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University: P. J.	University: P. J. Šafárik University in Košice						
Faculty: Faculty	Faculty: Faculty of Science						
Course ID: CJP/ PFAJAKA/07	Course na	ame: Academic I	English				
Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: combined, present							
Number of ECT	S credits: 2						
Recommended	semester/trimes	ster of the cours	e:				
Course level: I.,	II., N						
Prerequisities:							
Combined method of teaching (classroom/distance) Active classroom participation, assignments handed in on time, 2 absences tolerated 1 test (10th week), no retake. (in classroom, in case of distance learning due to worsened epidemiological situation – online) Presentation on chosen topic (in case of distance learning - online thorugh MS Teams) Final evaluation- average assessment of test (40%), essay (30%) and presentation (30%). Grading scala: A 02 100% P 86 02% C 70 85% D 72 78% F 65 71% FX 64% and lease							
Learning outcom	mes:						
Brief outline of	the course:						
Recommended literature: Seal B.: Academic Encounters, CUP, 2002 T. Armer :Cambridge English for Scientists, CUP 2011 M. McCarthy M., O'Dell F Academic Vocabulary in Use, CUP 2008 Zemach, D.E, Rumisek, L.A: Academic Writing, Macmillan 2005 Olsen, A. : Active Vocabulary, Pearson, 2013 www.bbclearningenglish.com							
Course language: English language, level B2 according to CEFR.							
Notes:							
Course assessment Total number of assessed students: 380							
A	A B C D E FX						
33.68	22.11	15.53	10.0	6.58	12.11		
Provides: Mgr. V	Viktória Mária S	llovenská					
Date of last mod	Date of last modification: 17.09.2020						

Approved:

University: P. J. S	Šafárik Univers	ity in Košice					
Faculty: Faculty	Faculty: Faculty of Science						
Course ID: ÚCH AMCU/15	Course ID: ÚCHV/ Course name: Aktivizujúce metódy výučby chémie AMCU/15						
Course type, sco Course type: Le Recommended Per week: 2 / 2 Course method	pe and the met ecture / Practice course-load (h Per study perio : present	thod: ; ours): od: 28 / 28					
Number of ECTS	S credits: 5						
Recommended se	emester/trimes	ster of the cours	e: 2.				
Course level: II.							
Prerequisities:							
Conditions for co	ourse completi	on:					
Learning outcom	ies:						
Brief outline of t	he course:						
Recommended li	terature:						
Course language	:						
Notes:							
Course assessme Total number of a	nt assessed studen	ts: 44					
A	В	С	D	Е	FX		
100.0	100.0 0.0 0.0 0.0 0.0						
Provides: doc. Ri	NDr. Mária Gar	najová, CSc., RN	Dr. Ivana Sotáko	ová, Ph.D.	<u> </u>		
Date of last modi	ification: 03.05	5.2015					
Approved:							

University: P. J.	Šafárik Univers	sity in Košice					
Faculty: Faculty	of Science						
Course ID: ÚM ATA/14	V/ Course n	ame: Algebra and	l theoretical arit	hmetic			
Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per week: 3 / 1 Per study period: 42 / 14 Course method: present							
Number of ECT	S credits: 4						
Recommended	semester/trime	ster of the cours	e: 3.				
Course level: II.							
Prerequisities:							
Conditions for o It is based on the	course complet e results of writ	ion: ten and oral exam					
Learning outcome Obtain knowled the orderigs on t	mes: ge about sets N, hem.	Z, Q and R, abou	it their axiomati	c building-up, the	e operations and		
Brief outline of Sets of numbers	the course: N, Z, Q a R, th	eir axiomatical bu	iilding, operatio	ns and ordering.			
Recommended literature: J. Blažek a kol.: Algebra a teoretická aritmetika I. díl. SPN, Praha 1983 K. Hruša: Elementární aritmetika. Přírodovědecké vydavatelství, Praha 1953 W. Sierpinski: Arytmetyka teoretyczna. PWN, Varšava 1966 T. Šalát a kol.: Algebra a teoretická aritmetika (2) Alfa Bratislava - SNTL Praha 1986							
Course languag Slovak	Course language: Slovak						
Notes:							
Course assessment Total number of assessed students: 54							
A	В	C	D	Е	FX		
55.56 24.07 12.96 7.41 0.0 0.0							
Provides: doc. RNDr. Matúš Harminc, CSc.							
Date of last mod	Date of last modification: 06.03.2018						
Approved:							

University: P. J. Šafá	rik University in Košice
Faculty: Faculty of S	cience
Course ID: ÚMV/ AIM/10	Course name: Application of ICT into mathematics teaching
Course type, scope a Course type: Practic Recommended cou Per week: 2 Per stu Course method: pre	nd the method: ce rse-load (hours): idy period: 28 esent
Number of ECTS cr	edits: 2
Recommended seme	ster/trimester of the course: 3.
Course level: II.	
Prerequisities: ÚMV	//DDMa/14
Conditions for cours two tests elaborated of final project	se completion: on the computer, solving problems from worksheets
Learning outcomes: To learn students star and to provide examp teaching. To develop digital environment f of students allow to technologies.	ndard work procedures with the basic types of mathematical software systems bles and ideas on the possibility of using these software systems in mathematics the knowledge and skills of students to use investigation and modelling in the for mathematical problems solving. Develop creative and evaluation abilities prepare mathematics lessons with effective and meaningful use of modern
Brief outline of the c Possibilities of using Use of dynamic geo implementation of c and solving of proble knowledge in mather	numerical and graphical tools of spreadsheet to solve mathematical problems. metry systems in solving geometry problems, examples of their use in the onstructivist approaches to mathematics teaching. Mathematical modelling ems in a CAS environment. The use of modern IT for active acquisition of matics teaching.
Recommended litera M. Černochová et al. S. Lukáč: Multimédia	iture: : Využití počítače při vyučování, Portál, 1998. á a počítačom podporované učenie sa v matematike, PF UPJŠ Košice 2001.

J. Vaníček: Počítačové kognitivní technologie ve výuce geometrie. Univerzita Karlova v Praze, 2009.

Journals MFI, MIF a Obzory matematiky, fyziky a informatiky.

Course language:

Slovak

Notes:

Course assessment Total number of assessed students: 154							
A B C D E FX							
41.56	30.52	12.99	9.74	5.19	0.0		
Provides: doc. RNDr. Stanislav Lukáč, PhD.							
Date of last modification: 03.05.2015							
Approved:							

University: P. J. S	Šafárik Univers	ity in Košice					
Faculty: Faculty	of Science						
Course ID: ÚCHV/ ZTOX/04Course name: Basic Toxicology							
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 ECT	S credits: 5						
Recommended s	emester/trimes	ster of the course	e: 1.				
Course level: II.							
Prerequisities:							
Conditions for co	ourse completi	on:					
 Learning outcomes: Goal of the course is to provide the students with a knowledge of types of toxic substances and their metabolism, safe and handling of toxic substances. Brief outline of the course: Historical aspects, types of toxic substances, types of exposure, dose-response relationship. Disposition of toxic compounds (absorption, distribution, excretion of toxic compounds). Metabolism of toxic compounds. Drugs as toxic substances, food additives and contaminants, environmental pollutans. Statement of chemistry laboratory policy. Safe and handling of toxic substances. 							
G. F. Fuhrman: Allgemeine Toxikologie fuer Chemiker, Teubner Verlag, Stutgart 1984. V. E. Forbes, T. L. Forbe: Ecotoxicology in Theory and Practice, Chapman&Hall, London 1994. J. A. Timbrell: Introduction to Toxicology, Taylor&Francis, London 1994.							
Course language	2.						
Notes:							
Course assessment Total number of assessed students: 320							
A	B C D E FX						
21.25 27.5 25.0 17.5 7.5 1.25							
Provides: RNDr. Miroslava Matiková Maľarová, PhD.							
Date of last mod	ification: 03.05	5.2015					
Approved:							

University: P. J.	Šafárik Univer	sity in Košice						
Faculty: Faculty	of Science							
Course ID: ÚCH BTC/03	Course ID: ÚCHV/ Course name: Biotechnology BTC/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 ECT	S credits: 5							
Recommended s	emester/trime	ster of the course	e: 2.					
Course level: II.								
Prerequisities:								
Conditions for c test	ourse complet	ion:						
Learning outcor Students obtaine agriculture, indu	nes: ed the knowled stry, food produ	ge of basic biote	chnological pro	ocesses and their	applications in			
Classification of The fermentation and substrates f biogas, in-vessel preparation, isol fermentation, sp membrane biorea	biotechnology processes, typ for fermentation composting. Mation and poss irits, production actors. Antibiot	, disciplines and s es of bioreactors, n processes. The licro-organisms us ible uses. The me n of wine and been ics.	subjects which impellers, prin- bioremediation sed to preparation thods of classi r. The biologica	are involved with ciples of microbia n, production and on amino acids, th cal Plant Biotech al filters, nutrient	a biotechnology. Il growth, media Il application of eir fermentation nology. Ethanol removal and the			
Recommended literature: E.M.T. El-Mansi et al. ,Fermentation microbiology ang biotechnology,second edition, 2007 Y.H. Hui, Food biochemistry & food processing,Blackwell Publishing 2006 J.E. Smith, Biotechnology, Cambridge university press 2009								
Course language	e:							
Notes:								
Course assessment Total number of assessed students: 114								
A	A B C D E FX							
50.0	50.0 20.18 16.67 7.89 5.26 0.0							
Provides: RNDr.	Danica Sabolo	ová, PhD.						
Date of last mod	ification: 03.0	5.2015						
Approved:								

University: P. J. Šafá	rik University in	n Košice					
Faculty: Faculty of S	cience						
Course ID: ÚCHV/ ZCVU/04	Course ID: ÚCHV/ Course name: Chemical Engineering ZCVU/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 ECTS cro	edits: 5						
Recommended seme	ster/trimester (of the cours	e: 2., 4.				
Course level: I., II., I	II						
Prerequisities:							
Conditions for cours	e completion:						
Learning outcomes:							
Brief outline of the c General and Inorgani and holding; Chemic manufacture (H2SO4 Silicate industry – cen	ourse: ic Engineering; cal reactors; Ch , HNO3, HCl, F ment manufactu	Mineral rav nemical met IF, H3PO4); ire, ceramics	v materials; allurgy – F Industrial e ; Petrochem	Raw materia e, Al, Cu w lectrochemist	als processin orking; Inor try; Industria	g, transport ganic acids l fertilizers;	
Recommended litera	ture:						
Course language:							
Notes:							
Course assessment Total number of assessed students: 20							
A B	C	D	Е	FX	Ν	Р	
20.0 60.0	15.0	5.0	0.0	0.0	0.0	0.0	
Provides: doc. RNDr. Zuzana Vargová, Ph.D.							
Date of last modifica	tion: 23.02.201	8					
Approved:							

University: P. J.	Šafárik Univers	ity in Košice					
Faculty: Faculty	of Science						
Course ID: ÚCHV/ Course name: Chemical Excursion CHE2/03							
Course type, sco Course type: Pr Recommended Per week: Per Course method	pe and the me ractice course-load (h study period: : present	thod: ours): 1t					
Number of ECT	S credits: 4						
Recommended s	emester/trime	ster of the cours	e: 2.				
Course level: II.							
Prerequisities:							
Conditions for c	ourse completi	on:					
Learning outcon	nes:						
Brief outline of t	he course:						
Recommended l	iterature:						
Course language	2:						
Notes:							
Course assessme Total number of	ent assessed studen	ıts: 94					
А	В	С	D	Е	FX		
89.36	89.36 10.64 0.0 0.0 0.0 0.0						
Provides: doc. R	NDr. Zuzana V	argová, Ph.D.	<u>I</u>	1			
Date of last mod	ification: 03.05	5.2015					
Approved:							

University: P. J. Ša	afárik Universi	ity in Košice					
Faculty: Faculty o	f Science						
Course ID: ÚCHV MSSU1/14	Course ID: ÚCHV/ Course name: Chemistry and Didactics of Chemistry I MSSU1/14						
Course type, scop Course type: Recommended co Per week: Per st Course method:	e and the met ourse-load (he udy period: present	hod: ours):					
Number of ECTS	credits: 2						
Recommended ser	nester/trimes	ter of the cours	e:				
Course level: II.							
Prerequisities: ÚC	CHV/VKAU/04	4,ÚCHV/DCH2/	15				
Conditions for cou	urse completio	on:					
Learning outcome	es:						
Brief outline of th	e course:						
Recommended lite	erature:			_			
Course language:							
Notes:							
Course assessmen Total number of as	t sessed student	ts: 95					
A	В	С	D	Е	FX		
56.84 27.37 13.68 2.11 0.0 0.0							
Provides:	L			1	1		
Date of last modif	ication: 03.05	.2015					
Approved:							

University: P. J.	Šafárik Univers	ity in Košice			
Faculty: Faculty	of Science				
Course ID: ÚCH MSSU2/14	HV/ Course na	ame: Chemistry a	and Didactics of	Chemistry II	
Course type, sco Course type: Recommended Per week: Per Course method	ope and the met course-load (h study period: l: present	thod: ours):			
Number of ECT	S credits: 2				
Recommended s	semester/trimes	ster of the cours	e:		
Course level: II.					
Prerequisities: U	ÚCHV/VKOCH	/03,ÚCHV/DCH	2/15		
Conditions for c	course completi	on:			
Learning outcom	mes:				
Brief outline of	the course:				
Recommended	literature:				
Course languag	e:				
Notes:					
Course assessme Total number of	ent `assessed studen	ts: 37			
A	В	С	D	Е	FX
81.08	81.08 10.81 5.41 2.7 0.0 0.0				
Provides:					<u></u>
Date of last mod	lification: 03.05	5.2015			
Approved:					

University: P. J	. Šafárik Univers	ity in Košice				
Faculty: Facult	y of Science					
Course ID: KP SDaM/15	O/ Course na	Course name: Child and Adolescent Sociology				
Course type, sc Course type: 1 Recommended Per week: 2 P Course metho	cope and the met Lecture d course-load (h er study period: d: present	thod: ours): 28				
Number of EC	TS credits: 2					
Recommended	semester/trimes	ster of the cours	e: 3.			
Course level: II	- -					
Prerequisities:						
Conditions for	course completi	on:				
Learning outco	omes:					
Brief outline of	the course:					
Recommended	literature:					
Course languag	ge:					
Notes:						
Course assessm Total number o	nent f assessed studen	ts: 867				
А	В	С	D	Е	FX	
49.83	49.83 29.87 15.34 3.34 1.27 0.35					
Provides: Mgr.	Alexander Onufi	rák, PhD.	<u>I</u>			
Date of last mo	dification: 15.06	5.2021				
Approved:						

University: P. J.	. Šafárik Univers	ity in Košice				
Faculty: Faculty	y of Science					
Course ID: KPI MT/09	E/ Course na	Course name: Class Management				
Course type, sc Course type: I Recommended Per week: 2 Pe Course metho	ope and the met Practice I course-load (h er study period: d: present	thod: ours): 28				
Number of EC'	FS credits: 2					
Recommended	semester/trimes	ster of the cours	e: 2.			
Course level: II	•					
Prerequisities:						
Conditions for	course completi	on:				
Learning outco	mes:					
Brief outline of	the course:					
Recommended	literature:					
Course languag	ge:					
Notes:						
Course assessm Total number of	ent f assessed studen	ts: 514				
А	В	С	D	Е	FX	
53.89	53.89 34.24 8.75 1.56 0.58 0.97					
Provides: doc. I	PaedDr. Renáta C	Drosová, PhD.	I		<u>I</u>	
Date of last mo	dification: 08.06	5.2021				
Approved:						

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of S	cience		
Course ID: CJP/ PFAJKKA/07	Course name: Communicative Competence in English		
Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: combined, present			
Number of ECTS cr	edits: 2		
Recommended seme	ster/trimester of the course:		
Course level: I., II., N	٨		
Prerequisities:			
Conditions for cours Active participation is two classes at the mo Online teaching (MS 2 credit tests (presum The tests will be take classes. The presentation will	be completion: In class and completed homework assignments. Students are allowed to miss st. Teams), in case of an improved epidemiological situation = on-site teaching. Hably in weeks 6/7 and 12/13) and a short oral presentation in English. en online (MS Teams) during online teaching and in class in case of on-site be sent to the course instructor as a video recording.		

Final evaluation consists of the scores obtained for the 2 tests (70%) and the presentation (30%). Final grade will be calculated as follows: A 93-100 %, B 86-92%, C 79-85%, D 72-78%, E 65-71%, FX 64 % and less.

Learning outcomes:

Uplatnenie a aktívne používanie svojich teoretických vedomostí v praktických komunikačných situáciách. Zdokonalenie jazykových vedomostí a zručností študenta, rečovej, pragmatickej a vecnej kompetencie, predovšetkým zlepšujú komunikáciu, schopnosť prijímať a formulovať výpovede, efektívne vyjadrovať svoje myšlienky ako aj orientovať sa v obsahovom pláne výpovede. Precvičovanie rečových intencií kontaktných (napr. pozdravy, oslovenia, pozvanie, oslovenie), informatívnych (napr. získavanie a podávanie informácií, vyjadrenie priestorových a časových vzťahov), regulačných (napr. prosba, poďakovanie, zákaz, pochvala, súhlas, nesúhlas) a hodnotiacich (napr. vyjadrenie vlastného názoru, stanoviska, želania, emócií). Výsledkom budovania praktickej jazykovej kompetencie majú byť vedomosti a zručnosti zodpovedajúce požiadavkám a kritériám dokumentu Spoločný európsky referenčný rámec pre vyučovanie jazykov.

Brief outline of the course:

Rodina, jej formy a problémy Vyjadrovanie pocitov a dojmov Dom, bývanie a budúcnosť Formy a dialekty v anglickom jazyku Život v meste a na vidieku Kolokácie a idiomy, zaužívané slovné spojenia Prázdniny a sviatky vo svete

Životné prostredie	e a ekológia					
Výnimky zo slovo	osledu					
Frázové slovesá a	ich použitie					
Charakteristiky ne	eformálneho di	škurzu				
Recommended literature: www.bbclearningenglish.com McCarthy M., O'Dell F.: English Vocabulary in Use, Upper-Intermediate. CUP, 1994. Misztal M.: Thematic Vocabulary. SPN, 1998. Fictumova J., Ceccarelli J., Long T.: Angličtina, konverzace pro pokročilé. Barrister and Principal, 2008. Peters S., Gráf T.: Time to practise. Polyglot, 2007. Jones L.: Communicative Grammar Practice. CUP, 1985. Alexander L.G.: Longman English Grammar. Longman, 1988.						
English language,	B2 level accor	ding to CEFR				
Notes:						
Course assessmen Total number of a	nt ssessed studen	ts: 260		_		
Α	В	С	D	E	FX	
40.38	40.38 22.31 18.85 8.85 6.54 3.08					
Provides: Mgr. Barbara Mitríková, Mgr. Zuzana Naďová						
Date of last modification: 11.02.2021						
Approved:						

University: P. J	University: P. J. Šafárik University in Košice					
Faculty: Facult	y of Science					
Course ID: CJF PFAJGA/07	P/ Course n	Course name: Communicative Grammar in English				
Course type, sc Course type: I Recommended Per week: 2 Pe Course metho	Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: combined, present					
Number of EC	TS credits: 2					
Recommended	semester/trime	ster of the cours	e:			
Course level: 1.	, II., N					
Prerequisities:						
Conditions for Active classroo week), no retal 86-92%, C 79-8	course completed om participation ke. Final evalua 85%, D 72-78%,	ion: (max. 2x90 min. tion- average ass E 65-71%, FX 64	absences tolera essment of tests 4% and less.	nted). 2 test (5th/6 s. Grading scale:	6th and 12/13th A 93-100%, B	
Learning outco	mes:					
Brief outline of	the course:					
Recommended literature: Vince M.: Macmillan Grammar in Context, Macmillan, 2008 McCarthy, O'Dell: English Vocabulary in Use, CUP, 1994 C. Oxengen, C. Latham-Koenig: New English File Advanced, Oxford 2010 Misztal M.: Thematic Vocabulary, Fragment, 1998 www.bbclearningenglish.com ted.com/talks						
Course languag	ge:					
Notes:						
Course assessment Total number of assessed students: 406						
А	В	С	D	Е	FX	
39.66	18.97	16.75	8.62	5.91	10.1	
Provides: Mgr.	Provides: Mgr. Lenka Klimčáková					
Date of last mo	dification: 14.0	9.2019				
Approved:						

University: P. J.	Šafárik Univers	sity in Košice				
Faculty: Faculty	of Science					
Course ID: KGE NJKG/07	ER/ Course na	Course name: Communicative Grammar in German Language				
Course type, sco Course type: P Recommended Per week: 2 Pe Course method	ope and the me ractice course-load (h r study period: l: present	thod: ours): 28				
Number of ECT	S credits: 2					
Recommended s	semester/trimes	ster of the cours	e:			
Course level: I.,	II					
Prerequisities:						
Conditions for c	course completi	ion:				
Learning outcom	mes:					
Brief outline of	the course:					
Recommended I	literature:					
Course language	e:					
Notes:						
Course assessme Total number of	ent assessed studen	its: 54				
A	В	С	D	E	FX	
59.26	59.26 11.11 9.26 3.7 9.26 7.41					
Provides: Mgr. H	Blanka Jenčíkov	á		<u> </u>	<u>I</u>	
Date of last mod	lification: 03.05	5.2015				
Approved:						

University: P. J. Šafá	rik University in Košice			
Faculty: Faculty of S	cience			
Course ID: ÚCHV/ MPPc/15	Course name: Continuous	practice teaching I		
Course type, scope a Course type: Practic Recommended cour Per week: Per stud Course method: pre	Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: Per study period: 4t Course method: present			
Number of ECTS cr	edits: 2			
Recommended seme	ster/trimester of the cours	e: 3.		
Course level: II.				
Prerequisities: ÚCH	V/MPPb/15 and leboÚCHV	/MPPb/03		
Conditions for cours	e completion:			
Learning outcomes:				
Brief outline of the c	ourse:			
Recommended litera	iture:			
Course language:	Course language:			
Notes:	Notes:			
Course assessment Total number of assessed students: 108				
abs n				
100.0 0.0				
Provides: RNDr. Ivana Sotáková, Ph.D., doc. RNDr. Mária Ganajová, CSc.				
Date of last modification: 03.05.2015				
Approved:				

University: P J Šafá	rik University in Ko	šice	
Faculty: Faculty of S	cience		
Course ID: L'IMV/	arma D. (NAV/ Course name: Continuous presties teaching I		
VSPc/15	Course name. Cor		
Course type, scope a	nd the method:		
Course type: Practic	ce		
Recommended cou	rse-load (hours):		
Per week: Per stud	y period: 4t		
Course method: pre			
Number of ECTS cr	edits: 2		
Recommended seme	ster/trimester of th	e course: 3.	
Course level: II.			
Prerequisities: ÚMV	/VPPb/15		
Conditions for cours	e completion:		
Enable students to g knowledge in specific the atmosphere and th	ain first practical e teaching situations, ne organization of so	xperience in teaching mathematics to apply theoretical to develop their teaching skills. To acquaint students with chool.	
Brief outline of the c	ourse:		
Recommended litera	iture:		
Course language: Slovak			
Notes:			
Course assessment Total number of asses	ssed students: 62		
	abs	n	
	100.0 0.0		
Provides: doc. RNDr	. Dušan Šveda, CSc.	., doc. RNDr. Ingrid Semanišinová, PhD.	
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/ MPPd/15	Course name: Continuous	practice teaching II	
Course type, scope a Course type: Practic Recommended cour Per week: Per stud Course method: pre	nd the method: ce rse-load (hours): y period: 6t esent		
Number of ECTS cr	edits: 2		-
Recommended seme	ster/trimester of the cours	e: 4.	-
Course level: II.			
Prerequisities: ÚCH	V/MPPc/15		
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: 87		
	abs n		
100.0 0.0			
Provides: RNDr. Ivar	na Sotáková, Ph.D., doc. RN	IDr. Mária Ganajová, CSc.	
Date of last modifica	tion: 03.05.2015		
Approved:			

University: P. J. Safá	rik University in Ko	šice			
Faculty: Faculty of S	cience				
Course ID: ÚMV/ VSPd/15	Course name: Cor	Course name: Continuous practice teaching II			
Course type, scope a Course type: Practic Recommended cour Per week: Per stud Course method: pre	nd the method: ce rse-load (hours): ly period: 6t esent				
Number of ECTS cr	edits: 2				
Recommended seme	ster/trimester of th	e course: 4.			
Course level: II.					
Prerequisities: ÚMV	/VSPc/15				
Conditions for cours	e completion:				
Learning outcomes: Enable students to g knowledge in specific the atmosphere and the	ain first practical e teaching situations, he organization of so	experience in teaching mathematics to apply theoretical to develop their teaching skills. To acquaint students with chool.			
Brief outline of the c	ourse:				
Recommended litera	iture:				
Course language: Slovak					
Notes:					
Course assessment Total number of asse	ssed students: 52				
	abs	n			
	100.0 0.0				
Provides: doc. RNDr	. Dušan Šveda, CSc	., doc. RNDr. Ingrid Semanišinová, PhD.			
Date of last modifica	tion: 03.05.2015				
Approved:					

University: P. J. Šafárik University in Košice			
Faculty: Faculty of S	cience		
Course ID: ÚCHV/ KC/03	Course name: Cosmetic chemistry		
Course type, scope a Course type: Lectur Recommended cour Per week: 2 / 1 Per Course method: pre	nd the method: re / Practice rse-load (hours): study period: 28 / 14 esent		
Number of ECTS cr	edits: 4		
Recommended semester/trimester of the course: 3.			

Course level: II.

Prerequisities:

Conditions for course completion:

Seminar report on the selected subjects of cosmetic chemistry and its oral presentation connected with discussion. Terminal examination by oral form.

Learning outcomes:

The basic chemical ingredients in cosmetic products, their isolation from natural sources. The construction of some interesting groups of the orgnaic structures and their application in cosmetic industry.

Brief outline of the course:

Skin and its components. The chemistry of lipids. Lipids, their classification (triacylglycerols, glycerophospholipids and sfingophoslipids), liposomes as transport systems. Fatty acids and alcohols, natural and synthetic waxes. Surfactants, their classification. Antioxidants. Dyes, their classification, organic and inorganic dyes, natural and synthetic. Biological active compounds (amino acids, peptides, proteins hydroxy acids, vitamins, polysaccharides) as the cosmetic ingredients. The chemistry of fragrances. Compounds derived from shikimic acid and mevalonic acid, their biosynthesis, Synthetic fragrances and their construction.

Recommended literature:

1. S. V. Bhat, B. A. Nagasampagi, M. Sivakumar: Chemistry of Natural Products, Springer Narosa 2005, ISBN 81-7319-481-5.

2. G. Ohloff: Scent and Fragrances, Springer-Verlag Berlín Heidelberg 1994, ISBN 3-540-57108-6.

3. D. H. Pybus, CH. S. Sell: The chemistry of fragrances, Royal Society of Chemistry 1999, ISBN 0-8540-528-7.

4. J. McMurry: Organic chemistry, Brooks/Cole, a Thomson Learning Company 2004, Sixth Eddition, ISBN 0534389996.

Course language:

Notes:

Course assessment Total number of assessed students: 86							
А	A B C D E FX						
79.07	15.12	4.65	1.16	0.0	0.0		
Provides: doc. RNDr. Miroslava Martinková, PhD.							
Date of last modification: 06.02.2020							
Approved:							

University: P. J.	. Šafárik Univers	ity in Košice					
Faculty: Faculty	y of Science						
Course ID: KPI TTUP/15	Course name: Creating Text Teaching Aids						
Course type, sc Course type: F Recommended Per week: 2 Pe Course method	ope and the met Practice I course-load (h er study period: d: present	hod: ours): 28					
Number of ECT	FS credits: 2						
Recommended	semester/trimes	ter of the cours	e: 2.				
Course level: II							
Prerequisities:							
Conditions for	course completi	on:					
Learning outco	mes:						
Brief outline of	the course:						
Recommended	literature:						
Course languag	ge:						
Notes:							
Course assessm Total number of	ent f assessed studen	ts: 170					
А	В	С	D	Е	FX		
58.82	58.82 27.65 8.82 3.53 1.18 0.0						
Provides: doc. H	PaedDr. Renáta C	Prosová, PhD.					
Date of last mo	dification: 08.06	.2021					
Approved:							

University: P. J.	Šafárik Univers	ity in Košice					
Faculty: Faculty	Faculty: Faculty of Science						
Course ID: KSSFaK/ KJPUAP/15	ourse ID: Course name: Culture of Spoken Discourse SSFaK/ JPUAP/15						
Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per week: 1 / 1 Per study period: 14 / 14 Course method: present							
Number of EC	l'S credits: 2						
Recommended	semester/trimes	ster of the cours	e: 1.				
Course level: II.	-						
Prerequisities:							
Conditions for o	course completi	on:					
Learning outco	mes:						
Brief outline of	the course:						
Recommended	literature:						
Course languag	ge:						
Notes:							
Course assessment Total number of assessed students: 0							
A	В	С	D	Е	FX		
0.0 0.0 0.0 0.0 0.0 0.0							
Provides: PhDr. Iveta Bónová, PhD.							
Date of last modification: 08.06.2021							
Approved:							

Faculty: Faculty of Science Course ID: KPPaPZ/VPU/17 Course name: Developmental Psychology for Teachers Course type, scope and the method: Course type, scope and the method: Course type. Practice Recommended course-load (hours): Per weck: 2 Per study period: 28 Course method: present Number of ECTS credits: 2 Recommended semester/trimester of the course: 1. Course level: II. Prerequisities: Conditions for course completion: Evaluation of participation in teaching, continuous evaluation of activity in seminars, evaluation of seminar work, Condition of participation in teaching, continuous evaluation of activity in seminars, evaluation of seminar work, Learning outcomes: The graduate will understand the principles of developmental psychology, and will be able to characterize the norm in separate developmental stages with a specific focus on the period of school age and adolescence. As part of the seminar work, a students will process current knowledge published in foreign journals. They will have a knowledge about the current social discourse on the topics covered. The graduate will be able to consider various suspects of the possible influence of parents and friends on the development of piupils and apply the knowledge of developmental psychology in the practice of the teacher. Brief outline of the course: Determinants and factors of developmental stages (family, peers, school). Specifics of development in the period of school age, in pubsecence and adolescence. Parents and their role in child development. Application of knowledge of developmental psycholology in the teacher's practice - communica	University: P. J. Šafán	rik University in Košice
Course ID: KPPaPZ/VPU/17 Course name: Developmental Psychology for Teachers Course type; scope and the method: Course type: Practice Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: present Recommended semester/trimester of the course: 1. Number of ECTS credits: 2 Recommended semester/trimester of the course: 1. Course level: II. Prerequisities: Prerequisities: Conditions for course completion: Evaluation of participation in teaching, continuous evaluation of activity in seminars, evaluation of seminar work. Learning outcomes: The graduate will understand the principles of developmental psychology, and will be able to characterize the norm in separate developmental stages with a specific focus on the period of school age and adolescence. As part of the seminar work, a students will process current knowledge published in foreign journals. They will have a knowledge about the current social discourse on the topics covered. The graduate will be able to consider various aspects of the possible influence of parents and friends on the development, cognitive development, personality development, socialization in separate development, cognitive development, personality development. Socialization in separate development, cognitive development, personality development, socialization in separate development adolescence. Apart of adolescence. Arent and adolescence. Arents and their role in child development. Application of knowledge of developmental stages, creating a teacher-student relationship with respect to the development needs of the student. Recommended titerature: Váganorová, M	Faculty: Faculty of S	cience
Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per weck: 2 Per study period: 28 Course method: present Number of ECTS credits: 2 Recommended semester/trimester of the course: 1. Course level: 11. Prerequisities: Conditions for course completion: Evaluation of participation in teaching, continuous evaluation of activity in seminars, evaluation of seminar work, Learning outcomes: The graduate will understand the principles of developmental psychology, and will be able to characterize the norm in separate developmental stages with a specific focus on the period of school age and adolescence. As part of the seminar work, a students will process current knowledge published in foreign journals. They will have a knowledge about the current social discourse on the topics covered. The graduate will be able to consider various aspects of the possible influence of parents and friends on the development, orgnitive development, personality developmental psychology in the practice of the teacher. Brief outline of the course: Determinants and factors of development, cognitive development, personality development, socialization in separate development adolescence. Parents and their role in child development aspechology in the teacher's practice - communication with students in different developmental stages, creating a teacher-student relationship with respect to the development needs of the student. Recourse and futerature: Vágnerová, M. Vývojová psychologie. Portál, Praha 2000 Ridard futerature: Vágne	Course ID: KPPaPZ/VPU/17	Course name: Developmental Psychology for Teachers
Number of ECTS credits: 2 Recommended semester/trimester of the course: 1. Course level: II. Prerequisities: Conditions for course completion: Evaluation of participation in teaching, continuous evaluation of activity in seminars, evaluation of seminar work, Learning outcomes: The graduate will understand the principles of developmental psychology, and will be able to characterize the norm in separate developmental stages with a specific focus on the period of school age and adolescence. As part of the seminar work, a students will process current knowledge published in foreign journals. They will have a knowledge about the current social discourse on the topics covered. The graduate will be able to consider various aspects of the possible influence of parents and friends on the development of piupils and apply the knowledge of developmental psychology in the practice of the teacher. Brief outline of the course: Determinants and factors of development, cognitive development, personality development. Socialization in separate developmental stages (family, peers, school). Specifics of development. Socialization in separate developmental stages (family, peers, school). Specifics of development relationship with respect to the development needs of the student. Recommended literature: Vágnerová, M. Vývojová psychologie. Portál, Praha 2000 Ričan, P. Cesta životem. Portál, Praha, 2004. Thorová, K. Vývojová psychologie. Portál, Praha, 2015. Macek, P. Adolescence. Praha: Portál, 2003 Matějček, Z rôzne diela <td>Course type, scope a Course type: Practic Recommended cour Per week: 2 Per stu Course method: pre</td> <th>nd the method: ce rse-load (hours): dy period: 28 esent</th>	Course type, scope a Course type: Practic Recommended cour Per week: 2 Per stu Course method: pre	nd the method: ce rse-load (hours): dy period: 28 esent
Recommended semester/trimester of the course: 1. Course level: II. Prerequisities: Conditions for course completion: Evaluation of participation in teaching, continuous evaluation of activity in seminars, evaluation of seminar work, Learning outcomes: The graduate will understand the principles of developmental psychology, and will be able to characterize the norm in separate developmental stages with a specific focus on the period of school age and adolescence. As part of the seminar work, a students will process current knowledge published in foreign journals. They will have a knowledge about the current social discourse on the topics covered. The graduate will be able to consider various aspects of the possible influence of parents and friends on the development of piupils and apply the knowledge of development. Socialization in separate development, cognitive development, personality development. Socialization in separate development, cognitive development, personality development. Socialization in separate developmental stages (family, peers, school). Specifics of development relationship with respect to the development needs of the student. Recommended literature: Vágnerová, M. Vývojová psychologie. Portál, Praha 2000 Řičan, P. Cesta životem. Portál, Praha, 2004. Thorová, K. Vývojová psychologie. Portál, Praha 2000 Řičan, P. Adolescence. Praha: Portál, 2003 Matějček, Z rôzne diela Course language: Notes:<	Number of ECTS cro	edits: 2
Course level: II. Prerequisities: Conditions for course completion: Evaluation of participation in teaching, continuous evaluation of activity in seminars, evaluation of seminar work, Learning outcomes: The graduate will understand the principles of developmental psychology, and will be able to characterize the norm in separate developmental stages with a specific focus on the period of school age and adolescence. As part of the seminar work, a students will process current knowledge published in foreign journals. They will have a knowledge about the current social discourse on the topics covered. The graduate will be able to consider various aspects of the possible influence of parents and friends on the development of piupils and apply the knowledge of developmental psychology in the practice of the teacher. Brief outline of the course: Determinants and factors of development, cognitive development, personality development. Socialization in separate developmental stages (family, peers, school). Specifics of development in the period of school age, in pubescence and adolescence. Parents and their role in child development. Application of knowledge of developmental stages, creating a teacher-student relationship with respect to the development needs of the student. Recommended literature: Vágnerová, M. Vývojová psychologie. Portál, Praha 2000 Říčan, P. Cesta životem. Portál, Praha, 2004. Thorová, K. Vývojová psychologie. Portál, Praha, 2015. Mack, P. Adolescence. Praha: Portál, 2003 Matějček, Z rôzne diela Course language: Notes: <td>Recommended seme</td> <th>ster/trimester of the course: 1.</th>	Recommended seme	ster/trimester of the course: 1.
Prerequisities: Conditions for course completion: Evaluation of participation in teaching, continuous evaluation of activity in seminars, evaluation of seminar work, Learning outcomes: The graduate will understand the principles of developmental psychology, and will be able to characterize the norm in separate developmental stages with a specific focus on the period of school age and adolescence. As part of the seminar work, a students will process current knowledge published in foreign journals. They will have a knowledge about the current social discourse on the topics covered. The graduate will be able to consider various aspects of the possible influence of parents and friends on the development of piupils and apply the knowledge of developmental psychology in the practice of the teacher. Brief outline of the course: Determinants and factors of development, cognitive development, personality development. Socialization in separate developmental stages (family, peers, school). Specifics of development in the period of school age, in pubescence and adolescence. Parents and their role in child development. Application of knowledge of developmental psychology in the teacher's practice - communication with students in different developmental stages, creating a teacher-student relationship with respect to the development needs of the student. Recommended literature: Vágnerová, M. Vývojová psychologie. Portál, Praha 2000 Ričan, P. Cesta životem. Portál, Praha, 2004. Thorová, K. Vývojová psychologie. Portál, Praha, 2015. Mack, P. Adolescence. Praha: Portál, 2003 Matějček, Z rôzne diela Course language: <td>Course level: II.</td> <th></th>	Course level: II.	
Conditions for course completion: Evaluation of participation in teaching, continuous evaluation of activity in seminars, evaluation of seminar work, Learning outcomes: The graduate will understand the principles of developmental psychology, and will be able to characterize the norm in separate developmental stages with a specific focus on the period of school age and adolescence. As part of the seminar work, a students will process current knowledge published in foreign journals. They will have a knowledge about the current social discourse on the topics covered. The graduate will be able to consider various aspects of the possible influence of parents and friends on the development of piupils and apply the knowledge of developmental psychology in the practice of the teacher. Brief outline of the course: Determinants and factors of development, cognitive development, personality development. Socialization in separate developmental stages (family, peers, school). Specifics of development in the period of school age, in pubescence and adolescence. Parents and their role in child development. Application of knowledge of developmental stages, creating a teacher-student relationship with respect to the development needs of the student. Recommended literature: Vágnerová, M. Vývojová psychologie. Portál, Praha 2000 Říčan, P. Cesta životem. Portál, Praha, 2004. Thorová, K. Vývojová psychologie. Portál, Praha, 2015. Macek, P. Adolescence. Praha: Portál, 2003 Matějček, Z rôzne diela Course language: Notes:	Prerequisities:	
Learning outcomes: The graduate will understand the principles of developmental psychology, and will be able to characterize the norm in separate developmental stages with a specific focus on the period of school age and adolescence. As part of the seminar work, a students will process current knowledge published in foreign journals. They will have a knowledge about the current social discourse on the topics covered. The graduate will be able to consider various aspects of the possible influence of parents and friends on the development of piupils and apply the knowledge of developmental psychology in the practice of the teacher. Brief outline of the course: Determinants and factors of development, cognitive development, personality development. Socialization in separate developmental stages (family, peers, school). Specifics of development in the period of school age, in pubescence and adolescence. Parents and their role in child development. Application of knowledge of developmental stages, creating a teacher-student relationship with respect to the development needs of the student. Recommended literature: Vágnerová, M. Vývojová psychologie. Portál, Praha 2000 Řičan, P. Cesta životem. Portál, Praha, 2004. Thorová, K. Vývojová psychologie. Portál, Praha, 2015. Macek, P. Adolescence. Praha: Portál, 2003 Matějček, Z rôzne diela Course language: Notes:	Conditions for cours Evaluation of particip of seminar work,	e completion: pation in teaching, continuous evaluation of activity in seminars, evaluation
 Brief outline of the course: Determinants and factors of development, cognitive development, personality development. Socialization in separate developmental stages (family, peers, school). Specifics of development in the period of school age, in pubescence and adolescence. Parents and their role in child development. Application of knowledge of developmental psychology in the teacher's practice - communication with students in different developmental stages, creating a teacher-student relationship with respect to the development needs of the student. Recommended literature: Vágnerová, M. Vývojová psychologie. Portál, Praha 2000 Říčan, P. Cesta životem. Portál, Praha, 2004. Thorová, K. Vývojová psychologie. Portál, Praha, 2015. Macek, P. Adolescence. Praha: Portál, 2003 Matějček, Z rôzne diela Course language: Notes: 	The graduate will ur characterize the norm school age and adoles published in foreign the topics covered. The of parents and friend psychology in the pra	inderstand the principles of developmental psychology, and will be able to in in separate developmental stages with a specific focus on the period of cence. As part of the seminar work, a students will process current knowledge journals. They will have a knowledge about the current social discourse on the graduate will be able to consider various aspects of the possible influence is on the development of piupils and apply the knowledge of developmental actice of the teacher.
Recommended literature:Vágnerová, M. Vývojová psychologie. Portál, Praha 2000Říčan, P. Cesta životem. Portál, Praha, 2004.Thorová, K. Vývojová psychologie. Portál, Praha, 2015.Macek, P. Adolescence. Praha: Portál, 2003Matějček, Z rôzne dielaCourse language:Notes:	Brief outline of the c Determinants and fa Socialization in separ in the period of sch development. Applic - communication wi relationship with resp	ourse: actors of development, cognitive development, personality development. rate developmental stages (family, peers, school). Specifics of development ool age, in pubescence and adolescence. Parents and their role in child ation of knowledge of developmental psychology in the teacher's practice th students in different developmental stages, creating a teacher-student beet to the development needs of the student.
Course language: Notes:	Recommended litera Vágnerová, M. Vývo Říčan, P. Cesta živote Thorová, K. Vývojov Macek, P. Adolescene Matějček, Z rôzne o	ture: jová psychologie. Portál, Praha 2000 em. Portál, Praha, 2004. á psychologie. Portál, Praha, 2015. ce. Praha: Portál, 2003 diela
Notes:	Course language:	
	Notes:	

Course assessment Total number of assessed students: 44							
А	A B C D E FX						
65.91	22.73	4.55	6.82	0.0	0.0		
Provides: Mgr. Mária Bačíková, PhD.							
Date of last modification: 24.06.2021							
Approved:							

University: P. J. Šafár	ik University in Košice
Faculty: Faculty of So	cience
Course ID: ÚMV/ DDMa/14	Course name: Didactics of mathematics
Course type, scope an Course type: Lecture Recommended cour Per week: 2 / 2 Per s Course method: pre	nd the method: e / Practice se-load (hours): study period: 28 / 28 sent
Number of ECTS cre	edits: 5
Recommended semes	ster/trimester of the course: 2.
Course level: II.	
Prerequisities:	
Conditions for course Continuous assessmen	e completion: nt - 60% of the total assessment, exam - 40% of the total assessment.
Learning outcomes: Master the basic prin schools. Gain knowle	ciples and methods of teaching of mathematics at primary and secondary dge of the various ways of teaching specific topics of school mathematics.
Brief outline of the co Subject of Didactics of Aims and objectives of Planning in mathemat Logical and didactical Determination of learn Didactical principles, Assessment of learning Mathematical problem Construction numeric	f Mathematics, the development of mathematics and mathematics education. of mathematics teaching tics teaching l curriculum analysis ning objectives methods of mathematics teaching ag outcomes, the creation of didactic tests ns fields, Theory of elementary functions, synthetic and analytic geometry
Recommended litera [1] M.Hejný a kol.: Te [2] L.Frantíková,K.He [3] R.Fischer,G.Malle [4] Polya, G.: How to [5] Hejný, M., Kuřina Portál, Praha 2001. (in	ture: eorie vyučovania matematiky, SPN Blava 1989, (in slovak) ončarivová,O.Kopanev: Didaktika matematiky, UPJŠ 1982 (in slovak) e: Človek a matematika, SPN Bratislava 1992 (in slovak) solve it, Princeton University Press, 1957. a, F.: Dítě, škola a matematika: Konstruktivistické přístupy k vyučování. n czech)
Course language: Slovak	
Notes:	

Course assessment Total number of assessed students: 76							
А	A B C D E FX						
44.74	31.58	15.79	5.26	2.63	0.0		
Provides: doc. RNDr. Dušan Šveda, CSc.							
Date of last modification: 03.05.2015							
Approved:							

University: P. J. Šafá	irik University in Košice
Faculty: Faculty of S	Science
Course ID: ÚMV/ DDMb/14	Course name: Didactics of mathematics
Course type, scope a Course type: Lectu Recommended cou Per week: 2 / 2 Per Course method: pr	ind the method: re / Practice irse-load (hours): study period: 28 / 28 esent
Number of ECTS c	redits: 4
Recommended seme	ester/trimester of the course: 3.
Course level: II.	
Prerequisities: ÚMV	//DDMa/14
Conditions for cour Seminar paper - 40% Written exam - 40% Homework - 20% of Evaluation A - at leas evaluation B - at least evaluation C at least evaluationD at least evaluationE rating of Credits shall not be g	se completion: o of the total score. of the total score. `the total score. st 90% points, st 80%, 70%, 60%, f at least 50% of the points. granted to a student who receives less than 50% of the points.
Learning outcomes: Students become fan teaching methods of of history of mathem focusing on the creat	niliar with some mathematical theories of education. They will acquire different selected topics of school mathematics. Become familiar with the potential use atics in teaching. Students will be prepared to work in the educational process, tive application of knowledge in mathematics.
Brief outline of the of Student learning pro Language of mathen Using history of mat Students' learning di Teaching mathematic Combinatorics, prob Calculus. Developing mathematic Recommended liter	course: cess. natics, enactive iconic and symbolic representation. hematics in the teaching mathematics. fficulties and their possible causes. cal proofs. ability, statistics. atical creativity. Motivation. ature: Feoria yayačovanja matematiky. SPNI Blava 1080
 [1] M.Hejny a Kol.: [2] Hejný, M., Kuřin Portál, Praha 2001. [3] Fischer, R., Mall [4] Učebnice a zbier 	a, F.: Dítě, škola a matematika: Konstruktivistické přístupy k vyučování. e, G.: Človek a matematika, SPN Bratislava 1992. ky úloh pre stredné a základné školy.

Course language: Slovak							
Notes:							
Course assessment Total number of assessed students: 77							
А	В	C	D	Е	FX		
71.43	15.58	10.39	1.3	1.3	0.0		
Provides: doc.]	Provides: doc. RNDr. Ingrid Semanišinová, PhD.						
Date of last modification: 03.05.2015							
Approved:							

University: P. J. Ša	fárik Univers	sity in Košice						
Faculty: Faculty of	Science							
Course ID: ÚCHV DCH1/15	Course ID: ÚCHV/ Course name: Didaktika chémie I DCH1/15							
Course type, scope Course type: Lect Recommended co Per week: 1 / 2 Pe Course method: p	and the me ure / Practice urse-load (h r study peri present	thod: e iours): iod: 14 / 28						
Number of ECTS	credits: 4							
Recommended sen	nester/trime	ster of the course	e: 2.					
Course level: II.								
Prerequisities: ÚC	HV/SPC1a/0	3						
Conditions for cou	rse complet	ion:						
Learning outcome	5:							
Brief outline of the	course:							
Recommended lite	rature:							
Course language:								
Notes:								
Course assessment Total number of ass	sessed studer	nts: 116						
A	В	C	D	Е	FX			
66.38 18.97 8.62 3.45 2.59 0.0								
Provides: doc. RNI	Dr. Mária Ga	najová, CSc., RN	Dr. Ivana Sotáko	ová, Ph.D.				
Date of last modifi	cation: 03.03	5.2015						
Approved:								

University: P. J. Š	afárik Univers	sity in Košice					
Faculty: Faculty of	f Science						
Course ID: ÚCHV DCH2/15	Course ID: ÚCHV/ Course name: Didaktika chémie II DCH2/15						
Course type, scop Course type: Lea Recommended c Per week: 1 / 2 P Course method:	e and the me eture / Practice ourse-load (h er study peri present	thod: e iours): iod: 14/28					
Number of ECTS	credits: 4		_				
Recommended se	mester/trime	ster of the cours	e: 3.				
Course level: II.							
Prerequisities: Ú	CHV/DCH1/1	5					
Conditions for co	urse complet	ion:					
Learning outcom	es:						
Brief outline of th	e course:						
Recommended lit	erature:						
Course language:							
Notes:							
Course assessmer Total number of a	it ssessed studer	nts: 108					
A	В	C	D	Е	FX		
77.78 13.89 6.48 1.85 0.0 0.0							
Provides: doc. RN	Dr. Mária Ga	najová, CSc., RN	Dr. Ivana Sotáko	vá, Ph.D.	L		
Date of last modif	fication: 03.0	5.2015					
Approved:							
University: P. J. Šafá	University: P. J. Šafárik University in Košice						
---	---	--	--	--	--	--	
Faculty: Faculty of S	cience						
Course ID: ÚMV/ DFR/10	Course name: Differential equations						
Course type, scope a Course type: Lectur Recommended cour Per week: 3 / 1 Per Course method: pre	Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per week: 3 / 1 Per study period: 42 / 14 Course method: present						
Number of ECTS cr	edits: 5						
Recommended seme	ster/trimester of the course: 1.						
Course level: I., II.							
Prerequisities:							
Conditions for cours Continuous assessme by continuous assess	te completion: Int is taken the form of two tests during the semester. Final evaluation is given ment (40%), written and oral part of the exam (30% and 30%).						
Learning outcomes: Theory of differentia numerous application is to familiarize study systems, and method them as possible mat	l equations is one of the fundamental areas of mathematical analysis. It has is in various fields of science and technology. The main objective of this course ents with the basics of the theory of ordinary differential equations and their s for solving certain types of differential equations and systems. We consider hematical models of real situations.						
Brief outline of the c Basic concepts. Eler equations. The existe of the first order, the equations of the n-th differential systems - of solutions to Cauch structure of general equations and system Euler differential equ	Brief outline of the course: Basic concepts. Elementary methods for solving and applications of the first order differential equations. The existence and uniqueness of solutions to Cauchy problem for differential equations of the first order, the n-th order and for differential systems. The relationship between differential equations of the n-th order and systems. Linear differential equations of the n-th order and global theorem on the existence and uniqueness of solutions to Cauchy problem, basic properties of solutions, fundamental system of solutions, structure of general solution, Lagrange method of variation of constants, linear differential equations. Euler differential equations Elimination method for solving the systems of differential equations.						
 Euler differential equations. Elimination method for solving the systems of differential equations. Recommended literature: L. Kluvánek, I. Mišík, M. Švec: Matematika II, SVTL, Bratislava, 1961 (in Slovak). J. Eliaš, J. Horváth, J. Kajan: Zbierka úloh z vyššej matematiky 3, Alfa, Bratislava, 1980 (in Slovak). S. J. Farlow: An introduction to differential equations and their applications, Dover Publications, New York, 2006. W. Kohler, L. Johnson: Elementary differential equations with boundary value problems, Pearson Education, Boston, 2006. M. Tenenbaum: Ordinary differential equations, Dover Publications, New York, 1985. J. C. Robinson: An introduction to ordinary differential equations, Cambridge University Press, Cambridge, 2004. 							

7. J. Polking, A. Boggess, D. Arnold: Differential equations, Prentice Hall (Pearson), Upper Saddle River, 2006.

Course langua Slovak	ge:					
Notes:	Notes:					
Course assess	nent					
Total number of	of assessed student	.s: 149				
А	В	С	D	Е	FX	
20.13	20.81	14.77	22.15	18.79	3.36	
Provides: Mgr. Jozef Kiseľák, PhD.						
Date of last modification: 03.05.2015						
Approved:	Approved:					

University: P. J. Šafa	arik Univers	ity in Košice			
Faculty: Faculty of S	Faculty: Faculty of Science				
Course ID: ÚCHV/ DTCU/15	V/ Course name: Digitálne technológie vo výučbe chémie				
Course type, scope a Course type: Lectu Recommended cou Per week: 2 / 2 Per Course method: pr	and the met re / Practice rse-load (h study perio esent	hod: ours): od: 28 / 28			
Number of ECTS ci	redits: 5				
Recommended sem	ester/trimes	ster of the course	e: 3.		
Course level: II.					
Prerequisities:					
Conditions for cour	se completi	on:			
Learning outcomes:					
Brief outline of the	course:				
Recommended liter	ature:				
Course language:					
Notes:				-	
Course assessment Total number of asse	essed studen	ts: 10			
A	В	С	D	Е	FX
100.0	0.0	0.0	0.0	0.0	0.0
Provides: doc. RND	r. Mária Gar	najová, CSc., RN	Dr. Ivana Sotáko	ová, Ph.D.	<u> </u>
Date of last modific	ation: 03.05	5.2015			
Approved:					

University: P. J. Šafá	rik University in Košice				
Faculty: Faculty of S	Faculty: Faculty of Science				
Course ID: ÚCHV/ DPP1/14	ourse ID: ÚCHV/ Course name: Diploma Project I PP1/14				
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present					
Number of ECTS cr	edits: 1				
Recommended seme	ster/trimester of the cours	e: 1.			
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 assessed students: 64					
	abs n				
100.0 0.0					
Provides:					
Date of last modification: 03.05.2015					
Approved:					

University: P. J. Šafá	rik University in Košice				
Faculty: Faculty of S	Faculty: Faculty of Science				
Course ID: ÚCHV/ DPP2/14	Course ID: ÚCHV/ Course name: Diploma Project II PP2/14				
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present					
Number of ECTS cr	edits: 2				
Recommended seme	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 assessed students: 63					
	abs n				
100.0 0.0					
Provides:					
Date of last modification: 03.05.2015					
Approved:					

University: P. J. Šafá	rik University in Košice			
Faculty: Faculty of S	Faculty: Faculty of Science			
Course ID: ÚCHV/ DPP3/14	Course ID: ÚCHV/ Course name: Diploma Project III DPP3/14			
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present				
Number of ECTS cr	edits: 2			
Recommended seme	ster/trimester of the cours	e: 3.		
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 assessed students: 66				
	abs n			
100.0 0.0				
Provides:				
Date of last modification: 03.05.2015				
Approved:				

University: P. J.	. Šafárik Univers	ity in Košice			
Faculty: Faculty	y of Science				
Course ID: ÚC DPOU/14	urse ID: ÚCHV/ Course name: Diploma Thesis and its Defence				
Course type, sc Course type: Recommended Per week: Per Course metho	ope and the met d course-load (h r study period: d: present	thod: ours):			
Number of EC	FS credits: 14				
Recommended	semester/trimes	ster of the cours	e:		
Course level: II					
Prerequisities:	ÚCHV/DPP3/14				
Conditions for	course completi	on:			
Learning outco	mes:				
Brief outline of	the course:				
Recommended	literature:				
Course languag	ge:				
Notes:					
Course assessment Total number of assessed students: 67					
А	В	С	D	Е	FX
80.6	16.42	2.99	0.0	0.0	0.0
Provides:					
Date of last modification: 03.05.2015					
Approved:	Approved:				

University: P. J. Šafá	rik University in Košice				
Faculty: Faculty of S	cience				
Course ID: ÚMV/ DPP2a/14	urse ID: ÚMV/ Course name: Diploma project I P2a/14				
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	nd the method: rse-load (hours): y period: esent				
Number of ECTS cro	edits: 1				
Recommended seme	ster/trimester of the cours	e: 1.			
Course level: II.					
Prerequisities:					
Conditions for cours	e completion:				
Learning outcomes:					
Brief outline of the c	ourse:				
Recommended litera	ture:				
Course language: Slovak					
Notes:					
Course assessment Total number of asses	Course assessment Total number of assessed students: 39				
	abs n				
100.0 0.0					
Provides: doc. RNDr. Dušan Šveda, CSc.					
Date of last modification: 03.05.2015					
Approved:					

University: P. J. Šafá	rik University in Košice				
Faculty: Faculty of Science					
Course ID: ÚMV/ DPP2b/14	// Course name: Diploma project II				
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	nd the method: rse-load (hours): ly period: esent				
Number of ECTS cr	edits: 2				
Recommended seme	ster/trimester of the cours	e: 2.			
Course level: II.					
Prerequisities: ÚMV	//DPP2a/14				
Conditions for cours	e completion:				
Learning outcomes:					
Brief outline of the c	ourse:				
Recommended litera	iture:				
Course language: Slovak					
Notes:					
Course assessment Total number of asses	Course assessment Total number of assessed students: 38				
	abs n				
100.0 0.0					
Provides: prof. RNDr. Jozef Doboš, CSc.					
Date of last modification: 03.05.2015					
Approved:					

University: P. J. Šafá	rik University in Košice			
Faculty: Faculty of Science				
Course ID: ÚMV/ DPP2c/14	Course name: Diploma project III			
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	nd the method: rse-load (hours): y period: esent			
Number of ECTS cr	edits: 2			
Recommended seme	ster/trimester of the cour	se: 3.		
Course level: II.				
Prerequisities: ÚMV	/DPP2b/14			
Conditions for cours	e completion:			
Learning outcomes:				
Brief outline of the c	ourse:			
Recommended litera	ture:			
Course language: Slovak				
Notes:				
Course assessment Total number of assessed students: 30				
	abs n			
100.0 0.0				
Provides:		·		
Date of last modification: 03.05.2015				
Approved:				

University: P. J. Šafá	University: P. J. Šafárik University in Košice			
Faculty: Faculty of S	Faculty: Faculty of Science			
Course ID: ÚCHV/ DSU1a/10	Course ID: ÚCHV/ Course name: Diplomový seminár z chémie pre XCH OSU1a/10			
Course type, scope a Course type: Practic Recommended cour Per week: 2 Per stu Course method: pre	Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: present			
Number of ECTS cr	edits: 2			
Recommended seme	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	ature:			
Course language:				
Notes:				
Course assessment Total number of assessed students: 11				
	abs n			
	100.0 0.0			
Provides: doc. RNDr. Mária Ganajová, CSc.				
Date of last modification: 03.05.2015				
Approved:				

× -				
University: P. J. Šafá	rik University in Košice			
Faculty: Faculty of S	Faculty: Faculty of Science			
Course ID: ÚCHV/	Course ID: ÚCHV/ Course name: Diplomový seminár z chémie pre XCH			
DSU1b/10				
Course type, scope a	nd the method:			
Course type: Practic	ce			
Recommended cou	rse-load (hours):			
Per week: 2 Per stu	dy period: 28			
Course method: pre	esent			
Number of ECTS cr	edits: 2			
Recommended seme	ster/trimester of the cours	e: 3.		
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 assessed students: 6				
	abs n			
	100.0 0.0			
Provides: doc. RNDr. Mária Ganajová, CSc.				
Date of last modification: 03.05.2015				
Approved:	Approved:			

University: P. J. Šafá	rik University in Košice
Faculty: Faculty of S	cience
Course ID: KPPaPZ/PUDU/15	Course name: Drug Addiction Prevention in Educational Practice
Course type, scope a Course type: Lectur Recommended cour Per week: 2 / 1 Per Course method: pre	nd the method: re / Practice rse-load (hours): study period: 28 / 14 esent
Number of ECTS cr	edits: 4
Recommended seme	ster/trimester of the course: 1., 3.
Course level: II.	
Prerequisities:	
Conditions for cours 1st part of the semes semester evaluation: preparation (10p) and of the evaluation - w 90p and the final grad less: FX. Detailed inf of the subject will be	Se completion: ter evaluation: active participation in the training part (30p). 2nd part of the active participation in workshops (20p) 3rd part of the semester evaluation - l implementation (10p) of block activities (20p, minimum 11 points). 4th part ritten knowledge exam (20p, minimum 11 points). In total, students can get de is as follows: 90 - 82: A 81 - 73: B 72 - 66: C 65 - 59: D 58 - 54: E 53 and formation in the electronic bulletin board of the course in AIS2. The teaching realized by a combined method.
Learning outcomes: The student understand and explain the detern use. Understands and non-substance addict The student is also a approaches in preven The student is able to in the field of drug u teacher and prevention	nds principals of research data based prevention of risk behavior, can describe minants of risk behavior as well as protective and risk factors for substance a dequately interprets the theory explaining the background of substance and ions. able to state and classify the types and forms of prevention, strategies and tion, can distinguish effective strategies from ineffective ones. apply the learned rules, procedures and competencies for the work of a teacher use prevention, as well as the acquired professional skills for the work of a on coordinator at school.
Brief outline of the c Psychological, pedag prevention Prevention of substar Primary, secondary a Universal, selective a Effective substance p Preparation and imple	gogical-psychological, medical and legal-forensic aspects of substance use nee use based on risk and resilience nd tertiary prevention of substance use and indicated prevention of substance use prevention strategies based on research data ementation of components of effective substance use prevention programs
Orosová, O. a kol. (2 internetu v školskej p	nure: 012). Základy prevencie užívania drog a problematického používania praxi. Košice: UPJŠ.

Sloboda, Z., & Bukoski, J. (Eds.). (2006). Handbook of Drug Abuse Prevention: Theory, Science, and Practice. New York: Springer.

National and international scientific journals.

Course language:

slovak

Notes:

Course assessment

Total number of assessed students: 321

А	В	С	D	Е	FX
50.78	40.19	8.1	0.93	0.0	0.0

Provides: prof. PhDr. Oľga Orosová, CSc., Mgr. Marta Dobrowolska Kulanová, PhD., Mgr. Lucia Barbierik, PhD., Mgr. Lenka Abrinková, Mgr. Frederika Lučanská, Mgr. Viera Čurová, Mgr. Marcela Štefaňáková, PhD.

Date of last modification: 25.06.2021

Approved:

University: P. J. Šafá	rik University in Košice
Faculty: Faculty of S	cience
Course ID: ÚMV/ DGE/10	Course name: Dynamic geometry
Course type, scope a Course type: Lectur Recommended course Per week: 1 / 2 Per Course method: press	nd the method: re / Practice rse-load (hours): study period: 14 / 28 esent
Number of ECTS cr	edits: 3
Recommended seme	ster/trimester of the course: 3.
Course level: II.	
Prerequisities:	
Conditions for course test using a computer	e completion: , didactic project and final exam
Learning outcomes: To acquire command Cabri 3D. To learn to objects and their attr relationships between	Is and the concept of dynamic constructions in the program Geogebra and o use a dynamic geometry environment for experimentation with geometric ibutes and the investigation of invariant properties of geometric figures and n objects in triangles, quadrilaterals, and conics basic solid figures.
Brief outline of the c Constructions and e use in solving cons Ptolemy's theorem, o of transformations in Mathematical modeli of extremes. The cross lines and solid figure support active learning	ourse: xploration of the properties of triangles, quadrilaterals, circles, and their truction tasks. Menelaus' theorem, Ceva's theorem, Varignon's theorem, cyclic and tangential quadrilaterals, the centre point of polygons. The use a solving tasks. Constructions of conics and their use in solving problems. ng and exploration of functional dependencies, solving problems for searching s positions of linear geometric shapes in space, cuts of solid figures, intersetion es. Analysis of the possibilities of using dynamic geometry environment to ng of mathematics.
Recommended litera 1. Vaníček, J.: Počíta Praze, 2009. 2. King, J., Schattsch and Research. The M 3. De Villiers, M., D. 2003.	nture: čové kognitivní technologie ve výuce geometrie. Univerzita Karlova v neider, D.: Geometry Turned On! Dynamic Software in Learning, Teaching, fathematical Association of America, 1997. : Rethinking proof with the Geometer's Sketchpad. Key Curriculum Press,
Course language: Slovak	
Notes:	

Course assessment Total number of assessed students: 39						
A B C D E FX						
48.72	30.77	12.82	7.69	0.0	0.0	
Provides: doc. RNDr. Stanislav Lukáč, PhD.						
Date of last modification: 03.05.2015						
Approved:	Approved:					

University: P. J.	. Šafárik Univers	ity in Košice					
Faculty: Faculty	y of Science						
Course ID: KPPaPZ/VP/09	Course ID: Course name: Educational Counselling						
Course type, sc Course type: I Recommended Per week: 2 Pe Course metho	ope and the met Practice d course-load (h er study period: d: present	hod: ours): 28					
Number of EC	I'S credits: 2						
Recommended	semester/trimes	ter of the cours	se: 2.				
Course level: II	•						
Prerequisities:							
Conditions for	course completi	on:					
Learning outco	omes:						
Brief outline of	the course:						
Recommended	literature:						
Course languag	ge:						
Notes:	,			-			
Course assessm Total number of	ient f assessed studen	ts: 162					
А	В	С	D	E	FX		
66.05	66.05 20.99 8.02 3.7 1.23 0.0						
Provides: PhDr.	. Anna Janovská,	PhD.	I	<u> </u>	I		
Date of last mo	dification: 28.06	.2021					
Approved:							

University: P. J.	. Šafárik Univers	ity in Košice					
Faculty: Faculty	y of Science						
Course ID: KP ZSP/15	Course ID: KPE/ Course name: Essentials of Special Education CSP/15						
Course type, sc Course type: I Recommended Per week: 2 Pe Course metho	ope and the met Lecture I course-load (h er study period: d: present	thod: ours): 28					
Number of EC	FS credits: 2						
Recommended	semester/trimes	ster of the cours	e: 3.				
Course level: II	•						
Prerequisities:							
Conditions for	course completi	on:					
Learning outco	mes:						
Brief outline of	the course:						
Recommended	literature:						
Course languag	ge:						
Notes:							
Course assessm Total number of	ent f assessed studen	ts: 429					
А	A B C D E FX						
54.55 26.34 13.05 4.66 1.17 0.23							
Provides: PaedDr. Michal Novocký, PhD.							
Date of last mo	dification: 08.06	5.2021					
Approved:							

