Course guides
32063 - OPT - Optoelectronics

Unit in charge: Barcelona School of Telecommunications Engineering
Teaching unit: 739 - TSC - Department of Signal Theory and Communications.
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: 5.0  Languages: English

LEcTURER
Coordinating lecturer: RAMON ALCUBILLA
Others: ADOLFO COMERON TEJERO MARÍA CONCEPCIÓN SANTOS BLANCO

TEAChING METHODOLOGY
Presencial teaching + activities

LEAرنING OBJECTIVES OF THE SUBJECT
Representative examples of devices and systems for light generation, processing and detection are treated, together with the basic interface electronics for applications in measurement and communications systems.

CONTENTS
- Basic concepts in optoelectronics systems and devices.

- Engineering of light manipulation devices

- Engineering of optical detection systems

- Engineering of light emitting systems.

(ENG) (CAT) - Electromagnetic propagation in anisotropic media Graphical representations

(ENG) (CAT) - Electro-optics polarization density response and index ellipsoid contracted notation
GRADING SYSTEM

.2 tests during the semester (40%)
.1 Final examination (60%).

EXAMINATION RULES.

The usual in University teaching

BIBLIOGRAPHY

Basic:

Complementary: