

## 30038 - Smart Electrical Grids

### Información del Plan Docente

Academic Year	2017/18
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.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**

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

## **30038 - Smart Electrical Grids**

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**