

26922 - Thermodynamics

Información del Plan Docente

Academic Year	2016/17
Academic center	100 - Facultad de Ciencias
Degree	447 - Degree in Physics
ECTS	6.0
Course	3
Period	First 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

T1.- Historical introduction to thermodynamics.

T2.- The problem and the postulates

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T3.- The conditions of equilibrium.

T4.- Formal relationships.

T5.- Sample systems.

T6.- Processes and the maximum work theorem.

T7.- Thermal engines.

T8.- Alternatives formulations and Legendre transformation.

T9.- Thermodynamic potentials

T10.- Maxwell relations

T11. Stability of thermodynamic systems

T12. Phase transitions

T13. Properties of material

5.4.Planning and scheduling

5.5.Bibliography and recommended resources