**Optical and physical properties**

**of the human eye**

**CONTINGUTS:**

* Image Quality in the human eye. (Aberrations, diffraction, scattering, sampling at cone mosaic, limits of vision)
* Modelling vision. (Simulations, basic metrics of image quality, acuity models, models of light scattering)
* Accommodation and presbyopia. (Physiology of accommodation, dynamics, aberrations, image quality, presbyopia, treatment methods).
* Laser refractive surgery (Standard techniques, experimental methods)
* Light scattering in the human eye (Psychophysics, glare impact on vision, measurement techniques).

**PROFESSOR:**

Dr. Harilaos Ginis (Institute of Vision and Optics, University of Crete, Heraklion, Creta, Grecia)

**PROFESSORS ORGANITZADORS:**

Montserrat Arjona (UPC)

Meritxell Vilaseca (UPC)

Jaume pujol (UPC)

**HORARI:**

Dilluns, 21 de Maig de 2012 de 9:00 a 13:00h

Dimarts, 22 de Maig de 2012 de 8:30 a 11:30h

Dimecres, 23 de Maig de 2012 de 8:30 a 11:30h

**LLOC:**

**Aula 2.1**

Facultat d’Òptica i Optometria de Terrassa (FOOT)

C/ Violinista Vellsolà 37 (Terrassa)

**AGRADECIMIENTO A:**

Ministerio de Educación y Ciencia

**AYUDA PARA LA MOVILIDAD DE PROFESORES VISITANTES EN**

**MASTERES OFICIALES PARA EL CURSO 2011-12**

**REFERENCIA: MAS2008-00136-P**