32060 - FOPT - Fourier Optics

Coordinating unit: 230 - ETSETB - Barcelona School of Telecommunications Engineering
Teaching unit: 731 - OO - Department of Optics and Optometry
Academic year: 2015
Degree: MASTER'S DEGREE IN PHOTO NICS (Syllabus 2009). (Teaching unit Optional)
ERASMUS MUNDUS MASTER'S DEGREE IN PHOTO NICS ENGINEERING, NANOPHOTONICS AND BIOPHOTONICS (Syllabus 2010). (Teaching unit Optional)
DOCTORAL DEGREE IN PHOTO NICS (Syllabus 2007). (Teaching unit Optional)
DOCTORAL DEGREE IN OPTICAL ENGINEERING (Syllabus 2007). (Teaching unit Optional)
ECTS credits: 5
Teaching languages: English

Teaching staff
Coordinator: 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.
Content

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

Degree competences to which the content contributes:


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Qualification 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.

Regulations for carrying out activities

The usual in University teaching

Bibliography

Basic:

