This course provides an introduction to photovoltaic solar cells. Covering conventional crystalline structures, thin film cells and advanced concepts. A basic background in physics of semiconductors is desirable.
Content

(ENG) - Introduction

Degree competences to which the content contributes:

(ENG) - Properties of sunlight

Degree competences to which the content contributes:

(ENG) - PN Junctions and solar cell operation

Degree competences to which the content contributes:

(ENG) - Crystalline solar cells.

Degree competences to which the content contributes:

(ENG) - Thin film solar cells

Degree competences to which the content contributes:

(ENG) - Solar cell characterization

Degree competences to which the content contributes:

(ENG) - New Concepts in photovoltaic conversion

Degree competences to which the content contributes:

Qualification system

Homework 25%
Oral presentation 25%
Final examination 50%

Regulations for carrying out activities

The usual in University teaching
32083 - PVDEV - Photovoltaic Devices

Bibliography

Basic:


Complementary:


Texts and reference books will be introduced during the lectures.