

## Course guide

### 205056 - 205056 - Advanced Design of the Movement Area

Last modified: 22/04/2021

**Unit in charge:** Terrassa School of Industrial, Aerospace and Audiovisual Engineering  
**Teaching unit:** 220 - ETSEIAT - Terrassa School of Industrial and Aeronautical Engineering.

**Degree:** Academic year: 2021 ECTS Credits: 3.0  
**Languages:** English

#### LECTURER

**Coordinating lecturer:** Jordi Margarit Garcia

**Others:**

#### 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

Type	Hours	Percentage
Self study	48,0	64.00
Hours large group	27,0	36.00

**Total learning time:** 75 h

#### CONTENTS

##### Module 1: Physical elements in the Movement Area

**Description:**

Analyze parameters and methods in the runways, taxiways and aprons design

**Full-or-part-time:** 17h

Theory classes: 6h

Self study : 11h



### Module 2: Pavement design

**Description:**

Analyze parameters and methods in the airport pavements design

**Related activities:**

Practice with the computer program of the pavement design

**Full-or-part-time:** 14h

Theory classes: 6h

Self study : 8h

### Module 3: Visual aids

**Description:**

Analyze parameters and methods in the visual aids design

**Full-or-part-time:** 16h

Theory classes: 5h

Self study : 11h

### Module 4: Electrical system of the visual aids

**Description:**

Analyze parameters and methods in the electrical system of the visual aids design

**Full-or-part-time:** 20h

Theory classes: 7h

Self study : 13h

### Module 5: Drainage

**Description:**

Analyze parameters in the drainage design

**Full-or-part-time:** 8h

Theory classes: 3h

Self study : 5h

## GRADING SYSTEM

The final grade is the result of a final exam.