

Course guide

205056 - 205056 - Advanced Design of Movement Areas

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.