University: P. J.	. Šafárik Univers	ity in Košice					
Faculty: Faculty	y of Science						
Course ID: KPI ZZP/12	se ID: KPE/ Course name: Experiential Education						
Course type, sc Course type: I Recommended Per week: 1 / 2 Course metho	ope and the met Lecture / Practice I course-load (h 2 Per study perio d: present	thod: ours): od: 14 / 28					
Number of EC	I'S credits: 4		1.0				
Recommended	semester/trimes	ster of the cours	e: 1., 3.				
Course level: II	•						
Prerequisities:							
Conditions for	course completi	on:					
Learning outco	mes:						
Brief outline of	the course:						
Recommended	literature:						
Course languag	ge:						
Notes:							
Course assessm Total number of	ent f assessed studen	ts: 299					
А	В	С	D	Е	FX		
47.16	47.16 37.12 13.71 2.01 0.0 0.0						
Provides: doc. I	PaedDr. Renáta C	Drosová, PhD.		<u>. </u>			
Date of last mo	dification: 08.06	5.2021					
Approved:							

University: P. J.	. Šafárik Univers	sity in Košice							
Faculty: Faculty	Faculty: Faculty of Science								
Course ID: ÚM GEO2b/10	se ID: ÚMV/ Course name: Geometry II 2b/10								
Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per week: 3 / 2 Per study period: 42 / 28 Course method: present									
Number of EC	FS credits: 6								
Recommended	semester/trime	ster of the cours	e: 1.						
Course level: II	•								
Prerequisities:									
Conditions for	course complet	ion:							
Learning outco To obtain know	mes: ledge about affin	ne, isometric, and	l similarity transf	formations and th	neir properties.				
 Quadric surfa Affine transfe and lines, pseud Isometric transfe Isometric transfe Similarity transfe Similarity transfe Geometry of pencils of circle Recommended M. Sekanina O. Šedivý et H.S.M. Coxe LT Smith M 	 Brief outline of the course: Quadric surfaces (circular and general quadric surfaces) Affine transformations (associated transformation, matrix representation, affinities, fixed points and lines, pseudo-reflections) Isometric transformations (matrix representation, isometries, classification in the plane, composition of reflections) Similarity transformations (matrix representation, similarities, homothety, composition of homotheties) Geometry of circles (the power of a point with respect to a circle, radical axis of two circles, pencils of circles) Recommended literature: M. Sekanina et al, Geometry 2, SPN, 1988 (in slovak). O. Šedivý et al, Geometry 2, SPN, 1987 (in slovak). 								
Course language: Slovak									
Notes:									
Course assessment Total number of assessed students: 115									
А	В	C	D	Е	FX				
17.39 17.39 23.48 17.39 21.74 2.61									
Provides: RND	Provides: RNDr. Igor Fabrici, Dr. rer. nat., RNDr. Veronika Hubeňáková, PhD.								
Date of last mo	dification: 03.0	5.2015							
-									

Approved:

University: P. J	University: P. J. Šafárik University in Košice							
Faculty: Facult	y of Science							
Course ID: ÚM GEO2c/10	V/ Course na	V/ Course name: Geometry III						
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 EC	FS credits: 4							
Recommended	semester/trimes	ster of the cours	e: 2.					
Course level: II	•							
Prerequisities:								
Conditions for	course completi	ion:						
Learning outco A new look on	mes: the classical geo	metric results.						
 Points and I interest, the inc Properties of Simson lines, P Collinearity Brahmagupta's Focal propert Inversion with Recommended H.S.M. Coxe R.A. Johnsor A.V. Akopya D.A. Brannat 	 Brief outline of the course: Points and lines connected with a triangle (Menelaus's theorem, Ceva's theorem, points of interest, the incircle and excircles, pedal triangles, Euler line, nine-point circle) Properties of circles (the power of a point with respect to a circle, radical axis of two circles, Simson lines, Ptolemy's theorem, Morley's theorem) Collinearity and concurrence (quadrangles, Varignon's parallelogram, cyclic quadrangles, Brahmagupta's formula, Napoleon triangles) Focal properties of regular conics (Dandelin spheres, tangents and directrix of a regular conic) Inversion with respect to a circle (basic properties, composition of inversions and homotheties) Recommended literature: H.S.M. Coxeter, S.L. Greitzer, Geometry revisited, MAA, 1967. R.A. Johnson, Advanced Euclidean geometry, Dover Publ., 2007. A.V. Akopyan, A.A. Zaslavsky, Geometry of conics, AMS, 2007. 							
Course languag Slovak	ge:							
Notes:	Notes:							
Course assessment Total number of assessed students: 107								
A	В	C	D	E	FX			
22.43 27.1 29.91 10.28 10.28 0.0								
Provides: RND	r. Igor Fabrici, D	r. rer. nat.						
Date of last mo	dification: 03.05	5.2015						

Approved:

University: P. J. Šafá	rik University in Košice
Faculty: Faculty of S	cience
Course ID: KPPaPZ/UPN/17	Course name: Introduction into Psychology of Religion
Course type, scope a Course type: Practi Recommended cou Per week: 2 Per stu Course method: pro	and the method: ce rse-load (hours): ady period: 28 esent
Number of ECTS cr	redits: 2
Recommended seme	ester/trimester of the course: 2.
Course level: II.	
Prerequisities:	
Conditions for cours The assessment is ba distance format. Up- found on the electron	se completion: used on the interim evaluation. The subject will be taught in both present and to-date information concerning the subject for the given academic year can be nic board of the subject in the Academic information system of the UPJŠ.
Learning outcomes: The aim of the subjection of the field of research knowlege need for or critical thinking as we disciplines.	ect is to gain a basic overview of the origin and current state of knowledge ch and application of the psychology of religion. Students will aquire basic rientation in the field and emphasis will be given to individual reflection and rell as application of already acquired knowledge from other (psychological)
Brief outline of the of 1. History of psychol 2. Psychological pers 3. Psychology of reli 4. Basic approaches 5. Different types of 6. Psychological view 7. Spirituality versus 8. Coping in the cont 9. Psychotherapy and	course: logy of religion in national and world context spective on religion and religious experience gion in an interdisciplinary context to psychological interpretation and selected views religious experience w of religion from a biodromal perspective religiosity in a postmodern society text of religiosity d religion, pastoral psychology
Recommended litera Eliade, M. (1994). Po Eliade, M. (1995). D Freud, S. (1999). Nu Praha: Psychoanalyti Fromm, E. (2003). P Erikson, E. (1996). M Psychoanalytické nal James, W. (1930). Da Jung, C. G. (1993). A	ature: osvátné a profánní. Praha: Česká křesťanská akademie. ějiny náboženského myšlení 1. Praha: Oikoymenh. tkavá jednání a náboženské úkony. In Freud, S., Spisy z let 1906–1909. cké nakladatelství. sychoanalýza a náboženství. Praha: Aurora Aladý muž Luther: studie psychoanalytická a historická. Praha: kladatelství. ruhy náboženské zkušenosti. Praha: Melantrich. Analytická psychologie: Její teorie a praxe. Praha: Academia.

Křivohlavý, J. (Pargament, K. (Říčan, P. (2007) Říčan P. (2002) Stríženec, M. (2	(2000). Pastoráln (1997), Psycholo). Psychologie ná , Psychologie ná 2001) Súčasná ps	í péče. Praha: O gy of religion an boženství a spir boženství, Portá ychológia nábož	liva Id coping, ituality. Praha: Po I, Praha, tenstva	ortál.			
Course languag	ge:						
Notes:							
Course assessm Total number o	nent f assessed studen	ts: 25					
A	В	С	D	Е	FX		
100.0	100.0 0.0 0.0 0.0 0.0						
Provides: Mgr. Jozef Benka, PhD. et PhD.							
Date of last modification: 25.06.2021							
Approved:							

Faculty: Faculty of Science

Course ID: ÚCHV/ **Course name:** Introduction to Environmental Chemistry UECH/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: 1., 3.

Course level: I., II.

Prerequisities:

Conditions for course completion:

Oral examination

Learning outcomes:

Introduction to topics in environmental chemistry and basic procedures applied for environmental protection.

Brief outline of the course:

Introduction to Environmental Chemistry

Chemical aspects of pollution and environmental problems. Composition and behavior of the atmosphere. Energy balance of the Earth and climate changes. Principles of photochemistry, photoprocesses in the atmosphere. Petroleum, hydrocarbons and coal (characteristics, sources and environmental pollution). Soaps, polymers and synthetic surfactants. Haloorganics and pesticides. Environmental chemistry of some important elements (C, N, S, P, halogens, biologically important metals ...). Environmental chemistry in aqueous media. Aqueous systems, parameters, cycles and their protection. The Earth's crust (rocks, minerals, soils). Natural and artificial radioactivity, utilization. Energy and energy sources (fossil fuels, nuclear, geothermal, solar energy, wind and water energy). Solid waste disposal and recycling.

Recommended literature:

1. Gary W. van Loon, Stephen J. Duffy : Environmental Chemistry - A Global Perspective, Oxford University Press, Oxford 2003

2. R.A. Bailey, H.M. Clark, J.P. Ferris, S. Krause, R.L. Strong : Chemistry of the Environment, Academic Press, San Diego 2002

- 3. G. Schwedt: The Essential Guide to Environmental Chemistry, Wiley and Sons, London 2001
- 4. R.N. Reeve, J.D. Barnes: General Environmental Chemistry, Wiley, London 1994

5. G. Burton, J. Holman, G. Pilling, D. Waddington: Chemical Storylines, Heinemann, Oxford, London 1994

6. www

Course language:

Notes:

Course assessment Total number of assessed students: 216						
A B C D E FX					FX	
49.54	49.54 20.83 15.28 8.33 6.02 0.0					
Provides: doc. RNDr. Andrea Straková Fedorková, PhD.						
Date of last modification: 20.09.2017						
Approved:						

University: P. J. Safái	rik University in Košic
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Faculty: Faculty of Science

Course ID: ÚCHV/ **Course name:** Introduction to Material Chemistry FUMCH1/03

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: 1., 3.

Course level: I., II.

Prerequisities:

Conditions for course completion:

Seminar work.

Examination.

Learning outcomes:

To present the different types of functional materials, their atomic structure and mechanical properties.

Brief outline of the course:

Historical perspectives. Materials and human being. Participation of natural science in material engineering. Material revolutions. Classification of materials. Atomic structure and interatomic bonding. Amorphous and crystalline materials. Mechanics of materials. Imperfections in solids. Crystal lattice defects. Point defects. Line defects. Dislocations. Diffusion. Diffusion mechanisms. Deformations and failures, re-crystallization. Deformations. Plastic deformations. Solid solutions. Intermediary phases. Phases in ceramic systems. Phase transformations. Crystallization of metals. Phase identification methods. Stress and strain. Structure of metallic and ceramic materials. Alloys. Steel. Light metals. Metallic glasses. Gold. Inorganic non-metallic materials. Ceramic construction materials. Ceramic tools. Bio-ceramics. Ceramics in cosmos. High-temperature superconductors. Glass. Building binders. Polymers. Essence of polymers. Thermoplastics. Reactoplastics. Polymer structure. Mechanical properties of polymers. Natural materials. Wood. Bones. Teeth. Conchs and shells. Tectrices.

Recommended literature:

W. D. Callister, Jr.: Fundamentals of Materials Science and Engineering, John Wiley & Sons, 2001.

Brian S. Mitchell: An Introduction to Materials Engineering and Science: For Chemical and Materials Engineers, John Wiley & Sons, 2004.

Course language:

Notes:

Course assessment Total number of assessed students: 77						
A B C D E FX					FX	
89.61	89.61 9.09 0.0 0.0 0.0 1.3					
Provides: prof. RNDr. Renáta Oriňaková, DrSc.						
Date of last modification: 20.09.2017						
Approved:						

University: P. J.	. Šafárik Univers	ity in Košice			
Faculty: Faculty	y of Science				
Course ID: ÚM DPU/14	V/ Course na	V/ Course name: Magister thesis and its defense			
Course type, sc Course type: Recommended Per week: Per Course metho	ope and the met d course-load (h r study period: d: present	thod: ours):			
Number of ECT	FS credits: 15				
Recommended	semester/trimes	ster of the cours	e:		
Course level: II					
Prerequisities:					
Conditions for	course completi	on:			
Learning outco	mes:				
Brief outline of	the course:				
Recommended	literature:				
Course languag Slovak	ge:				
Notes:	Notes:				
Course assessm Total number of	ent f assessed studen	ts: 30			
А	В	С	D	Е	FX
76.67	76.67 10.0 3.33 6.67 3.33 0.0				
Provides:	Provides:				
Date of last mo	dification: 03.05	5.2015			
Approved:	Approved:				

Faculty of Science Course ID: ÚMV/ MST/19 Course name: Mathematical statistics Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per weck: 2/ 2 Per study period: 28 / 28 Course method: present Image: Course type: Lecture / Practice Number of ECTS credits: 5 Recommended semester/trimester of the course: 1. Course level: L, II. Prerequisities: Conditions for course completion: To obtain at least 50% in two written tests during the semester. Total evaluation based on written tests and oral exam. Learning outcomes: Student should obtain the knowledge about basic statistical methods and the ability to apply theoretical knowledge in practical problems solving. Brief outline of the course: Random vectors, their distributions and characteristics. Joint and marginal distributions. Correlation and regression, properties of correlation coefficient. Random sample, sampling distributions and characteristics. Some important statistics and their distributions. Point estimators and their properties. Maximum likelihood method. Interval estimates, confidence interval construction. Testing of statistical hypothesis, critical region, level of significance. Methods for searching optimal critical regions. Some important parametric and nonparametric tests. Recommended literature: 1. Skrivánková V Pravdepodobnosť v prikladoch, UPJŠ, Košice, 2006 (in Slovak) Skrivánková V Bracóvá M.: Štatistika v prikladoch, UPJŠ, Košice, 2006 (in Slovak)	University: P. J	University: P. J. Šafárik University in Košice				
Course ID: ÚMV/ MST/19 Course name: Mathematical statistics 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 ECTS credits: 5 Recommended semester/trimester of the course: 1. Course level: 1, II. Prerequisities: Conditions for course completion: To obtain at least 50% in two written tests during the semester. Total evaluation based on written tests and oral exam. Learning outcomes: Student should obtain the knowledge about basic statistical methods and the ability to apply theoretical knowledge in practical problems solving. Brief outline of the course: Random vectors, their distributions and characteristics. Joint and marginal distributions. Correlation and regression, properties of correlation coefficient. Random sample, sampling distributions and heir argeion, level of significance. Methods for searching optimal critical regions. Some important statistics and their distributions. Point estimators and their properties. Maximum likelihood method. Interval estimates, confidence interval construction. Testing of statistical hypothesis, critical region, level of significance. Methods for searching optimal critical regions. Some important parametric and nonparametric tests. Recommended literature: 1. Skrivánková V.: Pravdepodobnosť v prikladoch, UPJŠ, Košice, 2006 (in Slovak) 2. Skrivánková V.: Hancé P.E. Mind of Statistica. Meth. dJ, Parson, Boston, 2012 3. CASELLA, G., BERGER, R., Statistical Inference, 2nd ed., Duxbury Press, 2002 4. DeCroot, M. H., Scherv	Faculty: Faculty of Science					
Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per weck: 2 / 2 Per study period: 28 / 28 Course method: present Number of ECTS credits: 5 Recommended semester/trimester of the course: 1. Course level: 1, II. Prerequisities: Conditions for course completion: To obtain at least 50% in two written tests during the semester. Total evaluation based on written tests and oral exam. Learning outcomes: Student should obtain the knowledge about basic statistical methods and the ability to apply theoretical knowledge in practical problems solving. Brief outline of the course: Random vectors, their distributions and characteristics. Joint and marginal distributions. Correlation and regression, properties of correlation coefficient. Random sample, sampling distributions and characteristics. Some important statistics and their distributions, confidence interval estimators, confidence interval construction. Testing of statistical hypothesis, critical region, level of significance. Methods for searching optimal critical regions. Some important parametric and nonparametric tests. Recommended literature: 1. Stirvänková V: Pravdepodobnosť v prikladoch, UPJŠ, Košice, 2006 (in Slovak) 2. Skfivánková VHančová M. : Štatistika l príkladoch, UPJŠ, Košice, 2005 (in Slovak) 2. Skfivánková VHančová M. : Štatistika v príkladoch, UPJŠ, Košice, 2005 (in Slovak) 3. CASELLA, G, BERGER, R., Statisticial Inference, 2nd ed., Duxbury Press, 2002 <	Course ID: ÚM MST/19	MV/ Course name: Mathematical statistics				
Number of ECTS credits: 5 Recommended semester/trimester of the course: 1. Course level: 1., II. Prerequisities: Conditions for course completion: To obtain at least 50% in two written tests during the semester. Total evaluation based on written tests and oral exam. Lcarning outcomes: Student should obtain the knowledge about basic statistical methods and the ability to apply theoretical knowledge in practical problems solving. Brief outline of the course: Random vectors, their distributions and characteristics. Joint and marginal distributions. Correlation and regression, properties of correlation coefficient. Random sample, sampling distributions and characteristics. Some important statistics and their distributions. Point estimators and their properties. Maximum likelihood method. Interval estimates, confidence interval construction. Testing of statistical hypothesis, critical region, level of significance. Methods for searching optimal critical regions. Some important parametric and nonparametric tests. Recommended literature: 1. Skrivánková V: Pravdepodobnosť v príkladoch, UPJŠ, Košice, 2006 (in Slovak) 2. Skrivánková V: Pravdepodobnosť v príkladoch, UPJŠ, Košice, 2005 (in Slovak) 2. 3. CASELLA, G, BERGER, R., Statistical Inference, 2nd ed., Duxbury Press, 2002 4. DeGroot, M. H., Schervish, M. J: Probability and Statistics, 4th ed., Pearson, Boston, 2012 5. Utik, J.M., Heckard, R.F.: Mind od Statistics, 5th ed., Thomson Brooks/Cole, 2014 6. Andel J.: Základy matematické statistiky, MatfyzPress, Praha,	Course type, sc Course type: 1 Recommended Per week: 2 / 2 Course metho	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				
Recommended semester/trimester of the course: 1. Course level: I., II. Prerequisities: Conditions for course completion: To obtain at least 50% in two written tests during the semester. Total evaluation based on written tests and oral exam. Learning outcomes: Student should obtain the knowledge about basic statistical methods and the ability to apply theoretical knowledge in practical problems solving. Brief outline of the course: Random vectors, their distributions and characteristics. Joint and marginal distributions. Correlation and regression, properties of correlation coefficient. Random sample, sampling distributions and characteristics. Some important statistics and their distributions. Point estimators and their properties. Maximum likelihood method. Interval estimates, confidence interval construction. Testing of statistical hypothesis, critical region, level of significance. Methods for searching optimal critical regions. Some important parametric and nonparametric tests. Recommended literature: I. Skrivánková V.: Pravdepodobnosť v prikladoch, UPJŠ, Košice, 2006 (in Slovak) Skitvánková V.: Hančová M.: Štatistika v prikladoch, UPJŠ, Košice, 2005 (in Slovak) Skrivánková V.: Hančová M.: Štatistika v prikladoch, UPJŠ, Košice, 2005 (in Slovak) Skrivánková V.: Hančepodobnosť v prikladoch, UPJŠ, Košice, 2006 (in Slovak) Skrivánková V.	Number of EC	FS credits: 5				
Course level: 1., II. Prerequisities: Conditions for course completion: To obtain at least 50% in two written tests during the semester. Total evaluation based on written tests and oral exam. Learning outcomes: Student should obtain the knowledge about basic statistical methods and the ability to apply theoretical knowledge in practical problems solving. Brief outline of the course: Random vectors, their distributions and characteristics. Joint and marginal distributions. Correlation and regression, properties of correlation coefficient. Random sample, sampling distributions and characteristics. Some important statistics and their distributions. Point estimators and their properties. Maximum likelihood method. Interval estimates, confidence interval construction. Testing of statistical hypothesis, critical region, level of significance. Methods for searching optimal critical regions. Some important parametric and nonparametric tests. Recommended literature: 1. Skřivánková V.: Pravdepodobnosť v príkladoch, UPJŠ, Košice, 2006 (in Slovak) 2. Skřivánková V.: Hančová M.: Štatistika v príkladoch, UPJŠ, Košice, 2005 (in Slovak) 3. CASELLA, G., BERGER, R., Statistical Inference, 2nd ed., Duxbury Press, 2002 4. DeGroot, M. H., Schervish, M. J.: Probability and Statistics, 4th ed., Pearson, Boston, 2012 5. Uts, J.M., Heckard, R.F.: Mind od Statistics, 5th ed., Thomson Brooks/Cole, 2014 6. Anděl J.: Základy matematické	Recommended	semester/trimes	ster of the cours	e: 1.		
Prerequisities: Conditions for course completion: To obtain at least 50% in two written tests during the semester. Total evaluation based on written tests and oral exam. Learning outcomes: Student should obtain the knowledge about basic statistical methods and the ability to apply theoretical knowledge in practical problems solving. Brief outline of the course: Random vectors, their distributions and characteristics. Joint and marginal distributions. Correlation and regression, properties of correlation coefficient. Random sample, sampling distributions and characteristics. Some important statistics and their distributions. Point estimators and their properties. Maximum likelihood method. Interval estimates, confidence interval construction. Testing of statistical hypothesis, critical region, level of significance. Methods for searching optimal critical regions. Some important parametric and nonparametric tests. Recommended literature: 1. Skřivánková V: Pravdepodobnosť v príkladoch, UPJŠ, Košice, 2006 (in Slovak) 2. Skřivánková V: Pravdepodobnosť v príkladoch, UPJŠ, Košice, 2006 (in Slovak) 3. CASELLA, G., BERGER, R., Statistical Inference, 2nd ed., Duxbury Press, 2002 4. DeGroot, M. H., Schervish, M. J.: Probability and Statistics, 4th ed., Pearson, Boston, 2012 5. Utts, J.M., Heckard, R.F.: Mind od Statistics, 5th ed., Thomson Brooks/Cole, 2014 6. Anděl J.: Základy matematické statistiky, MatfyzPress, Praha, 2011 (in Czech) Course language: Slovak Notes: 20. D E FX 20.8 21.6<	Course level: I.	, II.				
Conditions for course completion: To obtain at least 50% in two written tests during the semester. Total evaluation based on written tests and oral exam. Learning outcomes: Student should obtain the knowledge about basic statistical methods and the ability to apply theoretical knowledge in practical problems solving. Brief outline of the course: Random vectors, their distributions and characteristics. Joint and marginal distributions. Correlation and regression, properties of correlation coefficient. Random sample, sampling distributions and characteristics. Some important statistics and their distributions. Point estimators and their properties. Maximum likelihood method. Interval estimates, confidence interval construction. Testing of statistical hypothesis, critical region, level of significance. Methods for searching optimal critical regions. Some important parametric and nonparametric tests. Recommended literature: 1 1. Skřivánková V: Pravdepodobnosť v príkladoch, UPJŠ, Košice, 2006 (in Slovak) 2. Skřivánková V: Pravdepodobnosť v príkladoch, UPJŠ, Košice, 2005 (in Slovak) 3. CASELLA, G., BERGER, R., Statistical Inference, 2nd ed., Duxbury Press, 2002 4. DeGroot, M. H., Schervish, M. J.: Probability and Statistics, 4th ed., Pearson, Boston, 2012 5. Utts, J.M., Heckard, R.F.: Mind od Statistics, 5th ed., Thomson Brooks/Cole, 2014 6. Anděl J.: Základy matematické statistiky, MatfyzPress, Praha, 2011 (in Czech) Course language: Slovak	Prerequisities:					
Learning outcomes: Student should obtain the knowledge about basic statistical methods and the ability to apply theoretical knowledge in practical problems solving. Brief outline of the course: Random vectors, their distributions and characteristics. Joint and marginal distributions. Correlation and regression, properties of correlation coefficient. Random sample, sampling distributions and characteristics. Some important statistics and their distributions. Point estimators and their properties. Maximum likelihood method. Interval estimates, confidence interval construction. Testing of statistical hypothesis, critical region, level of significance. Methods for searching optimal critical regions. Some important parametric and nonparametric tests. Recommended literature: 1. Skřivánková V.: Pravdepodobnosť v príkladoch, UPJŠ, Košice, 2006 (in Slovak) 2. Skřivánková V.: Pravdepodobnosť v príkladoch, UPJŠ, Košice, 2005 (in Slovak) 3. CASELLA, G., BERGER, R., Statistical Inference, 2nd ed., Duxbury Press, 2002 4. DeGroot, M. H., Schervish, M. J.: Probability and Statistics, 4th ed., Pearson, Boston, 2012 5. Utts, J.M., Heckard, R.F.: Mind od Statistics, 5th ed., Thomson Brooks/Cole, 2014 6. Anděl J.: Základy matematické statistiky, MatfyzPress, Praha, 2011 (in Czech) Course language: Slovak Notes: Základy matematické statistiky, MatfyzPress, Praha, 2011 (in Czech) Notes:	Conditions for To obtain at least tests and oral est	course completi st 50% in two w cam.	on: ritten tests during	g the semester. T	Total evaluation b	based on written
Brief outline of the course: Random vectors, their distributions and characteristics. Joint and marginal distributions. Correlation and regression, properties of correlation coefficient. Random sample, sampling distributions and characteristics. Some important statistics and their distributions. Point estimators and their properties. Maximum likelihood method. Interval estimates, confidence interval construction. Testing of statistical hypothesis, critical region, level of significance. Methods for searching optimal critical regions. Some important parametric and nonparametric tests. Recommended literature: 1. 1. Skřivánková V.: Pravdepodobnosť v príkladoch, UPJŠ, Košice, 2006 (in Slovak) 2. Skřivánková V.: Pravdepodobnosť v príkladoch, UPJŠ, Košice, 2005 (in Slovak) 3. CASELLA, G., BERGER, R., Statistical Inference, 2nd ed., Duxbury Press, 2002 4. DeGroot, M. H., Schervish, M. J.: Probability and Statistics, 4th ed., Pearson, Boston, 2012 5. Uts, J.M., Heckard, R.F.: Mind od Statistics, 5th ed., Thomson Brooks/Cole, 2014 6. Anděl J.: Základy matematické statistiky, MatfyzPress, Praha, 2011 (in Czech) Course assessment Total number of assessed students: 125 A B C D E FX 20.8 21.6 15.2 21.6 13.6 7.2	Learning outco Student should theoretical know	Learning outcomes: Student should obtain the knowledge about basic statistical methods and the ability to apply theoretical knowledge in practical problems solving.				
Recommended literature:1. Skřivánková V.: Pravdepodobnosť v príkladoch, UPJŠ, Košice, 2006 (in Slovak)2. Skřivánková VHančová M.: Štatistika v príkladoch, UPJŠ, Košice, 2005 (in Slovak)3. CASELLA, G., BERGER, R., Statistical Inference, 2nd ed., Duxbury Press, 20024. DeGroot, M. H., Schervish, M. J.: Probability and Statistics, 4th ed., Pearson, Boston, 20125. Utts, J.M., Heckard, R.F.: Mind od Statistics, 5th ed., Thomson Brooks/Cole, 20146. Anděl J.: Základy matematické statistiky, MatfyzPress, Praha, 2011 (in Czech)Course language: SlovakSlovakNotes:Course assessment Total number of assessed students: 125ABCDEFX20.821.615.221.613.67.2	Brief outline of the course: Random vectors, their distributions and characteristics. Joint and marginal distributions. Correlation and regression, properties of correlation coefficient. Random sample, sampling distributions and characteristics. Some important statistics and their distributions. Point estimators and their properties. Maximum likelihood method. Interval estimates, confidence interval construction.Testing of statistical hypothesis, critical region, level of significance. Methods for searching optimal critical regions. Some important parametric and nonparametric tests					
Course language: SlovakNotes:Course assessment Total number of assessed students: 125ABCDEFX20.821.615.221.613.67.2	 Recommended literature: 1. Skřivánková V.: Pravdepodobnosť v príkladoch, UPJŠ, Košice, 2006 (in Slovak) 2. Skřivánková VHančová M.: Štatistika v príkladoch, UPJŠ, Košice, 2005 (in Slovak) 3. CASELLA, G., BERGER, R., Statistical Inference, 2nd ed., Duxbury Press, 2002 4. DeGroot, M. H., Schervish, M. J.: Probability and Statistics, 4th ed., Pearson, Boston, 2012 5. Utts, J.M., Heckard, R.F.: Mind od Statistics, 5th ed., Thomson Brooks/Cole, 2014 6. Anděl J.: Základy matematické statistiky, MatfyzPress, Praha, 2011 (in Czech) 					
Notes:Course assessmentTotal number of assessed students: 125ABCDEFX20.821.615.221.613.67.2	Course language: Slovak					
Course assessment Total number of assessed students: 125ABCDEFX20.821.615.221.613.67.2	Notes:	Notes:				
A B C D E FX 20.8 21.6 15.2 21.6 13.6 7.2	Course assessm Total number of	ient f assessed studen	ts: 125			
20.8 21.6 15.2 21.6 13.6 7.2	A	В	С	D	Е	FX
	20.8	21.6	15.2	21.6	13.6	7.2

