University: P. J.	Šafárik Univers	ity in Košice					
Faculty: Faculty of Science							
Course ID: KFal AFS/05	DF/ Course na	me: Antique Ph	ilosophy and Pre	sent Times			
Course type, sco Course type: Pr Recommended Per week: 2 Per Course method	ractice course-load (h r study period:	ours):					
Number of credits: 2							
Recommended s	emester/trimes	ster of the cours	e: 2.				
Course level: I.,	II						
Prerequisities:							
Conditions for c	ourse completi	on:					
Learning outcon	nes:						
Brief outline of t	he course:						
Recommended li	iterature:						
Course language	Course language:						
Notes:							
Course assessme Total number of a	-	ts: 30					
А	В	С	D	Е	FX		
83.33	6.67	6.67	0.0	3.33	0.0		
Provides: doc. Pl	hDr. Pavol Thol	t, PhD., mim.pro	f., Doc. PhDr. P	eter Nezník, CSc.			
Date of last mod	ification: 26.01	.2014					
Approved: prof.	RNDr. Juraj Če	rnák, CSc.					

	~	
University D	I Cofómile	University in Vation
University: P.	J. Salalik	University in Košice

Faculty: Faculty of Science

Course ID: ÚCHV/	Course name: Bioanalytical Chemistry
BACH1/03	

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

Per week: 2 / 1 Per study period: 28 / 14

Course method: present

Number of credits: 5

Recommended semester/trimester of the course: 1.

Course level: II.

Prerequisities:

Conditions for course completion:

Written test

Oral examination

Learning outcomes:

Theoretical knowledge and practical experience regarding application of analytical chemistry and analytical methods to laboratory medicine.

Brief outline of the course:

Introduction to Bioanalytical Chemistry, biological samples classification. Factors affecting analytes in biological samples. Collection, transport and storage of biological samples. Selected procedures of sample pretreatment Control and management of quality in clinical laboratory. Enzymes in bioanalysis. Mechanism of enzyme catalysis. Enzymes like analytes and analytical reagents. Moderators of enzyme activity. Introduction to Immunochemical methods, Precipitation and Aglutination methods. Immunodiffusional methods. Radioimmunoanalytic methods (RIA). Nonisotopic methods (EIA, ELISA, LIA, FIA). Investigative procedures in medical microbiology. Principles miniaturization of analytical procedures in clinical chemistry, microchips, nanochips, sensors and biosensors.

Recommended literature:

1. Mikkelsen, S. R., Cortón, E.: Bioanalytical Chemistry, Wiley, 2004.

Wilson, I.: Bioanalytical Separations 4, (Handbook of Analytical Separations), Elsevier, 2003.
 Suelter, C. H., Kricka, L. J.: Methods of Biochemical Analysis, Vol.37, Bioanalytical

Instrumentation, Wiley, 1994.

4. Rodriguez-Diaz, R., Wehr, T., Tuck, S.: Analytical Techniques for Biopharmaceutical Development, Marcell Dekker, 2005.

Course language:

Notes:

Course assessment Total number of assessed students: 69								
A B C D E								
27.54 37.68 21.74 11.59 1.45 0.0								
Provides: doc. RNDr. Katarína Reiffová, PhD.								
Date of last modification: 03.02.2014								
Approved: prof	f. RNDr. Juraj Če	rnák, CSc.						

		JUKSE INFORM			
University: P. J. Šafá	rik Univers	sity in Košice			
Faculty: Faculty of S	science				
Course ID: ÚCHV/ BCM/04	Course na	ame: Biochemistr	y of Microorga	nisms	
Course type, scope a Course type: Lectu Recommended cou Per week: 2 / 2 Per Course method: pro	re / Practice rse-load (h study peri	e ours):			
Number of credits:	6				
Recommended seme	ester/trime	ster of the course	2: 3.		
Course level: II.					
Prerequisities:					
Conditions for cours 2 tests test	se complet	ion:			
Learning outcomes: The aim of biochem microorganisms.		icroorgamism tea	aching is to ac	quire knowledge	in the field of
Brief outline of the of Structure and physic molecular biology a microbial diseases an	ology of mind genetics	; medical microb			
Recommended litera McCall D., Stock D. Willey, J.M., Sherwo McGraw-Hill Int. Ec Black J.G., Microbio	, Achrey P., ood L.M., W I., USA, 20	Voolverton C.J., P 08	rescott, Harley,	,	,
Course language:					
Notes:					
Course assessment Total number of asse	ssed studer	nts: 116			
A	В	C	D	E	FX
55.17	22.41	12.93	8.62	0.86	0.0
Provides: doc. RND	. Mária Ko	žurková, CSc.		<u>. </u>	
Date of last modific:	ation: 03.02	2.2014			
Approved: prof. RN	Dr. Juraj Če	ernák, CSc.			

University: P. J. Ša	árik Univers	ity in Košice				
Faculty: Faculty of	Science					
Course ID: ÚCHV/ BACM/14	Course na	me: Bioinorgan	ic Chemistry and	Toxicology		
Course type, scope Course type: Recommended co Per week: Per stu Course method: p	urse-load (h Idy period:					
Number of credits:	4					
Recommended sem	ester/trimes	ster of the cours	e:			
Course level: II.						
Prerequisities: ÚCHV/BAC3/04 and ÚCHV/BAC2/05 and ÚCHV/ZTOX/04 and ÚCHV/STOX/04						
Conditions for cou	rse completi	on:				
Learning outcomes	:					
Brief outline of the	course:					
Recommended lite	rature:					
Course language:						
Notes:						
Course assessment Total number of ass	essed studen	ts: 0				
А	В	С	D	Е	FX	
0.0	0.0	0.0	0.0	0.0	0.0	
Provides:					1	
Date of last modified	cation: 13.03	3.2014				
Approved: prof. RN	JDr. Juraj Če	ernák, CSc.				

	CO	URSE INFORM	MATION LET	ΓER	
University: P. J.	Šafárik Univers	ity in Košice			
Faculty: Faculty	of Science				
Course ID: ÚCI BAC1/04	HV/ Course na	me: Bioinorgan	ic Chemistry I		
Recommended	Lecture / Practice l course-load (h Per study perio	ours):			
Number of cred	lits: 5				
Recommended	semester/trimes	ter of the cours	se: 1.		
Course level: I.,	II.				
Prerequisities:					
Conditions for Test or seminar examination	-	on:			
	ledges about bio stals in biology a			ecules, biomateria , toxic metals for	
elements, esser Oxygen carriers processes. Calci bioinorganic ch	metalic elemen ntial trace elem and oxygen tra tum biominerals	ents). Biocoord nsport proteins. and biomineraliz nacy, chemother	lination compo Photochemical zation.Toxic me apy (e.g. plating	stems (biometals, unds, bioligands. process. Catalysis tals. Application c um complexes in anches of life.	Biocatalyzers. s and regulation of knowledge of
Atkins. Inorgan 2. Kaim W., Sch Life. Wiley, Chi	Atkins P. W., O ic Chemistry. Ox wederski B.: Bio chester 1998.	ford University binorganic Chen	Press, Oxford 20 nistry: Inorganic	M.T., Amstrong F 006. Elements in the C OCP, Oxford 199	Chemistry of
Course languag	ge:				
Notes:					
Course assessm Total number of	ent assessed studen	ts: 145			
А	В	С	D	E	FX
44.14	31.03	15.86	2.07	6.9	0.0
Provides: doc. H	RNDr. Zuzana Va	argová, Ph.D.			<u> </u>
				1	

Date of last modification: 03.02.2014

Approved: prof. RNDr. Juraj Černák, CSc.

		sity in Košice			
Faculty: Faculty	of Science				
Course ID: ÚCH BAC2/05	V/ Course n	ame: Bioinorgani	c Chemistry II		
Course type, scop Course type: Le Recommended Per week: 2 / 1 Course method	cture / Practic course-load (l Per study per	e hours):			
Number of credi	ts: 5				
Recommended se	emester/trime	ester of the course	: 2.		
Course level: II.					
Prerequisities: Ú	CHV/BAC1/0)4			
Conditions for co	ourse complet	tion:			
and their physico transition elemen Brief outline of t Goal of the cour and their physico	chemical prop ts (Zn, Fe, Co he course: se is to provid	de the students wi perties, biological e	fficiency of son	ne coordination c	ompounds with
u ansition elemen	ts (Zn, Fe, Co	, Mn, Cu).			ompounds with
Recommended li Kendrick J. M., M Horwood, New Y Kaim, W., Schwe Life, John Wiley	terature: May M. T., Plis York,1992. Inderski, B.: Bio and Sons, Chi	shka M. J., Robins Dinorganic Chemis			stems, Ellis
Recommended li Kendrick J. M., M Horwood, New Y Kaim, W., Schwe Life, John Wiley Course language	terature: May M. T., Plis York,1992. Inderski, B.: Bio and Sons, Chi	shka M. J., Robins Dinorganic Chemis			stems, Ellis
Recommended li Kendrick J. M., M Horwood, New Y Kaim, W., Schwe Life, John Wiley Course language	terature: May M. T., Plis York,1992. Inderski, B.: Bio and Sons, Chi	shka M. J., Robins Dinorganic Chemis			stems, Ellis
Recommended li Kendrick J. M., M Horwood, New Y Kaim, W., Schwe Life, John Wiley Course language Notes:	terature: May M. T., Plis York, 1992. Inderski, B.: Bio and Sons, Chi : nt	shka M. J., Robins Dinorganic Chemis chester 1994.			stems, Ellis
Recommended li Kendrick J. M., M Horwood, New Y Kaim, W., Schwe Life, John Wiley Course language Notes: Course assessme	terature: May M. T., Plis York, 1992. Inderski, B.: Bio and Sons, Chi : nt	shka M. J., Robins Dinorganic Chemis chester 1994.			stems, Ellis
Recommended li Kendrick J. M., M Horwood, New Y Kaim, W., Schwe Life, John Wiley Course language Notes: Course assessme Total number of a	terature: May M. T., Plis York, 1992. Iderski, B.: Bio and Sons, Chi : nt assessed stude	shka M. J., Robins pinorganic Chemis chester 1994. nts: 20	try: Inorganic E	lements in the Ch	stems, Ellis nemistry of
Recommended li Kendrick J. M., M Horwood, New Y Kaim, W., Schwe Life, John Wiley Course language Notes: Course assessme Total number of a A 75.0	terature: May M. T., Plis York, 1992. Iderski, B.: Bio and Sons, Chi : nt assessed stude B 5.0	shka M. J., Robins pinorganic Chemis chester 1994. nts: 20 C	try: Inorganic E	lements in the Ch	stems, Ellis nemistry of FX
Recommended li Kendrick J. M., M Horwood, New Y Kaim, W., Schwe Life, John Wiley Course language Notes: Course assessme Total number of a A 75.0	terature: May M. T., Plis York, 1992. Iderski, B.: Bio and Sons, Chi : nt assessed stude B 5.0 NDr. Katarína	shka M. J., Robins Dinorganic Chemis chester 1994. nts: 20 C 20.0 Györyová, DrSc.	try: Inorganic E	lements in the Ch	stems, Ellis nemistry of FX

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚCHV/	Course name: Bioinorganic Chemistry III
BAC3/04	

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

Per week: 2 / 1 **Per study period:** 28 / 14

Course method: present

Number of credits: 5

Recommended semester/trimester of the course: 3.

Course level: II.

Prerequisities: ÚCHV/BAC2/05

Conditions for course completion:

Test.

Learning outcomes:

To make the acquaintance of actual status and selected topics of the research in bioinorganic chemistry.

Brief outline of the course:

Singlet and triplet dioxygen and organisms. Oxygen atom transfer reactions. Dioxygen radical generating systems. Inorganic compounds as the analogues of the active sites of the metalloproteins. Construction of Small molecule enzyme mimics as drugs (SOD mimics). Metals in medical applications (the use of chelating agents, metal based chemotherapeutic drugs, metallodrugs as diagnostic agents, metals as biomaterials). Physical methods.

Recommended literature:

1. Kaim, W., Schwederski, B.: Bioinorganic Chemistry: Inorganic Elements in the Chemistry of Life, John Wiley and Sons, Chichester 1994.

2. Wilkins P.C., Wilkins R.G.: Inorganic Chemistry in Biology. Oxford Science Publications, Oxford 1997.

3. Kendrick M.J. a kol.: Metals in biological systems, Ellis Horwood Limited, Chichester, England, 1992

4. Helsen, J.A. Breme H.J.: Metals as biomaterials, Wiley, Chichester, England, 1998.

Course language:

Notes:

Course assessment

Total number of assessed students: 12

Date of last modification: 03.02.2014						
Provides: doc. RNDr. Zuzana Vargová, Ph.D.						
58.33	33.33	8.33	0.0	0.0	0.0	
А	В	C D	Е	FX		

Approved: prof. RNDr. Juraj Černák, CSc.

University: P.	J	Šafárik	University	in	Košice
0 111 / 01 510 / 0 1.	υ.	Suluin	Omiterbity		1100100

Faculty: Faculty of Science

Course ID: ÚCHV/	Course name: Bioorganic chemistry
BOC/03	

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

Per week: 3 Per study period: 42

Course method: present

Number of credits: 5

Recommended semester/trimester of the course: 1.

Course level: II.

Prerequisities:

Conditions for course completion:

Examinationn

Learning outcomes:

Explanation of fundamental principles for the construction of bioorganic molecular models of biochemical precesses using the tools of organic chemistry.

Brief outline of the course:

1. Introduction: Basic consideration, proximity effects in biochemistry, Molecular adaptation, Molecular recognition at the supramolecular level.

2. Bioorganic Chemistry of amino acids and polypeptides: Chemistry of the living cells, Analogy between organic reactions and biochemical tranformations, Chemistry of the peptide bond, Nonribosomal peptide formation, Asymmetric synthesis od amino acids, Asymmetric synthesis with chiral organometalic catalysts, Transition state analogs, Antibodies as enzymes, Chemical mutations, Molecular recognition and Drug design.

3. Bioorganic Chemistry of the Phosphate groups and polynucleotides: Energy storage, DNA intercalates, RNA molecules as catalysts.

4. Enzyme Chemistry: Introduction to catalysis and enzymes, Multifuntional catalysis and Simple models, alfa-Chymotrypsin, Other hydrolytic enzymes, Strereoelectronic control in hydrolytic reactions, Immobilized enzymes, Enzymes in synthetic organic chemistry, Enzyme-Analog-Built polymers, Design of molecular clefts.

5. Enzyme Models: Host-Guest complexation chemistry, New development in crown ether chemistry, Membrane chemistry and micelles, Polymers, Cyclodextrins, Enzyme design using steroid template, Remote functionalisation reactions, Polyene biomimetic cyclisations.

6. Metal Ions: Metal ions in proteins and biological molecules, Carbopeptidase A, Hydrolysis of amino acid esters and peptides, Iron and oxygen transport, Cooper ion, Cobalt and vitamin B12 action, Oxidoreduction, Pyridoxal phosphate, Biotin.

Recommended literature:

Voet J. : Biochemistry, Springer Verlag, 1998 Dugas H.: Bioorganic Chemistry, Springer Verlag, 1999.

Course language:

Notes:						
Course assessment Total number of assessed students: 123						
A B C D E H						
90.24	1.63	0.0				
Provides: prof. RNDr. Jozef Gonda, DrSc.						
Date of last mo	Date of last modification: 03.02.2014					
Approved: prof	f. RNDr. Juraj Če	rnák, CSc.				

University: P. J. Šafá	rik University in Košice	
Faculty: Faculty of S	cience	
Course ID: ÚCHV/ RP/14	Course name: Class Proje	ct
Course type, scope a Course type: Recommended cour Per week: Per stud	rse-load (hours): y period:	
Course method: pre		
Number of credits: 6		2
	ster/trimester of the cours	e: 2.
Course level: II.		
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: 51	
	abs	n
	100.0	0.0
Monika Tvrdoňová, P Mariana Budovská, P RNDr. Viktor Víglask	hD., RNDr. Martin Walko, hD., doc. RNDr. Erik Sedlál	RNDr. Miroslava Martinková, PhD., RNDr. PhD., RNDr. Ladislav Janovec, PhD., RNDr. k, PhD., prof. Ing. Marián Antalík, DrSc., doc. nášková, PhD., doc. RNDr. Mária Kožurková, roslav Bazeľ, DrSc.
Date of last modifica	tion: 05.02.2014	
Approved: prof. RNI	Dr. Juraj Černák, CSc.	

University: P. J. Ša	fárik Univers	ity in Košice	
Faculty: Faculty of	Science		
Course ID: KPPaPZ/KK/07	Course na	me: Communication and Coop	peration
Course type, scope Course type: Prac Recommended co Per week: 2 Per s Course method: p	tice urse-load (he tudy period:	ours):	
Number of credits:	: 2		
Recommended sen	nester/trimes	ter of the course: 3.	
Course level: II.			
Prerequisities:			
Conditions for cou	rse completi	on:	
Learning outcome	s:		
Brief outline of the	course:		
Recommended lite	rature:		
Course language:			
Notes:			
Course assessment Total number of ass		ts: 281	
abs		n	Z
98.22		1.78	0.0
Provides: Mgr. Onc	lrej Kalina, P	hD.	·
Date of last modifi	cation: 04.02	.2014	
Approved: prof. R	NDr. Juraj Če	rnák, CSc.	

			MATION LET	TER	
University: P. J. Š	safárik Univers	ity in Košice			
Faculty: Faculty	of Science				
Course ID: ÚCH VMS1/03	V/ Course na	ame: Computing	g Methods in X-I	Ray Structure Ana	alysis
Course type, scop Course type: Pra Recommended o Per week: 2 Per Course method:	actice course-load (h study period:	ours):			
Number of credit	ts: 2				
Recommended se	emester/trimes	ster of the cour	se: 2.		
Course level: II.					
Prerequisities: Ú	CHV/STA1/03	or ÚCHV/USA	x/03		
Conditions for co Semester project.	-	on:			
Learning outcom Crystal structure a		ple samples, tal	oular and graphic	al processing of the	he results.
since data process necessary files for SIR97 and SUPE structure (DIAMe lengths, angles an obtaining the nece Processing of res (MERCURY).	r the structure so CRFLIP), refine OND); drawin id hydrogen boi essary data for s	olution (Wingx) ement of the mo g of the structu nds (PARST); ta similar structure	; search for the m odel (SHELXL97 ural scheme (ISI abulation of the re- s from the Camb	odel of the structu (); graphical repression S DRAW); calcu esults of crystal structural D	re (SHELXS97 esentation of the lations of bond ructure analysis patabase System
Recommended line Manuals for the p					
Course language Slovak and Englis					
Notes:					
Course assessme Total number of a		its: 39			
A	В	С	D	E	FX
74.36	12.82	5.13	7.69	0.0	0.0
Provides: prof. R	NDr. Juraj Čeri	nák, CSc., doc.	RNDr. Ivan Poto	čňák, PhD.	
Date of last modi	fication: 03.02	2.2014			

University: P. J. S	Šafárik Univers	ity in Košice			
Faculty: Faculty	of Science				
Course ID: ÚCH KCH/14	V/ Course na	me: Coordinatio	on Chemistry		
Course type, sco Course type: Recommended Per week: Per s Course method	- course-load (h study period:				
Number of credi	ts: 4				
Recommended se	emester/trimes	ster of the cours	e:		
Course level: II.					
Prerequisities: Ú	CHV/KCH1/00) and ÚCHV/VE	S/03		
Conditions for co	ourse completi	on:			
Learning outcon	nes:				
Brief outline of t	he course:				
Recommended li	iterature:				
Course language	•				
Notes:					
Course assessme Total number of a	-	ts: 6			
A	В	С	D	Е	FX
66.67	16.67	16.67	0.0	0.0	0.0
Provides:				•	
Date of last mod	ification: 13.03	9.2014			
Approved: prof.	RNDr. Juraj Če	rnák, CSc.			

NIDSE INFORMATION I ETTED

	fárik Univers	sity in Košice			
Faculty: Faculty of	Science				
Course ID: ÚCHV/ KCH1/00	Course na	ame: Coordinatio	n Chemistry		
Course type, scope Course type: Lect Recommended co Per week: 2 / 1 Pe Course method: p	ure / Practice urse-load (h er study peri	e iours):			
Number of credits:	: 5				
Recommended sem	nester/trime	ster of the cours	e: 1.		
Course level: II.					
Prerequisities:					
Conditions for cou	rse completi	ion:			
properties of coord compounds. Brief outline of the Definition and nom numbers. Isomerism coordination compo	e course: nenclature of n, preparatio	coordination cor	npounds. Centra	l atom and ligand	ds, coordinatio
compounds. Brief outline of the Definition and nom numbers. Isomerism	e course: nenclature of n, preparatio punds. rature: ion Chemistr Keiter, R. L.	coordination cor on and stability o ry, Wiley-VCH, V . Keiter: Inorgani	npounds. Centra f coordination co Veinheim, 2008. c Chemistry, Haj	l atom and ligand ompounds, chem per Collins, New	ds, coordinatio iical bonding i
compounds. Brief outline of the Definition and nom numbers. Isomerist coordination compo Recommended lite J. Ribas: Coordinat J. C. Huheey, E. A. G. A. Lawrance: In	e course: nenclature of n, preparatio punds. rature: ion Chemistr Keiter, R. L.	coordination cor on and stability o ry, Wiley-VCH, V . Keiter: Inorgani	npounds. Centra f coordination co Veinheim, 2008. c Chemistry, Haj	l atom and ligand ompounds, chem per Collins, New	ds, coordinatio iical bonding i
compounds. Brief outline of the Definition and nom numbers. Isomerist coordination compo Recommended lite J. Ribas: Coordinat J. C. Huheey, E. A.	e course: nenclature of n, preparatio punds. rature: ion Chemistr Keiter, R. L.	coordination cor on and stability o ry, Wiley-VCH, V . Keiter: Inorgani	npounds. Centra f coordination co Veinheim, 2008. c Chemistry, Haj	l atom and ligand ompounds, chem per Collins, New	ds, coordinatio iical bonding i
compounds. Brief outline of the Definition and nom numbers. Isomerist coordination compo Recommended lite J. Ribas: Coordinat J. C. Huheey, E. A. G. A. Lawrance: In Course language: Notes:	course: nenclature of n, preparatio ounds. rature: ion Chemistr Keiter, R. L. troduction to	² coordination com on and stability o ry, Wiley-VCH, V . Keiter: Inorgani o Coordination Ch	npounds. Centra f coordination co Veinheim, 2008. c Chemistry, Haj	l atom and ligand ompounds, chem per Collins, New	ds, coordinatio iical bonding i
compounds. Brief outline of the Definition and nom numbers. Isomerist coordination compo Recommended lite J. Ribas: Coordinat J. C. Huheey, E. A. G. A. Lawrance: In Course language: Notes: Course assessment	course: nenclature of n, preparatio ounds. rature: ion Chemistr Keiter, R. L. troduction to	² coordination com on and stability o ry, Wiley-VCH, V . Keiter: Inorgani o Coordination Ch	npounds. Centra f coordination co Veinheim, 2008. c Chemistry, Haj	l atom and ligand ompounds, chem per Collins, New	ds, coordinatio iical bonding i
compounds. Brief outline of the Definition and nom numbers. Isomerist coordination compo Recommended lite J. Ribas: Coordinat J. C. Huheey, E. A. G. A. Lawrance: In Course language: Notes: Course assessment Total number of ass	course: nenclature of n, preparatio ounds. rature: ion Chemistr Keiter, R. L. troduction to	coordination cor on and stability o ry, Wiley-VCH, V Keiter: Inorgani Coordination Ch	npounds. Centra f coordination co Veinheim, 2008. c Chemistry, Haj iemistry, Wiley, 2	l atom and ligand ompounds, chem per Collins, New 2010.	ds, coordinatio lical bonding i York, 1993.
compounds. Brief outline of the Definition and nom numbers. Isomerist coordination compo Recommended lite J. Ribas: Coordinat J. C. Huheey, E. A. G. A. Lawrance: In Course language: Notes: Course assessment Total number of ass A 57.69	course: nenclature of n, preparatio ounds. rature: ion Chemistr Keiter, R. L. troduction to sessed studen B 14.1	coordination corr on and stability o ry, Wiley-VCH, V Keiter: Inorgani Coordination Ch nts: 78 C 10.26	npounds. Centra f coordination co Veinheim, 2008. c Chemistry, Haj emistry, Wiley, 2 D 8.97	l atom and ligand ompounds, chem per Collins, New 2010. E 8.97	ds, coordinatio lical bonding i York, 1993. FX
compounds. Brief outline of the Definition and nom numbers. Isomerist coordination compo Recommended lite J. Ribas: Coordinat J. C. Huheey, E. A. G. A. Lawrance: In Course language: Notes: Course assessment Total number of ass A	course: nenclature of n, preparatio ounds. rature: ion Chemistr Keiter, R. L. troduction to sessed studen B 14.1 Dr. Juraj Čer	C coordination con on and stability o ry, Wiley-VCH, V . Keiter: Inorgani o Coordination Ch ts: 78 C 10.26 mák, CSc., RNDr	npounds. Centra f coordination co Veinheim, 2008. c Chemistry, Haj emistry, Wiley, 2 D 8.97	l atom and ligand ompounds, chem per Collins, New 2010. E 8.97	ds, coordinatio lical bonding i York, 1993. FX

University: P. J. Ša	afárik Univers	ity in Košice			
Faculty: Faculty of	f Science				
Course ID: ÚCHV DPZ/14	Course na	me: Diploma Th	esis and its Defe	ence	
Course type, scop Course type: Recommended co Per week: Per st Course method:	ourse-load (h udy period:				
Number of credits	: 34				
Recommended ser	nester/trimes	ster of the cours	e:		
Course level: II.					
Prerequisities:					
Conditions for con	ırse completi	on:			
Learning outcome	es:				
Brief outline of th	e course:				
Recommended lite	erature:				
Course language:					
Notes:					
Course assessmen Total number of as		ts: 6			
A	В	С	D	Е	FX
83.33	0.0	16.67	0.0	0.0	0.0
Provides:					
Date of last modif	ication: 13.03	3.2014			
Approved: prof. R	NDr. Juraj Če	ernák, CSc.			

University: D. I. Šefá	rik University in Košice
Faculty: Faculty of S	
Course ID: ÚCHV/	Course name: Enzymology
ENZ/04	Course name. Enzymology
Course type, scope a	
Course type: Lectur Recommended cour	
Per week: 3 Per stu	
Course method: pre	esent
Number of credits: 5	
Recommended seme	ster/trimester of the course: 1., 3.
Course level: II.	
Prerequisities:	
Conditions for cours combination of writte	e completion: en and oral examination
	basic equations of enzyme kinetics. Ability to determine basic kinetic and neters of enzyme catalyzed reaction from experimental measurement.
 Enzyme catalysis - Cofactors. Active s 3D structure of prod Convergent and diver Ligand binding. Th Chemical kinetics. Regulations of enz Conformational ch Experimental detecatalysis. Determination of the use of binding end Reversible inhibit Irreversible inhibit Specificity and 	nical catalysis – theory of transition state. types and examples. site - lock and key, induced fit. Enzymes - classification. teins. Noncovalent interactions. Secondary, tertiary and quaternary structures. rgent evolution. Multienzyme complexes. Dyanmics of proteins. hermodynamics and konetics. Techniques. Basic equations of enzyme kinetics. yme activity - examples. ange, allosteric regulation. Regulation of metabolic pathways. rrmination of enzyme activity. pH and temperature dependence of enzyme individual rate constants. Stop flow. Enzyme-substrate complementarities and ergy in enzyme catalysis. ion. ition. control mechanisms. "Moonlighting" enzymes. Applications of enzymes talytic antibodies. Extremophiles. Directed selection of enzymes. Enzymatic
Protein Folding. " (3r	ture: re and Mechanism in Protein Science: A Guide to Enzyme Catalysis and rd Ed. W. H. Freeman and Company, 1999) Enzymes (2nd edition), Wiley-VCH, 2000.
Course language:	

Notes:						
Course assessment Total number of assessed students: 91						
A B C D E						
38.46	8.79	2.2				
Provides: doc. RNDr. Erik Sedlák, PhD.						
Date of last mo	dification: 03.02	2.2014				
Approved: prof	f. RNDr. Juraj Če	rnák, CSc.				

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University: P. J.		ity in Košice			
Faculty: Faculty	of Science				
Course ID: ÚCH EMDP/03	HV/ Course na	ame: Experiment	al Methods to M	aster's Thesis	
	ractice course-load (h r study period:	ours):			
Number of cred	its: 6				
Recommended	semester/trimes	ster of the cours	e: 3.		
Course level: II.				-	
Prerequisities:					
Conditions for a	course completi	on:			
Learning outco	mes:				
Brief outline of	the course:				
Recommended	literature:				
Course languag	e:				
Notes:					
Course assessm Total number of		ts: 225			
A	В	С	D	Е	FX
95.56	2.22	0.89	0.89	0.44	0.0
Provides: doc. R Imrich, CSc., doo Ing. Marián Anta prof. RNDr. Joze CSc., doc. RNDr Oriňáková, PhD. RNDr. Miroslava PhD., RNDr. Dar Turoňová, PhD., Hamuľaková, Ph Vasiľ Andruch, O Komanický, PhD	c. RNDr. Mária alík, DrSc., prof. of Gonda, DrSc., z Zuzana Vargov , doc. RNDr. Vil a Martinková, Pl niela Kladeková RNDr. Rastislav D., RNDr. Zuza CSc., RNDr. Nat D., RNDr. Andre	Kožurková, CSc. RNDr. Juraj Čen doc. RNDr. Taťa rá, Ph.D., doc. Rl ktor Víglaský, Ph nD., doc. RNDr. , CSc., RNDr. Dr v Varhač, PhD., F na Kudličková, F aša Tomášková, a Straková Fedor	rnák, CSc., prof. ána Gondová, CS NDr. Vladimír Ze nD., doc. RNDr. I Erik Sedlák, PhD ušan Koščík, CSc NDr. Danica Sa PhD., RNDr. Lívi PhD., RNDr. Ma	tarína Györyová RNDr. Andrej O c., doc. RNDr. M eleňák, PhD., doc Katarína Reiffov O., doc. RNDr. Iv c., RNDr. Andrea bolová, PhD., RM a Kocúrová, PhI	, DrSc., prof. riňák, PhD., Iária Reháková, c. RNDr. Renáta á, PhD., doc. an Potočňák, Morovská NDr. Slávka D., doc. Mgr.
Approved: prof.	KNDr. Juraj Ce	rnak, CSC.			

University: P. J. Šafárik University in Košice Faculty: Faculty of Science		
Course ID: ÚCHV/ Course name: Host-Guest and Supramolecula HGS/03	r Systems	
Course type, scope and the method: Course type: Lecture Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: present		
Number of credits: 4		
Recommended semester/trimester of the course: 1.		
Course level: II.		
Prerequisities:		
Conditions for course completion:		
Learning outcomes:		
Brief outline of the course: Clathate, inclusion compound, supramolecular systems. Water clat thiourea, Hofmann type clathates and its analogs, Werner-type clathat cryptates, possibilities of their practical use. From molecular to sup and importance of weak interactions in supramolecular chemistry, cr	es, calixarenes pramolecular c	s, crown-ethers, chemistry, types
Recommended literature: Beer P.D., Gale P.A., Smith D.K.: Supramolecular Chemistry, Oxford 2003.	d University P	Press, Oxford,
Course language:		
Notes:		
Course assessment Total number of assessed students: 30		
A B C D	Е	FX
73.33 20.0 6.67 0.0	0.0	0.0
Provides: prof. RNDr. Juraj Černák, CSc., RNDr. Miroslava Matikov	/á-Maľarová,	PhD.
Date of last modification: 03.02.2014		
Approved: prof. RNDr. Juraj Černák, CSc.		

University: P. J. Š	afárik Universi	ity in Košice					
Faculty: Faculty of	of Science						
Course ID: KFaD KDF/05	Course ID: KFaDF/Course name: Chapters from History of Philosophy of 19th and 20th Centuries (General Introduction)						
Course type, scop Course type: Pra Recommended o Per week: 2 Per Course method:	actice course-load (he study period:	ours):					
Number of credit	as: 2						
Recommended se	emester/trimes	ter of the cours	e: 2.				
Course level: I., I	I						
Prerequisities:							
Conditions for co	ourse completion	o n:					
Learning outcom	es:						
Brief outline of th	ne course:						
Recommended li	terature:						
Course languages	:						
Notes:							
Course assessmen Total number of a		ts: 10					
А	В	С	D	Е	FX		
50.0	50.0 20.0 10.0 0.0 10.0 10.0						
Provides: doc. Ph	Dr. Pavol Thol	t, PhD., mim.pro	f.				
Date of last modi	fication: 26.01	.2014		_			
Approved: prof. I	RNDr. Juraj Če	rnák, CSc.					

University: P. J. Š	afárik Univers	ity in Košice					
Faculty: Faculty of	of Science						
Course ID: ÚCH CHE2/03	Course ID: ÚCHV/ Course name: Chemical Excursion						
Course type, scop Course type: Pra Recommended o Per week: Per s Course method:	actice course-load (h tudy period: 1	ours):					
Number of credit	s: 4						
Recommended se	emester/trimes	ster of the cours	e: 2., 4.				
Course level: II.							
Prerequisities: Ú	CHV/ACHU/0	3 or ÚCHV/ACH	42/03				
Conditions for co	urse completi	on:					
Learning outcom	es:						
Brief outline of th	ne course:						
Recommended lit	terature:						
Course language:							
Notes:							
Course assessmen Total number of a		ts: 76					
A	В	С	D	Е	FX		
93.42 6.58 0.0 0.0 0.0 0.0							
Provides: doc. RN	VDr. Zuzana Va	argová, Ph.D.		1			
Date of last modi	fication: 03.02	2.2014					
Approved: prof. H	RNDr. Juraj Če	rnák, CSc.					

University: P. J. Š	afárik Universi	ity in Košice				
Faculty: Faculty of				-		
Course ID: ÚCHV/ Course name: Chemical management						
CMG/03			lunugement			
Course type, scop Course type: Lee Recommended o Per week: 3 Per Course method:	cture course-load (he study period:	ours):				
Number of credit	s: 5					
Recommended se	mester/trimes	ter of the cours	e: 1.			
Course level: II.						
Prerequisities:						
Conditions for co	urse completio	on:				
The main goal is the basic principal pharmaceutical in Brief outline of th Basic processes c Slovak chemical of	les of producti dustry. The course: connected to incompanies	ion management	t, marketing, str	ategy building i	n chemical and	
Recommended life Internal sources	cerature:					
Course language:						
Notes:						
Course assessmen Total number of a		ts: 170				
Α	В	С	D	Е	FX	
54.12	54.12 44.71 1.18 0.0 0.0 0.0					
Provides: RNDr. 1	Dušan Koščík,	CSc., RNDr. Pat	trik Čonka, PhD.			
Date of last modi	fication: 03.02	.2014				

University: P. J.	. Šafárik Univer	sity in Košice							
Faculty: Faculty	y of Science								
Course ID: ÚC TOX1/03	ÚCHV/ Course name: Chemical Toxicology								
Recommended	Lecture / Practic d course-load (l 1 Per study per	e hours):							
Number of cred	dits: 5								
Recommended	semester/trime	ester of the cours	e: 3.						
Course level: II									
Prerequisities:									
Conditions for	course complet	tion:							
	rse is to provide	e the students with emicals and biolog	-	f toxic substances	s and their toxic				
toxic responses) Food additives a safety practices European Union Recommended J. A. Timbrell: 1 V. E. Forbes, T.). Types of expo and contaminants with chemical n and order of G literature: Introduction to L. Forbes: Toxi	ution, excretion, r sure and response ts. Pesticides. Env substances, desig Government of Slo Toxicology, Taylo icology in Theory ds in Toxicology, J	Drugs as toxic a ironmental pollu gnation of subst vak Republic. r and Francis, La and Practice, Cl	substances. Indus itants. Natural pro ances in accorda ondon 1989 hapmane Hall, Lo	trial toxicology. oducts. Risk and nce of norm of ondon 1994				
Course languag		us in Toxicology, :							
Notes:									
Course assessm Total number of	nent f assessed stude:	nts: 27							
А	В	C							
	33.33 29.63 3.7 0.0 0.0								
33.33	33.33	29.63	3.7	0.0					
	,	29.63 Györyová, DrSc.		0.0					
	RNDr. Katarína	Györyová, DrSc.		0.0					

University: P. J. Šafár	ik University	v in Košice				
Faculty: Faculty of So	cience					
Course ID: R UPJŠ/ IB10/14	Course ID: R UPJŠ/ Course name: IB10 - Medzinárodný certifikát ECo-C B10/14					
Course type, scope an Course type: Recommended cour Per week: Per stud Course method: pre	se-load (hou y period:					
Number of credits: 1	6					
Recommended semes	ster/trimeste	r of the course:				
Course level: I., I.II.,	II.					
Prerequisities:						
Conditions for cours	e completion	:				
Learning outcomes:						
Brief outline of the co	ourse:					
Recommended litera	ture:					
Course language:						
Notes:						
Course assessment Total number of asses	sed students:	0				
abs	abs n neabs					
0.0 0.0 0.0						
Provides:	I					
Date of last modifica	tion: 11.08.2	014				
Approved: prof. RNE	r. Juraj Čern	ák, CSc.				

University: P. J. Šafárik	University in k	Košice				
Faculty: Faculty of Scie	ence					
Course ID: R UPJŠ/ C IB11/14	Course ID: R UPJŠ/ Course name: IB11 - Medzinárodný certifikát ECDL IB11/14					
Course type, scope and Course type: Recommended course Per week: Per study Course method: prese	e-load (hours): period:					
Number of credits: 14						
Recommended semeste	er/trimester of	the course:				
Course level: I., I.II., II						
Prerequisities:						
Conditions for course	completion:					
Learning outcomes:						
Brief outline of the cou	rse:					
Recommended literatu	re:					
Course language:						
Notes:						
Course assessment Total number of assesse	ed students: 0					
abs	abs n neabs					
0.0 0.0 0.0						
Provides:						
Date of last modification	on: 11.08.2014					
Approved: prof. RNDr.	Juraj Černák, C	CSc.				

University: P. J. Šafán	rik University in H	Košice			
Faculty: Faculty of S	cience				
Course ID: R UPJŠ/ IB12/14	Course name: II	B12 - Používanie, adm	inistrácia a vývoj v systéme SAP		
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	rse-load (hours): y period:				
Number of credits: 5	4				
Recommended seme	ster/trimester of	the course:			
Course level: I., I.II.,	II.				
Prerequisities:					
Conditions for cours	e completion:				
Learning outcomes:					
Brief outline of the c	ourse:				
Recommended litera	ture:				
Course language:					
Notes:					
Course assessment Total number of asses	ssed students: 0				
abs	abs n neabs				
0.0 0.0 0.0					
Provides:	•		•		
Date of last modifica	tion: 11.08.2014				
Approved: prof. RNI	Dr. Juraj Černák, O	CSc.			

University: P. J. Šafán	ik University ir	n Košice			
Faculty: Faculty of S	cience				
Course ID: R UPJŠ/ Course name: IB1 - Etika v biomedicínskych vedách pre zdravotnícku pra: B1/14					
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	se-load (hours) y period:				
Number of credits: 1					
Recommended seme	ster/trimester o	of the course:			
Course level: I., I.II.,	II.				
Prerequisities:					
Conditions for cours	e completion:				
Learning outcomes:					
Brief outline of the c	ourse:				
Recommended litera	ture:				
Course language:					
Notes:					
Course assessment Total number of asses	sed students: 0				
abs n neabs					
0.0 0.0 0.0					
Provides:	· · · ·				
Date of last modifica	tion: 11.08.201	4			
Approved: prof. RNI	Dr. Juraj Černák	, CSc.			

University: P. J. Šafárik Universit	ty in Košice				
Faculty: Faculty of Science					
Course ID: R UPJŠ/ Course nar IB2/14	ne: IB2 - Právne minimum -	- súkromnoprávne aspekty			
Course type, scope and the meth Course type: Recommended course-load (ho Per week: Per study period: Course method: present					
Number of credits: 16					
Recommended semester/trimest	er of the course:				
Course level: I., I.II., II.					
Prerequisities:					
Conditions for course completio	n:				
Learning outcomes:					
Brief outline of the course:					
Recommended literature:					
Course language:					
Notes:					
Course assessment Total number of assessed students	s: 0				
abs					
0.0 0.0 0.0					
Provides:		· · · · ·			
Date of last modification: 11.08.	2014				
Approved: prof. RNDr. Juraj Čer	nák, CSc.				

University: P. J. Šafárik Univers	ity in Košice				
Faculty: Faculty of Science					
Course ID: R UPJŠ/ Course name: IB3 - Právne minimum – verejnoprávne aspekty B3/14					
Course type, scope and the met Course type: Recommended course-load (h Per week: Per study period: Course method: present					
Number of credits: 16					
Recommended semester/trimes	ster of the course:				
Course level: I., I.II., II.					
Prerequisities:					
Conditions for course completi	on:				
Learning outcomes:					
Brief outline of the course:					
Recommended literature:					
Course language:					
Notes:					
Course assessment Total number of assessed studen	ts: 0				
abs	abs n neabs				
0.0 0.0 0.0					
Provides:					
Date of last modification: 11.08	3.2014				
Approved: prof. RNDr. Juraj Če	ernák, CSc.				

University: P. J. Šafárik Univ	versity in Košice			
Faculty: Faculty of Science				
Course ID: R UPJŠ/ Course IB4/14	e name: IB4 - Projektový manažn	nent		
Course type, scope and the Course type: Recommended course-load Per week: Per study perio Course method: present	l (hours):			
Number of credits: 20				
Recommended semester/tri	mester of the course:			
Course level: I., I.II., II.				
Prerequisities:				
Conditions for course comp	letion:			
Learning outcomes:				
Brief outline of the course:				
Recommended literature:				
Course language:				
Notes:				
Course assessment Total number of assessed stu	dents: 0			
abs n neabs				
0.0 0.0 0.0				
Provides:				
Date of last modification: 1	1.08.2014			
Approved: prof. RNDr. Jura	Černák, CSc.			

University: P. J. Šafár	ik University in	Košice		
Faculty: Faculty of So	cience			
Course ID: R UPJŠ/ IB5/14	Course name:]	IB5 - Manažérska ekonc	omika	
Course type, scope an Course type: Recommended cour Per week: Per study Course method: pre	se-load (hours) y period:	:		
Number of credits: 1	6			
Recommended semes	ster/trimester o	f the course:		
Course level: I., I.II.,	II.			
Prerequisities:				
Conditions for cours	e completion:			
Learning outcomes:				
Brief outline of the co	ourse:			
Recommended litera	ture:			
Course language:				
Notes:				
Course assessment Total number of asses	sed students: 0			
abs n neabs				
0.0 0.0 0.0				
Provides:	•			
Date of last modifica	tion: 11.08.2014	ŀ		
Approved: prof. RNE	r. Juraj Černák,	CSc.		

University: P. J. Šafá	rik University i	n Košice			
Faculty: Faculty of S	cience				
Course ID: R UPJŠ/ IB6/14	Course name: IB6 - Riešenie konfliktných a krízových situácií v školskej praxi				
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	se-load (hours y period:				
Number of credits: 1	6				
Recommended seme	ster/trimester	of the course:			
Course level: I., I.II.,	II.				
Prerequisities:					
Conditions for cours	e completion:				
Learning outcomes:					
Brief outline of the c	ourse:				
Recommended litera	ture:				
Course language:					
Notes:					
Course assessment Total number of asses	ssed students: 0				
abs		n	neabs		
0.0		0.0	0.0		
Provides:					
Date of last modifica	tion: 11.08.201	4			
Approved: prof. RNI	Dr. Juraj Černák	, CSc.			

University: P. J. Šafá	rik University in	Košice			
Faculty: Faculty of S	cience				
Course ID: R UPJŠ/ IB7/14	S/ Course name: IB7 - Štatistika pre prax				
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	rse-load (hours): y period:	:			
Number of credits: 1	6				
Recommended seme	ster/trimester of	f the course:			
Course level: I., I.II.,	II.				
Prerequisities:					
Conditions for cours	e completion:				
Learning outcomes:					
Brief outline of the c	ourse:				
Recommended litera	ture:				
Course language:					
Notes:					
Course assessment Total number of asses	ssed students: 0				
abs		n	neabs		
0.0		0.0	0.0		
Provides:	I		•		
Date of last modifica	tion: 11.08.2014				
Approved: prof. RNI	Dr. Juraj Černák,	CSc.	······································		

University: P. J. Šafárik	University in Košice	
Faculty: Faculty of Scie	nce	
Course ID: R UPJŠ/ Co IB8/14	ourse name: IB8 - Environmentálne	aspekty záťaže životného prostredia
Course type, scope and Course type: Recommended course Per week: Per study p Course method: presen	-load (hours): eriod:	
Number of credits: 16		
Recommended semeste	r/trimester of the course:	
Course level: I., I.II., II.		
Prerequisities:		
Conditions for course c	ompletion:	
Learning outcomes:		
Brief outline of the cou	rse:	
Recommended literatur	·e:	
Course language:		
Notes:		
Course assessment Total number of assessed	d students: 0	
abs	n	neabs
0.0	0.0	0.0
Provides:		
Date of last modificatio	n: 11.08.2014	
Approved: prof. RNDr.	Juraj Černák, CSc.	

University: P. J. Šafár	ik University	in Košice			
Faculty: Faculty of So	eience				
Course ID: R UPJŠ/ Course name: IB9 - Medzinárodný certifikát TOEFL IB9/14					
Course type, scope an Course type: Recommended cour Per week: Per study Course method: pres	se-load (hou y period:				
Number of credits: 1	7				
Recommended semes	ter/trimester	r of the course:			
Course level: I., I.II.,	II.				
Prerequisities:					
Conditions for course	e completion	:			
Learning outcomes:					
Brief outline of the co	ourse:				
Recommended litera	ture:				
Course language:					
Notes:					
Course assessment Total number of asses	sed students:	0			
abs		n	neabs		
0.0		0.0	0.0		
Provides:					
Date of last modificat	tion: 11.08.20)14			
Approved: prof. RND	r. Juraj Černá	ik, CSc.			

University: P. J. S	Šafárik Univers	ity in Košice			
Faculty: Faculty	of Science				
Course ID: KFaI IH2/03	DF/ Course na	me: Idea Humar	nitas 2 (General)	Introduction)	
Course type, sco Course type: Pr Recommended Per week: 2 Per Course method	actice course-load (h • study period:	ours):			
Number of credi	ts: 2				
Recommended se	emester/trimes	ter of the cours	e: 3.		
Course level: II.					
Prerequisities:					
Conditions for co	ourse completi	on:			
Learning outcom	nes:				
Brief outline of t	he course:				
Recommended li	terature:				
Course language	•				
Notes:					
Course assessme Total number of a		ts: 4			
A	В	С	D	Е	FX
75.0	25.0	0.0	0.0	0.0	0.0
Provides: Doc. P	hDr. Peter Nezr	ník, CSc.			
Date of last modi	ification: 26.01	.2014			
Approved: prof.	RNDr. Juraj Če	rnák, CSc.			

	Šafárik Univers	sity in Kosice					
Faculty: Faculty		5		-			
Course ID: ÚCH AKO/03	ÚCHV/ Course name: Inorganic Polymers, Clusters and Organometallics						
Course type, sco Course type: La Recommended Per week: 3 / 1 Course method	ecture / Practico course-load (h Per study peri	e 1ours):					
Number of credi	its: 6						
Recommended s	semester/trime	ster of the cours	e: 2., 4.				
Course level: II.							
Prerequisities:							
Conditions for c	ourse complet	ion:					
Learning outcon	nes:						
Brief outline of t	the course: assification of i	0 1 2	1 2		, U		
Brief outline of t Definition and cl glasses, BN, bora Boranes and hete cyanocomplexes Cluster compoun Organometallic c Recommended la Ray, N.H.: Inorg	the course: assification of i ate glasses. Qua eroboranes, pol nds, metal-meta compounds, bou iterature: anic Polymers,	artz and silicate g lyoxovanadium c ll bonding in clus ndings M-C, typs Academic Press,	plasses. Crystallin ompounds. Hete ters, intersticial a of ligands, preparent New York, 1978	ne silicates and a ro and isopolyan atoms. aratin and their pr	luminosilicate ions. Polymeri ropereties.		
Brief outline of t Definition and cl glasses, BN, bora Boranes and hete cyanocomplexes Cluster compoun Organometallic c Recommended la Ray, N.H.: Inorg Haiduc I., Zucke	the course: assification of i ate glasses. Qua eroboranes, pol nds, metal-meta compounds, bou iterature: anic Polymers, erman J.J.: Basic	artz and silicate g lyoxovanadium c ll bonding in clus ndings M-C, typs Academic Press,	plasses. Crystallin ompounds. Hete ters, intersticial a of ligands, preparent New York, 1978	ne silicates and a ro and isopolyan atoms. aratin and their pr	luminosilicate ions. Polymeri ropereties.		
Brief outline of t Definition and cl glasses, BN, bora Boranes and hete cyanocomplexes Cluster compoun Organometallic c Recommended la Ray, N.H.: Inorg Haiduc I., Zucke	the course: assification of i ate glasses. Qua eroboranes, pol nds, metal-meta compounds, bou iterature: anic Polymers, erman J.J.: Basic	artz and silicate g lyoxovanadium c ll bonding in clus ndings M-C, typs Academic Press,	plasses. Crystallin ompounds. Hete ters, intersticial a of ligands, preparent New York, 1978	ne silicates and a ro and isopolyan atoms. aratin and their pr	luminosilicate ions. Polymeri ropereties.		
Brief outline of t Definition and cl glasses, BN, bora Boranes and hete cyanocomplexes Cluster compoun Organometallic c Recommended la Ray, N.H.: Inorg Haiduc I., Zucke	the course: assification of i ate glasses. Qua eroboranes, pol nds, metal-meta compounds, bou iterature: anic Polymers, erman J.J.: Basic e:	artz and silicate g lyoxovanadium c l bonding in clus ndings M-C, typs Academic Press, c Organometallic	plasses. Crystallin ompounds. Hete ters, intersticial a of ligands, preparent New York, 1978	ne silicates and a ro and isopolyan atoms. aratin and their pr	luminosilicate ions. Polymeri ropereties.		
Brief outline of t Definition and cl glasses, BN, bora Boranes and hete cyanocomplexes Cluster compoun Organometallic c Recommended la Ray, N.H.: Inorg Haiduc I., Zucke Course language Notes: Course assessme	the course: assification of i ate glasses. Qua eroboranes, pol nds, metal-meta compounds, bou iterature: anic Polymers, erman J.J.: Basic e:	artz and silicate g lyoxovanadium c l bonding in clus ndings M-C, typs Academic Press, c Organometallic	plasses. Crystallin ompounds. Hete ters, intersticial a of ligands, preparent New York, 1978	ne silicates and a ro and isopolyan atoms. aratin and their pr	luminosilicate ions. Polymeri ropereties.		
Brief outline of t Definition and cl glasses, BN, bora Boranes and hete cyanocomplexes Cluster compoun Organometallic c Recommended la Ray, N.H.: Inorg Haiduc I., Zucke Course language Notes: Course assessme Total number of	the course: assification of i ate glasses. Qua eroboranes, pol	artz and silicate g lyoxovanadium c l bonding in clus ndings M-C, typs Academic Press, c Organometallic	glasses. Crystallin ompounds. Hete ters, intersticial a of ligands, prepa New York, 1978 Chemistry, W. d	ne silicates and a ro and isopolyan atoms. aratin and their pi 3. e Gruyter, Berlin	luminosilicate ions. Polymeri ropereties.		
Brief outline of t Definition and cl glasses, BN, bora Boranes and hete cyanocomplexes Cluster compoun Organometallic c Recommended la Ray, N.H.: Inorg Haiduc I., Zucke Course language Notes: Course assessme Total number of A 56.82	the course: assification of i ate glasses. Qua eroboranes, pol	artz and silicate g lyoxovanadium c l bonding in clus ndings M-C, typs Academic Press, c Organometallic nts: 44 C 13.64	plasses. Crystallin ompounds. Hete ters, intersticial <i>a</i> of ligands, prepa New York, 1978 Chemistry, W. d D 6.82	e Gruyter, Berlin E 2.27	Iuminosilicates ions. Polymeri ropereties. I, N.Y. 1985. FX 0.0		
Brief outline of t Definition and cl glasses, BN, bora Boranes and hete cyanocomplexes Cluster compoun Organometallic c Recommended la Ray, N.H.: Inorg Haiduc I., Zucke Course language Notes: Course assessme Total number of A	the course: assification of i ate glasses. Qui eroboranes, pol	artz and silicate g lyoxovanadium c l bonding in clus ndings M-C, typs Academic Press, c Organometallic nts: 44 C 13.64 tiková-Maľarová	plasses. Crystallin ompounds. Hete ters, intersticial <i>a</i> of ligands, prepa New York, 1978 Chemistry, W. d D 6.82	e Gruyter, Berlin E 2.27	Iuminosilicates ions. Polymeri ropereties. I, N.Y. 1985. FX 0.0		

University: P. J	. Šafárik Univers	ity in Košice			
Faculty: Facult	y of Science				
Course ID: ÚC MAG/03	HV/ Course na	me: Magnetoch	emistry		
Course type: I Recommended	ope and the met Lecture / Practice d course-load (h l Per study perio d: present	ours):			
Number of crea	lits: 5				
Recommended	semester/trimes	ster of the cours	se: 3.		
Course level: II	•				
Prerequisities:					
Conditions for exam	course completi	on:			
methods used in and EPR, since of material espe Brief outline of Bohr model of field. Specific I the paramagnet	the analysis of the study of mag ecially at low tem the course: atom. Hydrogen heat, susceptibility ts. Atom in the	thermodynamic netic properties peratures. atom. Paramag ty, magnetizatio crystal field. Sp	data (specific he yield an importan netic and diama n and electron p pin Hamiltonian	ents will learn th eat, susceptibility nt information ab gnetic atoms. At aramagnetic resc . Thermodynami raction. Heisenbe	, magnetization) out the structure out in magnetic onance (EPR) in ics and EPR of
Magnetic dimen		l short- range or	der. Low-dimens	ional magnets. Sp	-
metal compoun	literature: A.J. Duyneveldt: ds. New York, in Inorganic electro	c. Springer Verla	ag, 1977.		
Course languag	ge:				
Notes: Course assessm	tent f assessed studen	ts: 22			
Notes: Course assessm		ts: 22 C	D	E	FX
Notes: Course assessm Total number of	f assessed studen		D 18.18	E 0.0	FX 0.0
Notes: Course assessm Total number of A 45.45	f assessed studen B	C 9.09	18.18		

			MATION LET		
University: P. J. S	Šafárik Univers	ity in Košice			
Faculty: Faculty	of Science				
Course ID: ÚCH FMCH/04	V/ Course na	me: Medicinal	chemistry		
Course type, sco Course type: Le Recommended Per week: 3 / 1 Course method	ecture / Practice course-load (he Per study perio	ours):			
Number of credi	ts: 6				
Recommended s	emester/trimes	ter of the cours	e: 1.		
Course level: II.					
Prerequisities:					
Conditions for c Two tests at semi	-				
the present state or antitumor drug Brief outline of t Introduction, class generation, drug	in the field of s gs. he course: ssification of dr chirality, search oheral and veg	ugs, factors infl for new drugs, s etative nervous	uencing design tructure-activity system, antiba	and activity. Gainin and activity of dr relationships, cho acterial, antitumo	rugs of the third
Recommended li 1. Medicinal Che Chemistry, Thom	iterature: emistry: Principl nas Graham Hou Drug Discovery	les and Practice, use, Cambridge, Techniques: Har	King F. D., Ed., 1994. vey A. L., Ed., V	, The Royal Socie Wiley & Sons, Ch & Sons, 2000.	2
Course language Slovak	:				
Notes:					
Course assessme Total number of a		ts: 91			
А	В	С	D	Е	FX
64.84	17.58	12.09	3.3	1.1	1.1
Provides: RNDr.	Mariana Budov	vská, PhD., RNI	Dr. Zuzana Kudli	čková, PhD.	
Date of last mod	ification: 03.02	.2014			

	CO	OURSE INFORM	1ATION LET [*] 1	ER			
University: P. J. Š	Safárik Univers	ity in Košice					
Faculty: Faculty	of Science						
Course ID: ÚCH MAR1/04							
Course type, scop Course type: Le Recommended Per week: 1 / 1 Course method:	cture / Practice course-load (h Per study peri	ours):					
Number of credit	ts: 3						
Recommended se	emester/trimes	ster of the course	e: 2.				
Course level: II.							
Prerequisities:							
Conditions for co two written tests	ourse completi	on:					
Learning outcom Basic knowledge technological pro	s about inorgai	nic reaction mech	anisms and its	application, main	ly in some new		
Brief outline of the Introduction of in reactants. Classific compounds, inter- application. Elect Homogeneous an and biocoordination	organic reactic ication of reac calates. Mecha rochromism, e d heterogeneou	tion mechanism. nism of photoche lectrochromic ma us catalysis mech	Kinetic of reac mical reactions, iterials and its a	photochromical r photochromical r	nism. Inclusion reactions and its voltaic systems.		
Recommended li 1. Housecroft C.E 2005. 2. Shriver D. F., A Inorganic Chemis 3. Tobe M.L.: Ino vol.9.Butterworth	E., Sharpe A.G. Atkins P. W., O stry. Oxford Ur organic Chemis	verton T. L., Rou iversity Press, O: try-Reaction Mec	rke J.P., Weller	M.T., Armstrong			
Course language	•						
Notes:							
Course assessme Total number of a		ts: 33					
Α	В	С	D	E	FX		
57.58	15.15	9.09	15.15	3.03	0.0		
Provides: doc. RN	NDr. Mária Rel	náková, CSc., doc	e. RNDr. Zuzana	u Vargová, Ph.D.			
Date of last modi							

University: P. J. Šafa	árik University in Koš	ce			
Faculty: Faculty of S	Science				
Course ID: ÚTVŠ/ NJ//13Course name: Naval Yachting					
Course type, scope a Course type: Practi Recommended cou Per week: 36 Per s Course method: pr	ice irse-load (hours): tudy period: 504				
Number of credits:	2				
Recommended sem	ester/trimester of the	course:			
Course level: I., II.					
Prerequisities:					
Conditions for cour	se completion:				
Learning outcomes:					
Brief outline of the	course:				
Recommended liter	ature:				
Course language:					
Notes:					
Course assessment Total number of asse	essed students: 2				
	abs		n		
	100.0	0	0.0		
Provides: doc. Mgr.	Rastislav Feč, PhD.	•			
Date of last modific	ation: 15.01.2014				
Approved: prof. RN	Dr. Juraj Černák, CSc				

University: P. J. Š	Šafárik Univers	sity in Košice			
Faculty: Faculty	of Science				
Course ID: ÚCH NCH/03	V/ Course na	ame: Neurochem	istry		
Course type, sco Course type: Le Recommended Per week: 2 / 1 1 Course method:	cture / Practice course-load (h Per study peri	e iours):			
Number of credit	ts: 5				
Recommended se	emester/trime	ster of the cours	e: 2.		
Course level: II.					
Prerequisities:					
Conditions for co Seminar report or discussion. Termi	n the selected s	ubjects of neuroc	hemistry and its	oral presentation	connected with
Learning outcom Explanation of th		principles of the	chemical transm	ission between n	erve cells.
Brief outline of the Neurocellular and bilayer, membrar cellular signaling (glutamate, aspar G-proteins, the se	atomy, charact ne proteins. M g. Neurotransr tate, GABA, g	embrane transpo nitters - acetylch lycine). Neuroper	rt and ion chan noline, catechola otides - neuropep	nels. Synaptic tra amines, serotonia otide functions an	ansmission and n, amino acids
Recommended li S. T. Brady, G. S. molecular, cellula ISBN: 978-0-12-2	Siegel, R. W. ar, and medicin			5 1	
Course language	:				
Notes:					
Course assessme Total number of a		nts: 105			
A	В	C	D	E	FX
57.14	20.95	13.33	7.62	0.95	0.0
Provides: doc. RI	NDr. Miroslava	a Martinková, PhI	D.	-	3
Date of last modi	ification: 03.02	2.2014			

	CC	OURSE INFORM	VIATION LETT	EK		
University: P. J.	Šafárik Univers	ity in Košice				
Faculty: Faculty	of Science					
Course ID: ÚCH JCH1/04	ID: ÚCHV/ Course name: Nuclear Chemistry 4 4					
Course type, sco Course type: L Recommended Per week: 2 / 1 Course method	ecture / Practice course-load (h Per study peri	e ours):				
Number of cred	its: 4					
Recommended s	semester/trimes	ster of the cours	e:			
Course level: I.,	II.					
Prerequisities:						
Conditions for c test examination	course completi	on:				
The course is to	ics of radioactiv provide the stud	rity and nuclear red dents with a know give the survey of	wledge of prepara			
Radioactivity an life period. Unit registration of ra	f nuclear chemi ad radioactive di s of radioactivit adiation. Nuclea , activation analy	istry. Elementary sintegration kine ty. Nuclear reaction ar chemical technological e	ons. Radioactive ons. Sources of the nology. Radioact	disintegration. I nuclear radiation ive analytical mo	Decay law. Half a. Detection and ethods. Isotopic	
G. R. Choppin, J Woburn, USA, E W. D. Ehmann, J York, 1991.	J. Rydberg: Nuc J. O. Liljenzin, J Butterworth-Hei D. E. Vance: Ra	lear Chemistry, T I. Rydberg: Radio nemann, 2002. diochemistry and nistry, Elsevier, 1	ochemistry and N	uclear Chemistry	y, 3rd edition,	
Course languag	e:					
Notes:						
Course assessme Total number of		.ts: 21				
А	В	С	D	Е	FX	
28.57	28.57	19.05	14.29	9.52	0.0	
L		I	I	l	l	

Provides: RNDr. Andrea Morovská Turoňová, PhD., RNDr. František Kaľavský

Date of last modification: 03.02.2014

University: P. J. Šafá	rik University in Košice				
Faculty: Faculty of S	cience		_		
Course ID: ÚCHV/ Course name: Odborná prax OP/14					
Course type, scope a Course type: Practi Recommended cou Per week: Per stud Course method: pro	ce rse-load (hours): ly period: 2t				
Number of credits: 2	2				
Recommended seme	ster/trimester of the cours	se: 1., 3.			
Course level: II.					
Prerequisities:					
Conditions for cours	se completion:				
Learning outcomes:					
Brief outline of the o	course:				
Recommended litera	ature:				
Course language:					
Notes:					
Course assessment Total number of asse	ssed students: 3				
	abs	n			
	100.0	0.0			
Provides: doc. RND	. Zuzana Vargová, Ph.D.				
Date of last modifica	ation: 06.03.2014				
Approved: prof. RN	Dr. Juraj Černák, CSc.		_		

University: P. J. S	Šafárik Univers	ity in Košice					
Faculty: Faculty	of Science						
Course ID: Dek. UPJŠ/PPZ/13	Course ID: Dek. PF Course name: Personality Development and Key Competences for Success on a Labour Market						
Course type, sco Course type: Pr Recommended Per week: Per Course method	actice course-load (h study period: 1	ours):					
Number of credi	ts: 2						
Recommended s	emester/trimes	ter of the cours	se: 1., 3.				
Course level: II.							
Prerequisities:							
Conditions for co	ourse completi	on:					
Learning outcon	nes:						
Brief outline of t	he course:						
Recommended li	terature:						
Course language	•						
Notes:				c			
Course assessme Total number of a	-	ts: 39					
A	В	С	D	Е	FX		
100.0	0.0	0.0	0.0	0.0	0.0		
Provides: RNDr.	Peter Stefányi,	PhD.		·			
Date of last mod	ification: 17.02	.2014					
Approved: prof.	RNDr. Juraj Če	rnák, CSc.					

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of S	Science		
Course ID: ÚCHV/ FAK1a/07	Course name: Pharmaco	ology I	
Course type, scope a Course type: Lectu Recommended cou Per week: 2 / 2 Per Course method: pr	re / Practice rse-load (hours): study period: 28 / 28		
Number of credits:	4		
Recommended seme	ester/trimester of the cou	rse: 1.	
Course level: II.			
Prerequisities: ÚCH	V/FMCH/04		
Conditions for cours	se completion:		
Learning outcomes:			
Brief outline of the o	course:		
Recommended liter	ature:		
Course language:			
Notes:			•
Course assessment Total number of asse	essed students: 12		
	abs	n	
	100.0	0.0	
Provides: prof. MVI	Dr. Ján Mojžiš, DrSc.		-
Date of last modific:	ation: 03.02.2014		-
Approved: prof. RN	Dr. Juraj Černák, CSc.		

