

205065 - Spaceports, Airports for Spaceflights

Coordinating unit:	205 - ESEIAAT - Terrassa School of Industrial, Aerospace and Audiovisual Engineering		
Teaching unit:	758 - EPC - Department of Project and Construction Engineering		
Academic year:	2018		
Degree:	MASTER'S DEGREE IN AERONAUTICAL ENGINEERING (Syllabus 2014). (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.

It is an experimental subject with a high degree of student participation. Collaborative and supervised research of more informative than scientific information available.

Learning objectives of the subject

The "Space" is taking importance, situated in the center stage, and infrastructure, landing/taking off areas, how to build logistics and maintenance zones, passenger management, regulations, etc. are needed. It is an area in development and experimentation. Some initiatives have started, private money supported specially oriented to the part of "adventure" tourism. Other examples are materials and organisms research in microgravity conditions.

The information of this subjects is limited due to its recent launch, and development mainly of private funds. Although the investigations of Space Agencies of possible life in other planets go ahead. Our future could be out of the limits we have known until now.

Literature and cinema have recurrently treated the space life, a few years ago considered books, or futuristic films, today they can be almost a reality.

Study load

Total learning time: 75h	Hours large group:	27h	36.00%
	Hours medium group:	0h	0.00%
	Hours small group:	0h	0.00%
	Guided activities:	0h	0.00%
	Self study:	48h	64.00%

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Content

<p>INTRODUCTION</p>	<p>Learning time: 10h Laboratory classes: 4h Self study : 6h</p>
<p>Description: content english</p>	
<p>HISTORY. STATE OF THE ART OF THE SPACEPORTS</p>	<p>Learning time: 10h Laboratory classes: 6h Self study : 4h</p>
<p>Description: content english</p>	
<p>AIRSIDE APPENDIX 14 FROM ICAO APPLIED TO SPACE AIRCRAFT</p>	<p>Learning time: 10h Laboratory classes: 4h Self study : 6h</p>
<p>Description: content english</p>	
<p>LANDSIDE. TERMINAL BUILDING: AREAS, PASSENGER EXPERIENCE, TRAINING AREAS, LOGISTICS AREAS</p>	<p>Learning time: 10h Laboratory classes: 6h Self study : 4h</p>
<p>Description: content english</p>	
<p>HANDLING / EQUIPMENT / TIMES</p>	<p>Learning time: 10h Laboratory classes: 4h Self study : 6h</p>
<p>Description: content english</p>	

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SPACE MISSION	Learning time: 10h Laboratory classes: 6h Self study : 4h
Description: content english	
PRESENTATION OF STUDENTS	Learning time: 15h Laboratory classes: 3h Self study : 12h
Description: content english	

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 topic, and will expose its state of art, and future purposes for its improvement.

Bibliography