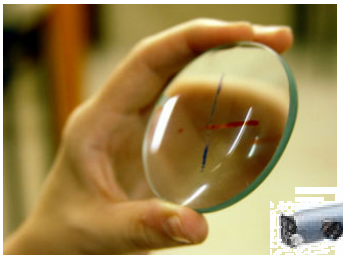
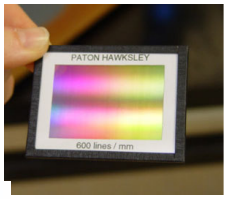
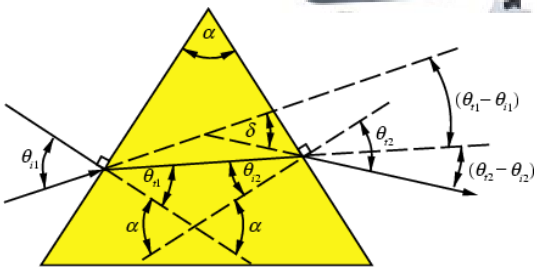
Experimental Optics (Code 5672)

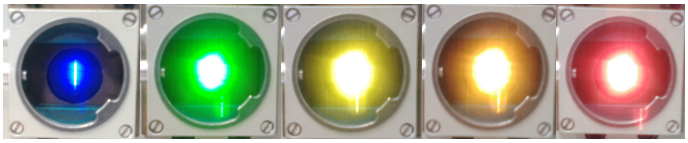
-General-Optics experiments, from geometrical to wave optics.
- Including some classic experiments on the area.
- Single-session experiments. Two-students teams. Supervised.

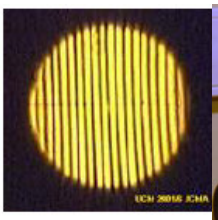
1.- Derivation of the focal and principal planes of thick lenses.
2.- Calibration of a diffraction grating: Spectral lines of an atomic gas.
3.- a) Measurement of the refraction index of glasses and liquids.
b) Dispersion curve of a glass prism. Abbe number.
4.- Spectral transmittance of colour filters.

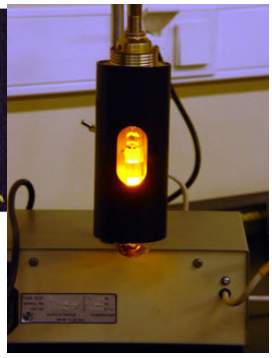












5.- Fresnel biprism: Measurement of a *Na*-line with a double-slit setup.
6.- Production and analysis of different polarized beams.
7.- Digital image analysis: Basic operations and some examples.
(Optional) Diffraction by a slit: Callibration of micron-sized wires.