

Información del Plan Docente

Academic Year	2018/19
Subject	60655 - Master's Dissertation
Faculty / School	100 - Facultad de Ciencias
Degree	540 - Master's in Industrial Chemistry
ECTS	9.0
Year	1
Semester	Annual
Subject Type	Master Final Project
Module	---

1.General information**1.1.Aims of the course****1.2.Context and importance of this course in the degree****1.3.Recommendations to take this course****2.Learning goals****2.1.Competences****2.2.Learning goals****2.3.Importance of learning goals****3.Assessment (1st and 2nd call)****3.1.Assessment tasks (description of tasks, marking system and assessment criteria)****4.Methodology, learning tasks, syllabus and resources****4.1.Methodological overview****4.2.Learning tasks****4.3.Syllabus**

Students can choose the following research lines for their 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.

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- Methods to minimize the environmental impact of industrial processes and energy requirement.
- Proposal of new industrial processes using renewable raw materials.
- Revaluation 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.

4.4.Course planning and calendar

4.5.Bibliography and recommended resources