classes: 3h 30m  
Self study: 16h 30m |
<table>
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<tbody>
<tr>
<td><strong>Description</strong>:</td>
<td>3.1</td>
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<tr>
<td><strong>Related activities</strong>:</td>
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</tbody>
</table>

| Item 4 | **Learning time**: 27h 30m  
Theory classes: 7h 30m  
Practical classes: 3h 30m  
Self study: 16h 30m |
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<tr>
<td><strong>Description</strong>:</td>
<td>4.1</td>
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<tr>
<td><strong>Related activities</strong>:</td>
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</tbody>
</table>
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**Item 5**

**Learning time:** 27h 30m  
Theory classes: 7h 30m  
Practical classes: 3h 30m  
Self study: 16h 30m

**Description:**
5.1

**Related activities:**
P

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**Qualification system**

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**Regulations for carrying out activities**

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**Bibliography**

**Basic:**


**Others resources:**