

MSc. of Physical Chemistry / Chemical Engineering Chemical Engineering specialisation

Year One

Fall Semester

Phys Chem 1 ECTS 12

Kinetics and Thermodynamics

Analytical and physical chemistry, Pratical courses

Optical spectroscopies

Separation methods and mass spectometry

Chem Eng 1 ECTS 9

Polymer chemistry

Petrochemistry

Membrane separation

Info 1 ECTS 9

Project-mode applied programming in Python Introduction to Data Science

Year One

Spring Semester

Phys Chem 2 ECTS 9

Inorganic analysis and speciation

Electrochemistry

NMR Spectroscopy

Chem Eng 2 ECTS 6

Advanced transfers

Polymer Reaction Engineering



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Info 2 ECTS 6

Chemical databases and Chemoinformatics

Molecular Modeling + Quantum Chemistry

5 week Internship

ECTS 9

Internship 5 weeks

Year Two
Fall Semester

Chem Eng 3 ECTS 12

Energy / Biomass

Chemical engineering Practical Work

Process intensification

Environmental waste water treatment

Chem Eng 4 ECTS 9

Process systems engineering

Catalytic reactor engineering

Engineering rheology

Chem Eng 5 ECTS 9

Chemical process control

Process simulation

Industrial lectures

Year Two
Spring Semester

1-6 month Research Internship

ECTS 30

Industrial lectures