

205207 - Airport Process Rethinking

Coordinating unit:	205 - ESEIAAT - Terrassa School of Industrial, Aerospace and Audiovisual Engineering		
Teaching unit:	758 - EPC - Department of Project and Construction Engineering		
Academic year:	2019		
Degree:	BACHELOR'S DEGREE IN AEROSPACE TECHNOLOGY ENGINEERING (Syllabus 2010). (Teaching unit Optional) BACHELOR'S DEGREE IN AEROSPACE VEHICLE ENGINEERING (Syllabus 2010). (Teaching unit Optional)		
ECTS credits:	3	Teaching languages:	English

Teaching staff

Coordinator:	Roca Ramon, Xavier
Others:	Galan Herranz, Jose Ignacio

Teaching methodology

The teaching methodology is divided in three parts:

- Presential sessions of exposition - participation of the contents and exercises realization.
- Presential sessions of laboratory work.
- Autonomous work of study and realization of exercises and activities.

Learning objectives of the subject

Airport processes and procedures are carried out in the same way as from the beginning of commercial aviation. An example is the airplane handling, or even some, such as security have been complicated due to terrorist threats. The technology helps but times before the departure of a flight, or on arrival are still very high. The recommendation of the agents involved is "goto the airport with enough time". The study of these processes as they are carried out, the application of methodologies implemented in the production industry, as well as considering new alternatives will be studied and improved in the coming years.

The simulation will allow the staging and interaction between all the variables that influence the airport processes, concluding that improvement procedures can be applied and some process time can be optimize.

This objective leads us to carry out a study and understanding of the current airport processes, and the variables that influence the terminal building, and platform. We will obviate the optimization methods related to the airside capacity (runways/taxiways), and specifically the part corresponding to airspace, as well as the organization of aircraft arrivals and departures.

Study load

Total learning time: 75h	Hours large group:	30h	40.00%
	Hours medium group:	0h	0.00%
	Hours small group:	0h	0.00%
	Guided activities:	0h	0.00%
	Self study:	45h	60.00%

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Content

<p>INTRODUCTION</p>	<p>Learning time: 2h Theory classes: 1h Self study : 1h</p>
<p>Description: content english</p>	
<p>PASSENGERS. VARIABLES AND SCENARIOS</p>	<p>Learning time: 4h Theory classes: 2h Self study : 2h</p>
<p>Description: content english</p>	
<p>BAGGAGE HANDLING SYSTEMS, IATA RESOLUTION 753</p>	<p>Learning time: 4h Theory classes: 2h Self study : 2h</p>
<p>Description: content english</p>	
<p>AIRPLANE (RAMP OPERATION). STANDS ORGANIZATION</p>	<p>Learning time: 4h Theory classes: 2h Self study : 2h</p>
<p>Description: content english</p>	
<p>HANDLING / EQUIPMENT / AIRPLANE TURNAROUND</p>	<p>Learning time: 4h Theory classes: 2h Self study : 2h</p>
<p>Description: content english</p>	

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LOGISTICS	Learning time: 4h Theory classes: 2h Self study : 2h
Description: content english	
WORKERS / CONTRACTORS / SUPPLIERS	Learning time: 4h Theory classes: 2h Self study : 2h
Description: content english	
PARKING. DROPOFF / PICKUP AREAS / ROADS / PUBLIC TRANSPORT	Learning time: 4h Theory classes: 2h Self study : 2h
Description: content english	
SIMULATION: OBJETIVES	Learning time: 4h Theory classes: 2h Self study : 2h
Description: content english	
KEY POINTS TO IMPROVE. MAIN CONCLUSIONS	Learning time: 4h Theory classes: 2h Self study : 2h
Description: content english	

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<p>PROPOSAL OF THEORETICAL IMPROVEMENTS, AND PRACTICAL APPLICATION (AIRPORT VISIT). CUSTOMER EXPERIENCE</p>	<p>Learning time: 14h Theory classes: 7h Self study : 7h</p>
<p>Description: content english</p>	
<p>STUDENTS KEYNOTE</p>	<p>Learning time: 23h Theory classes: 4h Self study : 19h</p>
<p>Description: By groups participants will have chosen a process, or part of it, and will present the state of art and future proposals for its improvement</p>	

Qualification system

The qualification will consist on a final presentation that the students will do about all the work done continuously during the course. In groups they would have chosen a process, or a part of itself, and will expose the state of art process, and future purposes for its improvement.

Bibliography