University: P. J. Šafá	University: P. J. Šafárik University in Košice			
Faculty: Faculty of Science				
Course ID: ÚCHV/ IG/04	Course ID: ÚCHV/ Course name: Acquirement of Internal Grant G/04			
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present				
Number of credits: 1	0			
Recommended seme	ster/trimester of the cours	<b>e:</b> 6., 8.		
Course level: III.				
Prerequisities:				
Conditions for cours	e completion:			
Learning outcomes:				
Brief outline of the c	ourse:			
Recommended litera	iture:			
Course language:				
Notes:				
Course assessment Total number of assessed students: 144				
abs n				
100.0 0.0				
Provides:				
Date of last modification: 03.05.2015				
Approved: prof. RNDr. Juraj Černák, CSc.				

Faculty: Faculty of Science

Course ID: ÚCHV/	<b>Course name:</b> Bioinorganic Chemistry
DBACH/13	

Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours):

Per week: 2 / 2 Per study period: 28 / 28

Course method: present

Number of credits: 9

**Recommended semester/trimester of the course:** 

Course level: III.

Prerequisities:

**Conditions for course completion:** 

#### Learning outcomes:

Goal of the course is to provide the students with a knowledge of chemical elements in biological systems, biometals, their importance and function, biocoordination compounds, biomineralization, biominerals and biomaterials.

#### **Brief outline of the course:**

Metal complexes in living systems - metalloproteins, metalloenzymes, metallophosphates, Fe-S clusters, their function. Biometals, their transport. Ion channels, ionophores. Biological redox processes. Role of biometals in biophotochemical processes. Biominerals, biomaterials, biosenzors. Bioinorganic chemistry of toxic elements and compounds. Chemistry of elements in medicine, metal complexes in diagnostics. New trends in bioinorganic chemistry.

#### **Recommended literature:**

1. D. F. Shriver, P. W. Atkins, T. L. Overton, J. P. Rourke, M. T. Weller, F. A. Amstrong: Inorganic Chemistry, kapitola 26. Oxford University Press, Oxford 2006.

2. C. E. Housecroft, A.G. Sharpe: Inorganic Chemistry, kapitola 28. Pearson Education, Harlow 2005.

3. C. M. Lukehart, R. A. Scott: Nanomaterials: Inorganic and Bioinorganic Perspectives, kapitoly 1-5. J. Wiley, Chichester 2008.

4. W. Kaim, B. Schvederski: Bioinorganic Chemistry, J. Wiley&Sons, New York 1994.5. J. C. Dabrowiak: Metals in Medicine. J. Wiley&Sons, Chichester 2009.

#### **Course language:**

Notes:

#### **Course assessment**

Total number of assessed students: 2

Ν	Р
0.0	100.0

Provides: prof. RNDr. Katarína Györyová, DrSc., doc. RNDr. Zuzana Vargová, Ph.D.

**Date of last modification:** 03.05.2015

Approved: prof. RNDr. Juraj Černák, CSc.

University: P. J. Šafá	University: P. J. Šafárik University in Košice		
Faculty: Faculty of Science			
Course ID: ÚCHV/ CZC/04	Course ID: ÚCHV/ Course name: Citation in the International Scientific Journal		
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present			
Number of credits: 1	0		
Recommended seme	ster/trimester of the cours	e:	
Course level: III.			
Prerequisities:			
Conditions for cours	e completion:		
Learning outcomes:			
Brief outline of the c	ourse:		
Recommended litera	iture:		
Course language:			
Notes:	Notes:		
Course assessment Total number of assessed students: 15			
abs n			
100.0 0.0			
Provides:			
Date of last modification:			
Approved: prof. RNDr. Juraj Černák, CSc.			

University: P. J. Šafá	University: P. J. Šafárik University in Košice		
Faculty: Faculty of Science			
Course ID: ÚCHV/ CDC/04	Course ID: ÚCHV/ Course name: Citation in the Local Scientific Journal		
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present			
Number of credits: 5	5		
Recommended seme	ster/trimester of the cours	e:	
Course level: III.			
Prerequisities:			
Conditions for cours	e completion:		
Learning outcomes:			
Brief outline of the c	ourse:		
Recommended litera	ature:		
Course language:			
Notes:			
Course assessment Total number of assessed students: 0			
abs n			
0.0 0.0			
Provides:			
Date of last modification:			
Approved: prof. RNDr. Juraj Černák, CSc.			

University: P. J. Šafárik University in Košice			
Faculty: Faculty of Science			
Course ID: ÚCHV/ CM/04	Course ID: ÚCHV/ Course name: Citation in the Monograph		
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present			
Number of credits: 2	20		
Recommended seme	ster/trimester of the cours	e:	
Course level: III.			
Prerequisities:			
Conditions for cours	e completion:		
Learning outcomes:			
Brief outline of the c	ourse:		
Recommended litera	iture:		
Course language:			
Notes:	Notes:		
Course assessment Total number of assessed students: 2			
abs n			
100.0 0.0			
Provides:			
Date of last modification:			
Approved: prof. RNDr. Juraj Černák, CSc.			

University: P. J. Šafárik University in Košice			
Faculty: Faculty of Science			
Course ID: ÚCHV/ SDPR/04	Course ID: ÚCHV/ Course name: Co-worker of a Local Project		
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present			
Number of credits: 2			
Recommended seme	ster/trimester of the cours	e:	
Course level: III.			
Prerequisities:			
Conditions for cours	e completion:		
Learning outcomes:			
Brief outline of the c	ourse:		
Recommended litera	iture:		
Course language:			
Notes:			
Course assessment Total number of assessed students: 252			
abs n			
99.6 0.4			
Provides:			
Date of last modification:			
Approved: prof. RNDr. Juraj Černák, CSc.			

University: P. J. Šafárik University in Košice			
Faculty: Faculty of Science			
Course ID: ÚCHV/ SMPR/04	Course ID: ÚCHV/ Course name: Co-worker of an International Project		
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present			
Number of credits: 1	5		
Recommended seme	ster/trimester of the cours	e:	
Course level: III.			
Prerequisities:			
Conditions for cours	e completion:		
Learning outcomes:			
Brief outline of the c	ourse:		
Recommended litera	iture:		
Course language:			
Notes:			
Course assessment Total number of assessed students: 24			
abs n			
100.0 0.0			
Provides:			
Date of last modification:			
Approved: prof. RNDr. Juraj Černák, CSc.			

University: P	J. Šafárik	University i	in Košice
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Faculty: Faculty of Science

Course ID: ÚCHV/	Course name: Diffraction methods
DDM/13	

# Course type, scope and the method:

Course type: Lecture / Practice

Recommended course-load (hours):

**Per week:** 2 / 4 **Per study period:** 28 / 56 **Course method:** present

Number of credits: 9

#### **Recommended semester/trimester of the course:**

Course level: III.

Prerequisities:

#### **Conditions for course completion:**

2 written tests

30%

Written test, oral examination, solution of the crystal structure and processing the results in the form of text, tables and structural diagram (figure).

#### Learning outcomes:

PhD. student handles both theoretical and practical aspects of single crystal structural analysis, and powder diffraction. He is able to solve independently crystal structures by a method of single crystal structural analysis and to evaluate powder diffraction records and use the results of these methods in his work.

#### Brief outline of the course:

Macrostructure and microstructure symmetry, individual work with space groups. Theoretical basis of the diffraction experiment. Practical aspects of crystal structure solution. Processing the results of structural analysis. Theoretical basis, practical aspects and possibilities of X-ray powder diffraction analysis, its use at work of an inorganic chemist.

#### **Recommended literature:**

Massa, W.: Crystal structure determination. Springer 2000.

Clegg, W. et al.: Crystal structure analysis. Principles and practice. Oxford University Press 2009. Stout, G.H. & Jensen, L.H.: X-ray Structure Determination. Macmillan Publishing Co., Inc. 1968. Klug, H.P. & Alexander, L.E.: X-Ray diffraction procedures for polycrystalline and amorphous materials. John Wiley & Sons, Inc. 1970.

Hahn, T.: International tables for crystallography, Vol. A. Kluwer Academic Publishers 2002. Manuals for programs.

#### **Course language:**

Notes:

Course assessment Total number of assessed students: 4					
N P abs neabs					
0.0	75.0	25.0	0.0		
Provides: doc. RNDr. Ivan Potočňák, PhD.					
Date of last modification: 03.05.2015					
Approved: prof. RNDr. Juraj Černák, CSc.					

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of S	Faculty: Faculty of Science		
Course ID: ÚCHV/ PPC/04	e ID: ÚCHV/ Course name: Direct Pedagogical Activities		
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present			
Number of credits: 1			
Recommended seme	ster/trimester of the cours	e:	
Course level: III.			
Prerequisities:			
Conditions for cours	e completion:		
Learning outcomes:			
Brief outline of the c	ourse:		
Recommended litera	iture:		
Course language:			
Notes:			
Course assessment Total number of assessed students: 263			
	abs n		
100.0 0.0			
Provides:			
Date of last modification:			
Approved: prof. RNDr. Juraj Černák, CSc.			

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of S	cience		
Course ID: ÚCHV/ DZS/15	Durse ID: ÚCHV/ Course name: Doctoral Exam ZS/15		
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present			
Number of credits: 5			
Recommended seme	ster/trimester of the cours	2: 3., 4	
Course level: III.			
Prerequisities:			
Conditions for cours	e completion:		
Learning outcomes:			
Brief outline of the c	ourse:		
Recommended litera	iture:		
Course language:			
Notes:			
<b>Course assessment</b> Total number of assessed students: 4			
	N P		
0.0 100.0			
Provides:			
Date of last modification: 03.05.2015			
Approved: prof. RNDr. Juraj Černák, CSc.			

University: P. J.	. Šafárik Univers	ity in Košice			
Faculty: Faculty	y of Science				
Course ID: CJF AJD1/07	<b>Course na</b>	Course name: English Language for PhD Students 1			
Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: present					
Number of crea	lits: 2				
Recommended	semester/trimes	ster of the cours	<b>e:</b> 1.		
Course level: II	I				
Prerequisities:					
<b>Conditions for</b>	course completi	on:			
Learning outco	mes:				
Brief outline of	the course:				
Recommended	literature:				
Course languag	ge:				
Notes:					
Course assessment Total number of assessed students: 425					
N	Ne	Р	Pr	abs	neabs
0.0	0.0 0.0 67.53 0.0 32.47 0.0				
Provides: PhDr. Helena Petruňová, CSc., Mgr. Zuzana Kolaříková, PhD.					
Date of last modification: 03.05.2015					
Approved: prof. RNDr. Juraj Černák, CSc.					

University: P. J.	Šafárik Univers	ity in Košice			
Faculty: Faculty	of Science				
Course ID: CJP/ AJD2/07	Course na	Course name: English Language for PhD Students 2			
Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: present					
Number of cred	its: 3				
Recommended s	semester/trimes	ster of the cours	e: 2.		
Course level: III	[				
Prerequisities:					
Conditions for c	course completi	on:			
Learning outcom	mes:				
Brief outline of	the course:				
Recommended I	Recommended literature:				
Course languag	e:				
Notes:					
Course assessment Total number of assessed students: 421					
N	Ne	Р	Pr	abs	neabs
0.0	0.0 0.0 89.79 1.9 8.31 0.0				
Provides: PhDr. Helena Petruňová, CSc., Mgr. Zuzana Kolaříková, PhD., Mgr. Barbara Mitríková					
Date of last modification: 03.05.2015					
Approved: prof. RNDr. Juraj Černák, CSc.					

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of S	Faculty: Faculty of Science		
Course ID: ÚCHV/ DCNM/13	ourse ID: ÚCHV/ Course name: Chémia nanomateriálov CNM/13		
Course type, scope a Course type: Lectur Recommended cour Per week: 3 / 1 Per Course method: pre	nd the method: re / Practice rse-load (hours): study period: 42 / 14 esent		
Number of credits: 9			
Recommended seme	ster/trimester of the cou	rse:	
Course level: III.			
Prerequisities:			
Conditions for cours	e completion:		
Learning outcomes:	Learning outcomes:		
Brief outline of the c	ourse:		
Recommended litera	iture:		
Course language:			
Notes:			
Course assessment Total number of assessed students: 2			
	N P		
0.0 100.0			
Provides: doc. RNDr. Vladimír Zeleňák, PhD.			
Date of last modification: 03.05.2015			
Approved: prof. RNI	Approved: prof. RNDr. Juraj Černák, CSc.		

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of S	Faculty: Faculty of Science		
Course ID: ÚCHV/ DCKOK/13	<b>Course name:</b> Chemistry of Coordination, Organometallic and Cluster Compounds		
Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per week: 3 / 1 Per study period: 42 / 14 Course method: present			
Number of credits: 9	)		
Recommended seme	ster/trimester of the cours	e:	
Course level: III.			
Prerequisities:			
Conditions for cours	e completion:		
Learning outcomes:			
Brief outline of the c	ourse:		
Recommended litera	iture:		
Course language:			
Notes:			
Course assessment Total number of assessed students: 5			
	N P		
0.0 100.0			
Provides: prof. RNDr. Juraj Černák, CSc., RNDr. Martin Vavra, PhD.			
Date of last modification: 03.05.2015			
Approved: prof. RNDr. Juraj Černák, CSc.			

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of S	Faculty: Faculty of Science		
Course ID: ÚCHV/ SSOL/04	Ourse ID: ÚCHV/       Course name: Individual Study of Scientific Literature         SOL/04       SOL/04		
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present			
Number of credits: 2			
Recommended seme	ster/trimester of the cours	e:	
Course level: III.			
Prerequisities:			
Conditions for cours	e completion:		
Learning outcomes:			
Brief outline of the c	ourse:		
Recommended litera	iture:		
Course language:			
Notes:			
Course assessment Total number of assessed students: 159			
	abs n		
100.0 0.0			
Provides:			
Date of last modification: 03.05.2015			
Approved: prof. RNDr. Juraj Černák, CSc.			

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of S	Faculty: Faculty of Science		
Course ID: ÚCHV/ MK/04	ourse ID: ÚCHV/ Course name: International Conference K/04		
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present			
Number of credits: 6			
Recommended seme	ster/trimester of the cours	e:	
Course level: III.			
Prerequisities:			
Conditions for cours	e completion:		
Learning outcomes:			
Brief outline of the c	ourse:		
Recommended litera	iture:		
Course language:			
Notes:			
Course assessment Total number of assessed students: 146			
	abs n		
100.0 0.0			
Provides:			
Date of last modification: 03.05.2015			
Approved: prof. RNDr. Juraj Černák, CSc.			

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of S	Faculty: Faculty of Science		
Course ID: ÚCHV/ ZKC/04	urse ID: ÚCHV/ Course name: International Currented Journal C/04		
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present			
Number of credits: 2			
Recommended seme	ster/trimester of the cours	e:	
Course level: III.			
Prerequisities:			
Conditions for cours	e completion:		
Learning outcomes:			
Brief outline of the c	ourse:		
Recommended litera	iture:		
Course language:			
Notes:			
Course assessment Total number of assessed students: 179			
	abs n		
99.44 0.56			
Provides:			
Date of last modification: 03.05.2015			
Approved: prof. RNDr. Juraj Černák, CSc.			

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of S	cience		
Course ID: ÚCHV/ ZNC/04	<b>urse ID:</b> ÚCHV/ <b>Course name:</b> International Non-Currented Jounal		
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present			
Number of credits: 5			
Recommended seme	ster/trimester of the cours	e:	
Course level: III.			
Prerequisities:			
Conditions for cours	e completion:		
Learning outcomes:			
Brief outline of the c	ourse:		
Recommended litera	iture:		
Course language:			
Notes:			
Course assessment Total number of assessed students: 14			
	abs n		
100.0 0.0			
Provides:			
Date of last modification: 03.05.2015			
Approved: prof. RNDr. Juraj Černák, CSc.			

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of S	cience		
Course ID: ÚCHV/ NEM/04	<b>Purse ID:</b> ÚCHV/ <b>Course name:</b> Introduction of a New Experimental Method EM/04		
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present			
Number of credits: 1	5		
Recommended seme	ster/trimester of the cours	e:	
Course level: III.			
Prerequisities:			
Conditions for cours	e completion:		
Learning outcomes:			
Brief outline of the c	ourse:		
Recommended litera	iture:		
Course language:			
Notes:			
Course assessment Total number of assessed students: 7			
	abs n		
100.0 0.0			
Provides:			
Date of last modification:			
Approved: prof. RNDr. Juraj Černák, CSc.			

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of S	cience		
Course ID: ÚCHV/ DK/04	Durse ID: ÚCHV/ Course name: Local Conference K/04		
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present			
Number of credits: 2			
Recommended seme	ster/trimester of the cours	e:	
Course level: III.			
Prerequisities:			
Conditions for cours	e completion:		
Learning outcomes:			
Brief outline of the c	ourse:		
<b>Recommended litera</b>	iture:		
Course language:			
Notes:			
Course assessment Total number of assessed students: 66			
	abs n		
100.0 0.0			
Provides:			
Date of last modification:			
Approved: prof. RNDr. Juraj Černák, CSc.			

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of S	cience		
Course ID: ÚCHV/ DKZU/04	<b>Course ID:</b> ÚCHV/ <b>Course name:</b> Local Conference with Foreign Participation		
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present			
Number of credits: 4			
Recommended seme	ster/trimester of the cours	e:	
Course level: III.	Course level: III.		
Prerequisities:			
Conditions for cours	e completion:		
Learning outcomes:	Learning outcomes:		
Brief outline of the c	Brief outline of the course:		
Recommended litera	iture:		
Course language:	Course language:		
Notes:			
Course assessment Total number of assessed students: 142			
abs n			
100.0 0.0			
Provides:			
Date of last modification: 03.05.2015			
Approved: prof. RNI	Approved: prof. RNDr. Juraj Černák, CSc.		

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of S	cience		
Course ID: ÚCHV/ DKC/04	ourse ID: ÚCHV/ Course name: Local Currented Journal KC/04		
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present			
Number of credits: 1	5		
Recommended seme	ster/trimester of the cours	e:	
Course level: III.	Course level: III.		
Prerequisities:			
Conditions for cours	e completion:		
Learning outcomes:	Learning outcomes:		
Brief outline of the c	ourse:		
Recommended litera	iture:		
Course language:	Course language:		
Notes:	Notes:		
Course assessment Total number of assessed students: 9			
	abs n		
100.0 0.0			
Provides:			
Date of last modification: 03.05.2015			
Approved: prof. RNDr. Juraj Černák, CSc.			

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of S	cience		
Course ID: ÚCHV/ DNC/04	ourse ID: ÚCHV/ Course name: Local Non-Currented Journal NC/04		
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	nd the method: rse-load (hours): y period: esent		
Number of credits: 5			
Recommended seme	ster/trimester of the cou	rse:	
Course level: III.			
Prerequisities:			
Conditions for cours	e completion:		
Learning outcomes:	Learning outcomes:		
Brief outline of the c	ourse:		
Recommended litera	iture:		
Course language:			
Notes:			
Course assessment Total number of asse	ssed students: 14		
	abs n		
100.0 0.0			0
Provides:			
Date of last modifica	tion: 03.05.2015		
Approved: prof. RNI	Dr. Juraj Černák, CSc.		

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of S	cience		
Course ID: ÚCHV/ DMAL/13	<b>Course ID:</b> ÚCHV/ <b>Course name:</b> Magnetochemistry of Inorganic Compounds MAL/13		
Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per week: 3 / 1 Per study period: 42 / 14 Course method: present			
Number of credits: 9			
Recommended seme	ster/trimester of the cours	e:	
Course level: III.			
Prerequisities:			
Conditions for cours	e completion:		
Learning outcomes:			
Brief outline of the c	Brief outline of the course:		
Recommended litera	iture:		
Course language:			
Notes:			
Course assessment Total number of assessed students: 2			
	N P		
	0.0 100.0		
Provides: doc. RNDr. Alžbeta Orendáčová, DrSc.			
Date of last modification: 03.05.2015			
Approved: prof. RNI	Approved: prof. RNDr. Juraj Černák, CSc.		

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of S	cience		
Course ID: ÚCHV/ POVK/04	Course ID: ÚCHV/ Course name: Membership in a Conference organizing Committee OVK/04		
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present			
Number of credits: 2			
Recommended seme	ster/trimester of the cours	e:	
Course level: III.			
Prerequisities:			
Conditions for cours	e completion:		
Learning outcomes:	Learning outcomes:		
Brief outline of the c	Brief outline of the course:		
Recommended litera	Recommended literature:		
Course language:			
Notes:			
Course assessment Total number of assessed students: 26			
abs n			
100.0 0.0			
Provides:			
Date of last modification:			
Approved: prof. RNI	Approved: prof. RNDr. Juraj Černák, CSc.		

University: D. I. Šefé				
E and the E and the of S				
Faculty: Faculty of S				
Course ID: UCHV/ DMIZ/13	Course name: Molekulové	nkluzívne zlúčeniny		
Course type, scope a	nd the method:			
Course type: Lectur	e / Practice			
Per week: 2 / 2 Per	study period: 28 / 28			
Course method: pre	esent			
Number of credits: 9				
Recommended seme	ster/trimester of the cours	e:		
Course level: III.				
Prerequisities:				
Conditions for cours	e completion:			
Learning outcomes: Goal of the course is to provide the PhD students with a knowledge of inclusion compounds and supramolecular chemistry from the point of view of their physicochemical properties, structure and application				
<b>Brief outline of the course:</b> Different types of inclusion compounds (host-gestures compounds), types of interactions, structure, properties. Materials on base of inclusion compounds and their application in various areas of practice, in industry, agriculture, environment (sorbents, carriers of biochemical, pharmaceutical and agrochemical substances). Materials with electrochromic and photochromic properties.				
<ul> <li>Recommended literature:</li> <li>1. J. W. Steed, J. L. Atwood: Supramolecular Chemistry, J. Wiley, Chichester 2002.</li> <li>2. J. L. Atwood, J. E. Davies: Inclusion compounds, Oxford University Press, Oxford 1984.</li> <li>3. D. Cram, J. M. Cram: Container molecules and their guests, RSC, Cambridge 1994.</li> <li>4. J. W. Steed, D. R.Turner, K. J. Wallace: Core Concepts in Supramolecular Chemistry and Nanochemistry. Wiley, Chichester 2007.</li> </ul>				
Course language:	Course language:			
Notes:				
Course assessment Total number of assessed students: 0				
	N P			
	0.0	0.0		
Provides: prof. RNDr. Juraj Černák, CSc., doc. RNDr. Zuzana Vargová, Ph.D.				
Date of last modification: 03.05.2015				
Approved: prof. RNI	Dr. Juraj Černák, CSc.			

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of S	cience		
Course ID: ÚCHV/ NZ/04	Course ID: ÚCHV/ Course name: Not-Reviewed International or Local Proceedings		
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present			
Number of credits: 2			
Recommended seme	ster/trimester of the cours	e:	
Course level: III.			
Prerequisities:			
Conditions for cours	e completion:		
Learning outcomes:	Learning outcomes:		
Brief outline of the c	ourse:		
Recommended litera	iture:		
Course language:			
Notes:			
Course assessment Total number of assessed students: 132			
abs n			
100.0 0.0			
Provides:			
Date of last modification: 03.05.2015			
Approved: prof. RNI	Approved: prof. RNDr. Juraj Černák, CSc.		

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of S	cience		
<b>Course ID:</b> ÚCHV/ ODZP/2014/15	Course ID: ÚCHV/ Course name: Obhajoba dizertačnej práce DDZP/2014/15		
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present			
Number of credits: 3	30		
Recommended seme	ster/trimester of the cours	e:	
Course level: III.			
Prerequisities:			
Conditions for cours	e completion:		
Learning outcomes:			
Brief outline of the c	ourse:		
Recommended litera	iture:		
Course language:			
Notes:			
Course assessment Total number of assessed students: 12			
N P			
0.0 100.0			
Provides:			
Date of last modification: 03.05.2015			
Approved: prof. RNDr. Juraj Černák, CSc.			

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of S	cience		
Course ID: ÚCHV/ PVS/04	ourse ID: ÚCHV/ Course name: Patents, Inventions, Software VS/04		
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present			
Number of credits: 2			
Recommended seme	ster/trimester of the cours	e:	
Course level: III.			
Prerequisities:			
Conditions for cours	e completion:		
Learning outcomes:	Learning outcomes:		
Brief outline of the c	ourse:		
Recommended litera	iture:		
Course language:			
Notes:	Notes:		
Course assessment Total number of assessed students: 0			
	abs n		
0.0 0.0			
Provides:			
Date of last modification:			
Approved: prof. RNI	Approved: prof. RNDr. Juraj Černák, CSc.		

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of S	cience		
Course ID: ÚCHV/ DPACH/13	ourse ID: ÚCHV/ Course name: Pokročilá anorganická chémia PACH/13		
Course type, scope and the method: Course type: Lecture Recommended course-load (hours): Per week: 4 Per study period: 56 Course method: present			
Number of credits: 9			
Recommended seme	ster/trimester of the cours	e:	
Course level: III.			
Prerequisities:			
Conditions for cours	e completion:		
Learning outcomes:	Learning outcomes:		
Brief outline of the c	ourse:		
Recommended litera	iture:		
Course language:			
Notes:			
Course assessment Total number of assessed students: 3			
	N P		
0.0 100.0			
Provides: prof. RNDr. Juraj Černák, CSc.			
Date of last modification: 03.05.2015			
Approved: prof. RNI	Approved: prof. RNDr. Juraj Černák, CSc.		

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of S	cience		
Course ID: ÚCHV/ VYS/04	ourse ID: ÚCHV/ Course name: Presentation in Seminar YS/04		
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present			
Number of credits: 2			
Recommended seme	ster/trimester of the cours	2:	
Course level: III.			
Prerequisities:			
Conditions for cours	e completion:		
Learning outcomes:			
Brief outline of the course:			
Recommended litera	Recommended literature:		
Course language:	Course language:		
Notes:			
Course assessment Total number of assessed students: 144			
	abs n		
	100.0 0.0		
Provides:			
Date of last modification:			
Approved: prof. RNI	Approved: prof. RNDr. Juraj Černák, CSc.		

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of S	cience		
Course ID: ÚCHV/ RZ/04	ourse ID: ÚCHV/ Course name: Reviewed International or Local Proceedings Z/04		
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present			
Number of credits: 5			
Recommended seme	ster/trimester of the cours	e:	
Course level: III.	Course level: III.		
Prerequisities:			
Conditions for cours	e completion:		
Learning outcomes:			
Brief outline of the c	ourse:		
Recommended litera	Recommended literature:		
Course language:			
Notes:	Notes:		
Course assessment Total number of assessed students: 186			
	abs n		
	100.0 0.0		
Provides:			
Date of last modification: 03.05.2015			
Approved: prof. RNI	Approved: prof. RNDr. Juraj Černák, CSc.		

University: P. J. Šafá	University: P. J. Šafárik University in Košice			
Faculty: Faculty of Science				
Course ID: ÚCHV/ VPBP/04	rse ID: ÚCHV/ Course name: Review of a Bachelor Thesis			
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present				
Number of credits: 2				
Recommended seme	ster/trimester of the cours	e:		
Course level: III.				
Prerequisities:				
Conditions for cours	e completion:			
Learning outcomes:				
Brief outline of the c	ourse:			
Recommended litera	iture:			
Course language:				
Notes:				
Course assessment Total number of assessed students: 44				
	abs	n		
	100.0	0.0		
Provides:				
Date of last modification:				
Approved: prof. RNI	Approved: prof. RNDr. Juraj Černák, CSc.			

University: P. J. Šafá	University: P. J. Šafárik University in Košice			
Faculty: Faculty of Science				
Course ID: ÚCHV/ SCI/04	Course ID: ÚCHV/ Course name: SCI Citation			
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present				
Number of credits: 2	20			
Recommended seme	ster/trimester of the cours	e:		
Course level: III.				
Prerequisities:				
Conditions for cours	e completion:			
Learning outcomes:				
Brief outline of the c	ourse:			
Recommended litera	iture:			
Course language:				
Notes:	Notes:			
Course assessment Total number of assessed students: 78				
	abs	n		
	100.0	0.0		
Provides:				
Date of last modification:				
Approved: prof. RNI	Approved: prof. RNDr. Juraj Černák, CSc.			

University: P. J. Šafárik University in Košice			
Faculty: Faculty of Science			
Course ID: ÚCHV/ DSRM/13	<b>Course name:</b> Spectral & Resenance Methods of Study Inorganic Compounds		
Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per week: 2 / 2 Per study period: 28 / 28 Course method: present			
Number of credits: 9			
Recommended seme	ster/trimester of the cours	e:	
Course level: III.			
Prerequisities:			
Conditions for cours	e completion:		
Learning outcomes:			
Brief outline of the c	ourse:		
Recommended litera	iture:		
Course language:			
Notes:	Notes:		
Course assessment Total number of assessed students: 4			
	Ν	Р	
	0.0	100.0	
Provides: RNDr. Juraj Kuchár, PhD.			
Date of last modification: 03.05.2015			
Approved: prof. RNI	Approved: prof. RNDr. Juraj Černák, CSc.		

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of Science			
Course ID: Dek. PF UPJŠ/JSD/14	Course name: Spring Scho	ool for PhD Students	
Course type, scope and the method: Course type: Lecture Recommended course-load (hours): Per week: Per study period: 4d Course method: present			
Number of credits: 2			
Recommended seme	ster/trimester of the cours		
Course level: III.			
Prerequisities:			
Conditions for cours	e completion:		
Learning outcomes:			
Brief outline of the c	ourse:		
Recommended litera	iture:		
Course language:			
Notes:			
Course assessment Total number of asses	ssed students: 68		
	abs	n	
	100.0	0.0	
Provides: doc. RNDr	Provides: doc. RNDr. Vladimír Zeleňák, PhD.		
Date of last modifica	tion: 03.05.2015		
Approved: prof. RNI	Dr. Juraj Černák, CSc.		

