

29715 - Basic principles of electrical technology

Información del Plan Docente

Academic Year	2016/17
Academic center	110 - Escuela de Ingeniería y Arquitectura
Degree	434 - Bachelor's Degree in Mechanical Engineering
ECTS	6.0
Course	2
Period	Second semester
Subject Type	Compulsory
Module	---

1. Basic info

1.1. Recommendations to take this course

1.2. Activities and key dates for the course

2. Initiation

2.1. Learning outcomes that define the subject

2.2. Introduction

3. Context and competences

3.1. Goals

3.2. Context and meaning of the subject in the degree

3.3. Competences

3.4. Importance of learning outcomes

4. Evaluation

5. Activities and resources

5.1. General methodological presentation

5.2. Learning activities

5.3. Program

Introduction.

Unit 1: Electric and magnetic fields Electric Circuit Theory.

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Unit 2: Elements of an electrical circuit

Unit 3: Electrical DC circuits

Unit 4: Electrical single-phase AC circuits

Unit 5: Power in single-phase AC circuits

Unit 6: Electrical three-phase AC circuits

Electric machines.

Unit 7: Electrical machines: introduction

Unit 8: Electrical DC machines

Unit 9: Electrical asynchronous AC machines

Unit 10: Electrical transformers

Power lines.

Unit 11: Low-voltage power lines: wires and protections

5.4.Planning and scheduling

5.5.Bibliography and recommended resources