

29643 - Smart Electrical Grids

Información del Plan Docente

Academic Year	2017/18
Faculty / School	110 - Escuela de Ingeniería y Arquitectura
Degree	430 - Bachelor's Degree in Electrical Engineering
ECTS	6.0
Year	4
Semester	Second semester
Subject Type	Optional
Module	---

1.General information

1.1.Introduction

1.2.Recommendations to take this course

1.3.Context and importance of this course in the degree

1.4.Activities and key dates

2.Learning goals

2.1.Learning goals

2.2.Importance of learning goals

3.Aims of the course and competences

3.1.Aims of the course

3.2.Competences

4.Assessment (1st and 2nd call)

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

5.Methodology, learning tasks, syllabus and resources

5.1.Methodological overview

5.2.Learning tasks

5.3.Syllabus

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

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2. Technologies applied in SG: Distributed Generation (DG), Demand Side Management (DSM), Energy Storage and Vehicle to Grid (V2G) Operation of Smart Grids: System Protection, Control and Automation.

5.4.Course planning and calendar

5.5.Bibliography and recommended resources

[BB: Bibliografía básica / BC: Bibliografía complementaria]

- [BB] Smart grid : technology and applications / Janaka Ekanayake ... [et al.]. . Chichester, West Sussex, U.K. ; Hoboken, N.J. : Wiley, 2012. 263 1206
- [BB] Vicini, Rommel A. Smart grid : fundamentos, tecnologías y aplicaciones / Rommel A. Vicini, Osvaldo M. Micheloud . México D.F. : Cengage Learning, cop. 2012