# 60655 - Master's Dissertation

**Información del Plan Docente**

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| **Academic Year** | 2016/17 |
| **Academic center** | 100 - Facultad de Ciencias |
| **Degree** | 540 - Master's in Industrial Chemistry |
| **ECTS** | 9.0 |
| **Course** | 1 |
| **Period** | Annual |
| **Subject Type** | Master Final Project |
| **Module** | --- |

## 1.Basic info

## 1.1.Recommendations to take this course

## 1.2.Activities and key dates for the course

## 2.Initiation

## 2.1.Learning outcomes that define the subject

## 2.2.Introduction

## 3.Context and competences

## 3.1.Goals

## 3.2.Context and meaning of the subject in the degree

## 3.3.Competences

## 3.4.Importance of learning outcomes

## 4.Evaluation

## 5.Activities and resources

## 5.1.General methodological presentation

## 5.2.Learning activities

## 5.3.Program

For guidance, we propose some possible lines of work to develop:

- 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.

## 5.4.Planning and scheduling

## 5.5.Bibliography and recomended resources