250ST2024 - Airports Management

Coordinating unit: 240 - ETSEIB - Barcelona School of Industrial Engineering
Teaching unit: 751 - DECA - Department of Civil and Environmental Engineering
Academic year: 2019
Degree: MASTER'S DEGREE IN SUPPLY CHAIN, TRANSPORT AND MOBILITY MANAGEMENT (Syllabus 2014). (Teaching unit Optional)
MASTER'S DEGREE IN INDUSTRIAL ENGINEERING (Syllabus 2014). (Teaching unit Optional)
ECTS credits: 5
Teaching languages: English

Teaching staff
Coordinator: César Trapote Barreira
Others: FRANCESC ROBUSTÉ ANTÓN

Opening hours
Timetable: Request via email. Monday from 15:30 to 17:00 h.

Teaching methodology
Lectures, individual/group course reports.

Learning objectives of the subject
Airport, airline, air transport, passenger, baggage, freight, flight, management, investment, revenue, pricing, operations, handling.

Study load

<table>
<thead>
<tr>
<th>Total learning time: 125h</th>
<th>Hours large group:</th>
<th>30h</th>
<th>24.00%</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Hours small group:</td>
<td>15h</td>
<td>12.00%</td>
</tr>
<tr>
<td></td>
<td>Self study:</td>
<td>80h</td>
<td>64.00%</td>
</tr>
</tbody>
</table>
## Content

| **1. Introduction to Airport Management (1)** | **Learning time:** 8h  
Theory classes: 3h  
Self study: 5h |
|---------------------------------------------|--------------------------------------------------|
| **Description:**  
1. Introduction to Airport Management (1)  |                                                  |
| **2. Statistics, operators and normative framework** | **Learning time:** 8h  
Theory classes: 3h  
Self study: 5h |
| **Description:**  
Statistics, operators and normative framework  |                                                  |
| **3. Airline management** | **Learning time:** 9h  
Theory classes: 3h  
Self study: 6h |
| **Description:**  
Airline management  |                                                  |
| **4. Airline management (2)** | **Learning time:** 9h  
Theory classes: 3h  
Self study: 6h |
| **Description:**  
Airline management  |                                                  |
| **5. Airport planning** | **Learning time:** 7h  
Theory classes: 3h  
Self study: 4h |
| **Description:**  
Airport planning  |                                                  |
<table>
<thead>
<tr>
<th>Chapter</th>
<th>Description</th>
<th>Learning time</th>
<th>Theory classes</th>
<th>Self study</th>
</tr>
</thead>
<tbody>
<tr>
<td>6.</td>
<td>Capacity management and operations</td>
<td>7h</td>
<td>3h</td>
<td>4h</td>
</tr>
<tr>
<td>7.</td>
<td>Capacity management and operations (2)</td>
<td>8h</td>
<td>3h</td>
<td>5h</td>
</tr>
<tr>
<td>8.</td>
<td>Airport economics</td>
<td>8h</td>
<td>3h</td>
<td>5h</td>
</tr>
<tr>
<td>9.</td>
<td>Airport management and competition</td>
<td>8h</td>
<td>3h</td>
<td>5h</td>
</tr>
<tr>
<td>10.</td>
<td>Low cost carriers</td>
<td>8h</td>
<td>3h</td>
<td>5h</td>
</tr>
</tbody>
</table>

Description:
- Capacity management and operations
- Airport economics
- Airport management and competition
- Low cost carriers. Drivers of new markets.
11. **Airport access: infrastructures, parking and public transport**  

<table>
<thead>
<tr>
<th><strong>Learning time</strong>: 8h</th>
</tr>
</thead>
<tbody>
<tr>
<td>Theory classes: 3h</td>
</tr>
<tr>
<td>Self study: 5h</td>
</tr>
</tbody>
</table>

**Description:**  
Airport access: infrastructures, parking and public transport

12. **Air Cargo**

<table>
<thead>
<tr>
<th><strong>Learning time</strong>: 8h</th>
</tr>
</thead>
<tbody>
<tr>
<td>Theory classes: 3h</td>
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<tr>
<td>Self study: 5h</td>
</tr>
</tbody>
</table>

**Description:**  
Air Cargo

13. **Sustainability of air transport**

<table>
<thead>
<tr>
<th><strong>Learning time</strong>: 8h</th>
</tr>
</thead>
<tbody>
<tr>
<td>Theory classes: 3h</td>
</tr>
<tr>
<td>Self study: 5h</td>
</tr>
</tbody>
</table>

**Description:**  
Introduction to ethics in air transport management. Development of sustainability and environmental protection.  
**Related activities:**  
Class and report  
**Specific objectives:**  
Understanding and defining trends in field of sustainability of air transport

14. **Airport Security**

<table>
<thead>
<tr>
<th><strong>Learning time</strong>: 8h</th>
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</thead>
<tbody>
<tr>
<td>Theory classes: 3h</td>
</tr>
<tr>
<td>Self study: 5h</td>
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</tbody>
</table>

**Description:**  
**Related activities:**  
Theory and cases  
**Specific objectives:**  
Understanding airport security.
**15. Course report**

<table>
<thead>
<tr>
<th><strong>Learning time:</strong></th>
<th>13h</th>
</tr>
</thead>
<tbody>
<tr>
<td>Theory classes:</td>
<td>3h</td>
</tr>
<tr>
<td>Self study:</td>
<td>10h</td>
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</tbody>
</table>

**Description:**
Presentation and summary of course report(s).

**Related activities:**
Presentation

**Specific objectives:**
Consolidation of learnings.

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**Qualification system**

Exercise 2. Presentation and defense of one exercise.

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**Bibliography**

**Basic:**