Course guides
32081 - ANOO - Applied Non-Linear Optics and Optoelectronics

Unit in charge: Barcelona School of Telecommunications Engineering
Teaching unit: 893 - ICFO - Institute of Photonic Sciences.

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: Majid Ebrahim-Zadeh
Others: Valerio Pruneri, Jordi Martorell

TEACHING METHODOLOGY

Presencial Teaching + activities

LEARNING OBJECTIVES OF THE SUBJECT

The course aims at teaching students several advanced applications in nonlinear optics and optoelectronics. In particular it will try to bridge basic and fundamental science and industrial potentials.

CONTENTS

(ENG) Frequency Conversion Processes

(ENG) Integrated and nano-structured electro-optics

(ENG) Acousto-optics and Applications

(ENG) Micro Non-Linear Optics

(ENG) Microstructured optical fibres
GRADING SYSTEM

Assistance - literature study - small specialized presentation - evaluation meeting with tutor

EXAMINATION RULES.

The usual in University teaching

BIBLIOGRAPHY

Basic: