CH-349

Experimental physical chemistry

Drabbels Marcel

Cursus	Sem.	Type
Chemical Engineering	BA5	Obl.
Chemistry	BA5	Obl.

Language of teaching	English
Credits	4
Withdrawal	Unauthorized
Session	Winter
Semester	Fall
Exam	During the semester
Workload	120h
Weeks	14
Hours	**4 weekly**
Project	4 weekly
Number of positions	

It is not allowed to withdraw from this subject after the registration deadline.

Summary

Experiments related to physical chemistry courses

Content

- Introduction to error analysis
- Calorimetry
- Amperometry
- Laser spectroscopy, Fourier transform spectroscopy
- Kinetics
- Surfactants, surface tension

Learning Outcomes

By the end of the course, the student must be able to:

- Work out / Determine heat capacity
- Work out / Determine diffusion coefficient
- Work out / Determine rotational and vibrational constants
- Work out / Determine activation energy
- Work out / Determine surface tension
- Assess / Evaluate experimental data

Transversal skills

- Write a scientific or technical report.
- Access and evaluate appropriate sources of information.
- Collect data.
- Use a work methodology appropriate to the task.
- Take feedback (critique) and respond in an appropriate manner.
- Keep appropriate documentation for group meetings.

Assessment methods

Evaluation of the individual experiments performed during the semester