Course guides
32054 - QOPT - Quantum Optics

Unit in charge: Barcelona School of Telecommunications Engineering
Teaching unit: 1022 - UAB - (ANG) pendent.
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: VERONICA AHUFINGER

Others: JORDI MOMPART

TEACHING METHODOLOGY
PRESENCIAL TEACHING + ACTIVITIES

LEARNING OBJECTIVES OF THE SUBJECT
This course will provide a wide-ranging introduction to the field of quantum optics, starting with a brief review of the classical light-matter interaction theory to, later on, develop in detail the semiclassical and quantum approaches.

CONTENTS

Semiclassical theory of atom-field interaction

Quantum theory of atom-field interaction

GRADING SYSTEM
- Attendance to be evaluated: > 80 % of the lecture time
- Periodic delivery of exercises proposed during the lectures
- Oral exam at the end of the course.

EXAMINATION RULES.
The usual in University teaching
BIBLIOGRAPHY

Basic:

Complementary: