Course guides
32060 - FOPT - Fourier Optics

Unit in charge: Barcelona School of Telecommunications Engineering
Teaching unit: 731 - OO - Department of Optics and Optometry.
Degree:
DOCTORAL DEGREE IN PHOTONICS (Syllabus 2007). (Optional subject).
DOCTORAL DEGREE IN OPTICAL ENGINEERING (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: 5.0  Languages: English

LECTURER
Coordinating lecturer: JUAN CAMPOS
Others: SALVADOR BOSCH
M. SAGRARIO MILLAN GARCIA-VARELA

TEACHING METHODOLOGY
Presencial teaching + activities

LEARNING OBJECTIVES OF THE SUBJECT
This course intends to convey the importance of Fourier techniques for the rigorous analysis of optical systems, its general scope encompassing both fundamental as well as practical topics. These tools are derived from diffraction theory and provide an account of optical phenomena in a language close to that used in the communication and information sciences.

CONTENTS

-INTRODUCTORY BLOCK: 1. Introduction. 2. Fourier transforms.


GRADING SYSTEM

The students will be evaluated through both a final written examination and continuous evaluation based on a set of regular activities in the classroom, such as individual problem solving or computer lab exercises.

EXAMINATION RULES.

The usual in University teaching

BIBLIOGRAPHY

Basic: