

30038 - Smart Electrical Grids

Información del Plan Docente

Academic Year	2018/19
Subject	30038 - Smart Electrical Grids
Faculty / School	110 - Escuela de Ingeniería y Arquitectura
Degree	436 - Bachelor's Degree in Industrial Engineering Technology
ECTS	6.0
Year	4
Semester	Second semester
Subject Type	Optional
Module	---

1.General information

1.1.Aims of the course

1.2.Context and importance of this course in the degree

1.3.Recommendations to take this course

2.Learning goals

2.1.Competences

2.2.Learning goals

2.3.Importance of learning goals

3.Assessment (1st and 2nd call)

3.1.Assessment tasks (description of tasks, marking system and assessment criteria)

4.Methodology, learning tasks, syllabus and resources

4.1.Methodological overview

4.2.Learning tasks

4.3.Syllabus

Introduction to Smart Grids (SG): definition, objectives and benefits.

Technologies applied in SG: Distributed Generation (DG), Demand Side Management (DSM),

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Energy Storage and Vehicle to Grid (V2G) Operation of Smart Grids: System Protection,

Control and Automation.

4.4.Course planning and calendar

4.5.Bibliography and recommended resources