Course guides
32084 - TFT - Optical Coatings

Unit in charge: Barcelona School of Telecommunications Engineering  
Teaching unit: 748 - FIS - Department of Physics.

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: Francesc Pi  
Others: Joan Antó

TEACHING METHODOLOGY

Presencial Teaching + activities

LEARNING OBJECTIVES OF THE SUBJECT

This course intends to serve as a guide and an overview of this rapidly evolving technology for the engineer and scientist and as an introduction for the student in several branches of science and engineering. The topics have been selected to include advanced and emerging deposition technologies with potential for manufacturing applications. Content include: the design of thin films, the manufacturing techniques and the characterization of thin layers.

CONTENTS

Introduction. The thin films and the multilayers

Vacuum technology. Objective and necessities. Vacuum pumps and systems

Thin film deposition processes. Physical methods of film deposition. Chemical
GRADING SYSTEM

Preparation, presentation and exhibition of a brief work related with some thin film subject.
Brief written exam on the contents of the course.

EXAMINATION RULES.

The usual in University teaching

BIBLIOGRAPHY

Basic:

Complementary: