Course guides
32083 - PVDEV - Photovoltaic Devices

Unit in charge: Barcelona School of Telecommunications Engineering
Teaching unit: 710 - EEL - Department of Electronic Engineering.

Degree: DOCTORAL DEGREE IN PHOTONICS (Syllabus 2007). (Optional subject).
MASTER'S DEGREE IN PHOTONICS (Syllabus 2009). (Optional subject).
ERASMUS MUNDUS MASTER'S DEGREE IN PHOTONICS ENGINEERING,_nanophotonics_and biophotonics (Syllabus 2010). (Optional subject).

Academic year: 2015   ECTS Credits: 2.5   Languages: English

LECTURER
Coordinating lecturer: CRISTOBAL VOZ SANCHEZ
Others: JOAQUIN PUIGDOLLERS GONZALEZ - RAMON ALCUBILLA GONZALEZ

TEACHING METHODOLOGY
Presencial Teaching + activities

LEARNING OBJECTIVES OF THE SUBJECT
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.

CONTENTS

(ENG) -Introduction

(ENG) -Properties of sunlight

(ENG) -PN Junctions and solar cell operation

(ENG) -Crystalline solar cells.

(ENG) -Thin film solar cells

(ENG) -Solar cell characterization
GRADING SYSTEM

Homework 25%
Oral presentation 25%
Final examination 50%

EXAMINATION RULES.

The usual in University teaching

BIBLIOGRAPHY

Basic:

Complementary:
- Texts and reference books will be introduced during the lectures.