

Academic Year/course: 2022/23

60655 - Master's Dissertation

Syllabus Information

Academic Year: 2022/23

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

2. Learning goals

3. Assessment (1st and 2nd call)

4. Methodology, learning tasks, syllabus and resources

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.
- 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.