

MSc IN INDUSTRIAL CHEMISTRY

Duration: One year, full-time; 60 ECTS credits

Language: Spanish

Program aims:

The purpose of this master's program is to complete training in chemistry for graduates who want to acquire skills required for a professional career in the chemical industry and related sectors. This additional training allows graduates to meet industrial sector companies' requirements, and it also includes development of the skills required to access doctorate chemistry programs. Students enrolled in this master's program will acquire extensive knowledge in the field of industrial chemistry necessary for the proper development of the profession in a productive environment. Among others, the following topics will be covered: the main processes and chemicals used in the chemical industry; applications of various advanced methodologies in the industry; chemicals' impact on the environment and their reduction; control methods for processes and products on an industrial scale; typical management structure of a chemical company; and existing legislation on the use of chemicals.

Structure:

Students must enroll in the following modules:

Module	ECTS	Semester
60640 - Industrial Chemistry ^{ELF}	10	YL
60641 - Environmental Legislation and Management Systems ^{ELF}	9	YL
60642 - Environmental Chemistry ^{ELF}	8	YL
60643 - Process and Product Control ^{ELF}	6	S1
60644 - Equipment for Chemical Processes ^{ELF}	6	S1
60645 - Electrochemistry and Photochemistry for Industry ^{ELF}	6	S2
60655 – Master's Dissertation*	9	YL

Students also must select two modules from the following list:

Module	ECTS	Semester
60646 - Alternative Solvents for Industry	3	S2
60647 - Renewable Raw Materials ^{ELF}	3	S2
60648 - Applied Organic Chemistry	3	S2
60649 - Advanced Inorganic Materials ^{ELF}	3	S2
60650 - Metrology in the Chemistry Laboratory ^{ELF}	3	S2

60651 - Risk Assessment in the Chemical Industry	3	S2
60652 - Food Processing Procedures ^{ELF}	3	S2
60653 - Industrial Catalytic Processes	3	S2
60654 - Pulp and Paper Technology	3	S2

***Master's Dissertation**

Master's Dissertation is a 225-hour compulsory project on any of the degree subjects.