Provides: RNDr. Martina Hančová, PhD.

Date of last modification: 18.03.2019

Approved:

University: P. J. Š	Šafárik Univers	ity in Košice			
Faculty: Faculty	of Science				
Course ID: ÚMV MDM/14	7/ Course na	Course name: Mathematics and didactics of mathematics			
Course type, scop Course type: Recommended Per week: Per s Course method:	pe and the met course-load (h study period: : present	thod: ours):			
Number of ECTS	S credits: 1				
Recommended se	emester/trimes	ster of the cours	e:		
Course level: II.					
Prerequisities: Ú	MV/DDMa/14	,ÚMV/DDMb/14	1		
Conditions for co Acquiring the req	ourse completi Juired number o	on: of credits in the s	tructure defined	by the study plan	1.
Learning outcom Evaluation of stud	nes: dent's compete	nces with respect	t to the profile o	f the graduate.	
Brief outline of t	he course:				
Recommended li	terature:				
Course language Slovak	:				
Notes:					
Course assessme Total number of a	nt assessed studen	ts: 75			
A	В	С	D	Е	FX
28.0	24.0	22.67	16.0	9.33	0.0
Provides:					•
Date of last modi	ification: 03.05	5.2015			
Approved:					

University: P. J. Šafá	University: P. J. Šafárik University in Košice					
Faculty: Faculty of S	Faculty: Faculty of Science					
Course ID: ÚFV/ FEP1/07	Course name: Microcomputer Based Science Laboratory					
Course type, scope a Course type: Lectur Recommended cour Per week: 1 / 2 Per Course method: pre	Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per week: 1 / 2 Per study period: 14 / 28 Course method: present					
Number of ECTS cro	edits: 4					
Recommended seme	ster/trimester of the course:					
Course level: II.						
Prerequisities:						
Conditions for cours test 30 points active participation 1 project (development points The final assessment	e completion: 0 points t of mathematical model, videomeasurement and physical experiment) 60 is based on the sum of partial results					
Learning outcomes: After the course stude active learning in sci the help of dataloggin Student is able to in conceptual understan	ent gains an overview about the possible use of digital technologies to support ience. He gains skills to use and develop activities on measuring data with ng, measuring on picture and viderecording and modeling natural processes. nplement such activities in science teaching to support active learning and ding.					
Brief outline of the course: The aim of the course is to present the use of digital technologies to enhance active learning in science with the help of datalogging, videomeasurement and modeling tools. Mathematical modeling is based on dynamical modeling of natural phenomena. Within the course students carry out computer-based experiments, videomeasurements and measurement on picture and create corresponding models. The activities involve selected topics of secondary schools science. The emphasize is put on the methods of implementation of the activities with regard to active students ' learning.						
Recommended litera [1]Koubek, V., Pecen podporovanom labora [2]Príručka COACH [3]http://physedu.scie	n ture: I, I.: Fyzikálne experimenty a modely v školskom mikropočítačom atóriu, Univerzita Komenského, Bratislava, 1999 ence.upjs.sk/sis/fyzika/experimenty/index.htm					
Course language:	Course language:					
Notes.						
110105.						

Course assessment Total number of assessed students: 34						
А	В	С	D	Е	FX	
44.12	44.12 44.12 11.76 0.0 0.0 0.0					
Provides: doc. RNDr. Zuzana Ješková, PhD.						
Date of last modification: 03.05.2015						
Approved:						

University: P. J. Šafá	rik University in Košice			
Faculty: Faculty of S	Faculty: Faculty of Science			
Course ID: KPPaPZ/SNP/09	Course name: Mobbing, Violence and Their Prevention			
Course type, scope a Course type: Practic Recommended cour Per week: 2 Per stu Course method: pre	nd the method: ce rse-load (hours): dy period: 28 esent edits: 2			
Recommended seme	ster/trimester of the course: 1., 3.			
Course level: II.				
Prerequisities:				
Conditions for cours Active participation i Active participation - Seminar work - 40% Seminar work 2 - 409	e completion: n seminars. Detailed information will be given. 20%			
Learning outcomes: The student will acq about solving proble of prevention. With implementation of pr and their willingness	uire the latest information about bullying in schools and its consequences, matic situations associated with bullying as well as about possible ways in the seminars, students will develop professional skills through the evention activities. At the same time, their sensitivity to the issue of bullying to actively address it during their pedagogical practice will increase.			
Brief outline of the c Aggressive behavior. environment). Manif role of teacher, school level of school, class, activities used in the	ourse: Characteristics of actors of bullying (personality, characteristics of family estations and possible causes of bullying. Bullying as a group process. The l and parent in solving bullying. Possibilities of prevention of bullying at the individuals. Primary, secondary and tertiary prevention. Socio-psychological prevention of bullying.			
Recommended litera Kolář, M.: Bolest šik 2001 Jánošová a kol. Psych Říčan, P.: Agresivita	anování. Cesta k zastavení epidemie šikanování ve školách. Portál, Praha, nologie školní šikany. Grada, Praha, 2016 a šikana mezi dětmi. Portál, Praha, 1995			

Course language:

Notes:
Course assessment Total number of assessed students: 143							
A B C D E FX							
80.42	17.48	1.4	0.7	0.0	0.0		
Provides: Mgr. Mária Bačíková, PhD.							
Date of last modification: 24.06.2021							
Approved:	Approved:						

University: P. J. Šafán	ik University in Košice
Faculty: Faculty of S	vience
Course ID: ÚFV/ MDT06/19	Course name: Modern Didactical Technology
Course type, scope a Course type: Practic Recommended cour Per week: 2 Per stu Course method: pre	nd the method: e rse-load (hours): dy period: 28 sent
Number of ECTS cro	edits: 2
Recommended semes	ster/trimester of the course: 2.
Course level: II.	
Prerequisities:	
Conditions for cours All assignments must criteria. Active participation a	e completion: be uploaded by a student and accepted by a teacher according to assessment t the seminar with minimum 80% participation.
 recognise basic tool to use all types of ac to design and realise 	s for teaching activities, etuall tools in education of science or humanities, e educational activities by using modern technologies.
 Brief outline of the constraints Brief outline of the constraints Introduction Cloud services Digital notebooks Digital notebooks Digital imaging Digital image procession Digital image procession Digital text procession Digital audio procession Digital video, procession Google online serving Interactive didaction Computer based 1 Digital technologi Didigital teacher 	essing ing ssing essing, videoconferencing ices al system (whiteboard, e-voting system, tablet) aboratories es and virtual experiments s workspace
Recommended litera 1. Kireš, M. et al.: Mo 788080861353 2. actuall information 3. catalogues of teach 3. actuall articles above	ture: odern didactical technics in teacher practice, Košice: Elfa, 2010, ISBN from web sites related to didactical technologies, ing tools, ut modern trends in science and humanities education.

Course langua Slovak, Englisl	ge: 1				
Notes:					
Course assessm Total number o	nent f assessed studen	.ts: 59			
А	В	С	D	E	FX
38.98	40.68	13.56	3.39	3.39	0.0
Provides: doc.	RNDr. Jozef Han	č, PhD.			
Date of last mo	odification: 31.03	3.2020			
Approved:					

University: P. J.	Šafárik Univers	ity in Košice					
Faculty: Faculty	y of Science						
Course ID: KPI PDK/17	E/ Course na	me: Pedagogica	1 Communication	n			
Course type, sc Course type: F Recommended Per week: 2 Pe Course method	ope and the met Practice I course-load (h er study period: d: present	thod: ours): 28					
Number of ECT	FS credits: 2						
Recommended	semester/trimes	ster of the cours	e: 1.				
Course level: II	•						
Prerequisities:							
Conditions for a	course completi	on:					
Learning outco	mes:						
Brief outline of	the course:						
Recommended	literature:						
Course languag	ge:						
Notes:							
Course assessm Total number of	ent f assessed studen	ts: 65					
А	В	С	D	Е	FX		
73.85	73.85 23.08 3.08 0.0 0.0 0.0						
Provides: PaedI	Dr. Michal Novo	cký, PhD.		<u>I</u>	<u></u>		
Date of last mo	dification: 08.06	5.2021					
Approved:							

University: P. J.	. Šafárik Univers	sity in Košice						
Faculty: Faculty	y of Science							
Course ID: KPI PDD/17	E/ Course n a	ame: Pedagogica	l Diagnostics					
Course type, sc Course type: F Recommended Per week: 2 Pe Course metho	ope and the me Practice I course-load (h er study period: d: present	thod: ours): 28						
Number of EC	FS credits: 2							
Recommended	semester/trime	ster of the cours	e: 2.					
Course level: II								
Prerequisities:								
Conditions for	course completi	ion:						
Learning outco	mes:							
Brief outline of	the course:							
Recommended	literature:							
Course languag	ge:							
Notes:								
Course assessm Total number of	ent f assessed studen	its: 45						
А	A B C D E FX							
84.44	84.44 8.89 6.67 0.0 0.0 0.0							
Provides: PaedI	Dr. Michal Novo	cký, PhD.		<u>. </u>	<u> </u>			
Date of last mo	dification: 08.06	5.2021						
Approved:								

University: P. J. Šaf	fárik University in Košice					
Faculty: Faculty of	Science					
Course ID: KPE/ PPD/15Course name: Pedagogy and Psychology						
Course type, scope Course type: Recommended cou Per week: Per stu Course method: pr	and the method: urse-load (hours): udy period: present					
Number of ECTS c	Number of ECTS credits: 1					

Recommended semester/trimester of the course:

Course level: II.

Prerequisities: KPE/PDU/15,KPPaPZ/PPgU/15

Conditions for course completion:

Obtaining the required number of credits in the prescribed composition by the study plan.

Learning outcomes:

Verification of the acquired competencies of the student in accordance with the profile of the graduate.ie required number of credits in the prescribed composition by the study plan.

Brief outline of the course:

Pedagogy: 1. Pedagogy, basic pedagogical categories, system of pedagogical scientific disciplines. 2. Education, pages and functions of education, educational process, self-education.3. Factors of education, educated individual, pedagogue, pedagogical profession, professional competencies.4. School education, family education. 5. Educational goals, taxonomy, requirements, classification of educational goals.6. Methods of education. 7. Pedagogical principles. 8. School system of the Slovak Republic. 9. Didactics, basic questions of didactics, current starting points of didactics. 10. Objectives of the teaching process, the teacher's work with the objectives of teaching.11. Content of education, basic curriculum, extension curriculum, elements and components of curriculum. 12. Assessment in school education, types, functions and criteria of assessment.13. Pedagogical control, methods and forms of pedagogical control.14. Teacher's work planning, written preparation of the teacher for teaching.15. Teaching process, stages of the teaching process and their didactic functions.16. Organizational forms of teaching, lesson, stages, types of lessons.17. Teaching methods, classification, functions, selection of teaching methods. 18. Didactic principles of the teaching process. 19. Basic pedagogical documents, textbook, functions and structural components of the textbook.20. Current concepts of the teaching process.

Psychology: 1.Psychology as a science, goals and subject of psychology in terms of influential psychological directions.2.Pedagogical psychology in teacher training, its subject, function.3.Psychology in school practice: professional forms of control and assistance, psychological examination, counseling process. Crisis intervention. Code of ethics.4.Psychology in school practice: approaches and models of prevention, prevention spectrum, protective and risk factors of risk behavior of schoolchildren in the context of the theory of triadic influence.5.Psychology in school practice: effective strategies for prevention of substance use.6.Psychology of education from the point of view of psychodynamic approach (Psychoanalysis and Individual Psychology) .7.Psychology of education from the point of

view of humanistic psychology.8.Psychology of education from the point of view of cognitive psychology.9.Psychology of learning and types of learning supplemented by examples from school practice. / success in the context of individual theories of cognitive development.11. Nutritional peculiarities, school non-success / intelligence in terms of intelligence.12. Memory and developmental peculiarities, school non-success 13. Attention and developmental peculiarities, school non / success peculiarities of individual types of family, educational styles.15.Social relations at school, me modes of cognition of interaction U and Ž. Psychosocial climate of school class and school, methods of cognition, sociometry.16.Social influence: presence of others, interpersonal influences and meaningful understanding of social influence in teacher's work.17.Teacher as a professional, his professional ability, teaching style, attitudes towards students, expectations towards students, coping with stress, burnout syndrome.18.Students: gifted and talented, school failure, non-thriving pupils and failing pupils, pupils' self-efficacy.19. Types of research plans and their creation (setting goals, hypotheses, variables, selection of research sample) in the context of pedagogical-psychological research.20. Selected methods of pedagogicalpsychological research - questionnaire, interview, observation and possibilities of their use in school practice.

Recommended literature:

Pedagogika:

Čapek, R. (2016). Moderní didaktika. Praha: Grada.

Dytrtová, R., Krhutová, M. (2009). Učitel. Příprava na profesi. Praha: Grada.

Kalhous, Z., Obst, O. (2002). Školní didaktika. Praha: Portál.

Petlák, E. (2016). Všeobecná didaktika. Bratislava: Iris.

Petlák, E. (2005). Kapitoly zo súčasnej didaktiky. Bratislava: IRIS.

Prucha, J. (2017). Moderní pedagogika. Praha: Portál.

Turek, I. (2014). Didaktika. Bratislava: Wolters Kluwer.

Vališová, A., Kasíková, H. (2010). Pedagogika pro učitele. Praha: Grada.

Zormanová, L. (2014). Obecná didaktika. Praha: Grada.

Psychológia:

Mareš, J. (2013). Pedagogická psychologie. Praha : Grada.

Mareš, J., ČÁP, J. (2001). Psychologie pro učitele. Praha: Portál.

Džuka, J. (2003). Základy pedagogickej psychológie. Prešov: UK.

Orosová, O. a kol. (2005). Psychológia a pedagogická psychológia 1. Košice: UPJŠ.

Orosová, O. a kol. (2012). Základy prevencie užívania drog a problematického používania internetu v školskej praxi. Košice: UPJŠ.

Bačíková, M., Janovská, A. (2019). Základy metodológie pedagogicko-psychologického

výskumu. Sprievodca pre študentov učiteľstva. 2. rozšírené vydanie. Šafárik press, Košice.

Gavora, P. a kol. (2010). Elektronická učebnica pedagogického výskumu. Bratislava: Univerzita Komenského. Dostupné online na www. e-metodologia. fedu. uniba. sk.

Vágnerová, M. (2005). Základy psychológie. Praha : Karolinum.

Vágnerová, M. (2005). Vývojová psychológie. Praha : Karolinum.

Vágnerová, M. (2005). Škoní podadenská psychologie pro pedagogy. Praha : Karolinum.

Výrost, J., Slaměník, I. (2008). Sociální psychologie. Praha : Grada.

Výrost, J., Salměník, I. (1998). Aplikovaná sociální psychológie I. Praha: Portál. Strana: 2

Fontana, D. (1997). Psychologie ve školní praxi. Praha: Portál.

Zelina, M. (2011). Stratégie a metódy rozvoja osobnosti dieťaťa: (metódy výchovy). Bratislava, Iris.

Křivohlavý, J. (2004). Pozitívni psychologie. Praha: Portál.

Křivohlavý, J. (2003). Psychologie zdraví. Praha: Portál.

Course languag	ge:				
Notes:					
Course assessm Total number of	tent f assessed student	ts: 508			
А	В	С	D	Е	FX
28.35	27.17	25.98	15.16	3.15	0.2
Provides:					
Date of last mo	dification: 07.06	.2021			
Approved:					

University: P. J. Safarik University in Kosice						
Faculty: Faculty of Science						
Course ID:Course name: Problem and Aggressive Behaviour of Pupils. Etiology, Prevention and Intervention.						
Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: present						
Number of ECTS credits: 2						
Recommended semester/trimester of the course: 2.						
Course level: II.						
Prerequisities:						
Conditions for course completion:						
Learning outcomes:						
General principles of mental development as a basis for recognizing mental disorders in children and adolescents. Etiology of mental disorders and developmental disorders in children and adolescents. Definition of aggressive behavior. Concepts of aggression vs. aggressiveness. Theoretical approaches to aggression. Causes and factors of aggressive behavior. Violence at school and in the family. Bullying. Psychology of problem students. Problems resulting from disturbed behavior. Problems arising from group relationships. Adolescent lifestyle issues. Problems resulting from impaired emotional experience. Solving problematic and aggressive behavior in the school environment. School classroom management, group preventive and intervention work with the classroom. Crisis intervention. Work with parents of problem students. Principles of interviewing a parent. Cooperation with other experts. Prevention of aggressive and problematic behavior at school. Classroom and school climate, school prevention programs. Viac o tomto zdrojovom texteNa získanie d'alších informácií o preklade sa vyžaduje zdrojový text Odoslať spätnú väzbu Bočné panely						
Recommended literature:						
Course language:						
Notes:						
Course assessment Total number of assessed students: 49						
A B C D E FX						
65.31 26.53 8.16 0.0 0.0 0.0						
Provides: PhDr. Anna Janovská, PhD.						
Date of last modification: 28.06.2021						

Approved:

	COURSE INFORMATION LETTER
University: P. J. Šafán	rik University in Košice
Faculty: Faculty of So	cience
Course ID: KPPaPZ/KPE/ EPU/15	Course name: Professional Ethics for Teachers and School Counsellors
Course type, scope an Course type: Practic Recommended cour Per week: 2 Per stue Course method: pre	nd the method: e rse-load (hours): dy period: 28 sent
Number of ECTS cre	edits: 2
Recommended semes	ster/trimester of the course: 2., 4.
Course level: II.	
Prerequisities:	
1. Active participation Preparation (descripti during the semester, t 77 - 86, C 69 - 76, D 6 of the course in AIS2	n in seminars (max. 1 absence) - 30p, 2. Preparation for the seminar - 40p, 3. on and analysis) of the moral dilemma - 30p. By summing the points obtained the student obtains the final evaluation according to the scale: A 87 - 100, B 51 - 68, E 56 - 60, FX 55 and less. Detailed information in the electronic board . The teaching of the subject will be realized by a combined method.
Learning outcomes: The student will und counselor as one of the the ethical and moral in (including the formula the function of the ed and solve practical m professional skills of context thanks to the	lerstand the principles of teacher ethics and the ethics of the educational the branch types of professional ethics. The student can theoretically reflect on issues of the teaching profession and the function of the educational counselor ation of moral values, principles and standards of the teaching profession and ducational counselor in the form of codes of ethics). He is able to analyze noral problems in pedagogical practice, which supports the development of students. The student is able to critically evaluate situations with a moral opportunity to discuss moral and ethical issues in an open way.
Brief outline of the co Moral emotions (theo their manifestations) Development of mora (Piaget, Kohlberg, Gi Moral behavior (from intelligence in the wo Possibilities of exar conformity, obedience judgment) Morality and professional of ethics Professional ethics of of teacher ethics) and	burse: bries of emotion, the center of emotions in the brain, types of emotions and al reasoning, cognitive approaches to moral reasoning and their comparison lligan, Eisenberg, Selman, Lind), the point of view of learning theories) and moral (vs. social and emotional) rk of a teacher nining moral behavior and judgment (socio-psychological research of e, aggression and psychodiagnostic approaches to the determination of moral ional ethics in general (ethical principles in helping professions) and codes the teacher and educational counselor (terminology, concepts, main principles teacher ethics codes

Moral dilemmas and ways of solving them, MD of teaching practice

Possibilities of influencing and stimulating moral judgment, use of moral dilemma in education Cheating and other unethical manifestations in the school environment, ethics and etiquette of final exams

Recommended literature:

Ráczová, Babinčák, P. Základy psychológie morálky. Košice : Equilibria, 2009. - 130 s. ISBN 9788070977866 (brož.).

Gluchmanová, M. K niektorým terminologickým otázkam učiteľskej etiky. Pedagogická orientace 2007, č. 2, s. 11–25. ISSN 1211-4669.

Malankievičová, S. Profesijná etika: FF PU. 2008.

Miezgová J., Vargová, D. Etika. SPN Mladé letá 2007.

Remišová A. Dejiny etického myslela v Európe a USA. Bratislava, Kalligram 2008.

Zelina, M. Teória výchovy alebo hľadanie dobra. Bratislava SPN 2010.

Gluchmanová, M. Uplatnenie princípov a hodnôt etiky sociálnych dôsledkov v učiteľskej etike. Prešov: FF PU,2009. 222 s. ISBN 978-80-555-0042-3

Campbell, E. The Ethical Teacher. Berkshire (England): Open University Press, 2003. 178 s. ISBN 03-3521-219-0.

Course language:

slovak

Notes:

Course assessment

Total number of assessed students: 374

А	В	С	D	Е	FX		
95.99	3.48	0.53	0.0	0.0	0.0		
Provides: Mgr. Lucia Barbierik, PhD.							
Date of last modification: 25.06.2021							

Approved:

University: P. J. Šafán	rik University in Košice					
Faculty: Faculty of Science						
Course ID: KPPaPZ/PPgU/15	Course name: Psychology and Educational Psychology					
Course type, scope a Course type: Lectur Recommended cour Per week: 2 / 2 Per Course method: pre	nd the method: e / Practice cse-load (hours): study period: 28 / 28 esent					
Number of ECTS cro	edits: 5					
Recommended semes	ster/trimester of the course: 1.					
Course level: II.						
Prerequisities:						
Conditions for cours Combined method. Assessment Maximum Exam entry criteria: A semester. Continuous assessme Final evaluation: A 94-100 B 93-87 C 86-80 D 79-73 E 72- 66 FX 65 -0 Electronic board of th	e completion: n 50 points during the semester (Three assignments). Active participation in exercises and at least 35 points obtained during the nt (50%) and written examination (50%) / 10 questions.					
Learning outcomes: Students will be able Students will be abl psychological concep Students will be able Students will be able	to show understanding of the human behaviour in educational situations. It is to describe, explain and justify possible teachers' decisions by using sts, principles and theories. It is apply the psychological findings in the field of education. It is explain how adolescents learn and retain new information, to explain their					

behaviour in response to educational environment.

Students will be able to explain the desired data-based modification of adolescents' behaviour to bring an all-round development of his personality and school performance, to explain the desired data-based modification of the behaviour of adolescents with educational problems, with disadvantages.

Brief outline of the course:

Introduction: The content of the course is based on current knowledge of psychological disciplines, especially pedagogical and school psychology.

Teaching is realized by a combination of lectures with engaging narrative interpretation and seminars using interactive, experiential methods, discussion and open communication with mutual respect, support of independence, activity and motivation of students.

Syllabus: The subject and goals of psychology and educational psychology. Professional forms of help in school practice.

Implementation of psychological concepts of personality into school practice (Classical and contemporary psychoanalytic theory, Individual psychology, Humanistic psychology, Concept of creative-humanistic education; Cognitivism and Theory of personal constructs). Social psychology of school and family. Learning and teaching. Health and disease; risk / protective factors with healthy related risk behavior. Psychology of students with behavioral and learning problems. Psychology of students with psychosocial, socio-cultural, health disadvantages. Psychological examination. Consulting process. Crisis intervention. Programs for prevention of risky behavior of schoolchildren.

Recommended literature:

Mareš, J.: Pedagogická psychologie. Praha : Grada 2013.

Mareš, J., & ČÁP, J.: Psychologie pro učitele. Praha: Portál, 2001.

Džuka, J.: Základy pedagogickej psychológie. Prešov: UK 2003.

Orosová, O. a kol: Psychológia a pedagogická psychológia 1. Košice: UPJŠ, 2005.

Orosová, O. a kol.: Základy prevencie užívania drog a problematického používania internetu v školskej praxi. Košice: UPJŠ 2012.

Vágnerová, M.: Základy psychológie. Praha : Karolinum 2005.

Vágnerová, M.: Vývojová psychológie. Praha : Karolinum 2005.

Vágnerová, M.: Škoní podadenská psychologie pro pedagogy. Praha : Karolinum 2005. Výrost,

J., Slaměník, I.: Sociální psychologie. Praha : Grada 2008.

Výrost, J., Salměník, I.: Aplikovaná sociální psychológie I. Praha: Portál 1998.

Fontana, D. : Psychologie ve školní praxi. Praha: Portál 1997.

Zelina, M.: Stratégie a metódy rozvoja osobnosti. Bratislava, Iris: 1996.

Křivohlavý, J.: Pozitívni psychologie. Praha: Portál 2004.

Křivohlavý, J.: Psychologie zdraví. Praha: Portál 2003.

Course language:

slovak

Notes:

Course assessment

Total number of assessed students: 1432

А	В	С	D	Е	FX
10.47	18.37	23.04	23.25	22.0	2.86

Provides: prof. PhDr. Oľga Orosová, CSc., Mgr. Lucia Barbierik, PhD., PhDr. Anna Janovská, PhD.

Date of last modification: 24.06.2021

Approved:

University: P. J. Šafá	rik University in Košice					
Faculty: Faculty of S	Faculty: Faculty of Science					
Course ID: KPPaPZ/PTPN/17	Course name: Psychology of Creativity and Working with Gifted Students in Teacher Practice					
Course type, scope a Course type: Practic Recommended cou Per week: 2 Per stu Course method: pre	nd the method: ce rse-load (hours): dy period: 28 esent					
Number of ECTS cr	edits: 2					
Recommended seme	ster/trimester of the course: 2.					
Course level: II.						
Prerequisities:						
Conditions for cours 1. active participation seminar work - 30p. final evaluation accou FX 55 and less. Deta of the subject will be	Se completion: In in lessons (max. 2 absences) - 30p, 2. own output at the seminar - 40p, 3. By summing the points obtained during the semester, the student obtains the rding to the given scale: A 87 - 100, B 77 - 86, C 69 - 76, D 61 - 68, E 56 - 60, iiled information in the electronic board of the course in AIS2. The teaching realized by a combined method.					
Learning outcomes: The student understa the specifics of work apply methods to sup creativity in educatio	nds the basic factors and process of creativity. The student is able to explain ing with the gifted. He knows the methods of identifying talent and also can port creativity and the development of talent in the implementation of creative n.					
Brief outline of the c The concept of creati A brief history of the Social, psychological Cognitive processes Creativity and cognit Development of crea Talent and giftedness Methods of determin Methods of developin Creativity and talent	vity. theory of creativity. and biological factors of creativity. in creativity. ive style. tivity. ing creativity and talent. ng creativity and talent. development programs. Specifics of working with the gifted children.					
Kecommended litera DOČKAL, V. (2006) štruktúru osobnosti. I Slovak Academic Pro HŘÍBKOVÁ, L. (200 výzkumy a jejich vzt DACEY, J.S LENN	 Inteligencia a tvorivosť, tvorivé nadanie od intelektovej schopnosti po (n: KUSÁ, D. a kol. EDS. (2006): Zjavná a skrytá tvorivosť. Bratislava: Nadání a nadaní. Pedagogicko- psychologické přístupy, modely, ah ke školské praxi. Praha: Grada Publishing ON, K.H. (2000): Kreativita. Praha: Grada 					

GROSS, M.U.M. (2009): Highly Gifted Young People: Development from Childhood to Adulthood. In: SHAVININA, L. (2009): International Handbook on Giftedness. Part one. Springer

KUSÁ, D. a kol. EDS. (2006): Zjavná a skrytá tvorivosť. Bratislava: Slovak Academic Press KOLKOVÁ, S. (2000): Tvorivosť a jej rozvoj vo voľnočasových aktivitách detí (v školskom klube). Bratislava: Metodické centrum v Bratislave

LOKŠOVÁ, I., - LOKŠA, J.: (2003): Tvořivé vyučování. Praha: Grada

LAZNIBATOVÁ, J. (2004): Špecifiká vývinu a vzdelávania nadaných detí. In: Psychológia a patopsychológia dieťaťa, roč.39, č. 2-3

LAZNIBATOVÁ, J. (2001): Nadané dieťa, jeho vývin, vzdelávanie a podporovanie. Bratislava: Iris

MESÁROŠOVÁ, M. (1998): Nadané deti. Poznávanie a rozvíjanie ich osobnosti. Prešov: Manacon

SZOBIOVÁ, E. (2004): Tvorivosť – Od záhady k poznaniu. Bratislava: Stimul - Centrum informatiky a vzdelávania FIF UK

National and international scientific journlas

Course languag slovak	ge:						
Notes:							
Course assessm Total number of	nent f assessed student	s: 36					
А	В	B C D E FX					
100.0	0.0	0.0	0.0	0.0	0.0		
Provides: Mgr.	Provides: Mgr. Lucia Barbierik, PhD.						
Date of last modification: 25.06.2021							
Approved:							

University: P. J. Šafá	rik University in Košice
Faculty: Faculty of S	cience
Course ID: KPPaPZ/PsZ/15	Course name: Psychology of Health
Course type, scope a Course type: Practic Recommended cour Per week: 2 Per stu Course method: pre	nd the method: ce rse-load (hours): dy period: 28 esent
Number of ECTS cro	edits: 2
Recommended seme	ster/trimester of the course: 3.
Course level: II.	
Prerequisities:	
Conditions for cours Active participation i	e completion: n seminars, preparation and presentation of seminar work, final evaluation
The aim of the course Psychology as well a of individuals and so psychology, will be f will learn to use the a	e is to provide students with the latest knowledge and background of Health s forms of its application in order to improve the mental and physical health ociety. The graduate of the course will understand the principles of health amiliar with the current social discourse on the topics covered. The student cquired knowledge in school practice.
Brief outline of the c 1. Health psychology 2. Mental health and 3. Physiological aspe 4. Stress. Coping, res 5. Psychosomatic disc 6. Social support and 7. Burnout syndrome 8. The meaning of lif 9. Health-related beha 10. Socio-economic i	Definition of health. Bio-psycho-social model of health. quality of life, well being. cts of mental health, lifestyle ilience. eases, placebo. its importance for health. e, faith. wior and prevention. Risky behavior, excessive use of the Internet and screens. nequalities in health. Unemployment and health.
Recommended litera Křivohlavý, J.: Psych Kebza, V.: Psychosoc Křivohlavý, J.: Psych Sarafino, E.P.: Health Taylor, E.: Health Psy Vollrath M.E.: Handb	ture: ologie zdraví. Praha: Portál, 2001 iální determinanty zdraví. Praha: Academia, 2005 ologie nemoci. Praha : Grada, 2002 Psychology: Biopsychosocial Interactions, John Wiley & Sons, 2007 /chology. Singapore: McGraw-Hill, 2006 pook of Personality and Health. Chichester: John Wiley & Sons, 2006
Course language:	
Notes:	

Course assessment Total number of assessed students: 81							
А	A B C D E FX						
100.0	0.0	0.0	0.0	0.0	0.0		
Provides: Mgr. Mária Bačíková, PhD.							
Date of last modification: 24.06.2021							
Approved:							

University: P. J. Šafá	University: P. J. Šafárik University in Košice			
Faculty: Faculty of Science				
Course ID: KSSFaK/ ČGUAP/15	rse ID: Course name: Reading Literacy in Educational Process FaK/ JAP/15			
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 ECTS cr	edits: 2			
Recommended seme	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 assessed students: 25				
	abs n			
100.0 0.0				
Provides: doc. PaedD	Provides: doc. PaedDr. Ivica Hajdučeková, PhD.			
Date of last modification: 16.02.2019				
Approved:				

University: P. J. Šafá	University: P. J. Šafárik University in Košice			
Faculty: Faculty of S	Faculty: Faculty of Science			
Course ID: ÚCHV/ MPPb/15	ourse ID: ÚCHV/ Course name: Scheduled practice teaching IPPb/15			
Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: Per study period: 36s Course method: present				
Number of ECTS cr	edits: 1			
Recommended seme	ster/trimester of the cours	e: 2.		
Course level: II.				
Prerequisities: KPE/	MPPa/15,KPE/PDU/15,(KP	PaPZ/PaSPP/09 and leboKPPaPZ/PPgU/15)		
Conditions for cours	e completion:			
Learning outcomes:				
Brief outline of the c	ourse:			
Recommended litera	iture:			
Course language:	Course language:			
Notes:				
Course assessment Total number of assessed students: 274				
abs n				
100.0 0.0				
Provides: RNDr. Ivana Sotáková, Ph.D., doc. RNDr. Mária Ganajová, CSc.				
Date of last modification: 03.05.2015				
Approved:				

University: P. J. Šafá	rik University in Košice					
Faculty: Faculty of Science						
Course ID: ÚMV/ VPPb/15	Course name: Scheduled practice teaching					
Course type, scope a Course type: Practic Recommended cour Per week: Per stud Course method: pre	Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: Per study period: 36s Course method: present					
Number of ECTS cr	edits: 1					
Recommended seme	ster/trimester of the cours	e: 2.				
Course level: II.						
Prerequisities: KPE/	MPPa/15,KPE/PDU/15,(KP	PaPZ/PaSPP/09 and leboKPPaPZ/PPgU/15)				
Conditions for cours	e completion:					
Learning outcomes: Enable students to g knowledge in specific the atmosphere and the	ain first practical experience teaching situations, to deve the organization of school.	ce in teaching mathematics to apply theoretical lop their teaching skills. To acquaint students with				
Brief outline of the course:						
Recommended litera	iture:					
Course language: Slovak						
Notes:						
Course assessment Total number of assessed students: 64						
	abs n					
100.0 0.0						
Provides: doc. RNDr. Dušan Šveda, CSc., doc. RNDr. Ingrid Semanišinová, PhD.						
Date of last modifica	Date of last modification: 03.05.2015					
Approved:						

University: P. J. Šafá	rik University in Košice					
Faculty: Faculty of S	Faculty: Faculty of Science					
Course ID: ÚTVŠ/ ÚTVŠ/CM/13	ourse ID: ÚTVŠ/ Course name: Seaside Aerobic Exercise TVŠ/CM/13					
Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: Per study period: 36s Course method: combined, present						
Number of ECTS cr	edits: 2					
Recommended seme	ester/trimester of the cours	e:				
Course level: I., II.	-					
Prerequisities:						
Conditions for cours Conditions for cours Attendance	se completion: e completion:					
Learning outcomes. Learning outcomes: Students will be provided an overview of possibilities how to spend leisure time in seaside conditions actively and their skills in work and communication with clients will be improved. Students will acquire practical experience in organising the cultural and art-oriented events, with the aim to improve the stay and to create positive experiences for visitors						
 Brief outline of the course: Brief outline of the course: Basics of seaside aerobics Morning exercises Pilates and its application in seaside conditions Exercises for the spine Yoga basics Sport as a part of leisure time Application of projects of productive spending of leisure time for different age and social groups (children, young people, elderly) Application of seaside cultural and art-oriented activities in leisure time 						
Recommended literature:						
Course language:	Course language:					
Notes:						
Course assessment Total number of assessed students: 41						
	abs	n				
	12.2	87.8				

Provides: Mgr. Agata Horbacz, PhD.

Date of last modification: 15.03.2019

Approved:

University: D. I. Šofárik University in Košice				
Faculty: Faculty of Science				
Course ID: UCHV/ Course name: Selected Topics in Inorganic Chemistry VKAU/04 VKAU/04				
Course type, scope and the method:				
Course type: Lecture / Practice				
Recommended course-load (nours): Per week: 2 / 1 Per study period: 28 / 14				
Course method: present				
Number of ECTS credits: 5				
Recommended semester/trimester of the course: 3.				
Course level: II.				
Prerequisities:				
Conditions for course completion:				
Learning outcomes:				
Brief outline of the course:				
Recommended literature: Greenwood, N.N., Earnshaw, A.: Chemistry of the elements I and II, Pergamon Press N.Y., 1993. C. N. R. Rao, A. Muller, A. K. Cheetham: The Chemistry of Nanomaterials (Vol. 1,2), Wiley- VCH,2006. Atkins O., Overton T., Rourke J., Weller M., Armstrong F.: Inorganic Chemistry, University Press, Oxford, 2006.				
Course language:				
Notes:				
Course assessment Total number of assessed students: 75				
A B C D E FX				
45.33 29.33 20.0 2.67 2.67 0.0				
Provides: prof. RNDr. Vladimír Zeleňák, DrSc.				
Date of last modification: 03.05.2015				
Approved:				

University: P. J. S	Šafárik Univers	ity in Košice					
Faculty: Faculty	of Science						
Course ID: ÚCH VKOCH/03	V/ Course na	me: Selected top	oics in organic ch	nemistry			
Course type, sco Course type: Le Recommended Per week: 2 / 1 Course method	pe and the met ecture / Practice course-load (h Per study perio : present	hod: ours): od: 28 / 14					
Number of ECT	S credits: 5						
Recommended se	emester/trimes	ster of the course	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	nt assessed studen	ts: 108					
A	В	С	D	Е	FX		
35.19	35.19 25.0 20.37 13.89 5.56 0.0						
Provides: doc. RI	NDr. Ján Imrich	n, CSc.		<u> </u>			
Date of last mod	ification: 03.05	5.2015					
Approved:							

University: P. J. Šafá	rik University in Košice
Faculty: Faculty of S	cience
Course ID: ÚMV/ VMA/19	Course name: Selected topics on mathematical analysis
Course type, scope a Course type: Lectur Recommended cour Per week: 2 / 2 Per Course method: pre	nd the method: re / Practice rse-load (hours): study period: 28 / 28 esent
Number of ECTS cr	edits: 4
Recommended seme	ster/trimester of the course: 2.
Course level: I., II.	
Prerequisities: ÚMV	/FRPb/19
Conditions for cours Final evaluation is gi	e completion: ven by continuous assessment.
Learning outcomes: Expand the knowled learning and artificial	ge of mathematical analysis needed to deepen understanding of machine intelligence.
 Brief outline of the c 1. Vector (linear) sp functions). 2. Metric space (MS) and compactness of N 3. Normed linear sp Minkowski inequality 4. Space with scalar p theorem, parallelogra 6. Operators (function) 	ourse: bace - examples of infinite-dimensional spaces (spaces of sequences and - metric, convergence of sequences, closure and interior of a set, completeness MP, Banach fixed-point theorem. bace (NLS) - norm, Banach spaces, relation to MS, dual spaces, Hölder, y. broduct - unitary and Hilbert spaces, Cauchy-Schwartz inequality, Pythagorean im rule, relation to LNP, orthogonal projections. nals) in NLP - linearity, continuity, boundedness, adjointness.
Recommended litera 1. N. Katzourakis, E. FL:CRC Press (2018) 2. A. M. Bruckner, J. 2008 3. Taylor, A.: Úvod d 4. Kolmogorov, A., F 5. S. Lang, Undegrad	 Iture: Varvaruca, An illustrative introduction to modern analysis. Boca Raton, B. Bruckner, B. S. Thomson, Real analysis, 2nd. ed., ISBN 1434844129, Io funkcionální analýzy, Academia 1973. Jomin, S.: Základy teórie funkcí a funkcionální analýzy, 1975. Iuate Analysis, Springer, 1997.
Course language: Slovak	

Notes:

Course assessment Total number of assessed students: 1							
А	A B C D E FX						
100.0	100.0 0.0 0.0 0.0 0.0 0.0						
Provides: doc. RNDr. Ondrej Hutník, PhD., Mgr. Jozef Kiseľák, PhD.							
Date of last modification: 27.03.2019							
Approved:							

COURSE INFORMATION LETTER					
University: P. J. Šafárik University in Košice					
Faculty: Faculty of S	Faculty: Faculty of Science				
Course ID: ÚMV/ SHM/10	Course name: Seminar on history of mathematics				
Course type, scope a Course type: Practic Recommended cour Per week: 2 Per stu Course method: pre	nd the method: ce rse-load (hours): dy period: 28 esent				
Number of ECTS cr	edits: 2				
Recommended seme	ster/trimester of the course: 2.				
Course level: I., II.					
Prerequisities:					
Conditions for cours Homework, presentat More than 91 points 81-90 points - evalua 71-80 points - rating 61-70 points - evalua 51-60 points - evalua Less than 50 points -	e completion: ion on the chosen topic during the seminar. • evaluation of A. tion of B. C. tion of D. tion of E. FX evaluation.				
Learning outcomes: Students get an overv selected terms and ab	iew of the history of the development of certain mathematical disciplines and out parallel between phylogenesis and ontogenesis of mathematical thinking.				
Brief outline of the c Mathematics in Early (Arabia, China, India Beginning of Moderr	ourse: y Civilizations. Greek Mathematics. Mathematics in the Near and Far East a). Medieval European Mathematics. The Renaissance of Mathematics. The Mathematics.				
Recommended litera Burton, D. M.: The F Devlin, K.: Jazyk ma Kolman, A.: Dejiny r	ture: listory of Mathematics: An Introduction. McGraw–Hill, 2007. tematiky. Dokořán, 2002 (in czech) natematiky ve starověku. Academia, Praha, 1968 (in slovak)				

Juškevič, A. P.: Dejiny matematiky ve středověku. Academia, Praha 1977 (in slovak)

Znám,Š. a kol.: Pohľad do dejín matematiky. Alfa, Bratislava, 1986 (in slovak)

Konforovič, A.G.: Významné matematické úlohy, SPN Praha, 1989 (in slovak)

Course language:

Slovak

Notes:

Course assessment Total number of assessed students: 112							
A B C D E FX							
74.11	9.82	8.93	3.57	3.57	0.0		
Provides: doc. RNDr. Ingrid Semanišinová, PhD.							
Date of last modification: 03.05.2015							
Approved:							

Faculty: Faculty of Science							
Course ID: ÚMV/ SSM/15Course name: Seminar on school mathematics							
Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: present							
Number of ECTS credits: 2							
Recommended semester/trimester of the course: 2.							
Course level: II.							
Prerequisities:							
Conditions for course completion: During the semester will be 3 written exams. Evaluation A - at least 90% of the points, evaluation B - at least 80%, evaluation C at least 70%, evaluation D at least 60%, evaluation E rating of at least 50% of the points. Credits shall not be granted to a student who receives less than 50% of the points.							
Learning outcomes: Students become familiar with the tasks, methods of problem solving, solving strategies and with specific problems of teaching mathematics at primary and secondary schools.							
Brief outline of the course: Basic knowledge of school mathematics. Number theory tasks, tasks to optimize, word problems.							
Recommended literature: Hecht, T., Sklenáriková, Z., Metódy riešenia matematických úloh, Bratislava, SPN, 1992. Hecht, T. a kol., Matematika pre 14. ročník gymnázií a SOŠ, OrbisPictusIstropolitana, Bratislava 1999-2002. Krantz, S.G., Techniques of Problem Solving, AMS, 1997. Larson, L.C., Metódy riešenia matematických problémov, Bratislava, Alfa, 1990.							
Course language: Slovak							
Notes:							
Course assessment Total number of assessed students: 66							
A B C D E FX							
57.58 42.42 0.0 0.0 0.0 0.0							
Provides: doc. RNDr. Matúš Harminc, CSc.							
Date of last modification: 03.05.2015							
Approved:							

University: P. J. Šafá	University: P. J. Šafárik University in Košice				
Faculty: Faculty of Science					
Course ID: KSSFaK/VSJU/15	Course name: Slovak Language for Teachers				
Course type, scope a Course type: Lectur Recommended cou Per week: 2 Per stu Course method: pre	ind the method: re rse-load (hours): idy period: 28 esent				
Number of ECTS cr	edits: 2				
Recommended seme	ester/trimester of the course: 1., 3.				
Course level: II.					
Prerequisities:					
Conditions for cours passing a final test (min. 55 %)	se completion:				
Learning outcomes: Mastering of standa codification manuals of written communic characteristics of exp	and Slovak in spoken and written discouse. Becoming familiarized with a cquiring skills related to bibliography and quotation standards. Mastering cation in accordance with current orthographical rules. Mastering of basic pressions of text and style and fundamentals of text composition.				
Brief outline of the c Characteristics of ba sign character of lang aspect of language u national language. La of orthographic rule phenomena in vowels and its specific feature	sic terms of general linguistics (language – speech, language functions, the guage, language levels, content and form in language, individual and general nits) on interdisciplinary background and with the application to Slovak as a anguage standard, codification, usus. Basic codification manuals. Application is in practical documents. Sound culture, pronunciation styles. Orthoepic s and consonants. Application of rhythmic law and its exceptions. Assimilation res in Slovak. Style, stylization – methods and demonstration of structure of				

Recommended literature:

text components.

Krátky slovník slovenského jazyka. Bratislava: Veda 1997.

Slovník súčasného slovenského jazyka. Bratislava: Veda 2006.

Slovník súčasného slovenského jazyka. Bratislava: Veda 2011.

Slovník súčasného slovenského jazyka. Bratislava: Veda 2015.

Pravidlá slovenského pravopisu. Bratislava: Veda 2000 (2013).

BÓNOVÁ, I. - JASINSKÁ, L.: Jazyková kultúra nielen pre lingvistov. Košice: UPJŠ 2019. 100 s. KRÁĽ, Á.: Pravidlá slovenskej výslovnosti. Martin: Matica slovenská 2005. 423 s.

ONDRUŠ, Š. – SABOL, J.: Úvod do štúdia jazykov. 3. vyd. Bratislava, SPN 1987. 343s.

SABOL, J.- SLANČOVÁ, D. - SOKOLOVÁ, M.: Kultúra hovoreného slova. Prešov, FF UPJŠ 1989.

SABOL, J. – BÓNOVÁ, I. – SOKOLOVÁ, M.: Kultúra hovoreného prejavu. Prešov: FF PU 2006.

FINDRA, J.: Štylistika slovenčiny. Martin: Osveta, 2004.

FINDRA, Ján: Štylistika slovenčiny v cvičeniach. Martin : Osveta, 2005.

SLANČOVÁ, D.: Praktická štylistika. 2., upravené a doplnené vydanie. Prešov: Slovacontact 1996. 178 s. ISBN 80-901417-9-X.

Course language:						
Notes:						
Course assessment Total number of assessed students: 96						
А	В	С	D	Е	FX	
14.58	29.17	33.33	12.5	10.42	0.0	
Provides: PhDr. Iveta Bónová, PhD., PhDr. Lucia Jasinská, PhD., Mgr. Lena Ivančová, PhD.						
Date of last modification: 08.06.2021						
Approved:						

University: P. I. Šafárik University in Košice							
Faculty: Faculty of Science							
Course ID: ÚCHV SPC1a/03	Course ID: ÚCHV/ Course name: Special practising the school experiments I PC1a/03 PC1a/03						
Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: 4 Per study period: 56 Course method: present							
Number of ECTS	credits: 5						
Recommended sen	nester/trimes	ster of the cours	e: 1.				
Course level: II.							
Prerequisities:							
Conditions for cou Continuous checkin Semestral test	ng of theoretic	on: cal preparation, c	levelopment of r	eport and present	ation.		
Learning outcome The aim of this subj with accent on safe	Learning outcomes: The aim of this subject is learn of basic experimental skillfulness in techniques in school experiment with accent on safety and health protections of students at scholar experimental work.						
Brief outline of the course: Selection and arrangement of chemical experiments as the demonstrative experiments, or pupils ' experiments to themes basic laws of chemistry, determination of constant physicochemical, factors influence speed of chemical reaction, experiments from electrochemistry, creating gases; preparation works characters of quantitative interesting experiments of everyday life							
 Recommended literature: 1. Ganajová, M., Dzurillová, M. 2005: Školské pokusy z chémie I. UPJŠ v Košiciach, Prírodovedecká fakulta, 140 s. ISBN 80-7097-617-9 2. Ganajová, M. 2005: Chemické experimenty s vybranými produktami z obchodu. UPJŠ v Košiciach, Prírodovedecká fakulta, 110 s. ISBN 80-7097-611-X 3. Tomeček,O.: Školská experimentálna semimikrosúprava. Učebné pomôcky Banská Bystrica 1980 4. The primary and secondary textbook of chemistry 5. http://kekule science upis sk – (ŠIS) 							
Course language:							
Notes:							
Course assessment Total number of assessed students: 282							
Α	В	С	D	Е	FX		
66.67	25.53	6.74	1.06	0.0	0.0		
Provides: doc. RNDr. Mária Ganajová, CSc., RNDr. Ivana Sotáková, Ph.D.							

Date of last modification: 03.05.2015

Approved:

University: P. J. Safái	rik University in Košic
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Faculty: Faculty of Science

Course ID: ÚCHV/	Course name: Special practising the school experiments II
SPC1b/03	

Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: 3 Per study period: 42

Course method: present

Number of ECTS credits: 3

Recommended semester/trimester of the course: 2.

Course level: II.

Prerequisities:

Conditions for course completion:

The knowledge of the reaction mechanism of the main tests of several organic compounds derivatives and the ability of their laboratory realization are required.

Written tests: at least 51% from each one is required.

Learning outcomes:

The students will become familiar with the basic laboratory skills and techniques that they can apply in demonstrating experiments in their future career as a teacher. The rules of healthy and safety laboratory work are emphasised.

Brief outline of the course:

Qualitative analysis of organic compounds

Alkanes - preparation of methane

Alkenes - preparation and addition reactions of ethene, addition reactions of β -carotene

Alkynes - preparation of acetylene and studying of its reaction

Aromatic hydrocarbons and their derivatives – preparation and their characteristic reactions

Halogenoderivatives – preparation of chloroethane and iodoform

Hydroxoderivatives and ethers – properties and reactivity - methanol, ethanol, glycerol, preparation of sodium ethanolate, phenols, characteristic properties of diethylether

Carbonyl compounds - preparation and their reactions

Carboxylic acids and their derivatives – preparation and properties

Natural compounds - carbohydrates, proteins, amino acids, lipids

Column chromatography -acetylation reaction of ferrocene - its preparation and separation of the obtained products by column chromatography

Isolation of the fragrant components using steam distillation

Everyday life chemistry

Recommended literature:

1. Smik, L., Merva, L., Brutovská, A: Technika a didaktika školských pokusov, Vyd.Rektorát UPJŠ,Košice,1988

2. Smik, L. a kol.: Špeciálna didaktika chémie II., Vyd. Rektorát UPJŠ, Košice, 1984

3. Internal studying material - Špeciálne praktikum školských pokusov z organickej chémie

Course language: slovak language						
Notes:	Notes:					
Course assessm Total number o	nent f assessed studen	ts: 276				
А	В	С	D	Е	FX	
44.2	28.26	17.03	7.25	3.26	0.0	
Provides: RNDr. Jana Špaková Raschmanová, PhD., RNDr. Ján Elečko, PhD.						
Date of last modification: 05.02.2020						
Approved:						
University: P. J. Šafá	rik University in Košice					
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Faculty: Faculty of S	cience					
Course ID: ÚTVŠ/ TVa/11	Course name: Sports Activities I.					
Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: combined, present						
Number of ECTS cr	edits: 2					
Recommended seme	ster/trimester of the course: 1.					
Course level: I., I.II.,	II.					
Prerequisities:						
Conditions for cours Min. 80% of active p	e completion: articipation in classes.					
Learning outcomes: Sports activities in all They have a great im enables students to s improve.	their forms prepare university students for their professional and personal life. apact on physical fitness and performance. Specialization in sports activities strengthen their relationship towards the selected sport in which they also					
Brief outline of the c Brief outline of the co Within the optional s University provides badminton, body form indoor football, S-M In the first two seme and particularities of physical condition, c Last but not least, the means of a special pr	ourse: ourse: ubject, the Institute of Physical Education and Sports of Pavol Jozef Šafárik for students the following sports activities: aerobics, aikido, basketball, n, bouldering, floorball, yoga, power yoga, pilates, swimming, body-building, systems, step aerobics, table tennis, tennis, volleyball and chess. sters of the first level of education students will master basic characteristics individual sports, motor skills, game activities, they will improve level of their oordination abilities, physical performance, and motor performance fitness. e important role of sports activities is to eliminate swimming illiteracy and by ogram of medical physical education to influence and mitigate unfitness					

In addition to these sports, the Institute offers for those who are interested winter and summer physical education trainings with an attractive program and organises various competitions, either at the premises of the faculty or University or competitions with national or international participation.

Recommended literature:

Course language:

Notes:

Course assessment Total number of assessed students: 12859							
abs	abs-A	abs-B	abs-C	abs-D	abs-E	n	neabs
87.01	0.08	0.0	0.0	0.0	0.04	8.1	4.77
Provides: Mgr. Agata Horbacz, PhD., Mgr. Dávid Kaško, PhD., Mgr. Zuzana Küchelová, PhD., doc. PaedDr. Ivan Uher, PhD., prof. RNDr. Stanislav Vokál, DrSc., Mgr. Marcel Čurgali, Mgr. Patrik Berta, Mgr. Ladislav Kručanica, PhD., Bc. Richard Melichar, Mgr. Petra Tomková, PhD.							
Date of last modification: 13.05.2021							
Approved:							

University:	P. J. Šafáril	c University i	n Košice					
Faculty: Fa	culty of Sci	ence						
Course ID: TVb/11	Course ID: ÚTVŠ/ Course name: Sports Activities II. TVb/11							
Course type Course typ Recommen Per week: Course me	Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: combined, present							
Number of	ECTS cred	lits: 2						
Recommen	ded semest	er/trimester	of the cours	e: 2.				
Course leve	e l: I., I.II., II	- -						
Prerequisit	ies:							
Conditions active partic	for course cipation in c	completion: classes - min.	80%.					
Learning of Sports activ They have enables stu- improve.	Learning outcomes: Sports activities in all their forms prepare university students for their professional and personal life. They have a great impact on physical fitness and performance. Specialization in sports activities enables students to strengthen their relationship towards the selected sport in which they also improve							
Brief outline of the course: Within the optional subject, the Institute of Physical Education and Sports of Pavol Jozef Šafárik University provides for students the following sports activities: aerobics, aikido, basketball, badminton, body form, bouldering, floorball, yoga, power yoga, pilates, swimming, body-building, indoor football, S-M systems, step aerobics, table tennis, tennis, volleyball and chess. In the first two semesters of the first level of education students will master basic characteristics and particularities of individual sports, motor skills, game activities, they will improve level of their physical condition, coordination abilities, physical performance, and motor performance fitness. Last but not least, the important role of sports activities is to eliminate swimming illiteracy and by means of a special program of medical physical education to influence and mitigate unfitness. In addition to these sports, the Institute offers for those who are interested winter and summer physical education trainings with an attractive program and organises various competitions, either at the premises of the faculty or University or competitions with national or international participation.								
Recommended literature:								
Course language:								
Notes:								
Course asse Total numb	essment er of assesse	ed students: 1	1675					
abs	abs-A	abs-B	abs-C	abs-D	abs-E	n	neabs	
84.52	0.56	0.02	0.0	0.0	0.05	10.63	4.22	

Provides: Mgr. Agata Horbacz, PhD., Mgr. Dávid Kaško, PhD., Mgr. Zuzana Küchelová, PhD., doc. PaedDr. Ivan Uher, PhD., prof. RNDr. Stanislav Vokál, DrSc., Mgr. Marcel Čurgali, Mgr. Patrik Berta, Mgr. Ladislav Kručanica, PhD., Bc. Richard Melichar, Mgr. Petra Tomková, PhD.

Date of last modification: 13.05.2021

Approved:

University in Košice Faculty of Science Course ID: ÚTVŠ/ Course ID: ÚTVŠ/ Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per weck: 2 Per study period: 28 Course method: combined, present Number of ECTS credits: 2 Recommended semester/trimester of the course: 3. Course level: 1, 1.II., II. Prerequisities: Course completion: min. 80% of active participation in classes Learning outcomes: Sports activities in all their forms prepare university students for their professional and personal life. They have a great impact on physical fitness and performance. Specialization in sports activities imports. Brief outline of the course: Within the optional subject, the Institute of Physical Education and Sports of Pavol Jozef Šafärik University provides for students the following sports activities: aerobics, aikido, basketball, badminton, body form, bouldering, floorball, yoga, power yoga, pilates, swimming, body-building, indoor football, S-M systems, step aerobics, table tennis, tennis, volleyball and chess. In the first two semesters of the first level of ducucation students will improve level of their									
Faculty of ScienceCourse ID: ÚTVŠ/ Course name: Sports Activities III.Course type: scope and the method: Course type: Practice Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: combined, presentNumber of ECTS credits: 2Recommended semester/trimester of the course: 3.Course method: combined, presentPer week: 2 Per study period: 28 Course method: combined, presentCourse level: 1., 1.1., 11.Percequisities:Conditions for course completion: min. 80% of active participation in classesLearning outcomes: Sports activities in all their forms prepare university students for their professional and personal life. They have a great impact on physical fitness and performance. Specialization in sports activities enables students to strengthen their relationship towards the selected sport in which they also improve.Brief outline of the course:Within the optional subject, the Institute of Physical Education and Sports of Pavol Jozef Šafärik University provides for students the following sports activities: arobies, alido, basketball, badminton, body form, bouldering, floorball, yoga, power yoga, pilates, swimming, body-building, indoor football, S-M systems, step aerobies, table tennis, tonis, volleyball and chess. In the first two semesters of the first level of education students will market basic characteristics and particularities of individual sports, motor skills, game activities, its yoileyball and chess. In the first two semesters of the first level of sports activities is to eliminate swimming illiteracy and by means of a special program	University:	P. J. Šafárik	University i	n Košice					
Course ID: ÚTVŠ/ TV 11</th Course type, scope and the method: Course method: combined, present Number of ECTS credits: 2 Recommended semester/trimester of the course: 3. Course level: 1, 1.1L, II. Prerequisities: Conditions for course completion: min. 80% of active participation in classes Learning outcomes: Sports activities in all their forms prepare university students for their professional and personal life. They have a great impact on physical fitness and performance. Specialization in sports activities enables students to strengthen their relationship towards the selected sport in which they also improve. Brief outline of the course: Within the optional subject, the Institute of Physical Education and Sports of Pavol Jozef Šafärik University provides for students the following sports activities: acrobics, aikido, basketball, badminon, body form, bouldering, floorball, yoga, power yoga, pilates, swimming, body-building, indoor football, S-M systems, step acrobics, table Icnnis, vollcyball and chess. In the first two semesters of the f	Faculty: Fa	culty of Scie	ence						
Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per weck: 2 Per study period: 28 	Course ID: TVc/11	Course ID: ÚTVŠ/ Course name: Sports Activities III. TVc/11 Course name: Sports Activities III.							
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Prerequisities:Conditions for course completion: min. 80% of active participation in classesLearning outcomes: Sports activities in all their forms prepare university students for their professional and personal life. They have a great impact on physical fitness and performance. Specialization in sports activities enables students to strengthen their relationship towards the selected sport in which they also improve.Brief outline of the course: Within the optional subject, the Institute of Physical Education and Sports of Pavol Jozef Šafárik University provides for students the following sports activities: aerobics, aikido, basketball, badminton, body form, bouldering, floorball, yoga, power yoga, pilates, swimming, body-building, indoor football, S-M systems, step aerobics, table tennis, tennis, volleyball and chess. In the first two semesters of the first level of education students will master basic characteristics and particularities of individual sports, motor skills, game activities, they will improve level of their physical condition, coordination abilities, physical performance, and motor performance fitness. In addition to these sports, the Institute offers for those who are interested winter and summer physical education trainings with an attractive program and organises various competitions, either at the premises of the faculty or University or competitions with national or international participation the target program of medical physical education to influence and mitigate unfitness. In addition to these sports, the Institute offers for those who are interested winter and summer physical education trainings with an attractive program and organises various competitions, either at the premises of the faculty or University or competitions with national or international participation<td colspan="2</td> <td>Course leve</td> <td>el: I., I.II., II.</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Course leve	e l: I., I.II., II.							
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Brief outline of the course:Within the optional subject, the Institute of Physical Education and Sports of Pavol Jozef Šafárik University provides for students the following sports activities: aerobics, aikido, basketball, badminton, body form, bouldering, floorball, yoga, power yoga, pilates, swimming, body-building, indoor football, S-M systems, step aerobics, table tennis, tennis, volleyball and chess. In the first two semesters of the first level of education students will master basic characteristics and particularities of individual sports, motor skills, game activities, they will improve level of their physical condition, coordination abilities, physical performance, and motor performance fitness. Last but not least, the important role of sports activities is to eliminate swimming illiteracy and by means of a special program of medical physical education to influence and mitigate unfitness. In addition to these sports, the Institute offers for those who are interested winter and summer 	Learning outcomes: Sports activities in all their forms prepare university students for their professional and personal life. They have a great impact on physical fitness and performance. Specialization in sports activities enables students to strengthen their relationship towards the selected sport in which they also improve.								
Recommended literature:Course language:Notes:Course assessmentTotal number of assessed students: 7873 absabs-Aabs-Babs-Cabs-Dabs-Enneabs88.80.050.010.00.000.034.087.04	Brief outline of the course: Within the optional subject, the Institute of Physical Education and Sports of Pavol Jozef Šafárik University provides for students the following sports activities: aerobics, aikido, basketball, badminton, body form, bouldering, floorball, yoga, power yoga, pilates, swimming, body-building, indoor football, S-M systems, step aerobics, table tennis, tennis, volleyball and chess. In the first two semesters of the first level of education students will master basic characteristics and particularities of individual sports, motor skills, game activities, they will improve level of their physical condition, coordination abilities, physical performance, and motor performance fitness. Last but not least, the important role of sports activities is to eliminate swimming illiteracy and by means of a special program of medical physical education to influence and mitigate unfitness. In addition to these sports, the Institute offers for those who are interested winter and summer physical education trainings with an attractive program and organises various competitions, either at the premises of the faculty or University or competitions with national or international participation.								
Course language:Notes:Course assessmentTotal number of assessed students: 7873absabs-Aabs-Babs-Cabs-Dabs-Enneabs88.80.050.010.00.00.034.087.04	Recommended literature:								
Notes:Course assessment Total number of assessed students: 7873absabs-Aabs-Babs-Cabs-Dabs-Enneabs88.80.050.010.00.00.034.087.04	Course language:								
Course assessment Total number of assessed students: 7873absabs-Aabs-Babs-Cabs-Dabs-Enneabs88.80.050.010.00.00.034.087.04	Notes:								
abs abs-A abs-B abs-C abs-D abs-E n neabs 88.8 0.05 0.01 0.0 0.0 0.03 4.08 7.04	Course asso Total numb	Course assessment Total number of assessed students: 7873							
88.8 0.05 0.01 0.0 0.0 0.03 4.08 7.04	abs	abs-A	abs-B	abs-C	abs-D	abs-E	n	neabs	
	88.8	0.05	0.01	0.0	0.0	0.03	4.08	7.04	

Provides: Mgr. Marcel Čurgali, Mgr. Agata Horbacz, PhD., Mgr. Dávid Kaško, PhD., Mgr. Zuzana Küchelová, PhD., doc. PaedDr. Ivan Uher, PhD., prof. RNDr. Stanislav Vokál, DrSc., Mgr. Patrik Berta, Mgr. Ladislav Kručanica, PhD., Bc. Richard Melichar, Mgr. Petra Tomková, PhD.

Date of last modification: 13.05.2021

Approved:

University:	P. J. Šafárik	University i	n Košice				
Faculty: Fa	culty of Scie	ence					
Course ID: TVd/11	Course ID: ÚTVŠ/ TVd/11Course name: Sports Activities IV.						
Course typ Course tyj Recomme Per week: Course me	Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: combined, present						
Number of	ECTS cred	its: 2					
Recommen	ded semeste	er/trimester	of the cours	e: 4.			
Course leve	el: I., I.II., II	•					
Prerequisit	ies:						
Conditions min. 80% o	for course of active part	completion: icipation in c	lasses				
Learning o Sports activ They have enables stu improve.	utcomes: vities in all th a great impa dents to stro	eir forms pre- act on physic engthen their	pare universi al fitness and relationship	ty students for d performance towards the	or their profes ce. Specializa e selected sp	ssional and p ation in spor port in whic	ersonal life. ts activities h they also
Brief outline of the course: Within the optional subject, the Institute of Physical Education and Sports of Pavol Jozef Šafărik University provides for students the following sports activities: aerobics, aikido, basketball, badminton, body form, bouldering, floorball, yoga, power yoga, pilates, swimming, body-building, indoor football, S-M systems, step aerobics, table tennis, tennis, volleyball and chess. In the first two semesters of the first level of education students will master basic characteristics and particularities of individual sports, motor skills, game activities, they will improve level of their physical condition, coordination abilities, physical performance, and motor performance fitness. Last but not least, the important role of sports activities is to eliminate swimming illiteracy and by means of a special program of medical physical education to influence and mitigate unfitness. In addition to these sports, the Institute offers for those who are interested winter and summer physical education trainings with an attractive program and organises various competitions, either at the premises of the faculty or University or competitions with national or international participation.							
Recommended literature:							
Course language:							
Notes:							
Course asso Total numb	essment er of assesse	ed students: 5	125				
abs	abs-A	abs-B	abs-C	abs-D	abs-E	n	neabs
83.14	0.31	0.04	0.0	0.0	0.0	7.75	8.76

Provides: Mgr. Marcel Čurgali, Mgr. Agata Horbacz, PhD., Mgr. Dávid Kaško, PhD., Mgr. Zuzana Küchelová, PhD., doc. PaedDr. Ivan Uher, PhD., prof. RNDr. Stanislav Vokál, DrSc., Mgr. Patrik Berta, Mgr. Ladislav Kručanica, PhD., Bc. Richard Melichar, Mgr. Petra Tomková, PhD.

Date of last modification: 13.05.2021

Approved:

University: P. J.	Šafárik Univer	sity in Košice			
Faculty: Faculty	y of Science				
Course ID: ÚCI SAZ1/15	CHV/ Course name: Stereochemistry of Inorganic Compounds				
Course type, sc Course type: F Recommended Per week: 2 Pe Course method	ope and the me Practice I course-load (I er study period d: present	ethod: nours): : 28			
Number of ECT	FS credits: 3				
Recommended	semester/trime	ster of the course	e:		
Course level: II					
Prerequisities:					
Conditions for	course complet	ion:			
Learning outco	mes:				
Brief outline of Symmetry, elem Principles of s semiregular poly system.	the course: nents of symme stereochemistry, yhedra. Valence	etry, point groups VSEPR, config shells with 4–12 e	, symmetrical uration of mo electron pairs, g	properties of orb blecules, polyhec eometry of molec	bitals and bonds. Ira, regular and sules and periodic
Recommended literature: Kepert, D. L.: Inorganic Stereochemistry. Springer-Verlag, Berlin, 1982. Kettle, S. F. A.: Symmetry and Structure. John Wiley & Sons, New York, 1985.					
Course language:					
Notes:					
Course assessment Total number of assessed students: 22					
Α	В	С	D	Е	FX
59.09 13.64 18.18 9.09 0.0 0.0					
Provides: prof. RNDr. Vladimír Zeleňák, DrSc.					
Date of last mo	dification: 03.0	5.2015			
Approved:					

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 ECTS credits: 6

Recommended semester/trimester of the course:

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: 119					
А	В	С	D	Е	FX
28.57	16.81	26.05	19.33	8.4	0.84
Provides: doc. RNDr. Ivan Potočňák, PhD.					
Date of last modification: 03.05.2015					
Approved:					

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University: P. J	. Safárik Univers	sity in Košice				
Faculty: Facult	y of Science					
Course ID: ÚM SVK/10	rse ID: ÚMV/ Course name: Students scientific conference					
Course type, so Course type: Recommende Per week: Pe Course metho	Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present					
Number of EC	TS credits: 4					
Recommended	semester/trimes	ster of the cours	e:			
Course level: I.	, II.					
Prerequisities:						
Conditions for	course completi	ion:				
Learning outco Individual scien public presenta	omes: ntific work of stu tion.	dents. Publishing	g of obtained res	ults in a written f	form and as a	
Brief outline of	the course:					
Recommended With respect to	literature: the research pro	blematics (article	in journals, boo	oks).		
Course language: Slovak or English						
Notes:						
Course assessment Total number of assessed students: 101						
A	В	С	D	E	FX	
99.01	99.01 0.99 0.0 0.0 0.0 0.0					
Provides:						
Date of last mo	dification: 03.05	5.2015				
Approved:						
I						

University P I Šafá	rik University in Košice			
Enculture Enculture of C				
Faculty: Faculty of S				
Course ID: UTVS/ LKSp/13	Course name: Summer Course-Rafting of TISA River			
Course type, scope a Course type: Practic Recommended cour Per week: Per stud Course method: pre	nd the method: ce rse-load (hours): ly period: 36s esent			
Number of ECTS cr	edits: 2			
Recommended seme	ster/trimester of the course:			
Course level: I., II.				
Prerequisities:				
Conditions for course Conditions for course Attendance Final assessment: Ra	e completion: completion: ft control on the waterway (attended/not attended)			
Learning outcomes: Learning outcomes: Students have knowled	edge of rafts (canoe) and their control on waterway.			
Brief outline of the course: Brief outline of the course: 1. Assessment of difficulty of waterways 2. Safety rules for rafting 3. Setting up a crew 4. Practical skills training using an empty canoe 5. Canoe lifting and carrying 6. Putting the canoe in the water without a shore contact 7. Getting in the canoe 8. Exiting the canoe out of the water 10. Steering a) The pry stroke (on fast waterways) b) The draw stroke 11. Capsizing 12. Commands				
Recommended litera	iture:			
Course language:				
Notes:				

Course assessment Total number of assessed students: 153				
abs n				
45.75	54.25			
Provides: Mgr. Dávid Kaško, PhD.				
Date of last modification: 18.03.2019				
Approved:				

University: P. J. Šafá	rik University in Košice			
Faculty: Faculty of S	cience			
Course ID: KPE/ MPPa/15	Course ID: KPE/ Course name: Supervised Teaching Practice IPPa/15 IPPa/15			
Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: Per study period: 36s Course method: present				
Number of ECTS cr	edits: 2			
Recommended seme	ster/trimester of the cours	e: 1.		
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 assessed students: 503				
	abs	n		
100.0 0.0				
Provides: doc. PhDr. Beata Gajdošová, PhD., doc. PaedDr. Renáta Orosová, PhD., Mgr. Katarína Petríková, PhD., Mgr. Lenka Kohoutková				
Date of last modification: 08.06.2021				
Approved:				

University: P. J. Šafá	rik University in Košice
Faculty: Faculty of S	cience
Course ID: ÚTVŠ/ KP/12	Course name: Survival Course
Course type, scope a Course type: Practic Recommended cour Per week: Per stud Course method: cor	nd the method: ce rse-load (hours): y period: 36s mbined, present
Number of ECTS cr	edits: 2
Recommended seme	ster/trimester of the course:
Course level: I., II.	
Prerequisities:	
Conditions for cours Conditions for course Attendance Final assessment: cor	e completion: e completion: ntinuous fulfilment of all tasks within the course
Learning outcomes: Learning outcomes: Students will be far conditions as they wi and demanding situa course develops team require overcoming o	niliarized with principles of safe stay and movement in extreme natural ll obtain theoretical knowledge and practical skills to solve the extraordinary tions connected with survival and minimization of damage to health. The n work and students will learn how to manage and face the situations that of obstacles.
 Brief outline of the c Brief outline of the c Brief outline of the c Lectures: Principles of behave Preparation and lead Objective and subjic Principles of hygic Exercises: Movement in terrat Preparation of imp Water treatment and 	ourse: ourse: viour and safety for movement and stay in unknown mountains adership of tour ective danger in mountains one and prevention of damage to health in extreme conditions in, orientation and navigation in terrain (compasses, GPS) rovised overnight stay id food preparation.
Recommended litera	ture:
Course language:	
Notes:	

Course assessment Total number of assessed students: 393					
abs n					
44.53 55.47					
Provides: MUDr. Peter Dombrovský, Mgr. Ladislav Kručanica, PhD.					
Date of last modification: 15.03.2019					
Approved:					

University: P. J.	Šafárik Univers	ity in Košice					
Faculty: Faculty	of Science						
Course ID: KPE PDU/15	E/ Course na	me: Teaching M	ethodology and	Pedagogy			
Course type, sc Course type: L Recommended Per week: 2 / 2 Course method	ope and the met Lecture / Practice l course-load (h 2 Per study perio d: present	thod: ours): od: 28 / 28					
Number of ECT	S credits: 5						
Recommended	semester/trimes	ster of the cours	e: 1.				
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	ent assessed studen	ts: 550					
А	A B C D E FX						
27.27	28.55	25.64	13.27	4.55	0.73		
Provides: doc. F	PaedDr. Renáta C	Drosová, PhD., Pa	edDr. Michal N	ovocký, PhD.	<u> </u>		
Date of last mo	dification: 14.06	5.2021					
Approved:							

University: P. J. Šafán	rik University in Košice					
Faculty: Faculty of Science						
Course ID: KPPaPZ/UPR/15	Course name: The Art of Aiding by Verbal Exchange					
Course type, scope an Course type: Practic Recommended cour Per week: 2 Per stue Course method: pre	nd the method: ce rse-load (hours): dy period: 28 sent					
Number of ECTS cre	edits: 2					
Recommended semes	ster/trimester of the course: 2.					
Course level: II.						
Prerequisities:						
Conditions for course 1. Active participation 2. Elaboration and pr points 20; minimum r 3. Final test in the ran points 20; minimum r presentation and the te The evaluation of the set requirements, while ensure an objective an moral standards. The process or in the assess	e completion: n in seminars esentation of PPT presentation on the assigned topic. Maximum number of number of points 11. ge of 20 questions from selected chapters and lectures. Maximum number of number of points 11. The final evaluation (mark) is the sum of points for the est. A 40b - 37b B 36b - 33b C 32b - 29b D 28b - 25b E 24b - 21b FX 20b - 0b course and its subsequent completion will be based on clearly and objectively ch will be set in advance and will not change. The aim of the assessment is to nd fair mapping of the student's knowledge while adhering to all ethical and re is no tolerance for students' fraudulent behavior, whether in the teaching ssment process.					
Learning outcomes: Provide students with clarify orders. Reflect The student is able to helping conversation. The student is able to techniques to help the The student is able to uprocess. The method of teachi students' needs, expect respect and feedback The content of the cur topicality of the topics the connection of the or in lectures and semina	basic information about a systemic approach to helping. Train interviewing, to help options. demonstrate an understanding of the theoretical principles of conducting a describe, explain and evaluate in what context to use which of the selected interview with the individual. use basic selected techniques when working with an individual in the interview ong the subject will be oriented to the student. Lecturers will be interested in thations and opinions so as to encourage them to think critically by expressing on their opinions and needs. riculum will be based on primary and high-quality sources that will reflect the s so as to ensure the connection of the curriculum with other subjects and also curriculum with practice. Students will be expected to take an active approach ars with an emphasis on their independence and responsibility.					
Brief outline of the co	ourse:					

Psychological preparation for conducting an interview. Self-reflection of one's own possibilities, abilities to lead a conversation, to help. Possibilities of helping with conversations from the point of view of selected psychological approaches. Systematic approach to helping. Interview and professional ways to help and control. Objectivist and constructivist framework of conversation in theory and practice. Is it possible to help with control? Opening the interview, negotiating the course, course, ending the interview. Constructivist questions in the interview. Analysis of individual phases of conducting the interview. Reflex team possibilities of help in conversation. Models of reflective teams. Model situations of conducting an interview with a group. Professional possibilities, advantages and pitfalls of solving problems with an individual, with a group.

Recommended literature:

Course language:							
Notes:							
Course assessment Total number of assessed students: 117							
А	В	С	D	Е	FX		
87.18	3.42	7.69	0.85	0.85	0.0		
Provides: Mgr. Ondrej Kalina, PhD.							
Date of last modification: 24.06.2021							
Approved:							

University: P. J. Šafárik University in Košice					
Faculty: Faculty of Science					
Course ID: KPPaPZ/ZMPPV/15Course name: The Fundamentals of Pedagogico-Psychological Research Methodology					
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 ECTS credits: 4					
Recommended semester/trimester of the course: 2.					

Course level: II.

Prerequisities: KPPaPZ/PPgU/15,KPE/PDU/15

Conditions for course completion:

- active participation in seminars, presentation of assignments in groups, final exam

Learning outcomes:

The graduate of the course will gain information about the research methodology, will understand the basic methods of pedagogical and psychological research that can be used in the practice of the teacher. Within the seminars, students will develop professional skills through their own demonstration of a specific research method. The graduate of the course will be able to carry out simple scientific research, present the results of research and read the results of the latest research in the field of pedagogy and psychology.

Brief outline of the course:

Research in pedagogy and psychology. Scientific research, scientific thinking. Parts of a research project. Research planning. Topic selection, research problem formulation. Types of research plans. Hypothesis, variables, operationalization. Ethical issues of scientific research. Experiment (experiment problems, control of variables in the experiment). Experimental plans, quasi-experiment. Reliability and validity of research. Research sample, methods of sample selection. Data collection techniques - questionnaire, interview, sociometry, semantic differential, observation, tests. Introduction to qualitative methodology. Possibilities of quantitative data processing. How to write a scientific article, presentation, poster, qualification work. Interpretation of findings, integration of findings into context.

Recommended literature:

Bačíková, M., Janovská, A., Orosová, O. Základy metodológie pedagogicko-psychologického výskumu. 2.doplnené vydanie. Šafárik Press, 2019. dostupné online: https://unibook.upjs.sk/img/ cms/2019/FF/zaklady-metodologie-ped-psych-vyskumu-2-vyd-web.pdf

Gavora, P.: Úvod do pedagogického výskumu. Bratislava, UK 1999.

Švec, Š. a kol.: Metodológia vied o výchove. Bratislava, Iris 1998. Turek, I.: K základom pedagogického výskumu. Prešov, KPÚ 1991.

Ferjenčík, J.: Úvod do metodológie psychologického výskumu. Praha, Portál 2000. http://www.e-metodologia.fedu.uniba.sk/

Course language:

Notes:							
Course assessment Total number of assessed students: 526							
A B C D E FX							
18.63 27.38 23.57 19.58 10.65 0.19							
Provides: Mgr. Mária Bačíková, PhD., PhDr. Anna Janovská, PhD.							
Date of last modification: 24.06.2021							
Approved:							

University. F. J. Salarik University in Rusice	University	P. J.	Šafárik	University in	Nošice
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Faculty: Faculty of Science

Course ID: ÚCHV/	Course name: Vybrané kapitoly z chémie
VKCH/10	

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: 4

Recommended semester/trimester of the course: 1.

Course level: II.

Prerequisities:

Conditions for course completion:

Terminal examination by written form.

Learning outcomes:

Organic chemistry:

The general review on the basic chemistry of saccharides, lipids, amino acids and peptides. Inorganic chemstry:

To get acquaintance of the students with the stereochemistry of inorganic compounds, methods of the study and its influence on the properties of the compounds. Moreover to get acquintance of the students with actual direction of inorganic chemistry in the area of nanomaterials.

Brief outline of the course:

Organic chemistry:

Nomenclature of monosaccharides, their stereochemistry (the Fischer projection, the Haworth projection, conformation of sugars). Monosaccharide derivatives. Ascending reactions. Oligosaccharides and polysaccharides.

Lipids, their structure and classification. Groups of lipids. Triacylglycerols, glycerophospholipids sfingophospholipids, glycosphingolipids.

Amino acids, their nomenclature, classification and stereochemistry. Synthesis of amino acids. Nonribosomal construction of peptides.

Inorganic chemistry:

Symmetry, elements of symmetry, point groups, symmetrical properties of orbitals and bonds. Principles of stereochemistry, VSEPR, configuration of molecules, polyhedra, regular and semiregular polyhedra, the use of concept of symmetry in IR and UV-VIS spectroscopy. Nanochemistry - definition, bonds in nanoparticles and nanopowders, interactions between nanoparticles. Unique properties of nanomaterials, new methods of the synthesis of nanomaterials.

Recommended literature:

J. McMurry: Organic chemistry, Brooks/Cole, a Thomson Learning Company 2004, Sixth Eddition, ISBN 0534389996.

J. Chomič: Stereochemistry of inorganic compounds, UPJŠ Košice, 1988.

K. J. Klabunde, R. M. Richards: Nanoscale Materials in Chemistry, Wiley-CH, 2009.

Course language:							
Notes:							
Course assessment Total number of assessed students: 217							
А	B C D E FX						
24.42	28.57	32.72	11.98	1.84	0.46		
Provides: prof. RNDr. Mária Kožurková, CSc., prof. RNDr. Vladimír Zeleňák, DrSc., doc. RNDr. Miroslava Martinková, PhD.							
Date of last modification: 29.08.2021							
Approved:							