The main aim of this course is to provide students with a comprehensive knowledge of the unmanned aerial vehicles (UAV/RPAS) industry. Students will learn the basic fundamentals about UAV/RPAS regulations, operations, and business.

Learning objectives of the subject

The course is developed on one side through lectures including theoretical sessions imparted with the aid of presentations and videos, and on the other side through dynamic workshops, oral expositions, and discussions.

Study load

- **Total learning time:** 75h
  - Hours large group: 30h (40.00%)
  - Self study: 45h (60.00%)
## Content

<table>
<thead>
<tr>
<th>Module 1: UAV Regulatory Framework</th>
<th>Learning time: 20h</th>
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<td></td>
<td>Theory classes: 10h</td>
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<td>Self study: 10h</td>
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**Description:**
- Comprehensive understanding of current regulation related to unmanned aircraft certification and operations.

**Related activities:**
- Activity 1 - International rules analysis

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<tr>
<th>Module 2: Unmanned Aircraft System</th>
<th>Learning time: 40h</th>
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<td>Theory classes: 15h</td>
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<td>Self study: 25h</td>
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**Description:**
- Analysis of the UAV as a system that includes the aerial platform (the aircraft itself) but also the C3 systems, the ground station and the support equipment.

**Related activities:**
- Activity 2 - Aircraft type models
- Activity 3 - Aircraft system description

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<tr>
<th>Module 3: Unmanned Aircraft Business</th>
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<td>Theory classes: 5h</td>
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<td>Self study: 10h</td>
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**Description:**
- The UAV is just a vehicle to carry a payload, while the final applications related to this payload is the real business associated to this technology.

**Related activities:**
- Activity 4 - Payload and applications
The final grade depends on the following assessment criteria:
- Activity 1, weight: 25 %
- Activity 2, weight: 25 %
- Activity 3, weight: 25 %
- Activity 4, weight: 25 %

### Bibliography

#### Basic:

European RPAS regulations.

#### Others resources:

- UAVs manufacturer websites
- UAVs operators websites