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University: P. J. Šafár	ik University in Košice	
Faculty: Faculty of Sc	ience	
Course ID: ÚCHV/ CHN/2014/15	Course name: 2D chémia	a nanotechnológie
Course type, scope an Course type: Lecture Recommended cour Per week: 2 / 2 Per s Course method: pres	e / Practice se-load (hours): tudy period: 28 / 28	
Number of ECTS cre	dits: 10	
Recommended semes	ter/trimester of the cours	se:
Course level: III.		
Prerequisities:		
Conditions for course Final examination.	e completion:	
Learning outcomes:		
		structured substrates by quantum and computer face analysis.
Recommended literat Somorjai,G.A.: Introd		y and catalysis, Wiley, New York, 1994.
Course language:		
Notes:		
Course assessment Total number of asses	sed students: 9	
	abs	n
1	00.0	0.0
Provides: prof. RNDr.	Andrej Oriňak, PhD., pro	f. RNDr. Renáta Oriňaková, DrSc.
Date of last modificat	ion: 03.05.2015	
Approved:		

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of S	cience		
Course ID: ÚCHV/ ODZP/2014/15	Course name: Defence of	Doctoral Thesis	
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	r se-load (hours): y period: esent		
Number of ECTS cr			
	ster/trimester of the cours	e:	
Course level: III.			
Prerequisities:			
Conditions for cours	e completion:		
Learning outcomes:			
Brief outline of the c	ourse:		
Recommended litera	iture:		
Course language:			
Notes:			
Course assessment Total number of asse	ssed students: 50		
N P			
0.0 100.0			
Provides:			
Date of last modifica	tion: 03.05.2015		
Approved:			

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of S	cience		
Course ID: ÚCHV/ DZS/15	Course name: Dissertati	on examination	
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pre	rse-load (hours): ly period: esent		
Number of ECTS cr			
Recommended seme	ster/trimester of the cou	rse:	
Course level: III.			
Prerequisities:			
Conditions for cours	e completion:		
Learning outcomes:			
Brief outline of the c	ourse:		
Recommended litera	iture:		
Course language:			
Notes:			
Course assessment Total number of asse	ssed students: 51		
N P			
	0.0	100.0	
Provides:			
Date of last modifica	tion: 03.05.2015		
Approved:			

University: P. J.	Šafárik Univers	ity in Košice			
Faculty: Faculty	of Science				
Course ID: CJP/ AJD1/07	Course na	ame: English La	nguage for PhD	Students 1	
Course type, sco Course type: Pr Recommended Per week: 2 Per Course method	ractice course-load (h r study period:	ours):			
Number of ECT	S credits: 2				
Recommended s	emester/trimes	ster of the cours	e: 1.		
Course level: III.					
Prerequisities:					
Conditions for c Written assignment distance mode of	ents - profession	nal CV, short aca	demic biography	y (200-350 words).
Learning outcon	nes:				
Brief outline of t	the course:				
Recommended li	iterature:				
Course language	2 •				
Notes:					
Course assessme Total number of		ts: 654			
N	Ne	Р	Pr	abs	neabs
0.0	0.0	51.38	0.0	48.62	0.0
Provides: PhDr. 1	Helena Petruňo	vá, CSc., Mgr. Z	uzana Kolaříkov	vá, PhD.	
Date of last mod	ification: 11.02	2.2021			
Approved:					

