This course focuses on a tutorial discussion of the main techniques, systems and subsystems related to optical remote sensing both active (laser radar or lidar) and passive. The course presents the grounds of the optical, electro-optical technologies, and physical processes involved as well as the applications of these remote sensing systems in present-day fields such as detection and monitoring of chemical species, Earth observation, atmospheric concentration (pollution) and physical variables, and others, up to a point, of industrial application.
32085 - ORS - Optical Remote Sensing

Content

(ENG) - Introduction to optical remote sensing

Degree competences to which the content contributes:

(ENG) - Optical and technological considerations for remote sensing

Degree competences to which the content contributes:

(ENG) - Active remote sensing systems (laser radar)

Degree competences to which the content contributes:

(ENG) - Passive remote sensing

Degree competences to which the content contributes:

Qualification system

Resolution of one or more problems (usually computer based, 50%) and final test exam (50%). Subjective evaluation will give special weight to continuous assessment of student's progress and interactivity in the discussion sessions of the course as well as to course attendance (80% minimum).

Regulations for carrying out activities

The usual in University teaching

Bibliography

Basic:


Complementary: