Degree competences to which the subject contributes

Specific:
1. The ability to calculate and design electrical machines

Teaching methodology

The course is divided into parts:

Theory classes
Practical classes
Self-study for doing exercises and activities.

In the theory classes, teachers will introduce the theoretical basis of the concepts, methods and results and illustrate them with examples appropriate to facilitate their understanding.

In the practical classes (in the classroom), teachers guide students in applying theoretical concepts to solve problems, always using critical reasoning. We propose that students solve exercises in and outside the classroom, to promote contact and use the basic tools needed to solve problems.

Students, independently, need to work on the materials provided by teachers and the outcomes of the sessions of exercises/problems, in order to fix and assimilate the concepts.

The teachers provide the curriculum and monitoring of activities (by ATENEA).

Learning objectives of the subject

To know the technologies involved in the electrical traction systems
Electric Drive Train Design
To know the interaction between the hybrid vehicle and the electrical power system.
The final grade depends on the following assessment criteria:

- Electrical power train design: 50 %
- Final Exam: 50 %

Bibliography

Basic: