

205056 - Advanced Design of the Movement Area

Coordinating unit: 205 - ESEIAAT - Terrassa School of Industrial, Aerospace and Audiovisual Engineering
 Teaching unit: 220 - ETSEIAT - Terrassa School of Industrial and Aeronautical Engineering
 Academic year: 2018
 Degree: MASTER'S DEGREE IN SPACE AND AERONAUTICAL ENGINEERING (Syllabus 2016). (Teaching unit Optional)
 MASTER'S DEGREE IN INDUSTRIAL ENGINEERING (Syllabus 2013). (Teaching unit Optional)
 MASTER'S DEGREE IN AERONAUTICAL ENGINEERING (Syllabus 2014). (Teaching unit Optional)
 ECTS credits: 3 Teaching languages: English

Teaching staff

Coordinator: Jordi Margarit Garcia

Teaching methodology

Teachers will introduce the theoretical basis of the concepts, methods and results and illustrate them with examples appropriate to facilitate their understanding.
 Students, independently, need to work on the materials provided by teachers in order to fix and assimilate the concepts.
 Teachers will provide the syllabus and studying documents (by ATENEA).

Learning objectives of the subject

Knowledge of parameters and methods of design of the Movement Area.

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>Module 1: Physical elements in the Movement Area</p>	<p>Learning time: 17h Theory classes: 6h Self study : 11h</p>
<p>Description: Analyze parameters and methods in the runways, taxiways and aprons design</p>	
<p>Module 2: Pavement design</p>	<p>Learning time: 14h Theory classes: 6h Self study : 8h</p>
<p>Description: Analyze parameters and methods in the airport pavements design</p> <p>Related activities: Practice with the computer program of the pavement design</p>	
<p>Module 3: Visual aids</p>	<p>Learning time: 16h Theory classes: 5h Self study : 11h</p>
<p>Description: Analyze parameters and methods in the visual aids design</p>	
<p>Module 4: Electrical system of the visual aids</p>	<p>Learning time: 20h Theory classes: 7h Self study : 13h</p>
<p>Description: Analyze parameters and methods in the electrical system of the visual aids design</p>	
<p>Module 5: Drainage</p>	<p>Learning time: 8h Theory classes: 3h Self study : 5h</p>
<p>Description: Analyze parameters in the drainage design</p>	



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Qualification system

The final grade is the result of a final exam.

Bibliography