

t.CP - Chemisches Grundpraktikum

Person responsible for the course: Dirk Penner, penr

Credits: 5

Valid for: 2010/2011

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Learning objectives:

The students learn basics of chemical scientific techniques by autonomus experiments and get used to:

- Safety regulations and safe operations
- Basic laboratory operations
- Measurement uncertainties of analytical procedures
- Scientific writing and reporting
- Literature search

The subjects of the course ACMV 1 are illustrated and supported by experiments.

Course content:

Experiments:

Calorimetry

Reaction Kinetics

Electrochemistry

Distribution equilibria

Lambda sensor

PEM fuel cell

Quantitative analysis - volumetric, gravimetric, potentiometric methods

Precipitation reaction and product characterization

Photometry and ICP

Previous knowledge:

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Teaching method:

Type of lesson:	Number of lessons per week:
Lecture	
Tutorial/Practicum	5
Group teaching	
Block instruction	
Seminar	

Assessment:

According to the table or as specified in writing by the lecture at the beginning of the semester!

Number	Type	Weighting
9	Reports	
	Exam during the semester	
	Further assessments	

Language of instruction:

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Instruction material:

Script

Textbook: Chemie Mortimer, Müller Thieme

Comments:

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