¥	COURSE INFORMATION LETTER
University: P. J. Šafári	
Faculty: Faculty of Sci	ience
Course ID: CJP/ AJD2/07	Course name: English Language for PhD Students 2
Course type, scope an Course type: Practice Recommended course Per week: 2 Per stud Course method: pres	e se-load (hours): ly period: 28
Number of ECTS cree	dits: 3
Recommended semest	ter/trimester of the course: 2.
Course level: III.	
Prerequisities:	
	completion: ruction. Online consultations. rdance with the exam requirements (https://www.upjs.sk/filozoficka-fakulta
(selected aspects of E pragmatic competence	dents' language skills, improvement of students' linguistic competencies inglish pronunciation, vocabulary and syntax), development of students' (selected aspects of functional grammar) with focus on English for academic B2/C1 level of lanugage competence (according to CEFR.)
(noun and verb colloca language, etc.), selecte etc.), selected function	urse: ademic and professional English with focus on vocabulary developmen itions, phrasal verbs, prepositional phrases, word-formation, formal/informa ad aspects of English grammar (prepositions, grammar tenses, passive voice al grammar (expressing opinion, cause/effect, arguments, examples, etc.). tion. Cross-language interference.
Recommended literat	ure:
UPJŠ Košice, 2015 McCarthy, M., O'Dell	ová, H., Timková, R.: Angličtina v akademickom prostredí (cvičebnica). , F.: Academic Vocabulary in Use. CUP, 2008 ff a kol.: Academic English-Akademická angličtina. Grada Publishing, a.s.
Blašková, K.: Handboo Dušková, L. a kol.: Ho Bratislava, 1982	ok of English for Postgraduate Students. Vyd. SPRINT Bratislava, 2007 ovorová angličtina pre vedeckých a odborných pracovníkov. Veda.
Porter, D.: Check your	English for Scientists. CUP, 2011 vocabulary for Academic English. Macmillan Publishers Limited, 2008 Dictionary for students of English. OUP, 2002
Course language:	

B2/C1 level acc	cording to CEFR				
Notes:					
Course assessment Total number of assessed students: 649					
Ν	Ne	Р	Pr	abs	neabs
0.31 0.0 93.07 1.23 5.39 0.0					
Provides: PhDr.	. Helena Petruňo	vá, CSc., Mgr. Zu	uzana Kolaříková	i, PhD.	
Date of last mo	dification: 10.02	2.2021			
Approved:					

E14 E			n Košice				
raculty: Fa	culty of Sci	ence					
Course ID: EECH/03	ÚCHV/ C	Course name:	: Environme	ntal Chemist	ry		
Course ty Recomme Per week:	pe: Lecture nded cours	e-load (hours udy period: 2	s):				
	ECTS cred						
Recommen	ded semest	er/trimester	of the cours	e:			
Course leve	el: II., III.						
Prerequisit	ies:						
Conditions Examinatio		completion:					
Learning o	utcomes:						
Carbon, ni	itrogen, sul	phur, phospo	-	les. Metals	and enviro	nment. Spec	cial cycles
Carbon, ni Earth atmo atmosphere of greenhou and polluta cleaning pr	itrogen, sul osphere com e. Atmospher use effects. F ants monito rocesses. Ar		phorous cyc nctions of an nistry. Pollut ir quality con- cation of po- nods in envir	les. Metals mosphere. F ants in atmos ntrol. Energet llutants and ronmental ch	and enviro Physical and phere and gr tic Earth bala ways of el temistry, app	nment. Spec chemical p eenhouse eff ance. Water e imination. V blications. So	cial cycles rocesses i fect. Model nvironmer Vaste wate pil analysis
Carbon, ni Earth atmo atmosphere of greenhou and polluta cleaning pr biogeochem concepts. Recommen 1. G. Schw	itrogen, sul osphere com e. Atmospher use effects. F ants monito rocesses. Ar nical proces ded literatu edt: The Ess	phur, phospo position, fur ric photochen Principles of a red. Classific alytical meth sses. Acid rai	bhorous cyc nctions of an nistry. Pollut ir quality con- cation of po- nods in envir in, metal ion to Environm	les. Metals tmosphere. F ants in atmos ntrol. Energet llutants and ronmental ch as in soil. En ental Chemis	and enviro Physical and phere and gr tic Earth bala ways of el nemistry, app nvironmenta	nment. Spec chemical p eenhouse eff ance. Water e imination. V blications. So 1 analysis, s nd Sons, Lor	cial cycles processes in fect. Model nvironmen Vaste wate pil analysis trategy and
Carbon, ni Earth atmo atmosphere of greenhou and polluta cleaning pr biogeochem concepts. Recommen 1. G. Schw 2. R.N. Ree	itrogen, sul osphere com e. Atmospher use effects. F ants monito rocesses. Ar nical proces ided literatu edt: The Ess eve, J.D. Bar	phur, phospo position, fur ric photochen Principles of a red. Classific alytical meth sees. Acid rai	bhorous cyc nctions of an nistry. Pollut ir quality con- cation of po- nods in envir in, metal ion to Environm	les. Metals tmosphere. F ants in atmos ntrol. Energet llutants and ronmental ch as in soil. En ental Chemis	and enviro Physical and phere and gr tic Earth bala ways of el nemistry, app nvironmenta	nment. Spec chemical p eenhouse eff ance. Water e imination. V blications. So 1 analysis, s nd Sons, Lor	cial cycles rocesses i fect. Model nvironmen Vaste wate oil analysis trategy and
Carbon, ni Earth atmo atmosphere of greenhou and polluta cleaning pr biogeochem concepts. Recommen 1. G. Schw 2. R.N. Ree Course lan	itrogen, sul osphere com e. Atmospher use effects. F ants monito rocesses. Ar nical proces ided literatu edt: The Ess eve, J.D. Bar	phur, phospo position, fur ric photochen Principles of a red. Classific alytical meth sees. Acid rai	bhorous cyc nctions of an nistry. Pollut ir quality con- cation of po- nods in envir in, metal ion to Environm	les. Metals tmosphere. F ants in atmos ntrol. Energet llutants and ronmental ch as in soil. En ental Chemis	and enviro Physical and phere and gr tic Earth bala ways of el nemistry, app nvironmenta	nment. Spec chemical p eenhouse eff ance. Water e imination. V blications. So 1 analysis, s nd Sons, Lor	cial cycles processes in fect. Model nvironmen Vaste wate bil analysis trategy and
Carbon, ni Earth atmo atmosphere of greenhou and polluta cleaning pr biogeochem concepts. Recommen 1. G. Schwe 2. R.N. Rec Course lang Notes:	itrogen, sul osphere com e. Atmospher use effects. F ants monito rocesses. Ar nical proces ided literatu edt: The Ess eve, J.D. Ban guage:	phur, phospo position, fur ric photochen Principles of a red. Classific alytical meth sees. Acid rai	ohorous cyc actions of an nistry. Pollut ir quality con- cation of po- nods in envir in, metal ion to Environmer	les. Metals tmosphere. F ants in atmos ntrol. Energet llutants and ronmental ch as in soil. En ental Chemis	and enviro Physical and phere and gr tic Earth bala ways of el nemistry, app nvironmenta	nment. Spec chemical p eenhouse eff ance. Water e imination. V blications. So 1 analysis, s nd Sons, Lor	cial cycles processes in fect. Model nvironmen Vaste wate bil analysis trategy and
Carbon, ni Earth atmo atmosphere of greenhou and polluta cleaning pr biogeochem concepts. Recommen 1. G. Schwe 2. R.N. Rec Course lang Notes:	itrogen, sul osphere com e. Atmospher use effects. F ants monito rocesses. Ar nical proces ided literatu edt: The Ess eve, J.D. Ban guage:	phur, phospo position, fur ric photochem Principles of a red. Classific alytical meth ses. Acid rai	ohorous cyc actions of an nistry. Pollut ir quality con- cation of po- nods in envir in, metal ion to Environmer	les. Metals tmosphere. F ants in atmos ntrol. Energet llutants and ronmental ch as in soil. En ental Chemis	and enviro Physical and phere and gr tic Earth bala ways of el nemistry, app nvironmenta	nment. Spec chemical p eenhouse eff ance. Water e imination. V blications. So 1 analysis, s nd Sons, Lor	cial cycles processes in fect. Model nvironmen Vaste wate bil analysis trategy and
Carbon, ni Earth atmo atmosphere of greenhou and polluta cleaning pr biogeochem concepts. Recommen 1. G. Schw 2. R.N. Ree Course lang Notes: Course asso Total numb	itrogen, sulposphere com e. Atmosphere use effects. Fants monitor rocesses. Arr nical process ded literatu edt: The Ess eve, J.D. Ban guage: essment per of assesse	phur, phospo position, fur ric photochen Principles of a red. Classific alytical meth ses. Acid rai re: sential Guide mes: General	ohorous cyc nctions of an nistry. Pollut ir quality con- cation of po- nods in envir in, metal ion to Environmer Environmer	les. Metals mosphere. F ants in atmos ntrol. Energet llutants and ronmental ch ns in soil. En ental Chemistr	and enviro Physical and phere and gr tic Earth bala ways of el emistry, app nvironmenta stry, Wiley a y, Wiley, Lo	nment. Spec chemical p eenhouse eff ance. Water e imination. V olications. So 1 analysis, s nd Sons, Lor ndon 1994	cial cycles rocesses in fect. Model environmen Vaste wate bil analysis trategy and ndon 2001
Carbon, ni Earth atmo atmosphere of greenhou and polluta cleaning pr biogeochen concepts. Recommen 1. G. Schwe 2. R.N. Ree Course lang Notes: Course asse Total numb A 49.56	itrogen, sulposphere come e. Atmosphere use effects. Fants monitor rocesses. Arrinical process added literatu edt: The Esseve, J.D. Ban guage: essment ber of assesse B 19.47	phur, phospo position, fur ric photochen Principles of a red. Classific halytical meth sees. Acid rai	bhorous cyc nctions of an nistry. Pollut ir quality con- cation of po- nods in envir in, metal ion to Environmer 13 13 2.65	les. Metals tmosphere. F ants in atmos ntrol. Energet llutants and ronmental ch ns in soil. E ental Chemistr E 3.54	and enviro Physical and phere and gr tic Earth bala ways of el emistry, app nvironmenta stry, Wiley a y, Wiley, Lo	nment. Spec chemical p eenhouse eff ance. Water e imination. V olications. So 1 analysis, s nd Sons, Lor ndon 1994	cial cycles rocesses i Pect. Model environmer Vaste wate bil analysis trategy an ndon 2001
Carbon, ni Earth atmo atmosphere of greenhou and polluta cleaning pr biogeochem concepts. Recommen 1. G. Schwe 2. R.N. Ree Course lang Notes: Course asse Total numb A 49.56 Provides: d	itrogen, sulposphere com e. Atmosphere use effects. Fants monito rocesses. Ar nical process ded literatu edt: The Ess eve, J.D. Ban guage: essment ber of assesse B 19.47 loc. RNDr. A	phur, phospo position, fur ric photochem Principles of a red. Classific alytical meth sees. Acid rai	bhorous cyc actions of an inistry. Pollut ir quality con- cation of po- nods in envir in, metal ion to Environmer 13 13 2.65 ová Fedorkov	les. Metals tmosphere. F ants in atmos ntrol. Energet llutants and ronmental ch ns in soil. E ental Chemistr E 3.54	and enviro Physical and phere and gr tic Earth bala ways of el emistry, app nvironmenta stry, Wiley a y, Wiley, Lo	nment. Spec chemical p eenhouse eff ance. Water e imination. V olications. So 1 analysis, s nd Sons, Lor ndon 1994	cial cycles rocesses in fect. Model environmen Vaste wate bil analysis trategy and ndon 2001

University: P.	×						
	J. Safárik	University i	n Košice				
Faculty: Facu	lty of Scie	ence					
Course ID: Ú FKK1/03	CHV/ C	ourse name:	Kinetics and	d Catalysis			
Course type, Course type Recommend Per week: 2 Course meth	: Lecture / led course / 1 Per stu	Practice -load (hours idy period: 2	s):				
Number of E	CTS cred	its: 5					
Recommende	ed semeste	er/trimester	of the cours	e:			
Course level:	II., III.						
Prerequisities	5:						
Conditions fo Test. Examination.	r course (completion:					
Learning out Detailed and p catalysis.		explanation o	f different typ	bes of reactio	ns, homogen	eous and he	terogeneous
Brief outline Classification reactions. Con kinetics. Con adsorption, ty influenced ph	of chem mplicated mplex rea ppes of ad	ical reaction reactions. Th ctions mech sorption, ads	eory of chem anism. Exp corption isoth	nical kinetics losions. Pho nerms. Essen	Experiment btochemical free of cataly	tal methods reactions. tic processe	of chemical Essence of s. Catalysis
Recommende P. W. Atkins : Richard I. Ma I. CHORKEN CONCEPTS Wiley-VCH V	Physical sel: Chem IDORFF, . OF MODI	Chemistry,O iical Kinetics J. W. NIEMA ERN CATAL	& Catalysis NTSVERDI YSIS AND F	Wiley-Inters RIET: Funda KINETICS,	science, 2001	l.	
Course langu	age:					-	
Notes:							
Course assess Total number		ed students: 4	2				
A	В	С	D	Е	FX	Ν	Р
71.43	4.76	2.38	0.0	0.0	0.0	0.0	21.43
Provides: pro	f. RNDr. F	Renáta Oriňal	ková, DrSc.,	RNDr. Frant	išek Kaľavsl	кý	
Date of last n	nodificatio	on: 20.09.201	7				

Approved:

Fooultry F-			in Košice				
racuity: Fa	culty of Sc	cience					
Course ID: IMS1/03	ÚCHV/	Course name	: Mass Spect	trometric Ide	ntification		
Course typ Recomme	pe: Lecture nded cour 2 / 1 Per s	se-load (hour study period:	s):				
Number of	ECTS cre	edits: 4					
Recommen	ded semes	ster/trimester	of the cours	se:			
Course leve	el: III.						
Prerequisit	ies:						
Conditions	for course	e completion:					
Learning o	utcomes:						
	menulos 0	t mass specti	rometry. An	alvtical mas	s spectrome	try. Detecto	rs in mass
spectrometri spectra obta Fragmentat current. Mo methods. Ta	ry and reso ained from ion, spectr pnitoring of andem MS methods of	lution. Quadru different ion s a, and structur f selected ion/f -MS, GC-MSI surface analys	poles, ion tra sources. Iden al informatic ragment. The D, HPLC-MS	tification wit on. Identificat e use of hyph 5, microcolun	yzers. Analy h MS. Deter tion by spect enated and c nn applicatio	tes ionization mination of r ra compariso oupled chron	n, molecular nolar mass. n. Total ion natographic
spectrometri spectra obta Fragmentat current. Mo methods. Ta SIMS and r	ry and reso ained from ion, spectr onitoring of andem MS nethods of ded litera	lution. Quadru different ion s a, and structur f selected ion/f -MS, GC-MSI surface analys	poles, ion tra sources. Iden al informatic ragment. The D, HPLC-MS	ps, TOF anal tification wit on. Identificat e use of hyph b, microcolun	yzers. Analy h MS. Deter tion by spect enated and c nn applicatio	tes ionization mination of r ra compariso oupled chron	n, molecular nolar mass. n. Total ion natographic
spectrometri spectra obta Fragmentat current. Mo methods. Ta SIMS and r Recommen	ry and reso ained from ion, spectr onitoring of andem MS nethods of ded litera	lution. Quadru different ion s a, and structur f selected ion/f -MS, GC-MSI surface analys	poles, ion tra sources. Iden al informatic ragment. The D, HPLC-MS	ps, TOF anal tification wit on. Identificat e use of hyph b, microcolun	yzers. Analy h MS. Deter tion by spect enated and c nn applicatio	tes ionization mination of r ra compariso oupled chron	n, molecular nolar mass. n. Total ion natographic
spectrometri spectra obta Fragmentat current. Mo methods. Ta SIMS and r Recommen Course lang Notes: Course asso	ry and reso ained from ion, spectr onitoring of andem MS methods of ded literar guage:	lution. Quadru different ion s a, and structur f selected ion/f -MS, GC-MSI surface analys	poles, ion tra sources. Iden al informatic ragment. The D, HPLC-MS sis. Evaluatio	ps, TOF anal tification wit on. Identificat e use of hyph b, microcolun	yzers. Analy h MS. Deter tion by spect enated and c nn applicatio	tes ionization mination of r ra compariso oupled chron	n, molecular nolar mass. n. Total ion natographic
spectrometri spectra obta Fragmentat current. Mo methods. Ta SIMS and r Recommen Course lang Notes: Course asso	ry and reso ained from ion, spectr onitoring of andem MS methods of ded literar guage:	lution. Quadru different ion s a, and structur f selected ion/f -MS, GC-MSI surface analys ture:	poles, ion tra sources. Iden al informatic ragment. The D, HPLC-MS sis. Evaluatio	ps, TOF anal tification wit on. Identificat e use of hyph b, microcolun	yzers. Analy h MS. Deter tion by spect enated and c nn applicatio	tes ionization mination of r ra compariso oupled chron	n, molecular nolar mass. n. Total ion natographic
spectrometri spectra obta Fragmentat current. Mo methods. Ta SIMS and r Recommen Course lang Notes: Course asso Total numb	ry and reso ained from ion, spectronitoring of andem MS methods of ded literar guage: essment er of asses	lution. Quadru different ion s a, and structur f selected ion/f -MS, GC-MSE surface analys ture:	poles, ion tra sources. Iden al informatic ragment. The D, HPLC-MS sis. Evaluatio	ps, TOF anal tification wit on. Identificat e use of hyph s, microcolun on of mass sp	yzers. Analy h MS. Deter- tion by spect enated and c nn application pectrum.	tes ionization mination of r ra compariso oupled chron n. MALDI To	n, molecular nolar mass. n. Total ion natographic oF MS, ToF
spectrometri spectra obta Fragmentat current. Mo methods. Ta SIMS and r Recommen Course lang Notes: Course asso Total numb A 100.0	ry and reso ained from ion, spectr onitoring of andem MS nethods of ded literar guage: essment er of asses B 0.0	lution. Quadru different ion s a, and structur f selected ion/f -MS, GC-MSI Surface analys ture: sed students: 1	poles, ion tra sources. Iden al informatic ragment. The D, HPLC-MS sis. Evaluatio	E	yzers. Analy h MS. Deter- tion by spect enated and c nn applicatio bectrum. FX 0.0	tes ionization mination of r ra compariso oupled chron n. MALDI To	n, molecular nolar mass. n. Total ion natographic oF MS, ToF
spectrometri spectra obta Fragmentat current. Mo methods. Ta SIMS and r Recommen Course lang Notes: Course asso Total numb A 100.0 Provides: p	ry and reso ained from ion, spectr onitoring of andem MS nethods of ded litera guage: essment er of asses B 0.0 rof. RNDr.	lution. Quadru different ion s a, and structura f selected ion/f -MS, GC-MSE surface analys ture: sed students: 1 C 0.0	poles, ion tra sources. Iden al informatic ragment. The D, HPLC-MS sis. Evaluatio D 0.0 k, PhD., RN	E	yzers. Analy h MS. Deter- tion by spect enated and c nn applicatio bectrum. FX 0.0	tes ionization mination of r ra compariso oupled chron n. MALDI To	n, molecular nolar mass. n. Total ion natographic oF MS, ToF

