

Información del Plan Docente

Academic Year	2017/18
Faculty / School	100 - Facultad de Ciencias
Degree	297 - Degree in Optics and Optometry
ECTS	6.0
Year	2
Semester	First semester
Subject Type	Compulsory
Module	---

1.General information**1.1.Introduction****1.2.Recommendations to take this course****1.3.Context and importance of this course in the degree****1.4.Activities and key dates****2.Learning goals****2.1.Learning goals****2.2.Importance of learning goals****3.Aims of the course and competences****3.1.Aims of the course****3.2.Competences****4.Assessment (1st and 2nd call)****4.1.Assessment tasks (description of tasks, marking system and assessment criteria)****5.Methodology, learning tasks, syllabus and resources****5.1.Methodological overview****5.2.Learning tasks****5.3.Syllabus**

26809 - Optical Physics

- 1.- Introduction. Nature of light.
- 2.- Waves; basic concepts.
- 3.- Electromagnetic waves; fundaments.
- 4.- Interferences.
- 5.- Diffraction.
- 6.- Polarization.
- 7.- Reflection and refraction of plane waves.
- 8.- Light-matter interaction. Dispersion.
- 9.- Modern Optics.

5.4.Course planning and calendar

5.5.Bibliography and recommended resources

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|-----------|---|
| BB | Cabrera, José Manuel. Óptica electromagnética. Vol. I, Fundamentos / José Manuel Cabrera, Fernando Jesús López, Fernando Agullo López . 2ª ed. Madrid [etc.] : Addison Wesley : Universidad Autónoma de Madrid, cop. 1998 |
| BB | Cabrera, José Manuel. Óptica electromagnética. Vol. II, Materiales y aplicaciones / José Manuel Cabrera, Fernando Agulló López, Fernando Jesús López . Madrid [etc.] : Addison Wesley : Universidad Autónoma de Madrid, D.L. 2000 |
| BB | Casas Pelaez, Justiniano. Optica / Justiniano Casas . - 7a. ed. Zaragoza : [El Autor], 1994 |
| BB | Hecht, Eugene. Optica / Eugene Hecht ; traducción Raffaello Dal Col, revisión técnica Rosa Weingard Talavera, José Manuel Guerra Pérez . - 3a ed. en español |

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Madrid [etc] : Addison-Wesley, D.L. 1999

BC Pedrotti, Frank L.. Introduction to optics /
Frank L. Pedrotti, Leno S. Pedrotti, Leno
M. Pedrotti . - 3rd ed. Upper Saddle River,
N.J. : Pearson Prentice Hall, cop. 2007

BC Pedrotti, Leno S.. Optics and vision / Leno
S. Pedrotti, Frank L. Pedrotti, S. J. Upper
Saddle River : Prentice-Hall, cop. 1998