University: P. J. Ša	fárik Univers	ity in Košice			
Faculty: Faculty of	Science				
Course ID: ÚCHV/ FAK1b/07	Course na	me: Pharmacolo	gy II		
Course type, scope Course type: Lect Recommended co Per week: 2 / 2 Pe Course method: p	ure / Practice urse-load (h r study perio	ours):			
Number of credits:	6				
Recommended sem	ester/trimes	ster of the course	e: 4.		
Course level: II.					
Prerequisities: ÚC	HV/FAK1a/0	7			
Conditions for cou	rse completi	on:			
Learning outcomes	5:				
Brief outline of the	course:				
Recommended lite	rature:				
Course language:					
Notes:					
Course assessment Total number of ass		ts: 9			
А	В	С	D	Е	FX
0.0	11.11	33.33	11.11	44.44	0.0
Provides: prof. MV	Dr. Ján Mojž	tiš, DrSc.		·	
Date of last modifie	cation: 03.02	2.2014			
Approved: prof. RN	NDr. Juraj Če	rnák, CSc.			

University: P. J. Šafa	arik University i	n Košice				
Faculty: Faculty of S	Science					
Course ID: ÚCHV/ ADP/03	Course name:	: Porous mate	erials and the	eir application	ns	
Course type, scope a Course type: Lectu Recommended cou Per week: 2 / 1 Per Course method: pr	re / Practice rse-load (hours study period: 1	5):				
Number of credits:	5					
Recommended sem	ester/trimester	of the cours	e: 2.			
Course level: I., II.,	III.					
Prerequisities:						
Conditions for cour Written test in the m	-	d of the seme	ester.			
investigation. To ger area and pore size of Brief outline of the Terminology and p Methodology of ads area and porosity. In advanced materials)	different types course: principal terms proption at the ga norganic materia	of porous ma associated s-solid interf ils (active ca	aterials. with powde ace, liquid-so rbon, metal	rs, porous olid interface oxides, zeoli	solids and Assessmentes, clay m	adsorption nt of surface inerals, new
Recommended liter 1. F. Rouquerol, J. R press, London, UK, 2. S. J. Gregg, K.S.V UK, 1982.	ouquerol, K. Sii 1999 V. Sing: Adsorpt	tion, surface		-		ademic
3. V. Zeleňák: Adsor		ity of solid si	ubstances, in	ternal study t	text, PF UP.	
Course language:		ity of solid si	ubstances, in	ternal study t	text, PF UP.	
			ubstances, in	ternal study t	text, PF UP.	
Course language: Notes: Course assessment			ubstances, in	ternal study t	N	
Course language: Notes: Course assessment Total number of asse	essed students: 4	9		-		JŠ, 2007.
Course language:Notes:Course assessmentTotal number of assesAB	essed students: 4	9 D 0.0	E	FX	N	JŠ, 2007.
Course language:Notes:Course assessmentTotal number of assesAB81.6310.2	essed students: 4 C 4.08 r. Vladimír Zele	9 D 0.0 ňák, PhD.	E	FX	N	JŠ, 2007.

	CU	UKSE INFORM	MATION LETT	EK	
University: P. J.	Šafárik Univers	ity in Košice			
Faculty: Faculty	of Science				
Course ID: ÚCI KOC1/01	HV/ Course na	me: Quantum C	hemistry		
Recommended	Lecture / Practice l course-load (h Per study perio	ours):			
Number of cred	lits: 5				
Recommended	semester/trimes	ster of the cours	e: 1.		
Course level: II.					
Prerequisities:					
resp. during the	practice will be e term of the cour	valuated. Two w se.	ritten tests will be pal test. Continuo		
theory (MO) an	tensify their know	rform basic quai	ield of valence-b ntum chemical ca is, etc.).		
approximations the framework hypersurfaces of	of valence-bon in molecular of of molecular of of molecules. R	rbital valence-b bital valence-bo Reaction coordir	ne-independent ond theory. Var nd theory. Chem nate. Calculation e. Solvatation ene	iant methods of ical reactivity. F of the absolut	E calculation in Potential energy
 Leach A. R.: Náray-Szabó 	roduction to Con Molecular Mode	elling, Addison V Ángyán J. G.: A	nistry, Wiley,200 Vesley Longman .pplied Quantum		
Course languag slovak language	e: and english lang	guage			
Notes:					
Course assessm Total number of	ent	ts: 23			
А	В	С	D	Е	FX
78.26	17.39	4.35	0.0	0.0	1

Provides: RNDr. Ladislav Janovec, PhD.

Date of last modification: 03.02.2014

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of S	cience		
Course ID: ÚTVŠ/ ÚTVŠ/CM/13	Course name: Seaside Aer	obic Exercise	
Course type, scope a Course type: Practi Recommended cou Per week: 36 Per st Course method: pre	ce rse-load (hours): cudy period: 504		
Number of credits: 2	2		
Recommended seme	ster/trimester of the cours	e:	
Course level: I., II.			
Prerequisities:			
Conditions for cours	se completion:		
Learning outcomes:			
Brief outline of the o	course:		
Recommended litera	ature:		
Course language:			
Notes:			
Course assessment Total number of asse	ssed students: 7		
	abs	n	
	57.14	42.86	
Provides: Mgr. Alena	a Buková, PhD., Mgr. Agata	Horbacz, PhD.	
Date of last modifica	ation: 15.01.2014		
Approved: prof. RN	Dr. Juraj Černák, CSc.		

University: P. J. Š	Safárik Univers	ity in Košice			
Faculty: Faculty of	of Science			_	
Course ID: ÚCH VKA/04	V/ Course na	me: Selected To	pics in Inorgani	c Chemistry	
Course type, scop Course type: Le Recommended o Per week: 2 / 1 I Course method:	cture / Practice course-load (h Per study perio	ours):			
Number of credit	ts: 5				
Recommended se	emester/trimes	ter of the cours	e: 3.		
Course level: II.					
Prerequisities:					
Conditions for co	ourse completi	on:			
Learning outcom To make the acqu		ual status of resea	arch in inorgani	c chemistry.	
Biological and p ligands. Pentacoordinated Structure, spectra Hydrothermal syr Materials on the b	Copper(II) cor l and thermal p nthesis in inorg	npounds: a trigor roperties of cyan anic chemistry.	nal bipyramid or oargentates.	a tetragonal pyra	amid?
Recommended lin 1. Greenwood, N. 1993 2. J. E. Huheey, E Reactivity (4th Ec	.N., Earnshaw, E.A. Keiter, R.I	. Keiter: Inorgan	ic Chemistry: P	rinciples of Struct	
Course language	:				
Notes:					
Course assessme Total number of a	-	ts: 197			
A	В	С	D	E	FX
41.62	27.41	17.77	8.12	5.08	0.0
Provides: prof. Rl Vladimír Zeleňák, doc. RNDr. Jozef	, PhD., doc. RN	Dr. Zuzana Varg	ová, Ph.D., doc	. RNDr. Ivan Poto	očňák, PhD.,
Date of last modi	fication: 03.02	.2014			

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Science	
Course ID: ÚCHV/ Course name: Semestra SP1/14	al Project I
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 semester/trimester of the con	ırse: 1.
Course level: II.	
Prerequisities:	
Conditions for course completion:	
Learning outcomes:	
Brief outline of the course:	
Recommended literature:	
Course language:	
Notes:	
Course assessment Total number of assessed students: 44	
abs	n
100.0	0.0
Mariana Budovská, PhD., doc. Mgr. Vasil' And RNDr. Mária Kožurková, CSc., prof. Ing. Mar	o, PhD., RNDr. Ladislav Janovec, PhD., RNDr. Iruch, CSc., doc. RNDr. Erik Sedlák, PhD., doc. ián Antalík, DrSc., doc. RNDr. Viktor Víglaský, Rastislav Varhač, PhD., RNDr. Danica Sabolová,
Date of last modification: 05.02.2014	
Approved: prof. RNDr. Juraj Černák, CSc.	

University: P. J.	Šafárik Univers	ity in Košice			
Faculty: Faculty	of Science				
Course ID: ÚCH NPC1a/00	V/ Course na	ame: Seminar fro	m Advanced Inc	organic Chemistr	У
Course type, sco Course type: Pr Recommended Per week: 1 Per Course method	actice course-load (h r study period:	ours):			
Number of credi	ts: 1				
Recommended s	emester/trime	ster of the cours	e: 1.		
Course level: II.					
Prerequisities:					
Conditions for c	ourse completi	on:			
Learning outcom To make the acqu		ual status of rese	arch in inorganic	e chemistry.	
Brief outline of t Selected topics f publications. Ela	rom inorganic			ly of the scientif	ic literature and
Recommended I Actual scientific chemistry. Shriver D.F. Shri	papers and liter	-		-	-
Course language	2:				
Notes:					
Course assessme Total number of		ts: 37			
A	В	С	D	Е	FX
67.57	24.32	8.11	0.0	0.0	0.0
Provides: prof. R Mária Reháková,			· 1		
Date of last mod	ification: 03.02	2.2014			
Approved: prof.	RNDr. Juraj Če	ernák, CSc.			

	I. Šafárik Univers	ity in Kosice			
Faculty: Facult	y of Science				
Course ID: ÚC NPC2/02	CHV/ Course na	me: Seminar from	n Advanced In	organic Chemistr	у
Course type: Recommende	d course-load (h er study period:	ours):			
Number of cre	dits: 1				
Recommended	semester/trimes	ter of the course	: 2.		
Course level: I	Ι.				
Prerequisities:					
Conditions for	course completi	on:			
Learning outco To make the ac	omes: equaintance of act	ual status of resea	rch in inorgani	c chemistry.	
				dy of the scientif	ic literature and
chemistry.	ic papers and liter	-		arch topics in inor University Press,	-
Course langua	ge:				
Course langua Notes:	ge:				
Notes: Course assessm		ts: 42			
Notes: Course assessm	nent	ts: 42 C	D	E	FX
Notes: Course assessm Total number of	nent		D 0.0	E 0.0	FX 0.0
Notes: Course assessm Total number of A 80.95 Provides: prof. Mária Rehákov	nent f assessed studen B 11.9 RNDr. Katarína	C 7.14 Györyová, DrSc.,	0.0 prof. RNDr. Ju		0.0 doc. RNDr.
Notes: Course assessm Total number of A 80.95 Provides: prof. Mária Rehákov doc. RNDr. Iva	nent of assessed studen B 11.9 RNDr. Katarína (á, CSc., doc. RNI	C 7.14 Györyová, DrSc., Dr. Zuzana Vargov	0.0 prof. RNDr. Ju	0.0 Iraj Černák, CSc.,	0.0 doc. RNDr.

	. Šafárik Univers	sity in Košice			
Faculty: Facult	y of Science			-	
Course ID: ÚC SDP/03	CHV/ Course na	ame: Seminar to	Diploma Thesis		
Course type: Recommende	d course-load (h er study period:	ours):			
Number of cre	dits: 2				
Recommended	semester/trime	ster of the cours	e: 4.		
Course level: I	I.				
Prerequisities:					
Consultations,	course complet discussions and p student's work d		r by supervisor.		
Learning outco					
		esentation of his on and formal req			
participate in so Brief outline of	cientific discussion f the course: f literature inform		uirements of wri	tten diploma wo	rk.
participate in so Brief outline of Presentation of writing of scier Recommended	cientific discussion f the course: f literature inform ntific text.	on and formal req	uirements of wri	tten diploma wo	rk.
participate in so Brief outline of Presentation of writing of scier Recommended	cientific discussion f the course: f literature informatific text. literature: me field of diplom	on and formal req	uirements of wri	tten diploma wo	rk.
participate in so Brief outline of Presentation of writing of scier Recommended According to th	cientific discussion f the course: f literature informatific text. literature: me field of diplom	on and formal req	uirements of wri	tten diploma wo	rk.
participate in so Brief outline of Presentation of writing of scier Recommended According to th Course langua Notes: Course assessm	cientific discussion f the course: f literature informatific text. literature: me field of diplom ge:	on and formal req	uirements of wri	tten diploma wo	rk.
participate in so Brief outline of Presentation of writing of scier Recommended According to th Course langua Notes: Course assessm	cientific discussion f the course: f literature informatific text. I literature: me field of diplom ge: ment	on and formal req	uirements of wri	tten diploma wo	rk.
participate in so Brief outline of Presentation of writing of scier Recommended According to th Course langua Notes: Course assessm Total number on A 95.11	cientific discussion f the course: f literature informatific text. literature: ne field of diplomation ge: nent f assessed studen B 2.72	na work.	uirements of wri experimental re D 0.54	tten diploma wo sults, scientific E 0.0	rk. discussions an FX 0.54
participate in so Brief outline of Presentation of writing of scier Recommended According to th Course langua Notes: Course assesses Total number o A 95.11 Provides: RND RNDr. Andrej O CSc., doc. RND Oriňáková, PhD Andrea Morovs PhD., RNDr. Ra	cientific discussion f the course: f literature informatific text. literature: he field of diplom ge: nent f assessed studen B 2.72 Dr. Andrea Strako Driňák, PhD., pro Dr. Mária Reháko D., doc. RNDr. Ka	na work. na work. nts: 184 C 1.09 vá Fedorková, Ph of. Dr. Yaroslav Ba vá, CSc., doc. RN atarína Reiffová, I D., RNDr. Lívia H hD.	D 0.54 D D.54 D., doc. RNDr. I azel', DrSc., doc. NDr. Zuzana Varg PhD., doc. Mgr.	tten diploma wo sults, scientific E 0.0 Mária Kožurkova RNDr. Taťána (gová, Ph.D., doc. Vasiľ Andruch, (rk. discussions an FX 0.54 á, CSc., prof. Gondová, . RNDr. Renáta CSc., RNDr.

University: P. J. Šafá	rik University	in Košice	
Faculty: Faculty of S	cience		
Course ID: KPPaPZ/SPVKE/07	Course nam Situations	e: Social-Psychological Tr	aining of Coping with Critical Life
Course type, scope a Course type: Practic Recommended cour Per week: 2 Per stu Course method: pre	e se-load (hou dy period: 2	ırs):	
Number of credits: 2			
Recommended seme	ster/trimeste	er of the course: 2.	
Course level: II.			
Prerequisities:			
Conditions for cours	e completion	1:	
Learning outcomes:			
Brief outline of the c	ourse:		
Recommended litera	ture:		
Course language:			
Notes:			
Course assessment Total number of asses	sed students:	: 101	
abs		n	Z
97.03		2.97	0.0
Provides:	I		
Date of last modifica	tion: 04.02.2	.014	
Approved: prof. RNI	Dr. Juraj Čern	ák, CSc.	

Faculty: Facult					
•	y of Science				
Course ID: ÚC CTF1/00	HV/ Course n	ame: Solid State	Chemistry		
Recommende	Lecture / Practic d course-load (H l Per study per	e nours):			
Number of crea	lits: 5				
Recommended	semester/trime	ster of the cours	se: 1., 3.		
Course level: II	•				
Prerequisities:					
Conditions for	course complet	ion:			
Learning outco	mes:				
Historical deve General fundan	lopment of solid nentals and imposed	ortant properties	and its signific of solids: ideal a	ance for technolo and real crystals,	
surface oxidation defects on the mathematical defects on t	reactivity of soli	een solids, chem ds. Generation o	ical dissolution.	The influence of r ious methods of t nperature decomp	non-equilibrium reatment: rapio
surface oxidation defects on the re- quenching, dop Recommended 1. West A. R.: F	on, reaction betw reactivity of soli ing, irradiation, literature: Basic Solid State	een solids, chem ds. Generation o	ical dissolution. f of defects by variation and low ter iley, Chichester,	The influence of r ious methods of t nperature decomp 1999.	non-equilibrium reatment: rapio
surface oxidation defects on the re- quenching, dop Recommended 1. West A. R.: H 2. Tkáčová, K.:	on, reaction betw reactivity of soli ing, irradiation, literature: Basic Solid State Mechanical Act	een solids, chem ds. Generation o mechanical activ Chemistry, J. W	ical dissolution. f of defects by variation and low ter iley, Chichester,	The influence of r ious methods of t nperature decomp 1999.	non-equilibrium reatment: rapio
surface oxidation defects on the re- quenching, dop Recommended 1. West A. R.: H 2. Tkáčová, K.: Course languag	on, reaction betw reactivity of soli ing, irradiation, literature: Basic Solid State Mechanical Act	een solids, chem ds. Generation o mechanical activ Chemistry, J. W	ical dissolution. f of defects by variation and low ter iley, Chichester,	The influence of r ious methods of t nperature decomp 1999.	non-equilibrium reatment: rapio
surface oxidation defects on the in quenching, dop Recommended 1. West A. R.: H 2. Tkáčová, K.: Course languag Notes: Course assessm	on, reaction betw reactivity of soli ing, irradiation, literature: Basic Solid State Mechanical Act ge:	een solids, chem ds. Generation of mechanical activ Chemistry, J. W tivation of Miner	ical dissolution. f of defects by variation and low ter iley, Chichester,	The influence of r ious methods of t nperature decomp 1999.	non-equilibrium reatment: rapio
surface oxidation defects on the in quenching, dop Recommended 1. West A. R.: H 2. Tkáčová, K.: Course languag Notes: Course assessm	on, reaction betw reactivity of soli ing, irradiation, literature: Basic Solid State Mechanical Act ge:	een solids, chem ds. Generation of mechanical activ Chemistry, J. W tivation of Miner	ical dissolution. f of defects by variation and low ter iley, Chichester,	The influence of r ious methods of t nperature decomp 1999.	non-equilibrium reatment: rapio
surface oxidation defects on the re- quenching, dop Recommended 1. West A. R.: H 2. Tkáčová, K.: Course languag Notes: Course assessm Total number of	on, reaction betw reactivity of soli ing, irradiation, literature: Basic Solid State Mechanical Act ge: nent f assessed studer	een solids, chem ds. Generation of mechanical activ Chemistry, J. W tivation of Miner	ical dissolution. ⁷ of defects by variation and low ter iley, Chichester, als. Elsevier, Am	The influence of r lous methods of t nperature decomp 1999. Isterdam, 1989.	non-equilibrium reatment: rapid position.
surface oxidation defects on the in quenching, dop Recommended 1. West A. R.: H 2. Tkáčová, K.: Course languag Notes: Course assessm Total number of A 51.02	on, reaction betw reactivity of soli ing, irradiation, literature: Basic Solid State Mechanical Act ge: nent f assessed studer B 26.53	een solids, chem ds. Generation of mechanical activ Chemistry, J. W tivation of Miner nts: 49 C 18.37	ical dissolution. ⁷ of defects by variation and low ter iley, Chichester, als. Elsevier, Am	The influence of r ious methods of t nperature decomp 1999. Isterdam, 1989.	FX
surface oxidation defects on the re- quenching, dop Recommended 1. West A. R.: H 2. Tkáčová, K.: Course languag Notes: Course assessm Total number of A	on, reaction betw reactivity of soli ing, irradiation, literature: Basic Solid State Mechanical Act ge: nent f assessed studer B 26.53 r. Martin Vavra,	een solids, chem ds. Generation of mechanical activ Chemistry, J. W tivation of Miner nts: 49 C 18.37 PhD.	ical dissolution. ⁷ of defects by variation and low ter iley, Chichester, als. Elsevier, Am	The influence of r ious methods of t nperature decomp 1999. Isterdam, 1989.	FX

University: P. J. Šafá	rik Univers	ity in Košice			
Faculty: Faculty of S	cience				
Course ID: ÚTVŠ/ TVa/11	Course na	me: Sports Activities I.			
Course type, scope a Course type: Practic Recommended cour Per week: 2 Per stu Course method: pre	ce rse-load (h dy period:	ours):			
Number of credits: 2	2				
Recommended seme	ster/trimes	ster of the course: 1.			
Course level: I., I.II.,	II.				
Prerequisities:					
Conditions for cours	e completi	on:			
Learning outcomes:					
Brief outline of the c	ourse:				
Recommended litera	iture:				
Course language:			-		
Notes:					
Course assessment Total number of asse	ssed studen	ts: 7160			
abs		n	neabs		
88.42	88.42 7.82 3.76				
Ivan Matúš, PhD., Mg	gr. Zuzana l	o, doc. PhDr. Ivan Šulc, CSc., doc. Küchelová, Mgr. Peter Bakalár, Ph PhD., Mgr. Agata Horbacz, PhD.,	nD., doc. PaedDr. Ivan Uher,		
Date of last modifica	tion: 15.01	.2014			
Annroved • prof RNI	Dr. Juroj Čo	mál CSa			

University: P. J. Šafá	rik Univers	ity in Košice			
Faculty: Faculty of S	cience				
Course ID: ÚTVŠ/ TVb/11	1				
Course type, scope a Course type: Practic Recommended cour Per week: 2 Per stu Course method: pre	ce rse-load (h dy period:	ours):			
Number of credits: 2	2				
Recommended seme	ster/trimes	ster of the course: 2.			
Course level: I., I.II.,	II.				
Prerequisities:					
Conditions for cours	e completi	on:			
Learning outcomes:					
Brief outline of the c	ourse:				
Recommended litera	iture:				
Course language:					
Notes:					
Course assessment Total number of asse	ssed studen	ts: 6364			
abs		n	neabs		
84.95	84.95 11.06 3.99				
Ivan Matúš, PhD., Mg	gr. Zuzana l	o, doc. Mgr. Rastislav Feč, PhD., c Küchelová, doc. PaedDr. Ivan Uhe PhD., Mgr. Agata Horbacz, PhD.,	er, PhD., Mgr. Peter Bakalár,		
Date of last modifica	tion: 15.01	.2014			
Approvad: prof RNI	Jr. Iurai Ča	mál CSa			

University: P. J. Šafá	rik Universi	ty in Košice			
Faculty: Faculty of S	cience				
Course ID: ÚTVŠ/ TVc/11	The second				
Course type, scope a Course type: Practic Recommended cou Per week: 2 Per stu Course method: pre	ce rse-load (ho idy period: 1	ours):			
Number of credits: 2	2				
Recommended seme	ester/trimest	ter of the course: 3.			
Course level: I., I.II.,	II.				
Prerequisities:					
Conditions for cours	se completio	on:			
Learning outcomes:					
Brief outline of the c	ourse:				
Recommended litera	ature:				
Course language:					
Notes:					
Course assessment Total number of asse	ssed student	s: 4191			
abs		n	neabs		
89.91		4.72	5.37		
Mgr. Ivan Matúš, PhI	D., Mgr. Zuz	, doc. Mgr. Rastislav Feč, PhD., ana Küchelová, doc. PaedDr. Ivá ár, PhD., Mgr. Agata Horbacz, P			
Date of last modifica	tion: 15.01.	2014			

University: P. J. Šafá	rik Univers	ity in Košice			
Faculty: Faculty of S	cience				
Course ID: ÚTVŠ/ TVd/11	Course na	me: Sports Activities IV.			
Course type, scope a Course type: Practic Recommended cour Per week: 2 Per stu Course method: pre	ce rse-load (h dy period:	ours):			
Number of credits: 2	2				
Recommended seme	ster/trimes	ster of the course: 4.			
Course level: I., I.II.,	II.				
Prerequisities:					
Conditions for cours	e completi	on:			
Learning outcomes:					
Brief outline of the c	ourse:				
Recommended litera	iture:				
Course language:					
Notes:					
Course assessment Total number of asse	ssed studen	ts: 3363			
abs		n	neabs		
86.14	86.14 6.78 7.08				
Ivan Matúš, PhD., Mg	gr. Zuzana l	o, doc. Mgr. Rastislav Feč, PhD., c Küchelová, PaedDr. Milena Švedc hD., Mgr. Agata Horbacz, PhD., N	ová, PhD., Mgr. Peter Bakalár,		
Date of last modifica	tion: 15.01	.2014			
Annuavad. prof DNI		1 69			

	Safarik Univers	sity in Košice					
Faculty: Faculty	of Science			_			
Course ID: ÚCH SAZ1/03							
Course type, sco Course type: Pr Recommended Per week: 3 Per Course method	ractice course-load (h r study period	nours):					
Number of credi	its: 4						
Recommended s	semester/trime	ster of the course	e: 1., 3.				
Course level: II.							
Prerequisities:							
Conditions for c	ourse complet	ion:					
T • ·							
Learning outcom Brief outline of t	the course:						
Brief outline of t Symmetry, elem Principles of st semiregular poly system.	the course: nents of symme tereochemistry, rhedra. Valence	etry, point groups VSEPR, config shells with 4–12 e	uration of mol	ecules, polyhedr	a, regular a		
Brief outline of t Symmetry, elem Principles of st semiregular poly system. Recommended I Kepert, D. L.: In	the course: lents of symme tereochemistry, rhedra. Valence literature: lorganic Stereoc	VSEPR, config	uration of mol electron pairs, ge	ecules, polyhedr ometry of molecu	a, regular a		
Brief outline of t Symmetry, elem Principles of st semiregular poly system. Recommended I Kepert, D. L.: In	the course: lents of symme tereochemistry, rhedra. Valence literature: lorganic Stereoc Symmetry and	VSEPR, config shells with 4–12 e	uration of mol electron pairs, ge	ecules, polyhedr ometry of molecu	a, regular a		
Brief outline of t Symmetry, elem Principles of st semiregular poly system. Recommended I Kepert, D. L.: In Kettle, S. F. A.: S	the course: lents of symme tereochemistry, rhedra. Valence literature: lorganic Stereoc Symmetry and	VSEPR, config shells with 4–12 e	uration of mol electron pairs, ge	ecules, polyhedr ometry of molecu	a, regular a		
Brief outline of t Symmetry, elem Principles of st semiregular poly system. Recommended I Kepert, D. L.: In Kettle, S. F. A.: S Course language Notes:	the course: lents of symme tereochemistry, whedra. Valence literature: lorganic Stereoc Symmetry and Stereoc ent	VSEPR, config shells with 4–12 e chemistry. Springe Structure. John W	uration of mol electron pairs, ge	ecules, polyhedr ometry of molecu	a, regular a		
Brief outline of t Symmetry, elem Principles of st semiregular poly system. Recommended I Kepert, D. L.: In Kettle, S. F. A.: S Course language Notes: Course assessme	the course: lents of symme tereochemistry, whedra. Valence literature: lorganic Stereoc Symmetry and Stereoc ent	VSEPR, config shells with 4–12 e chemistry. Springe Structure. John W	uration of mol electron pairs, ge	ecules, polyhedr ometry of molecu	a, regular a		
Brief outline of t Symmetry, elem Principles of st semiregular poly system. Recommended I Kepert, D. L.: In Kettle, S. F. A.: S Course language Notes: Course assessme Total number of	the course: lents of symme tereochemistry, rhedra. Valence literature: lorganic Stereoc Symmetry and S e: ent assessed studer	VSEPR, config shells with 4–12 e chemistry. Springe Structure. John W	uration of mol electron pairs, ge er-Verlag, Berlin filey & Sons, Ne	ecules, polyhedr ometry of molecu a, 1982. w York, 1985.	a, regular and period		
Brief outline of the Symmetry, elem Principles of states semiregular poly system. Recommended I Kepert, D. L.: In Kettle, S. F. A.: Secons and a second sec	the course: lents of symme tereochemistry, whedra. Valence literature: lorganic Stereoc Symmetry and S e: ent assessed studer B 21.95	VSEPR, config shells with 4–12 e chemistry. Springe Structure. John W nts: 41 C 17.07	uration of mol electron pairs, ge er-Verlag, Berlin filey & Sons, Ne	E	a, regular an les and period		
Brief outline of t Symmetry, elem Principles of st semiregular poly system. Recommended I Kepert, D. L.: In Kettle, S. F. A.: S Course language Notes: Course assessme Total number of A	the course: lents of symme tereochemistry, rhedra. Valence literature: lorganic Stereoc Symmetry and S e: ent assessed studer B 21.95 .NDr. Vladimír	VSEPR, config shells with 4–12 e chemistry. Springe Structure. John W nts: 41 C 17.07 Zeleňák, PhD.	uration of mol electron pairs, ge er-Verlag, Berlin filey & Sons, Ne	E	a, regular an les and period		

University: P.	J. Šafárik	University in Košice
Chiver Sity • 1.	J. Dululik	

Faculty: Faculty of Science

Course ID: ÚCHV/	Course name: Structure Analysis
STA1/03	

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: 6

Recommended semester/trimester of the course: 1.

Course level: II.

Prerequisities:

Conditions for course completion:

2 written tests.

30%

The final examination is in a written form. The final mark is based on the results from current and final tests.

Learning outcomes:

Students get an overview about the symmetry at the micro- and macrostructure level and about diffraction methods used for the crystal structure determination and they will learn how to use the results of the crystal structure analysis in their own 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 a chemist.

Recommended literature:

Massa, W.: Crystal structure determination, 2nd edition. Springer 2004.

Clegg, W. et al.: Crystal structure analysis. Principles and practice. Oxford University Press 2009. Hahn, T.: International tables for crystallography, Vol. A. Kluwer Academic Publishers 2002. 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.

Course language:

Slovak and English

Notes:

Course assessment Total number of assessed students: 89						
А	A B C D E FX					
29.21	21 15.73 25.84 20.22 8.99 0.0					
Provides: doc. 1	Provides: doc. RNDr. Ivan Potočňák, PhD.					
Date of last modification: 03.02.2014						
Approved: prof	. RNDr. Juraj Če	rnák, CSc.				

University: P. J.	Šafárik Univers	ity in Košice				
Faculty: Faculty	of Science					
Course ID: ÚCH SVK1/00	Course ID: ÚCHV/ Course name: Students Scientific Conference (Presentation) SVK1/00					
Course type, sco Course type: Recommended Per week: Per Course method	course-load (he study period:					
Number of credi	its: 4					
Recommended s	emester/trimes	ter of the cours	e: 2., 4.			
Course level: II.						
Prerequisities:						
Conditions for c	ourse completi	on:				
Learning outcom	nes:					
Brief outline of t	the course:					
Recommended l	iterature:					
Course language	2:					
Notes:						
Course assessme Total number of		ts: 142				
А	В	С	D	Е	FX	
100.0	100.0 0.0 0.0 0.0 0.0					
Provides:					1	
Date of last mod	ification: 03.02	.2014				
Approved: prof.	RNDr. Juraj Če	rnák, CSc.				

University: P. J. Šafá	nrik University in Košice				
Faculty: Faculty of S	Science				
Course ID: ÚTVŠ/ LKSp//13					
Course type, scope a Course type: Practi Recommended cou Per week: 36 Per s Course method: pr	ce rse-load (hours): tudy period: 504				
Number of credits:	2				
Recommended seme	ester/trimester of the cou	'se:			
Course level: I., II.					
Prerequisities:					
Conditions for cour	se completion:				
Learning outcomes:					
Brief outline of the	course:				
Recommended liter	ature:				
Course language:					
Notes:					
Course assessment Total number of asse	essed students: 63				
	abs n				
41.27 58.73					
Provides: Mgr. Peter	Bakalár, PhD.				
Date of last modific:	ation: 15.01.2014				
Approved: prof. RN	Dr. Juraj Černák, CSc.				

University: P. J.	. Šafárik Univers	ity in Košice					
Faculty: Faculty	y of Science						
Course ID: ÚC SMCH/03	Course ID: ÚCHV/ Course name: Supramolecular chemistry						
Course type: I Recommended	ope and the met Lecture / Practice I course-load (h I Per study period: present	ours):					
Number of crea	lits: 4						
Recommended	semester/trimes	ster of the cours	e: 1., 3.				
Course level: II	-						
Prerequisities:							
Presentation of Final written ex	am.	on:					
Learning outco	mes:						
Brief outline of	the course:						
2. J.W.Steed and	outs can be found d J.L.Atwood, Su		emistry, Wiley :	w.php?id=385 Chichester, 2000 Chichester, 1991.			
Course languag	ge:						
Notes:							
Course assessm Total number of	ent f assessed studen	ts: 57					
А	В	С	D	E	FX		
66.67	19.3	10.53	1.75	1.75	0.0		
Provides: RND	r. Martin Walko,	PhD.					
Date of last mo	dification: 03.02	2.2014					
Approved: prof	. RNDr. Juraj Če	rnák, CSc.					

University: P. J. Šafá	nrik University in Košice	,			
Faculty: Faculty of S	Science				
Course ID: ÚTVŠ/ KP/12					
Course type, scope a Course type: Practi Recommended cou Per week: 36 Per s Course method: pr	ce rse-load (hours): tudy period: 504				
Number of credits:	2				
Recommended seme	ester/trimester of the co	ourse:			
Course level: I., II.					
Prerequisities:					
Conditions for cour	se completion:				
Learning outcomes:					
Brief outline of the	course:				
Recommended liter	ature:				
Course language:					
Notes:					
Course assessment Total number of asse	essed students: 185				
	abs n				
41.62 58.38					
Provides: Mgr. Mare	k Valanský				
Date of last modific	ation: 15.01.2014				
Approved: prof. RN	Dr. Juraj Černák, CSc.				

University: P. J. Ša	afárik Univers	ity in Košice			
Faculty: Faculty o	f Science				
Course ID: KPPaPZ/UPR/03	Course na	Course name: The Art of Aiding by Verbal Exchange			
Course type, scop Course type: Pra Recommended c Per week: 2 Per Course method:	ctice ourse-load (h study period:	ours):			
Number of credits	s: 2				
Recommended set	mester/trimes	ter of the cours	e: 4.		
Course level: II.					
Prerequisities:					
Conditions for co	urse completi	on:			
Learning outcome	es:			-	
Brief outline of th	e course:				
Recommended lit	erature:				
Course language:					
Notes:				-	
Course assessmen Total number of as	-	ts: 47			
A	В	С	D	Е	FX
87.23	4.26	2.13	2.13	0.0	4.26
Provides: Mgr. Or	ndrej Kalina, P	hD.		1	
Date of last modif	fication: 04.02	.2014			
Approved: prof. R	NDr. Juraj Če	rnák, CSc.			

Faculty: Facult					
	y of Science				
Course ID: ÚC TA1/03	HV/ Course r	name: Thermal An	nalysis		
Recommende	Lecture / Practic d course-load (l Per study per	ce hours):			
Number of crea	lits: 5				
Recommended	semester/trim	ester of the cours	e: 2.		
Course level: II	•				
Prerequisities:					
Conditions for	course comple	tion:			
techniques, the compounds and Brief outline of Introduction, ex	use of thermo reaction kineti the course: xperimental the	rmoanalytical tech	for characteriz	ation of inorgan	vsis, differentia
reflectance spec	ctroscopy). The	use of thermoanal	ytic methods for		
reflectance spec organic compou Recommended Wendlandt, W. Schultze, D.: D	troscopy). The ands, materials a literature: W.: Thermal M ifferentialtherm		ytic methods for al substances. Re s, 2. vydanie, Ne eutsch Verlag Wi	action kinetics. w York, 1985. ssenschaften, Ber	of inorganic and
reflectance spec organic compou Recommended Wendlandt, W. Schultze, D.: D Heide, K.: Dyn Leipzig, 1979. Course languag	etroscopy). The ands, materials a literature: W.: Thermal M ifferentialtherm amische thermis	use of thermoanal and pharmaceutica ethods of Analysis oanalyse, VEB Do	ytic methods for al substances. Re s, 2. vydanie, Ne eutsch Verlag Wi	action kinetics. w York, 1985. ssenschaften, Ber	of inorganic and
reflectance spec organic compou Recommended Wendlandt, W. Schultze, D.: D Heide, K.: Dyn Leipzig, 1979. Course languag Notes:	etroscopy). The ands, materials a literature: W.: Thermal M ifferentialtherm amische thermis ge:	use of thermoanal and pharmaceutica ethods of Analysis oanalyse, VEB Do	ytic methods for al substances. Re s, 2. vydanie, Ne eutsch Verlag Wi	action kinetics. w York, 1985. ssenschaften, Ber	of inorganic and
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University: P. J. Ša	fárik Univers	ity in Košice			
Faculty: Faculty of	Science				
Course ID: ÚCHV VES/03	Se ID: ÚCHV/ Course name: Vibrational and electronic spectroscopy				
Course type, scope Course type: Lec Recommended co Per week: 2 / 1 Po Course method: 1	ture / Practice ourse-load (h er study perio	ours):			
Number of credits	: 5				
Recommended ser	nester/trimes	ster of the cours	e: 2.		
Course level: II.					
Prerequisities:					
Conditions for cou	rse completi	on:			
Learning outcome	s:				
Brief outline of the	e course:				
Recommended lite	rature:				
Course language:					
Notes:					
Course assessment Total number of as		ts: 49			
A	В	С	D	Е	FX
65.31	16.33	10.2	2.04	6.12	0.0
Provides: RNDr. Ju	ıraj Kuchár, F	PhD.	<u> </u>		1
Date of last modifi	cation: 03.02	2.2014			
Approved: prof. R	NDr. Juraj Če	rnák, CSc.			

University: P. J. Šafá	nrik University in Košice		
Faculty: Faculty of S	Science		
Course ID: ÚTVŠ/ ZKLS//13	Course name: Winter Ski	Training Course	
Course type, scope a Course type: Practi Recommended cou Per week: 36 Per s Course method: pr	ce rse-load (hours): tudy period: 504		
Number of credits:	2		
Recommended seme	ester/trimester of the cours	e:	
Course level: I., II.			
Prerequisities:			
Conditions for cour	se completion:		
Learning outcomes:			
Brief outline of the	course:		
Recommended liter	ature:		
Course language:			
Notes:			
Course assessment Total number of asse	essed students: 59		
abs n			
25.42 74.58			
Provides: PaedDr. In	nrich Staško, doc. PhDr. Ivar	ı Šulc, CSc.	
Date of last modific	ation: 15.01.2014		
Approved: prof. RN	Dr. Juraj Černák, CSc.		

University: P. J. Ša	fárik University in Košice		
Faculty: Faculty of	Science		
Course ID: D PrávF/ZP2/11			
	ure / Practice urse-load (hours): r study period: 28 / 14		
Number of credits:	: 4		
Recommended sen	nester/trimester of the cours	e:	
Course level: II.			
Prerequisities:			
Conditions for cou	rse completion:		
Learning outcomes	5:		
Brief outline of the	course:		
Recommended lite	rature:		
Course language:			
Notes:			
Course assessment Total number of ass			
abs n			
97.89 2.11			
Provides:			
Date of last modified	cation: 14.01.2014		
Approved: prof. RN	NDr. Juraj Černák, CSc.		