University: P. J. Šafá	University: P. J. Šafárik University in Košice			
Faculty: Faculty of Science				
Course ID: ÚCHV/ ZSP/04	ourse ID: ÚCHV/ Course name: Study Stay Abroad SP/04			
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present				
Number of credits: 2				
Recommended seme	ster/trimester of the cours	e: 6., 8.		
Course level: III.				
Prerequisities:				
Conditions for cours	e completion:			
Learning outcomes:				
Brief outline of the c	ourse:			
Recommended litera	iture:			
Course language:				
Notes:	Notes:			
Course assessment Total number of assessed students: 50				
	abs	n		
	100.0	0.0		
Provides:				
Date of last modification:				
Approved: prof. RNI	Approved: prof. RNDr. Juraj Černák, CSc.			

University: P. J. Šafá	University: P. J. Šafárik University in Košice			
Faculty: Faculty of Science				
Course ID: ÚCHV/ VPSV/04	Course name: Supervision of a Students Scientific Work			
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present				
Number of credits: 6				
Recommended seme	ster/trimester of the cours	e: 6., 8.		
Course level: III.				
Prerequisities:				
Conditions for cours	e completion:			
Learning outcomes:				
Brief outline of the c	ourse:			
Recommended litera	iture:			
Course language:				
Notes:				
Course assessment Total number of assessed students: 48				
	abs	n		
	100.0	0.0		
Provides:				
Date of last modification:				
Approved: prof. RNI	Approved: prof. RNDr. Juraj Černák, CSc.			

University: P. J. Šafá	University: P. J. Šafárik University in Košice			
Faculty: Faculty of Science				
Course ID: ÚCHV/ VBP/04	Course name: Supervision	of Bachelor Thesis		
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present				
Number of credits: 6				
Recommended seme	ster/trimester of the cours	e: 6., 8.		
Course level: III.				
Prerequisities:				
Conditions for cours	e completion:			
Learning outcomes:				
Brief outline of the c	ourse:			
Recommended litera	iture:			
Course language:				
Notes:	Notes:			
Course assessment Total number of assessed students: 227				
	abs	n		
	100.0	0.0		
Provides:				
Date of last modification:				
Approved: prof. RNI	Approved: prof. RNDr. Juraj Černák, CSc.			

University: P. J. Šafárik University in Košice				
Faculty: Faculty of Science				
Course ID: ÚCHV/ DTA/13	Course name: Thermal and	d mechanical properties of inorganic compounds		
Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per week: 3 / 1 Per study period: 42 / 14 Course method: present				
Number of credits: 9	)			
Recommended seme	ster/trimester of the course	:		
Course level: III.				
Prerequisities:				
Conditions for cours	e completion:			
<b>Learning outcomes:</b> Goal of the course is of thermal analysis fo	<b>Learning outcomes:</b> Goal of the course is to provide the students with a knowledge of the basic principles and methods of thermal analysis for characterization of solid substances and study of their reactive mechanism.			
<b>Brief outline of the course:</b> The basic principles and methods of thermal analysis (TG/DTG, DTA, TMA, ETA, EGA etc.) for characterization of solid substances and study of their reactive mechanism and changes of their properties in dependence on temperature.				
Recommended literature: K. Györyová: Termická analýza, Edičné stredisko PF UPJŠ, Košice 1992 P.J.Haines: Thermal Methods of Analysis, Ef. Blackie, London 1995 F.Paulik: Special Trends in Thermal Analysis, John Wiley&Sons, New York 1995				
Course language:				
Notes:	Notes:			
Course assessment Total number of assessed students: 0				
	Ν	Р		
	0.0	0.0		
Provides: prof. RND	Provides: prof. RNDr. Katarína Györyová, DrSc.			
Date of last modification: 03.05.2015				
Approved: prof. RNI	Approved: prof. RNDr. Juraj Černák, CSc.			

University: P. J. Šafá	University: P. J. Šafárik University in Košice			
Faculty: Faculty of Science				
<b>Course ID:</b> ÚCHV/ PDS/14	rse ID: ÚCHV/ Course name: Writing Dissertation Work			
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present				
Number of credits: 1	5			
Recommended seme	ster/trimester of the cours	2:		
Course level: III.				
Prerequisities:				
Conditions for cours	e completion:			
Learning outcomes:				
Brief outline of the c	ourse:			
Recommended litera	iture:			
Course language:				
Notes:				
Course assessment Total number of assessed students: 10				
	abs	n		
	100.0	0.0		
Provides:				
Date of last modification:				
Approved: prof. RNI	Dr. Juraj Černák, CSc.	Approved: prof. RNDr. Juraj Černák, CSc.		