Course guides
32084 - TFT - Optical Coatings

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