CH-617

High pressure in chemical kinetics and equilibria

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Cursus	Sem.	Type
Advanced Manufacturing		Obl.

Language of teaching	English
Credits	2
Session	
Exam	Project report
Workload	60h
Hours	**28**
Courses	4
TP	24
Number of positions	**4**

Remark

Next time: December 2019

Summary

To familiarise the students with the theory and the practice of the high pressure chemistry, working up to 2000 bar pressure. Working with pressuriseg gases.

Content

Introduction
Pressure effect on chemical kinetics

- Pressure effect on chemical equilibria
- High pressure UV-Vis spectrophotometry
- High pressure FT-IR spectroscopy
- High pressure stopped-flow method
- Working with pressurised gases
- Medium pressure NMR measurements

Keywords

High pressure, pressure effect, high pressure gases, activation volume, reaction volume