University: P.	J. Šafárik	University in Košice
University. 1.	J. Dululik	

Faculty: Faculty of Science

Course ID: ÚCHV/	Course name: Methods of Chemical Research
MCV1/03	

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 ECTS credits: 5

Recommended semester/trimester of the course:

Course level: II., III.

Prerequisities:

Conditions for course completion:

The students are expected to actively participate in seminars by demonstrating solutions to selected problems (a presentation of a real problem) in front of their course-fellows. Examination

Learning outcomes:

To make students known with the physicochemical parameters' means of measurement, evaluation, and interpretation for the study of the process, i.e. the rate of reaction, mechanism, intermediates and final products in both homogeneous and heterogeneous systems.

Brief outline of the course:

Overview of basic principles of the determination of physicochemical quantities (dissociation constant, activity coefficient, solubility product, stability constant of complex, diffusion coefficient). Calorimetry and its utilisation. Experimental methods in kinetics. The Butler-Volmer equation. Survey of selected key topics in colloid chemistry. Adsorption-BET equation. Determination of molecular mass of macromolecules. A discussion of topics selected from active research fields.

Recommended literature:

W.J. Moore: Physical Chemistry, Longman Group Limited, London 1972

H. H. Willard et al.: Instrumental Methods of Analysis, Wadsworth, Belmont 1988

J. Koryta, J. Dvořák, L. Kavan: Principles of Electrochemistry, John Wiley & Sons, New York 1993

P.W. Atkins: Physical Chemistry, Oxford University Press, Oxford, New York 2002

D. Kladeková: Supportive Textbooks in Course: Methods of Chemical Research, The ESF project no. SOP HR 2005/NP1-051 11230100466, Košice 2008

Course language:

Notes:

Course asse Total numb	essment er of assesse	d students: 4	-2				
А	В	С	D	Е	FX	Ν	Р
52.38	52.38 28.57 2.38 4.76 0.0 0.0 0.0 11.9						
Provides: d	Provides: doc. RNDr. Andrea Straková Fedorková, PhD.						
Date of last modification: 20.09.2017							
Approved:	Approved:						

		SE INFORM				
University: P. J. Šafár	ik University i	n Košice				
Faculty: Faculty of So	cience					
Course ID: ÚCHV/ FMP1/03	Course name:	Modelling	of Physicoch	nemical Proce	esses	
Course type, scope an Course type: Lecture Recommended cour Per week: 2 / 2 Per s Course method: pres	e / Practice se-load (hours study period: 2	5):				
Number of ECTS cre	edits: 5					
Recommended semes	ster/trimester	of the cours	e:			
Course level: II., III.						
Prerequisities:						
Conditions for course Seminar work. Examination.	e completion:					
Learning outcomes: To explain general priphysicochemical proc Brief outline of the co Modelling and proce models of processes	esses. Durse: sses control. (General prin	ciples of mo	odelling. Exa	mples of m	nathematical
processes. Computation	onal models.					
Recommended litera William L. Luyben: P edition), McGraw-Hil Richard G. Rice, Duo Engineers, John Wile	rocess Modelin l College, 1990 ng D. Do, D. E). Do Duong: A			-	
Course language:						
Notes:						
Course assessment Total number of asses	sed students: 3	1				
A B	C	D	Е	FX	Ν	Р
70.97 0.0	3.23	0.0	0.0	0.0	0.0	25.81
Provides: prof. RNDr	Renáta Oriňal	ková, DrSc.		-	·	<u>.</u>
Date of last modificat	tion: 20.09.201	17				
Approved:						

University:	P. J. Šafárik	University i	n Košice				
Faculty: Fac	culty of Scie	nce					
Course ID: TFCH/03	ÚCHV/ C	ourse name:	: New Trends	s in Analytic	cal Chemistry	7	
Course typ Recommer Per week:	be: Lecture / nded course	e-load (hours ady period: 4	s):				
Number of 1							
Recommend	ded semeste	er/trimester	of the cours	e:			
Course leve	l: III.						
Prerequisiti	es:						
Conditions Seminar wo Examination	ork.	completion:					
Learning ou News in phy		stry develop	ments.				
signal enhan and applicat sensors, ele Microscopio microscopy, electrochem	ncement, sep tions of elect ectrochemica c Methods. (, scanning pr nical impeda nt circuits.	paration of the paration of the rochemical in al sensors a Dverwiev of robe microsco ance spectros Basic electros	he nanoobjec mpendance s and biosenso various micro opy. Principle scopy.3D inte	eted films, n pectroscopy rs.Moderné oscopy meth es, theory an erpretation o	s of nanostru anocatalysis; y, progress and mikroskopio nods - light m id examples o of the imped Li-ion batter	theoretical l d new trends cké metódy. nicroscopy, el f practical ap lance spectra	background in chemical Advanced lectron plication of . Modeling
		ods in Physic	cal Chemistry	y, Wiley-VC	TH Verlag Gn	ıbH and Co.,	2012.
Course lang	guage:						
Notes:							
Course asse Total numbe		ed students: 7	,				
A	В	C	D	Е	FX	N	Р
			A				1
100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Approved:

University: P. J. Šaf	ärik University	n Košice		
Faculty: Faculty of	Science			
Course ID: KPE/ PgVU/17	Course name: Pedagogy for university teachers			
Course type, scope Course type: Lect Recommended co Per week: Per stu Course method: p	ure urse-load (hour dy period: 28s			
Number of ECTS c	redits: 5			
Recommended sem	ester/trimester	of the course:		
Course level: III.				
Prerequisities:				
Conditions for cou	rse completion:			
Learning outcomes	:			
Brief outline of the	course:			
Recommended liter	rature:			
Course language:				
Notes:				
Course assessment Total number of ass	essed students: 3	33		
abs		n	neabs	
100.0 0.0 0.0				
Provides: doc. Paed	Dr. Renáta Oros	ová, PhD.	-	
Date of last modifie	cation: 08.06.20	21		
Approved:				

University: P. J. Šafá	rik University in Košio	ce			
Faculty: Faculty of S	cience				
Course ID: ÚCHV/ PFCH1/2014/14	5				
Course type, scope a Course type: Lectur Recommended cour Per week: 2 / 2 Per Course method: pre	re / Practice rse-load (hours): study period: 28 / 28				
Number of ECTS cr	edits: 10				
Recommended seme	ster/trimester of the	course:			
Course level: III.					
Prerequisities:					
Conditions for cours Final examination.	e completion:				
Learning outcomes: Experiences in hetero	ogenous catalysis.				
study. Transport pher	es from heterogenous nomena during hetero characterisation. Mair	catalysis, methods of catalysts study, catalytic reactions genous catalysis. Calculation of kinetic constants and a impact is in area of catalysts for methane conversion			
Recommended litera 1.Atkins : Physical C 2.P.C.Schmidt: Method	hemistry IIV.	stry, Wiley-VCH GmbH, 2012.			
Course language: Slovak, English					
Notes:					
Course assessment Total number of asses	ssed students: 14				
	N P				
	0.0	100.0			
Dreaviders and DND	r. Andrej Oriňak, PhD.	, prof. RNDr. Renáta Oriňaková, DrSc.			
Provides: prof. RND.					
Date of last modifica					

