This course intends to serve as a guide and an overview of this rapidly evolving technology for the engineer and scientist and as an introduction for the student in several branches of science and engineering. The topics have been selected to include advanced and emerging deposition technologies with potential for manufacturing applications. Content include: the design of thin films, the manufacturing techniques and the characterization of thin layers.
### Content

| Introduction. The thin films and the multilayers |
| Degree competences to which the content contributes: |

| Vacuum technology. Objective and necessities. Vacuum pumps and systems |
| Degree competences to which the content contributes: |

| Thin film deposition processes. Physical methods of film deposition. Chemical |
| Degree competences to which the content contributes: |

### Qualification system

Preparation, presentation and exhibition of a brief work related with some thin film subject. Brief written exam on the contents of the course.

### Regulations for carrying out activities

The usual in University teaching
32084 - TFT - Optical Coatings

Bibliography

Basic:


Complementary:


