

**Airport Operations I**

Code: 101757  
ECTS Credits: 6

Degree	Type	Year	Semester
2501233 Aeronautical Management	OB	1	2

The proposed teaching and assessment methodology that appear in the guide may be subject to changes as a result of the restrictions to face-to-face class attendance imposed by the health authorities.

**Contact**

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**Use of Languages**

Principal working language: catalan (cat)  
Some groups entirely in English: No  
Some groups entirely in Catalan: No  
Some groups entirely in Spanish: No

**Other comments on languages**

Se aceptan preguntas y también respuestas escritas en inglés

**Teachers**

Francisco de Paula Salazar de la Cruz

**Prerequisites**

This course does not have any pre-requisit.

**Objectives and Contextualisation**

1. Provide a global overview of the organization and dimensionality of the airport management.
2. Provide an overview of the current liberalization of air traffic services with emphasis on the multiple business opportunities in the free competition of the provision of air traffic control service.
3. Provide a global and systemic overview of the airport role in commercial aviation.
4. Provide an overview of air cargo transportation, including the cargo transportation in passenger airplanes and specialized cargo airplanes.
5. Review the most important transporters and logistics agents, including their operations.

**Competences**

- Communication.
- Identify, develop and maintain the necessary resources to meet the tactical and operative needs inherent to air transport activities.
- Personal attitude.
- Personal work habits.
- Supervise the management of resources in an airport.
- Thinking skills.

- Use knowledge of the fundamental principles of mathematics, economics, information technologies and psychology of organisations and work to understand, develop and evaluate the management processes of the different systems in the aeronautical sector.

## Learning Outcomes

1. Communicate knowledge and findings efficiently, both orally and in writing, both in professional situations and with a non-expert audience.
2. Coordinate the multiple organisations acting simultaneously or concurrently in the turnaround process.
3. Critically assess the work done.
4. Describe the aeronautical environment in the field of airport operations.
5. Develop critical thought and reasoning.
6. Develop curiosity and creativity.
7. Develop independent learning strategies.
8. Develop the ability to analyse, synthesise and plan ahead.
9. Draw up and interpret passenger services procedures.
10. Identify airport types and topologies.
11. Identify operations that must be coordinated in aircraft turnaround time.
12. Identify the logistical resources necessary in an airport for the management of landside operations for aircraft turnaround.
13. Identify the technological resources necessary for the airside management of operations in the terminal area.
14. Maintain a proactive and dynamic attitude towards career progression, personal growth and continuous professional development. Have the will to succeed.
15. Make efficient use of ICT in communicating ideas and results.
16. Manage time and available resources. Work in an organised manner.
17. Plan the activities of the turnaround cycle.
18. Work independently.

## Content

1. The role of the airports in air transportation
2. International air navigation
3. Ground operations
4. Air cargo transportation
5. Safety

## Methodology

The course consists of (1) theoretical classes focused on the presentation of the course content, (2) seminars aimed at allowing students to present their individual and group work and (3) practical problem-solving sessions.

## COMMUNICATION CHANNELS

The professor will communicate with students using the following channels:

- University emails of students
- Course delegate, secretary or department support.

Students can communicate with the professor using the following channel:

- Email: [anais.pedrosa@uab.cat](mailto:anais.pedrosa@uab.cat)

Annotation: Within the schedule set by the centre or degree programme, 15 minutes of one class will be reserved for students to evaluate their lecturers and their courses or modules through questionnaires.

## Activities

Title	Hours	ECTS	Learning Outcomes
Type: Directed			
Lectures	30	1.2	1, 9, 2, 4, 8, 5, 15, 12, 13, 11, 10, 17
Problem solving sessions	15	0.6	3, 1, 9, 2, 4, 8, 6, 5, 15, 16, 12, 13, 11, 10, 14, 17
Scheduled visits	5	0.2	4, 8, 6, 14
Seminars	5	0.2	3, 1, 9, 2, 4, 8, 5, 15, 12, 13, 11, 10, 17
Type: Autonomous			
Autonomous work	95	3.8	9, 2, 4, 7, 8, 5, 16, 12, 13, 11, 10, 17, 18

## Assessment

### GRADING STUDENT WORK

The grading is based on the evaluation of activities scheduled in this course. The course consists of the following types of activities:

#### Activities I

- Theoretical and practical exams

#### Activities II

- Individual or group reports
- Practical problem solving
- Presentation of individual or group work

#### Activities III

- Active participation in theoretical sessions, problem-solving sessions and seminars

#### Activities IV

- Other activities

The activities II and III cannot be resubmitted, while the rest of the activities can be resubmitted by a student.

### NON-EVALUABLE STUDENTS (NA)

Students who have not submitted the individual or group work according to the course schedule and those who have not personally attended the final exam will be considered as non-evaluable.

### HONORS

Honors will be awarded to students with an overall grade equal to or greater than 9.0. No exam will be organized for awarding honors. The maximum number of honors will be 5% or the fraction of the number of students enrolled in the subject.

## EVALUATION OF STUDENTS REPEATING A COURSE

Students repeating a course for whom the teaching hours of this course coincide with other courses in which they are enrolled are exempt from attendance. It is mandatory for these students to inform the teacher about such circumstances within 15 calendar days after starting the course. The students who attend the course regularly will follow the same academic plan as the first enrollment.

### OVERALL EVALUATION OF SUBJECT:

The final grade, CF, is obtained by the expression:  $CF = 0.5 * (\text{arithmetic ponderation mean of projects and partials}) + 0.5 * (\text{Note of the official final exam or of recovery})$

To pass this subject, a minimum qualification of the official final exam or of the recovery one is needed. You need a minimum qualification of 3 over 10.

The number of tasks and partial exams will be scheduled in view of the course development. The team works suppose the same qualification for all the component members of the group. To take the recovery exam, you will follow what is established by the regulations of the degree.

## Assessment Activities

Title	Weighting	Hours	ECTS	Learning Outcomes
A1 Airport operations	55%	0	0	3, 1, 7, 8, 6, 5, 15, 16, 14, 18
A2 Air navigation and operational security	30%	0	0	3, 1, 7, 8, 6, 5, 15, 16, 14, 18
A3 Air cargo logistics	15%	0	0	9, 2, 4, 12, 13, 11, 10, 17

## Bibliography

1. INGENIERÍA AEROPORTUARIA; García Cruzado, Marcos; ETS Ingenieros Aeronáuticos, 1997.
2. OPERACIONES AEROPORTUARIAS; Isidoro Carmona, Aníbal; Fundación AENA, 1997.
3. DESCUBRIR LOS AEROPUERTOS; Tejada Anguiano, Iván; AENA, Colección Descubrir, 1999.
4. EL TRANSPORTE AÉREO; Utrilla Navarro, Luís; AENA, Colección Descubrir, 2003.
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6. INDUSTRIA AEROPORTUARIA; Salazar de la Cruz, Francisco; Editorial Círculo Rojo, 2013.
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8. AIRPORT HANDLING MANUAL; IATA, 2004.
9. LAS COMPAÑÍAS AÉREAS; Benito, Arturo; AENA, Colección Descubrir, 2004.
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11. EL HANDLING AEROPORTUARIO; Domingo Calvo, Mariano; AENA, Colección Descubrir, 2005.
12. ANEXO 11 : Servicios de tránsito aéreo. OACI. Última edición disponible.
13. ANEXO 14 : Diseño y operación de aeródromos. OACI. Última edición disponible.
14. Reglamento de Circulación aérea. Ministerio de Fomento. Última edición.
15. AIP - España. Edición electrónica en línea.
16. LA NAVEGACIÓN AÉREA Y EL AEROPUERTO. Saenz Neto, Francisco et al. Fundación Aena.
17. LOGÍSTICA DEL TRANSPORTE AÉREO. Ferrandis Cabré, Joan B.; Apuntes del profesor.

## Software

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