

Información del Plan Docente**Academic Year** 2017/18**Faculty / School****Degree****ECTS** 9.0**Year** ---**Semester** Annual**Subject Type****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**

Students can choose the following research lines for their Master's Dissertation:

60655 - Master's Dissertation

- Proposals of new alternative industrial processes to reduce environmental impact.
- Proposals of new alternative industrial processes with a lower energy requirement.
- Proposals of new alternative industrial processes with a lower generation of waste and contaminant residues.
- Proposals of new alternative industrial processes reducing need for raw materials.
- Methods to minimize the environmental impact of industrial processes and energy requirement.
- Proposal of new industrial processes using renewable raw materials.
- Reevaluation of industrial waste.
- Representation of industrial processes at laboratory scale (scale-down).
- New Materials with specific applications.
- Design of new catalysts.
- Surface-Covering for industrial applications.
- Determination of relevant chemical-physical properties to the industry.
- Evaluation of the implementation of ISO standards certification.
- Validation methods of analysis used in the chemical industry.
- Batch and continuous analytical process control in the chemical industry.
- Sensors chemical process control in the chemical industry.
- Any other issues related to the development of chemistry in industry.

5.4.Course planning and calendar

5.5.Bibliography and recommended resources