

CHEMISTRY 120 ECTS

The **Master's degree** in Chemistry seeks to consolidate the basics of Chemical disciplines, allowing students to acquire competences for carrying out activities in the fields of scientific and technological innovation. The graduate will be able to work in laboratories, public and private companies, especially in the research and development sectors, where innovation is mostly needed, even at the management level.

| Compulsory Subjects | ECTS |
|---|------|
| Functional and Structural Biochemistry | 6 |
| Synthesis and mechanisms in organic chemistry | 8 |
| Magnetic Resonance | 6 |
| Catalysis | 6 |

tot.: 26 ECTS

| Characterizing optional subjects (5) - 6 ECTS each - | | | | |
|---|--|--|----------------------|---|
| Inorganic Chemistry | Physical Chemistry | Organic Chemistry | Industrial Chemistry | Analytical Chemistry |
| - Bioinorganic chemistry; - Metal complexes; - Inorganic Synthesis; | -Structural Chemistry; -Solid State Chemistry; -Computational Chemistry; | - New Trends in Organic Chemistry; - Molecular Modeling | Polymeric Materials | - Analytical Strategies; - Chemometrics; |
| a choice of 2 | | a choice of 1 | 1 | a choice of 1 |

tot.: 30 ECTS

| Optional (5) | |
|---|--|
| Releted subjects (6 ECTS) | Elective Subjects (4 ECTS) |
| - Agricultural Chemistry; - Synthesis and Development Methodologies; - European Projects, Innovation and Intellectual Property Law; | - Identification of organic compounds; - Applied Eletrocatalysis; -Solid State Modeling ad Simulaton; -Radiochemistry |
| a choice of 2 | a choice of 3 |

tot.: 24 ECTS

| | |
|---------------------------|----------------|
| Internship | 4 ECTS |
| Final dissertation | 36 ECTS |