

CH-617

**High pressure in chemical kinetics and equilibria**

Laurenczy Gabor

<b>Cursus</b>	<b>Sem.</b>	<b>Type</b>
Advanced Manufacturing		Obl.

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

**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 pressurised 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

**Note****Next session December 2017 (block 1 week)**

Max. 8 participants possible

**Keywords**

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