

Course guide

240410 - 240PE013 - Formula Student 2

Last modified: 13/03/2025

Unit in charge: Barcelona School of Industrial Engineering
Teaching unit: 737 - RMEE - Department of Strength of Materials and Structural Engineering.
Degree: BACHELOR'S DEGREE IN INDUSTRIAL TECHNOLOGY ENGINEERING (Syllabus 2010). (Optional subject).
Academic year: 2025 **ECTS Credits:** 6.0 **Languages:** Catalan, Spanish

LECTURER

Coordinating lecturer: Arnau Dòria
Others: Lluís Roger, Daniel Montesinos, Vicenç Puig, Vicenç Parisi

TEACHING METHODOLOGY

LEARNING OBJECTIVES OF THE SUBJECT

General objective: To acquire and put into practice the necessary knowledge for the design and construction of a Formula Student-type vehicle.

Specific objectives:

- To learn to plan, organize and develop the tasks of a project.
- To acquire group work skills, responsibilities and leadership.
- To develop effective oral and written communication skills.
- To acquire knowledge related to automotive and mobility.
- To contribute to reducing the gender gap in engineering, in general, and the automotive sector, in particular.
- To improve students' motivation and school success through participation in centre projects.
- To consolidate more comprehensive training in engineering, with involvement in multidisciplinary projects.

STUDY LOAD

Type	Hours	Percentage
Hours large group	60,0	100.00

Total learning time: 60 h

CONTENTS

Training in automotive engineering

Description:

New members will acquire knowledge related to the project section from the sessions with the reference faculty.

Full-or-part-time: 30h

Guided activities: 5h

Self study : 25h



Project planning

Description:

The students, with the help of the reference teachers, will raise the team's objectives and the associated tasks.

Full-or-part-time: 30h

Guided activities: 5h

Self study : 25h

Development of tasks

Description:

The students, with the help of the reference teaching staff, will develop the assigned tasks, with the corresponding validations to corroborate the proposed designs.

Full-or-part-time: 30h

Guided activities: 5h

Self study : 25h

Assembly of the vehicle

Description:

The students, with the help of the reference teachers, will carry out the necessary tasks to have a functional vehicle at the end of the season, and ready to participate in the competitions.

Full-or-part-time: 30h

Guided activities: 5h

Self study : 25h

Preparation and participation in competitions

Description:

The students will prepare the vehicle and participate in the competitions that are considered appropriate.

Full-or-part-time: 30h

Guided activities: 5h

Self study : 25h

GRADING SYSTEM
