

# Course description

<b>Course abbreviation:</b>	KCH/SANC2	<b>Page:</b>	1 / 2
<b>Course name:</b>	Seminar - Inorganic Chemistry 2		
<b>Academic Year:</b>	2016/2017	<b>Printed:</b>	20.01.2018 04:10

<b>Department/Unit /</b>	KCH / SANC2	<b>Academic Year</b>	2016/2017
<b>Title</b>	Seminar - Inorganic Chemistry 2	<b>Type of completion</b>	Pre-Exam Credit
<b>Accredited/Credits</b>	Yes, 1 Cred.	<b>Type of completion</b>	Combined
<b>Number of hours</b>	Seminar 1 [Hours/Week]		
<b>Occ/max</b>	Status A      Status B      Status C	<b>Course credit prior to</b>	NO
<b>Summer semester</b>	0 / -      0 / -      0 / -	<b>Counted into average</b>	NO
<b>Winter semester</b>	0 / 0      17 / -      0 / 0	<b>Min. (B+C) students</b>	not determined
<b>Timetable</b>	Yes	<b>Repeated registration</b>	NO
<b>Language of instruction</b>	Czech	<b>Semester taught</b>	Winter semester
<b>Substituted course</b>	None	<b>Internship duration</b>	0
<b>Preclusive courses</b>	KCH/ANOC2		
<b>Prerequisite</b>	N/A		
<b>Informally recommended courses</b>	N/A		
<b>Courses depending on this Course</b>	N/A		

## Course objectives:

Koordinální sloučeniny.

## Requirements on student

Evaluation of the subject as well as the exam grading is made according to the articles No 31 - 33 in the Regulations on Study and Examinations University of Ostrava

## Content

1. Základní pojmy z chemie koordináčních sloučenin, koordináční číslo.
2. Stereochemie komplexů
3. Izomerie u komplexů
4. Test 1
5. Vazba v komplexech - teorie valenčních vazeb
6. Vazba v komplexech - teorie krystalového pole
7. Vazba v komplexech - důsledky štěpení d-orbitalů (stabilizační energie, magnetické vlastnosti, barevnost)
8. Test 2
9. Stabilita komplexů - celkové a konsektivní konstanty stability
10. Faktory ovlivňující stabilitu komplexů
11. Komplexy s pi-akceptorovými ligandy, pi-komplexy
12. Kinetika a mechanismus reakcí komplexů.
13. Test 3

## Prerequisites - other information about course preconditions

## Competences acquired

orientuje se v problematice koordináčních sloučenin

## Fields of study

## Guarantors and lecturers

- **Guarantors:** doc. RNDr. Václav Slovák, Ph.D.

- **Seminar lecturer:** doc. RNDr. Václav Slovák, Ph.D.

### Literature

- **Basic:** GREENWOOD N. N., EARNSHAW A. *Chemie prvků*. Informatorium Praha, 1993.
- **Basic:** BŘEZINA F., PASTOREK R. *Koordináční chemie. Skripta UP Olomouc.* 1991.
- **Recommended:** Housecroft E.H., Sharpe A.G. *Anorganická chemie*. Praha, 2014.

### Time requirements

Activities	Time requirements for activity [h]
Being present in classes	13
Preparation for test	13
<b>Total:</b>	<b>26</b>

### assessment methods

#### professional knowledge

Continuous analysis of student's achievements

### teaching methods

#### professional knowledge

Dialogic (discussion, dialogue, brainstorming)

### learning outcomes

#### professional knowledge - knowledge resulting from the course:

orientuje se v problematice koordinačních sloučenin

### Course is included in study programmes:

Study Programme	Type of	Form of	Branch	Stage	St. plan v.	Year	Block	Status	R.year	R.
Chemistry	Bachelor	Full-time	Chemistry	1	2012	2016	Povinně volitelné předměty	B	2	ZS
Chemistry	Bachelor	Full-time	Chemistry with Other Degree Specialization	1	2	2016	Povinně volitelné předměty	B	2	ZS
Chemistry	Bachelor	Full-time	Chemistry with Other Degree Specialization	1	2014	2016	Povinně volitelné předměty	B	2	ZS
Physics	Bachelor	Full-time	Chemistry with Other Degree Specialization	1	2014	2016	Povinně volitelné předměty	B	2	ZS