University: P. J. Šafárik	University in Košice	
Faculty: Faculty of Scien	nce	
Course ID: ÚCHV/ Co PFCH2/2014/14	urse name: Pokročilá	fyzikálna chémia 2
Course type, scope and Course type: Lecture / Recommended course- Per week: 2 / 2 Per stu Course method: presen	Practice load (hours): dy period: 28 / 28	
Number of ECTS credit	s: 10	
Recommended semester	trimester of the cou	rse:
Course level: III.		
Prerequisities:		
Conditions for course co Final exam.	ompletion:	
Learning outcomes: Exam.		
1	blem of fast reactions as. It forms a basis for H	, photochemistry and laser spectroscopy as well as PhD students to solve problems in experimentl work
Recommended literatur	e:	
Course language:		
Notes:		
Course assessment Total number of assessed	l students: 14	
N		Р
0.0)	100.0
Provides: prof. RNDr. A Renáta Oriňaková, DrSc.	ndrej Oriňak, PhD., do	oc. RNDr. Zuzana Vargová, Ph.D., prof. RNDr.
Date of last modification	n: 03.05.2015	
Approved:		

University: P.	J. Šafárik	University in	n Košice				
Faculty: Facul	lty of Scie	ence					
Course ID: Ú(PPCHR1/03	CHV/ C	ourse name:	Pokročilý k	urz chromat	ografie		
Course type, s Course type: Recommende Per week: 3 I Course meth	Practice ed course Per study	-load (hours period: 42					
Number of EC							
Recommende	d semeste	er/trimester	of the cours	e:			
Course level:	III.						
Prerequisities	:						
Conditions for	r course o	completion:					
Learning outc	comes:						
Brief outline o	of the cou	rse:					
Recommende	d literatu	re:					
Course langua	age:						
Notes:							
Course assess Total number		d students: 1					
A	В	С	D	Е	FX	N	Р
0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
Provides: prof	. RNDr. A	Andrej Oriňal	k, PhD.	1			
Date of last m	odificatio	on: 03.05.201	5				
Approved:							

University: P. J. Šafárik Univ	ersity in Košice						
Faculty: Faculty of Science							
Course ID: KPPaPZ/PsVU/17Course							
Course type, scope and the m Course type: Lecture Recommended course-load Per week: Per study period Course method: present	(hours):						
Number of ECTS credits: 5							
Recommended semester/trin	nester of the course:						
Course level: III.							
Prerequisities:							
Conditions for course compl	etion:						
Learning outcomes:							
selected areas of cognitive pa	to students and as part of the teach sychology, psychology of emotion y, educational psychology and heal	s and motivation, developmental					
Alexitch, L. R. (2005). Apply Schneider F., Gruman J., Cou Fry, H., Ketteridge, S., & Man education: Enhancing academ Mareš, J.: Pedagogická psych Kniha psychologie. Universu Čáp, J., Mareš, J.: Psychologi	ologie. Portál, 2013.	228. eaching and learning in higher					
Course language:							
Notes:							
Course assessment Total number of assessed stud	lents: 37						
abs	n	neabs					
100.0	0.0	0.0					
Provides: PhDr. Anna Janovs	ká, PhD.						
Date of last modification: 28	06 2021						

Approved:

University: P. J. Šafá	rik University in Košice			
Faculty: Faculty of S	cience			
Course ID: ÚCHV/ PDS/18	$\boldsymbol{\mathcal{G}}$			
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pro	rse-load (hours): ly period: esent			
Number of ECTS cr				
	ster/trimester of the co	burse:		
Course level: III.				
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: 6			
N P				
0.0 100.0				
Provides:				
Date of last modifica	ntion:			
Approved:				