### Master of Science in Chemical Engineering and Biotechnology

2-year program - 120 ECTS

#### Core courses (10 ECTS)
- Management and safety
- Safety of chemical processes
- Advanced diffusional processes
- Heterogeneous reaction engineering

#### Options (28 ECTS)
- Advanced materials for photovoltaics and lighting
- Catalysis for emission control and energy processes
- Catalysis for energy storage
- Electrochemical engineering
- Modeling and optimization of energy systems
- Nanomaterials for chemical engineering application
- Process intensification and green chemistry
- Solid state chemistry and energy applications
- Thermodynamics of energy conversion and storage

#### Projects (16 ECTS)
- Chemical engineering lab and project
- Chemical engineering product design
- Process development

#### Industrial internship (30 ECTS)

#### Master’s thesis (30 ECTS)

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Students can opt for a 30 ECTS minor instead of the industrial internship.

**Recommended minors with this program:**
- Management, technology and entrepreneurship
- Science, technology and area studies

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