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University: P. J. Šafá	rik University in Košice
Faculty: Faculty of S	cience
Course ID: ÚCHV/ AMCU/22	Course name: Activating teaching methods in chemistry
Course type, scope a Course type: Lectur Recommended cour Per week: 2 / 1 Per Course method: pre Number of ECTS cr	nd the method: re / Practice rse-load (hours): study period: 28 / 14 esent edits: 4
Recommended seme	ster/trimester of the course: 1.
Course level: II.	
Prerequisities:	
 Participations in s to participate in semi etc.) for a maximum case of a longer-term be assigned an alterna 2. Active participation students present assign assignments. The assign assignments. The assignments is the 3. The content of the s submits to the course for active inquiry (ind a focus on the develop design of the activity verify understanding 4. The final presentation The final presentation The final presentation 1. Assignments during 2. Seminar work (0 - 3. Final presentation Conditions for succession 	eminars (also applies to the online form of teaching). Students are required nars. The students can excuse themself (incapacity for work, family reasons, of two seminars during the semester without the need for replacement. In the justified absence (for example due to incapacity for work), the student will ative form of completing the missed curriculum. on in class. Seminars are conducted in a form in which students are active - nments, which include worksheets. The student is obliged to prepare 5 written ignments will be available through the e-learning portal LMS Moodle (direct ttps://lms.upjs.sk/) in the course Activating teaching methods in chemistry. eminars also includes assignment in a form of seminar work, which the student The seminar paper will focus on: Suggestion of an activity on a selected topic quiry-based learning, project-based learning, use of digital technologies) with pment of specific scientific and digital skills and skills related to learning. The will also include the design of summative and formative assessment tools to and skills in the topic. ion of the seminar work. Assessment of the presentation skills. (0 - 20 points). n will form a comprehensive output of acquired knowledge and skills. in the course consists of the sum of points obtained for: g the semester 5x (0 - 50 points) 25 points) of the seminar work (0 - 25 points) ssful completion of the course: In order to obtain an A rating, it is necessary

to obtain at least 85 points in total, to obtain an B rating at least 75 points, to obtain a C rating at least 65 points, to obtain a D rating at least 55 points and to obtain an E rating at least 45 points.

Learning outcomes:

Student will acquire an overview of selected activating methods in teaching chemistry from a theoretical and practical point of view. Can design project work, include it in teaching and evaluate its outcomes. Will be able to design inquiry-based activities, include them in teaching and verify their effectiveness based on formative assessment tools. Will gain knowledge about the requirements of assessment in the 21st century with a focus on the development and validation of

conceptual understanding and skills through the tools of summative and formative assessment. Will learn how to create tasks at different levels of Bloom's taxonomy. Will get acquainted with selected cognitive and metacognitive tools of formative assessment as well as with specific examples. Will know and practically use applications usable for online assessment purposes (Google Forms, Socrative, Kahoot, etc.). Will acquire skills for the implementation of teaching with computer-based experiments in terms of work procedures, working with technology and organization of work.

Brief outline of the course:

1. Characteristics of activating methods in chemistry teaching.

2. Project-based method in chemistry teaching, characteristics and examples of project work.

3. Inquiry-based methods in chemistry teaching, examples of inquiry-based activities.

4. Computer-based chemical experiments.

5. Requirements for assessment in the 21st century. Assessment in chemistry teaching I - Summative assessment. Bloom's taxonomy. Creation of tasks and didactic tests using digital tools for summative assessment (Google Forms, Socrative, Kahoot) - practical examples.

6. Assessment in chemistry teaching - Formative assessment. Applications usable for online assessment purposes (Google Forms, Socrative, Kahoot, etc.). Tasks of international PISA measurements - examples of tasks, their characteristics. Complex tasks in teaching chemistry.
7. Concept maps in chemistry.

Recommended literature:

1. GANAJOVÁ, M. KALAFUTOVÁ, J. a kol.: Projektové vyučovanie v chémii. Didaktická príručka pre učiteľov základných škôl. Bratislava: Štátny pedagogický ústav, 2010. 144 s. ISBN 978-80-8118-058-3.

2. Digitálna knižnica pre projektové vyučovanie v chémii. http://kekule.science.upjs.sk/chemia/ digitalna_kniznica/Index.htm

3. KIREŠ, M., JEŠKOVÁ, Z., GANAJOVÁ, M., KIMÁKOVÁ, K.: Bádateľské aktivity v prírodovednom vzdelávaní. Časť A. Bratislava: ŠPÚ, 2016. ISBN 978-80-8118-155-9. https://www.statpedu.sk/files/articles/nove_dokumenty/ucebnice-metodiky-publikacie/badatelske-aktivity/01cast_a_web.pdf

4. GANAJOVÁ, M., KRISTOFOVÁ, M.: Bádateľské aktivity v prírodovednom vzdelávaní. Časť B. Ukážky vytvorených metodických a pracovných materiálov z predmetu Chémia. Bratislava: ŠPÚ, 2016.

https://www.statpedu.sk/files/articles/nove_dokumenty/ucebnice-metodiky-publikacie/ badatelske-aktivity/04cast_b_chemia_web.pdf

5. GANAJOVÁ a kol.: Zbierka inovatívnych metodík z chémie pre základné školy. Doplnené vydanie. Bratislava: CVTI SR, 2021. ISBN 978-80-8240-007-9.

https://vzdelavanie.itakademia.sk/vystupy/zim-che-zs.pdf

6. GANAJOVÁ a kol.: Zbierka inovatívnych metodík z chémie pre stredné školy. Doplnené vydanie. Bratislava: CVTI Bratislava: CVTI SR, 2021. ISBN 978-80-8240-008-6.

https://vzdelavanie.itakademia.sk/vystupy/zim-che-ss.pdf

7. GANAJOVÁ, M.: Metodika tvorby učebných úloh a didaktických testov pre chémiu. Košice: UPJŠ, 2015. ISBN 978-80-8152-237-6. https://unibook.upjs.sk/sk/prirodovedecka-fakulta/445-metodika-tvorby-ucebnych-uloh-a-didaktickych-testov-pre-chemiu

8. GANAJOVÁ a kol.: Rozvíjanie kompetencií žiakov prostredníctvom učebných úloh z chémie. Bratislava: ŠPÚ, 2018. ISBN 978-80-8118-215-0. https://www.statpedu.sk/files/sk/publikacnacinnost/publikacie/spu-chemia-2018-web.pdf

9. GANAJOVÁ, M., BRESTENSKÁ, B., GUNIŠ, J., JEŠKOVÁ, Z., KIREŠ, M., LEŠKOVÁ, A., LUKÁČ, S., OROSOVÁ, R., SOTÁKOVÁ, I., SZARKA, K., ŠNAJDER, Ľ.: Formatívne

hodnotenie vo výučbe prírodných vied, matematiky a informatiky. 1. vyd. UPJŠ v Košiciach, 2021, 450 s. ISBN 978-80-8152-973-3.

10. Inovovaný štátny vzdelávací program pre 2. stupeň ZŠ. Človek a príroda. Chémia. https://www.statpedu.sk/files/articles/dokumenty/inovovany-statny-vzdelavaci-program/ chemia nsv 2014.pdf

11. Inovovaný štátny vzdelávací program pre gymnázia so štvorročným a päťročným vzdelávacím programom. Človek a príroda. Chémia.

https://www.statpedu.sk/files/articles/dokumenty/inovovany-statny-vzdelavaci-program/ chemia_g_4_5_r.pdf

12. Školský informačný systém. Chémia. http://kekule.science.upjs.sk/chemia/index.htm
13. E – learning kurz: Aktivizujúce metódy výučby chémie, https://lms.upjs.sk/

Course language:

Notes:

Course assessment

Total number of assessed students: 42

А	В	С	D	Е	FX
95.24	4.76	0.0	0.0	0.0	0.0

Provides: doc. RNDr. Mária Ganajová, CSc., RNDr. Ivana Sotáková, Ph.D.

Date of last modification: 08.05.2022

Approved: prof. PhDr. Oľga Orosová, CSc., doc. RNDr. Mária Ganajová, CSc., prof. RNDr. Jozef Doboš, CSc.

University: P. J. Šafá	rik University in Košice					
Faculty: Faculty of Science						
Course ID: ÚMV/ ATA/22	Course name: Algebra and theoretical arithmetic					
Course type, scope a Course type: Lectur Recommended cour Per week: 2 / 1 Per Course method: pre Number of ECTS cr	nd the method: re / Practice rse-load (hours): study period: 28 / 14 esent edits: 3					
Recommended seme	ster/trimester of the course: 3.					
Course level: II.						
Prerequisities:						
Conditions for cours During the term, eac based on the overall p Marking classification FX:0%-50%	e completion: h student receives marks for two written exams. Final marking is assigned points for the work throughout the term, for homework and their presentation. on: A:91%-100%, B:81%-90%, C:71%-80%, D:61%-70%, E:51%-60%,					
Learning outcomes: Obtain knowledge ab the orderigs on them. 1. familiarise themse forward arguments, 2. gain a deeper und interconnections, 3. be able to define at 4. know how to solv obtained results.	out sets N, Z, Q and R, about their axiomatic building-up, the operations and The student will lves with mathematical culture, ways of thinking, self-expression and putting derstanding of the base terminology of real analysis, their properties and nd interpret key terms, prove their basic properties and relationships, we tasks focused on utilising the aforementioned concepts and interpret the					
Brief outline of the c Ordered Domains, A Definition and Proper Number-Theoretic Pr The Rational Number Integral Domains and Cantor Sequences, N Ordered Fields, Relat the Completeness of t the Isomorphism of C the Complex Number	ourse: xioms for Rings, Construction for Rings, rties of the Integers, roperties of the Integers, rs, The Arithmetic of the Rational Numbers, I Quotient Fields, The Arithmetic of Sequences, ull Sequences, The Real Numbers, tions between Ordered Fields and the Field of Rational Numbers, the Real Numbers, more Theorems on Ordered and Complete, Ordered Fields, Complete, Ordered Fields, rs					
Recommended litera T. Katriňák, M. Gava Bratislava, 1985.	i ture: lec, E. Gedeonová, J. Smítal: Algebra a teoretická aritmetika (1), Alfa,					

T. Šalát, A. Haviar, T. Hecht, T. Katriňák: Algebra a teoretická aritmetika (2), Alfa, Bratislava, 1986.

G. Birkhoff, S. Mac Lane: Prehl'ad modernej algebry, Alfa, Bratislava, 1979.

N. T. Hamilton, J. Landin: Set Theory. The Structure of Arithmetic, Dover Publications, Inc., 2018.

Course languag Slovak	ge:				
Notes:					
Course assessm Total number of	nent f assessed studen	ts: 71			
А	В	С	D	Е	FX
43.66	26.76	14.08	12.68	2.82	0.0
Provides: prof.	RNDr. Jozef Dol	ooš, CSc.			
Date of last mo	dification: 25.04	.2022			
Approved: prof Doboš, CSc.	f. PhDr. Ol'ga Ore	osová, CSc., doc	. RNDr. Mária G	anajová, CSc., p	rof. RNDr. Jozef

University: P. J. Šafárik University in Košice							
Faculty: Faculty of S	Faculty: Faculty of Science						
Course ID: ÚMV/ AIM/22	Course name: Application of ICT into mathematics teaching						
Course type, scope a Course type: Practi- 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: 3.						
Course level: II.							
Prerequisities: ÚMV	/DDMb/22						
Conditions for course To master specific m of mathematical edu to assess and evaluat support active learnin and research approad teaching of mathema effective use of infor several possibilities of Rating: Entry questionnaire - Design and solution of Test for the application Project for the application topic - 10 b. Didactic processing of Test for solving conse Participating in a dise Use of CAS in solvin Design of examples to Classification scale: A: 91 % - 100 %, B: 8	The completion: eans of information and communication technologies usable for the support cation and for solving various types of mathematical problems. To be able e the suitability and ways of using selected types of modern technologies to ng of mathematics. To be able to apply the basic principles of constructivism thes to the teaching of mathematics in the planning and preparation of the tics. To be able to find and prepare ideas and examples for meaningful and mation and communication technologies in the teaching process, to point out of solving mathematical problems. 2 b. 2 b. 2 b. 5 f motivational word problems for the use of systems of linear equations - 5 b. 5 on of a spreadsheet in solving mathematical problems - 4 b. 5 cation of the EUR model or research-oriented teaching in teaching a selected of a selected construction task - 5 b. 5 truction tasks - 4 b. 5 cussion forum - 2 b. 5 g tasks - 5 b. 5 for the use of CAS in teaching mathematics - 8 b. 5 solving tasks - 5 b. 5 for the use of CAS in teaching mathematics - 8 b. 5 solving tasks - 5 0%.						
Learning outcomes: Students will learn statechnologies in solv suggestions for the environment support modern information	andard work procedures for the use of modern information and communication ing mathematical problems. Students will be provided with examples and use of modern information technologies in creating a stimulating learning ting active learning mathematics. Students will gain skills in the use of technologies in modeling real situations and exploring mathematical patterns.						

specific topics in school mathematics with effective and meaningful use of modern information technologies.

Brief outline of the course:

1. Integration of modern information technologies into mathematical education.

2. - 3. Possibilities of using mathematical tools of a spreadsheet in modeling and solving algorithmic problems in teaching mathematics.

4. - 5. Constructivist conception of teaching mathematics, research of properties of mathematical objects and their mutual relations.

6. - 7. Solving construction tasks, examining the properties of identical and similar transformations and their use in solving problems.

8. Possibilities of using dynamic geometric systems in solving selected types of stereometry tasks.

9. - 10. Mathematical modeling and problem solving in the CAS environment. The position of CAS in the teaching of mathematics.

Recommended literature:

Oldknow, A., Taylor, R., Tetlow, L.: Teaching Mathematics Using ICT, Bloomsbury Publishing, 2010.

Lukáč, S.: Multimédiá a počítačom podporované učenie sa v matematike, PF UPJŠ Košice 2001. Johnston-Wilder, S., Pimm, D.: Teaching secondary mathematics with ICT, Open University Press, 2005.

Vaníček, J.: Počítačové kognitivní technologie ve výuce geometrie. Pedagogická fakulta Univerzity Karlovy, 2009.

Course language:

Slovak

Notes:

Course assessment

Total number of assessed students: 202

А	В	С	D	Е	FX
44.06	28.71	15.35	7.43	4.46	0.0

Provides: doc. RNDr. Stanislav Lukáč, PhD.

Date of last modification: 19.04.2022

Approved: prof. PhDr. Oľga Orosová, CSc., doc. RNDr. Mária Ganajová, CSc., prof. RNDr. Jozef Doboš, CSc.

University: P. J. Šafárik University in Košice							
Faculty: Faculty	Faculty: Faculty of Science						
Course ID: ÚM APM/19	ourse ID: ÚMV/ Course name: Applications of mathematics PM/19						
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 EC	FS credits: 2						
Recommended	semester/trimes	ster of the cours	e: 2.				
Course level: II	•						
Prerequisities:							
Conditions for Presentation on	course completi the chosen topic	on: during the semir	nar.				
Learning outco Students get an activity.	mes: overview of app	plications of math	nematics and its	tools in various	areas of human		
 Applications structure. Statistical me analysis, linear of the use of sha 	 Brief outline of the course: 1. Applications of graphs in analysis of complex networks, their central actors and their community structure. 2. Statistical methods used in shape recognition (geometric morphometrics, principal component analysis, linear regression) with application in the analysis of dinosaur skulls and other examples of the use of shape recognition in practice. 						
Recommended 1. E. A. Robinso 2. U. Brandes, T Computer Scier 3. Karchynskay J. P., de Winter, Obesity for Add	literature: on, D. H. Ullmar F. Erlebach: Netw ice, 3418), 2005. a, V., Kopčáková A. F. a Reijneve blescents? Int. J.	nn: A mathematic vork Analysis: M h, J., Klein, D., G ld, S. A. (2020). Environ. Res. Pu	al look at politic ethodological Fc ába, A., Madaras Is BMI a Valid In blic Health, 17, 4	s, CRC Press, 20 oundations (Lect sová-Gecková, A ndicator of Over 1815.	010. ture Notes in A., van Dijk, tweight and		
Course language: Slovak							
Notes:							
Course assessm Total number of	ent fassessed studen	ts: 28					
А	В	С	D	Е	FX		
82.14	17.86	0.0	0.0	0.0	0.0		
Provides: RND Kiseľák, PhD., c	r. Andrej Gajdoš loc. RNDr. Danie	, PhD., doc. RND el Klein, PhD., pr	Dr. Martina Hančo of. RNDr. Tomá	ová, PhD., doc. š Madaras, PhD	Mgr. Jozef		

Date of last modification: 25.08.2022

Approved: prof. PhDr. Oľga Orosová, CSc., doc. RNDr. Mária Ganajová, CSc., prof. RNDr. Jozef Doboš, CSc.

University: P. J. Š	Šafárik Univers	sity in Košice					
Faculty: Faculty	of Science						
Course ID: ÚCH ZTOX/22	Course ID: ÚCHV/ Course name: Basic Toxicology ZTOX/22						
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	S credits: 2						
Recommended se	emester/trime	ster of the course	:: 1.				
Course level: II.							
Prerequisities:							
Conditions for co	ourse completi	on:					
Learning outcom Goal of the course metabolism, safe	nes: e is to provide t and handling c	he students with a of toxic substance	knowledge of t 5.	types of toxic subs	stances and their		
Historical aspect Disposition of t Metabolism of to environmental po substances.	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.						
Recommended li G. F. Fuhrman: A V. E. Forbes, T. L J. A. Timbrell: In J.H.Duffus, H.G.	terature: .llgemeine Tox . Forbe: Ecoto troduction to T J. Worth: Fund	ikologie fuer Che xicology in Theor oxicology, Taylor amental toxicolog	miker, Teubner y and Practice, &Francis, Lon y, RSC Publish	Verlag, Stutgart 1 Chapman&Hall, don 1994. ning, Cambridge, 2	1984. London 1994. 2006.		
Course language	:						
Notes:							
Course assessment Total number of assessed students: 27							
A	В	С	D	Е	FX		
18.52	22.22	33.33	11.11	14.81	0.0		
Provides: RNDr.	Miroslava Mat	iková Maľarová,	PhD.				
Date of last modi	ification: 21.06	5.2022					
Approved: prof. l Doboš, CSc.	PhDr. Ol'ga Or	osová, CSc., doc.	RNDr. Mária (Ganajová, CSc., pr	rof. RNDr. Jozef		

University: P. J. Šafá	University: P. J. Šafárik University in Košice					
Faculty: Faculty of S	cience					
Course ID: KPPaPZ/SNP/09	Course name: Bullying, 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	star/trimester of the course: 1 3					
Course level: II						
Course level: II.						
Prerequisities:						
Active participation - Active participation - Seminar work - 40% Seminar work 2 - 409	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 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 assessm Total number of	nent f assessed studen	ts: 214			
А	В	С	D	Е	FX
85.51	13.08	0.93	0.47	0.0	0.0
Provides: doc. Mgr. Mária Bačíková, PhD.					
Date of last modification: 24.06.2022					
Approved: prof. PhDr. Oľga Orosová, CSc., doc. RNDr. Mária Ganajová, CSc., prof. RNDr. Jozef Doboš, CSc.					

University: P. J	. Šafárik Univers	ity in Košice					
Faculty: Facult	y of Science						
Course ID: ÚCHV/ Course name: Chemical Engineering ZCVU/22							
Course type, so Course type: Recommended Per week: 2 P Course metho	cope and the met Lecture d course-load (h er study period: d: present	hod: ours): 28					
Number of EC	TS credits: 2						
Recommended	semester/trimes	ster of the cours	e: 2., 4.				
Course level: I	[.						
Prerequisities:							
Conditions for	course completi	on:					
Learning outco	omes:						
Brief outline of General and In and holding; C manufacture (H Silicate industry	the course: organic Engineer Chemical reactors (2SO4, HNO3, H y – cement manu	ring; Mineral ray s; Chemical met Cl, HF, H3PO4); facture, ceramics	v materials; Rav allurgy – Fe, A Industrial electr s; Petrochemistry	w materials proce Al, Cu working; rochemistry; Indu	essing, transport Inorganic acids strial fertilizers;		
Recommended	literature:						
Course languag	ge:						
Notes:							
Course assessm Total number o	1ent f assessed studen	ts: 9					
А	В	С	D	E	FX		
88.89	11.11	0.0	0.0	0.0	0.0		
Provides: prof.	RNDr. Zuzana V	argová, Ph.D.					
Date of last mo	dification: 17.02	2.2022					
Approved: prof Doboš, CSc.	f. PhDr. Ol'ga Oro	osová, CSc., doc	. RNDr. Mária G	anajová, CSc., pr	of. RNDr. Jozef		

University: P. J.	. Šafárik Univers	sity in Košice						
Faculty: Faculty	Faculty: Faculty of Science							
Course ID: ÚC CHE2/22	Course ID: ÚCHV/ Course name: Chemical Excursion CHE2/22							
Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: Per study period: 1t Course method: present								
Number of EC	FS credits: 4							
Recommended	semester/trime	ster of the cours	e: 2.					
Course level: II	Course level: II.							
Prerequisities:	Prerequisities:							
Conditions for	Conditions for course completion:							
Learning outco	Learning outcomes:							
Brief outline of	Brief outline of the course:							
Recommended	literature:							
Course languag	ge:							
Notes:								
Course assessm Total number of	ent f assessed studen	nts: 12						
А	В	С	D	Е	FX			
83.33	83.33 16.67 0.0 0.0 0.0 0.0							
Provides: prof. RNDr. Zuzana Vargová, Ph.D., RNDr. Martin Vavra, PhD.								
Date of last modification: 08.05.2022								
Approved: prof Doboš, CSc.	. PhDr. Ol'ga Or	osová, CSc., doc.	. RNDr. Mária G	anajová, CSc., pr	rof. RNDr. Jozef			

University: P. J.	Šafárik Univers	ity in Košice						
Faculty: Faculty	of Science							
Course ID: ÚCH MSSU1/22	ÚCHV/ Course name: Chemistry and Didactics of Chemistry I							
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present								
Number of ECT	S credits: 2							
Recommended s	semester/trimes	ter of the cours	e:					
Course level: II.								
Prerequisities: ((SPC1b/03) and (U DCH2/15) and Ú	Prerequisities: (ÚCHV/SPC1a/22 or ÚCHV/SPC1a/03) and (ÚCHV/SPC1b/22 or ÚCHV/SPC1b/03) and (ÚCHV/DCH1/22 or ÚCHV/DCH1/15) and (ÚCHV/DCH2/22 or ÚCHV/DCH2/15) and ÚCHV/VKVACH/22							
Conditions for c	ourse completi	on:						
Learning outcom	nes:							
Brief outline of t	the course:							
Recommended l	iterature:							
Course language	2:							
Notes:								
Course assessme Total number of	Course assessment Total number of assessed students: 12							
A	В	С	D	E	FX			
83.33	83.33 8.33 8.33 0.0 0.0 0.0							
Provides:								
Date of last modification: 27.04.2023								
Approved: prof. Doboš, CSc.	PhDr. Ol'ga Orc	osová, CSc., doc	. RNDr. Mária G	anajová, CSc., pr	rof. RNDr. Jozef			

University: P. J.	University: P. J. Šafárik University in Košice							
Faculty: Faculty	y of Science							
Course ID: ÚC MSSU2/22	Se ID: ÚCHV/ Course name: Chemistry and Didactics of Chemistry II U2/22							
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present								
Number of EC	FS credits: 2							
Recommended	semester/trime	ster of the cours	e:					
Course level: II	-							
Prerequisities: SPC1b/03) and (DCH2/15) and U	Prerequisities: (ÚCHV/SPC1a/22 or ÚCHV/SPC1a/03) and (ÚCHV/SPC1b/22 or ÚCHV/SPC1b/03) and (ÚCHV/DCH1/22 or ÚCHV/DCH1/15) and (ÚCHV/DCH2/22 or ÚCHV/DCH2/15) and ÚCHV/VKOCHB/22							
Conditions for	course complet	ion:						
Learning outco	mes:							
Brief outline of	the course:							
Recommended	literature:							
Course languag	ge:							
Notes:								
Course assessm Total number of	Course assessment Total number of assessed students: 0							
A	В	C	D	Е	FX			
0.0	0.0	0.0	0.0	0.0	0.0			
Provides:	Provides:							
Date of last modification: 27.04.2023								
Approved: prof. PhDr. Oľga Orosová, CSc., doc. RNDr. Mária Ganajová, CSc., prof. RNDr. Jozef Doboš, CSc.								

University: P. J	. Šafárik Univers	ity in Košice						
Faculty: Facult	Faculty: Faculty of Science							
Course ID: KP SDaM/15	Course ID: KPO/ Course name: Child and Adolescent Sociology							
Course type, sc Course type: 1 Recommended Per week: 2 P Course metho	ope 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:	Prerequisities:							
Conditions for	Conditions for course completion:							
Learning outco	Learning outcomes:							
Brief outline of	the course:							
Recommended	literature:							
Course languag	ge:							
Notes:								
Course assessm Total number of	Course assessment Total number of assessed students: 968							
А	В	С	D	Е	FX			
50.21	29.13	14.98	3.62	1.55	0.52			
Provides: doc. Mgr. Alexander Onufrák, PhD.								
Date of last modification: 29.06.2022								
Approved: prof Doboš, CSc.	f. PhDr. Ol'ga Oro	osová, CSc., doc.	RNDr. Mária G	anajová, CSc., p	rof. RNDr. Jozef			

University: P. J	University: P. J. Šafárik University in Košice							
Faculty: Facult	Faculty: Faculty of Science							
Course ID: KP MT/09	Course ID: KPE/ Course name: Class Management							
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 EC	TS credits: 2							
Recommended	semester/trimes	ster of the cours	e: 2.					
Course level: II	Course level: II.							
Prerequisities:	Prerequisities:							
Conditions for	Conditions for course completion:							
Learning outco	Learning outcomes:							
Brief outline of	Brief outline of the course:							
Recommended	literature:							
Course languag	ge:							
Notes:								
Course assessment Total number of assessed students: 572								
А	В	С	D	Е	FX			
53.85	34.79	8.39	1.57	0.52	0.87			
Provides: doc. PaedDr. Renáta Orosová, PhD.								
Date of last modification: 12.03.2024								
Approved: prof. PhDr. Oľga Orosová, CSc., doc. RNDr. Mária Ganajová, CSc., prof. RNDr. Jozef Doboš, CSc.								

University: P. J. Safarik Un	iversity in	Kosice
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Faculty: Faculty of Science

Course ID: ÚCHV/	Course name: Continuous practice teaching I
MPPc/15	

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 credits: 2

Recommended semester/trimester of the course: 3.

Course level: II.

Prerequisities: ÚCHV/MPPb/15 and ÚCHV/DCH1/22 or ÚCHV/DCH1/15

Conditions for course completion:

- 1. Compulsory attendance during the organisational and informational seminar.
- 2. Compulsory attendance: sitting in on classes, analytical classes at training schools.
- 3. Sitting in on classes and analytical classes with supervising teachers -6x.
- 4. Teaching classes and analytical classes under supervision 18x.
- 5. Submitted Continued practice teaching (CPT) I documentation.

(Sitting-in records, Written class preparations, List of sitting-in sessions and trainee's performance during CPT I, CPT I report, Assessment of the trainee's pedagogical performance during CPT).

Learning outcomes:

The student can plan lessons and teach them. Present their own psychodidactic and subject-specific didactic concepts of teaching in the environment of a real school classroom. Apply the didactic skills developed during the previous observation of teaching in practice to teach chemistry. Evaluate one's own lesson project and professional competence level (areas: student, educational process, professional development) in terms of pedagogic theory and assessment provided by the supervising teacher.

Brief outline of the course:

Observation and analysis of chemistry lessons and teaching under the supervision of the supervising teacher. Written class preparation and teaching, active participation in extracurricular activities. Didactic Continued practice teaching I analysis.

Recommended literature:

Current chemistry textbooks for primary and secondary schools in the Slovak Republic.

Course language:

Notes:

Course assessment

Total number of assessed students: 176

abs	n
100.0	0.0

Provides: doc. RNDr. Mária Ganajová, CSc., RNDr. Ivana Sotáková, Ph.D.

Date of last modification: 26.10.2021

Approved: prof. PhDr. Ol'ga Orosová, CSc., doc. RNDr. Mária Ganajová, CSc., prof. RNDr. Jozef Doboš, CSc.

University: P. J. Šafá	rik University in Košice
Faculty: Faculty of S	Science
Course ID: ÚMV/ VSPc/15	Course name: Continuous practice teaching I
Course type, scope a Course type: Practi Recommended cou Per week: Per stud Course method: pr	and the method: ce rse-load (hours): ly period: 4t esent
Number of ECTS cr	redits: 2
Recommended seme	ester/trimester of the course: 3.
Course level: II.	
Prerequisities: ÚMV	//VPPb/15
Teaching of a specifi and 6 visitation of cl Submission of writte classes visitations, se	ed number of hours and visitations of specified number of classes (18 teaching asses). n assignments (reflection on teaching practice, statement of teaching hours and elected lesson plans).
Learning outcomes: Application of the k pedagogical practice analysis of the lesson shift his/her knowled	nowledge acquired in didactic courses focused on teaching mathematics in b. Development of the student's self-reflection within the framework of the is taught by the student. Identification of the student's weaknesses in order to lge. Acquaint students with the atmosphere and the organization of school.
Brief outline of the of Visitations of classes Analysis of lessons Lesson plans prepara Classes managed acc Reflection on realize	course: in selected lessons ation cording to prepared lesson plan d classes
Recommended liter Mathematics curricu Hejný, M.: Teória vy M. Hejný, J. Novotn Karlova v Praze - Pe	ature: la and textbooks for middle and secondary schools ručovania matematiky 2. Bratislava : SPN 1989 á, N. Stehlíková: Dvacet pět kapitol z didaktiky matematiky 2, Univerzita dagogická fakulta, Praha, 2004
Course language: Slovak	
Notes:	

Course assessment Total number of assessed students: 109	
abs	n
100.0	0.0
Provides: doc. RNDr. Ingrid Semanišinová, PhD. Veronika Hubeňáková, PhD.	, doc. RNDr. Dušan Šveda, CSc., RNDr.
Date of last modification: 24.08.2022	
Approved: prof. PhDr. Oľga Orosová, CSc., doc. Doboš, CSc.	RNDr. Mária Ganajová, CSc., prof. RNDr. Jozef

University	Р	ТŠ	Šafárik	Univer	sity	in	Košice
University.	1.	J. K	Jararik	Univers	sity	III .	RUSICC

Faculty: Faculty of Science

Course ID: ÚCHV/	Course name: Continuous practice teaching II
MPPd/15	

Course type, scope and the method: Course type: Practice

Recommended course-load (hours):

Per week: Per study period: 6t

Course method: present

Number of ECTS credits: 2

Recommended semester/trimester of the course: 4.

Course level: II.

Prerequisities: ÚCHV/MPPc/15 and ÚCHV/DCH2/22

Conditions for course completion:

- 1. Compulsory attendance during the organisational and informational seminar.
- 2. Compulsory attendance: sitting in on classes, analytical classes at training schools.
- 3. Complete 8 lessons: sitting in on classes and analytical classes with supervising teachers.
- 4. Teaching classes and analytical classes under supervision -30x.
- 5. Submit Continued practice teaching (CPT) II documentation.

(Trainee's sitting-in and teaching schedule, Sitting-in records, Written class preparations, List of sitting-in sessions and trainee's performance during CPT II, CPT II report, Assessment of the trainee's pedagogical performance during CPT).

Learning outcomes:

The student can plan a series of lessons and other forms of instruction and teach them continually. Apply the pedagogic as well as subject-specific theory in practical teaching. Apply the didactic skills developed during the previous teaching practice completed in the actual educational environment. Evaluate one's own lesson project and professional competence level (areas: student, educational process, professional development) in terms of pedagogic theory and evaluation provided by the supervising teacher.

Brief outline of the course:

Observation and analysis of chemistry lessons and teaching under supervision. Written class preparation and teaching, active participation in extracurricular activities. Didactic Continued practice teaching (CPT) II analysis.

Recommended literature:

Current chemistry textbooks for primary and secondary schools in the Slovak Republic.

Course language:

Notes:

Course assessment Total number of assessed students: 155			
abs	n		
100.0 0.0			
Provides: doc. RNDr. Mária Ganajová, CSc., RNDr. Ivana Sotáková, Ph.D.			
Date of last modification: 17.11.2021			
Approved: prof. PhDr. Ol'ga Orosová, CSc., doc. RNDr. Mária Ganajová, CSc., prof. RNDr. Jozef Doboš, CSc.			

University: P. J. Šafá	rik University in Košice	
Faculty: Faculty of S	cience	
ourse ID: ÚMV/ SPd/15Course name: Continuous practice teaching II		
Course type, scope a Course type: Practic Recommended cou 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 the course: 4.	
Course level: II.		
Prerequisities: UMV	/VSPc/15	
Teaching of a specific and 8 visitation of cla Submission of written classes visitations, se Learning outcomes: Application of the k pedagogical practice	ed number of hours and visitations of specified number of classes (30 teaching asses). n assignments (reflection on teaching practice, statement of teaching hours and lected lesson plans). nowledge acquired in didactic courses focused on teaching mathematics in Development of the student's self-reflection within the framework of the	
analysis of the lessor shift his/her knowled	is taught by the student. Identification of the student's weaknesses in order to ge. Acquaint students with the atmosphere and the organization of school.	
Brief outline of the c Visitations of classes Analysis of lessons Lesson plans prepara Classes managed acc Reflection on realized	ourse: in selected lessons tion ording to prepared lesson plan d classes	
Recommended litera Mathematics curricul Hejný, M.: Teória vy M. Hejný, J. Novotna Karlova v Praze - Peo	a and textbooks for middle and secondary schools a and textbooks for middle and secondary schools učovania matematiky 2. Bratislava : SPN 1989 á, N. Stehlíková: Dvacet pět kapitol z didaktiky matematiky 2, Univerzita dagogická fakulta, Praha, 2004	
Course language: Slovak		
Notes:		

Course assessment Total number of assessed students: 98	
abs	n
100.0	0.0
Provides: doc. RNDr. Ingrid Semanišinová, PhD Veronika Hubeňáková, PhD.	., doc. RNDr. Dušan Šveda, CSc., RNDr.
Date of last modification: 24.08.2022	
Approved: prof. PhDr. Ol'ga Orosová, CSc., doc. Doboš, CSc.	RNDr. Mária Ganajová, CSc., prof. RNDr. Jozef

University: P. J	. Šafárik Univers	sity in Košice			
Faculty: Facult	Faculty: Faculty of Science				
Course ID: KP TTUP/15	PE/ Course name: Creating Text Teaching Aids				
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 EC	TS credits: 2				
Recommended	semester/trimes	ster of the cours	e: 2.		
Course level: II	[.				
Prerequisities:					
Conditions for	Conditions for course completion:				
Learning outcomes:					
Brief outline of the course:					
Recommended literature:					
Course language:					
Notes:					
Course assessment Total number of assessed students: 229					
А	В	С	D	Е	FX
57.64	30.13	8.73	2.62	0.87	0.0
Provides: doc. PaedDr. Renáta Orosová, PhD.					
Date of last modification: 12.03.2024					
Approved: prof. PhDr. Ol'ga Orosová, CSc., doc. RNDr. Mária Ganajová, CSc., prof. RNDr. Jozef Doboš, CSc.					

University: P. J.	Šafárik Univers	ity in Košice			
Faculty: Faculty	of Science				
Course ID: KSSFaK/ KJPUAP/15	Course na	Course name: Culture of Spoken Discourse			
Course type, sco Course type: L Recommended Per week: 1 / 1 Course method	ope and the met Lecture / Practice I course-load (h Per study perio d: present	thod: ; ours): od: 14 / 14			
Number of ECT	FS credits: 2				
Recommended	semester/trimes	ster of the cours	se: 1.		
Course level: II					
Prerequisities:	Prerequisities:				
Conditions for course completion:					
Learning outcomes:					
Brief outline of the course:					
Recommended literature:					
Course language:					
Notes:					
Course assessm Total number of	ent assessed studen	ts: 0			
A	В	С	D	Е	FX
0.0	0.0 0.0 0.0 0.0 0.0 0.0				0.0
Provides: PhDr. Iveta Bónová, PhD.					
Date of last modification: 24.06.2022					
Approved: prof Doboš, CSc.	. PhDr. Ol'ga Oro	osová, CSc., doc	. RNDr. Mária G	anajová, CSc., pr	of. RNDr. Jozef

University: P. J. Šafán	rik University in Košice			
Faculty: Faculty of Science				
Course ID: KPPaPZ/VPU/17	Course name: Developmental Psychology for Teachers			
Course type, scope an Course type: Practic Recommended cour Per week: 2 Per stu Course method: pre	nd the method: ce se-load (hours): dy period: 28 sent			
Number of ECTS cro	edits: 2			
Recommended seme	ster/trimester of the course: 1.			
Course level: II.				
Prerequisities:				
Conditions for cours Evaluation of particip of seminar work,	e completion: bation in teaching, continuous evaluation of activity in seminars, evaluation			
Learning outcomes: The graduate will un characterize the norm school age and adoles published in foreign the topics covered. The of parents and friends 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 ctice 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 Říčan, P. Cesta životem. Portál, Praha, 2004. Thorová, K. Vývojová psychologie. Portál, Praha, 2015. Macek, P. Adolescence. Praha: Portál, 2003 Matějček, Z rôzne diela Bačíková, M. Psychológia rodičovskej kontroly, Šafárik Press, Košice 2019 Course language:				
Vourse language:				
INOTES:				

Course assessment Total number of assessed students: 109					
А	В	С	D	Е	FX
77.98	15.6	3.67	2.75	0.0	0.0
Provides: doc. Mgr. Mária Bačíková, PhD.					
Date of last modification: 24.06.2022					
Approved: prof. PhDr. Oľga Orosová, CSc., doc. RNDr. Mária Ganajová, CSc., prof. RNDr. Jozef Doboš, CSc.					

	COURSE INFORMATION LETTER
University: P. J. Šafár	rik University in Košice
Faculty: Faculty of So	cience
Course ID: ÚCHV/ DCH1/22	Course name: Didactics of Chemistry I
Course type, scope an Course type: Lecture Recommended cour Per week: 1 / 2 Per s Course method: pres	nd the method: e / Practice rse-load (hours): study period: 14 / 28 sent
Number of ECTS cre	edits: 4
Recommended semes	ster/trimester of the course: 2.
Course level: II.	
Prerequisities: ÚCHV	V/SPC1a/22
 Participations in set to participate in seminet etc.) for a maximum of case of a longer-term be assigned an alternal Active participation students present assign assignments and a mid Topics of micro-output Moodle (direct link to 3. The content of the submits to the course The student must proprise form application. Studgenerated. The final assessment in Seminar work (0-20) Continuous assessing 3. Oral exam (0-50 pc) Conditions for successing and to obtain an E rational sectors of the submites of the successing the successing the successing of the successing the succ	minars (also applies to tohe online form of teaching). Students are required hars. The students can excuse themself (incapacity for work, family reasons, of two seminars during the semester without the need for replacement. In the justified absence (for example due to incapacity for work), the student will tive form of mastering the missed curriculum. n in class. Seminars are conducted in a form in which students are active – nments, which include worksheets. The student is obliged to prepare 2 written cro-output, which will be one of the conditions for participation in the exam. Its as well as requirements will be available through the e-learning portal LMS to the website: https://lms.upjs.sk/) in the course Didactics of Chemistry I. e seminars also includes assignments of seminar papers, which the student Didactics of Chemistry I. ass a continuous assessment in the form of a written exam twice a semester. the exam is conducted in person as an oral exam. ic situation, the written form of the exam is conducted through the Google dents fill in the answers to the written test. Test questions are always randomly in the course consists of the sum of points obtained for: 0 points) nent (0-30 points) bints) sful completion of the course: A rating, it is necessary to obtain at least 85 points in total, to obtain an B ts, to obtain a C rating at least 65 points, to obtain a D rating at least 55 points ing at least 45 points

The student will acquire knowledge and necessary skills for the work of teachers in the field of didactics of general and inorganic chemistry. Can implement inquiry-based learning and digital tools in the teaching of topics from these fields of chemistry at primary school and grammar school with a focus on the use of videos, models, animations, simulations, interactive games

and exercises (https://viki.iedu.sk/landing, https://phet.colorado.edu/sk/, https://www.olabs.edu.in/, https://studiumchemie.cz/). Expand your knowledge and skills on how to carry out demonstration experiments and projected experiments using a digital visualizer.

Brief outline of the course:

1. Introduction to didactics of chemistry. History of chemistry didactics and its current state. Teacher preparation for teaching (basic curricular documents: State educational program, school educational program, curricula, thematic educational plan, teacher preparation for a lesson).

- 2. Teaching aids in chemistry. Information and communication technologies in chemistry teaching.
- 3. School chemical experiment in chemistry teaching, demonstration and projected experiments.
- 4. Nomenclature of inorganic chemistry. Use of didactic games.

5. Didactics of calculation tasks in chemistry. Chemical calculations with a focus on the chemistry of everyday life.

6. Didactics of the topic Matter, substance, mixture. Inquiry methods in teaching the topic Mixtures and separation of components of mixtures. Inquiry-based method in teaching chemistry.

7. Didactics of the topic Atom, its composition and structure.

8. Didactics of the topic Chemical bonding.

9. Didactics of the topic Periodic table of elements. Interactive periodic table of elements at the Institute of Chemistry Faculty of Science, P. J. Šafárik University in Košice.

10. Didactics of the topic Chemical process. Thermochemistry and Chemical Kinetics.

11. Didactics of the topic Chemical process. Types of chemical reactions. Practical use of redox events. Electrolysis. Galvanic cells. Inquiry activities, computer-based experiments and projected experiments using a digital visualizer on the topic of Chemical process.

12. Presentation of micro-outputs on assigned topics.

Recommended literature:

1. GANAJOVÁ, M.: Vybrané kapitoly zo všeobecnej didaktiky chémie. UPJŠ v Košiciach, Prírodovedecká fakulta, 2009, 141 s. ISBN 978-80-7097-756-9.

2. KIREŠ, M., JEŠKOVÁ, Z., GANAJOVÁ, M., KIMÁKOVÁ, K.: Bádateľské aktivity v prírodovednom vzdelávaní. Časť A. Bratislava: ŠPÚ, 2016. ISBN 978-80-8118-155-9. https://www.statpedu.sk/files/articles/nove_dokumenty/ucebnice-metodiky-publikacie/badatelske-aktivity/01cast_a_web.pdf

3. GANAJOVÁ, M., KRISTOFOVÁ, M.: Bádateľské aktivity v prírodovednom vzdelávaní. Časť B. Ukážky vytvorených metodických a pracovných materiálov z predmetu Chémia. Bratislava: ŠPÚ, 2016. https://www.statpedu.sk/files/articles/nove_dokumenty/ucebnice-

metodiky-publikacie/badatelske-aktivity/04cast_b_chemia_web.pdf

4. GANAJOVÁ a kol.: Zbierka inovatívnych metodík z chémie pre základné školy. Doplnené vydanie. Bratislava: CVTI SR, 2021. ISBN 978-80-8240-007-9.

https://vzdelavanie.itakademia.sk/vystupy/zim-che-zs.pdf

5. GANAJOVÁ a kol.: Zbierka inovatívnych metodík z chémie pre stredné školy. Doplnené vydanie. Bratislava: CVTI Bratislava: CVTI SR, 2021. ISBN 978-80-8240-008-6.

https://vzdelavanie.itakademia.sk/vystupy/zim-che-ss.pdf

6. GANAJOVÁ, M.: Metodika tvorby učebných úloh a didaktických testov pre chémiu. Košice: UPJŠ, 2015. ISBN 978-80-8152-237-6. https://unibook.upjs.sk/sk/prirodovedecka-fakulta/445-metodika-tvorby-ucebnych-uloh-a-didaktickych-testov-pre-chemiu

7. GANAJOVÁ a kol.: Rozvíjanie kompetencií žiakov prostredníctvom učebných úloh z chémie. Bratislava: ŠPÚ, 2018. ISBN 978-80-8118-215-0. https://www.statpedu.sk/files/sk/publikacnacinnost/publikacie/spu-chemia-2018-web.pdf

8. GANAJOVÁ, M., BRESTENSKÁ, B., GUNIŠ, J., JEŠKOVÁ, Z., KIREŠ, M., LEŠKOVÁ, A., LUKÁČ, S., OROSOVÁ, R., SOTÁKOVÁ, I., SZARKA, K., ŠNAJDER, Ľ.: Formatívne

hodnotenie vo výučbe prírodných vied, matematiky a informatiky. 1. vyd. UPJŠ v Košiciach, 2021, 450 s. ISBN 978-80-8152-973-3.

9. Inovovaný štátny vzdelávací program pre 2. stupeň ZŠ. Človek a príroda. Chémia. https://www.statpedu.sk/files/articles/dokumenty/inovovany-statny-vzdelavaci-program/ chemia_nsv_2014.pdf

10. Inovovaný štátny vzdelávací program pre gymnázia so štvorročným a päťročným vzdelávacím programom. Človek a príroda. Chémia. https://www.statpedu.sk/files/articles/ dokumenty/inovovany-statny-vzdelavaci-program/chemia_g_4_5_r.pdf

11. Učebnice chémie pre základné školy a gymnáziá.

12. E – learning kurz: Didaktika chémie I, https://lms.upjs.sk/

Course language:

Notes:

Course assessment

Total number of assessed students: 24

А	В	С	D	Е	FX
70.83	16.67	8.33	0.0	4.17	0.0

Provides: doc. RNDr. Mária Ganajová, CSc., RNDr. Ivana Sotáková, Ph.D., RNDr. Martin Vavra, PhD.

Date of last modification: 08.05.2022

Approved: prof. PhDr. Oľga Orosová, CSc., doc. RNDr. Mária Ganajová, CSc., prof. RNDr. Jozef Doboš, CSc.

University: P. J. Šafárik University in Koš	ice
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Faculty: Faculty of Science

Course ID: ÚCHV/	Course name: Didactics of Chemistry II
DCH2/22	

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 credits: 4

Recommended semester/trimester of the course: 3.

Course level: II.

Prerequisities: ÚCHV/DCH1/22 or ÚCHV/DCH1/15

Conditions for course completion:

1. Participations in seminars (also applies to tohe online form of teaching). Students are required to participate in seminars. The students can excuse themself (incapacity for work, family reasons, etc.) for a maximum of two seminars during the semester without the need for replacement. In the case of a longer-term justified absence (for example due to incapacity for work), the student will be assigned an alternative form of mastering the missed curriculum.

2. Active participation in class. Seminars are conducted in a form in which students are active – students present assignments, which include worksheets. The student is obliged to prepare 2 written assignments, which will be one of the conditions for participation in the exam. Topics of written assignments as well as requirements will be available through the e-learning portal LMS Moodle (direct link to the website: https://lms.upjs.sk/) in the course Didactics of Chemistry II.

3. The content of the seminars also includes assignments of seminar papers, which the student submits to the course Didactics of Chemistry II.

4. The student must pass a continuous assessment in the form of a written exam twice a semester.5. Passing the exam: Passing the exam: the exam is conducted in person as an oral exam.

In times of a pandemic situation, the written form of the exam is conducted through the Google Form application. Students fill in the answers to the written test. Test questions are always randomly generated.

The final assessment in the course consists of the sum of points obtained for:

- 1. Written assignments (0-20 points)
- 2. Seminar work (0-10 points)
- 3. Written tests (0-20 points)
- 5. Oral exam (50 points)

Conditions for successful completion of the course: In order to obtain an A rating, it is necessary to obtain at least 85 points in total, to obtain an B rating at least 75 points, to obtain a C rating at least 65 points, to obtain a D rating at least 55 points and to obtain an E rating at least 45 points.

Learning outcomes:

Student will acquire knowledge and necessary skills for the work of teachers in the field of didactics of inorganic and organic chemistry as well as in selected topics of didactics of biochemistry. Can implement inquiry-based learning and digital tools in the teaching of topics from these fields of chemistry at primary school and
grammar school with a focus on the use of videos, models, animations, simulations, interactive games and exercises (https://viki.iedu.sk/landing, http://kekule.science.upjs.sk/chemia/ index.htm, https://studiumchemie.cz/, http://www.studiumbiochemie.cz/aplikace2.html#10, http:// didaktikabiochemie.natur.cuni.cz/db2020/db.html). He is able to included selected topics with an interdisciplinary focus (water quality, greenhouse effect, ozone hole, renewable energy sources) into teaching.

Brief outline of the course:

1. Didactics of inorganic chemistry – selected chemical elements and their inorganic compounds. Alkali metals, alkaline earth metals, selected transition elements. Use of SATL method in teaching chemistry, complex tasks focused on the development of transformation skills.

2. Didactics of the topic Air, Global environmental problems: Ozone and the ozone hole, Greenhouse effect.

3. Didactics of inorganic chemistry – selected chemical elements and their inorganic compounds. Alkali metals, alkaline earth metals, selected transition elements. Use of SATL method in teaching chemistry, complex tasks focused on the development of transformation skills.

4. Didactics of organic chemistry. Isomerism in the teaching of organic chemistry - Constitutional isomerism and stereoisomerism.

5. Didactics of the topic Hydrocarbons and hydrocarbon derivatives. SATL method. Energy sources - fossil fuels and renewable energy sources.

6. Plastics, chemistry of macromolecular substances. Use of inquiry-based method in teaching topics: Recognition of plastics, Properties of plastics.

7. Didactics of the topic Natural substances. Use of inquiry-based learning and project-based learning in topics: Proteins, Carbohydrates, Lipids. Home experiments on Proteins, Carbohydrates, Fats.

8. Didactics of the topic Washing and cleaning agents.

9. Didactics of the topic Additives in food. Didactics of the topic Vitamins. Didactics of selected topics from biochemistry Biosynthesis and metabolism, digestion and metabolism.

Recommended literature:

1. GANAJOVÁ, M. KALAFUTOVÁ, J. a kol.: Projektové vyučovanie v chémii. Didaktická príručka pre učiteľov základných škôl. Bratislava: Štátny pedagogický ústav, 2010. 144 s. ISBN 978-80-8118-058-3.

2. KIREŠ, M., JEŠKOVÁ, Z., GANAJOVÁ, M., KIMÁKOVÁ, K.: Bádateľské aktivity v prírodovednom vzdelávaní. Časť A. Bratislava: ŠPÚ, 2016. ISBN 978-80-8118-155-9. https://www.statpedu.sk/files/articles/nove_dokumenty/ucebnice-metodiky-publikacie/ badatelske-aktivity/01cast_a_web.pdf

3. GANAJOVÁ, M., KRISTOFOVÁ, M.: Bádateľské aktivity v prírodovednom vzdelávaní. Časť B. Ukážky vytvorených metodických a pracovných materiálov z predmetu Chémia. Bratislava: ŠPÚ, 2016. https://www.statpedu.sk/files/articles/nove_dokumenty/ucebnicemetodiky-publikacie/badatelske-aktivity/04cast_b_chemia_web.pdf

4. GANAJOVÁ a kol.: Zbierka inovatívnych metodík z chémie pre základné školy. Doplnené vydanie. Bratislava: CVTI SR, 2021. ISBN 978-80-8240-007-9. https:// vzdelavanie.itakademia.sk/vystupy/zim-che-zs.pdf

5. GANAJOVÁ a kol.: Zbierka inovatívnych metodík z chémie pre stredné školy. Doplnené vydanie. Bratislava: CVTI SR, 2021. ISBN 978-80-8240-008-6. https:// vzdelavanie.itakademia.sk/vystupy/zim-che-ss.pdf

6. GANAJOVÁ, M.: Metodika tvorby učebných úloh a didaktických testov pre chémiu. Košice: UPJŠ, 2015. ISBN 978-80-8152-237-6. https://unibook.upjs.sk/img/cms/2015/pf/didaktika-textyganajova.pdf

7. GANAJOVÁ a kol.: Rozvíjanie kompetencií žiakov prostredníctvom učebných úloh z chémie. Bratislava: ŠPÚ, 2018. ISBN 978-80-8118-215-0. https://www.statpedu.sk/files/sk/publikacnacinnost/publikacie/spu-chemia-2018-web.pdf

8. GANAJOVÁ, M., BRESTENSKÁ, B., GUNIŠ, J., JEŠKOVÁ, Z., KIREŠ, M., LEŠKOVÁ, A., LUKÁČ, S., OROSOVÁ, R., SOTÁKOVÁ, I., SZARKA, K., ŠNAJDER, Ľ.: Formatívne hodnotenie vo výučbe prírodných vied, matematiky a informatiky. 1. vyd. UPJŠ v Košiciach, 2021, 450 s. ISBN 978-80-8152-973-3.

9. Inovovaný štátny vzdelávací program pre 2. stupeň ZŠ. Človek a príroda. Chémia. https://www.statpedu.sk/files/articles/dokumenty/inovovany-statny-vzdelavaci-program/ chemia_nsv_2014.pdf

10. Inovovaný štátny vzdelávací program pre gymnázia so štvorročným a päťročným vzdelávacím programom. Človek a príroda. Chémia.

https://www.statpedu.sk/files/articles/dokumenty/inovovany-statny-vzdelavaci-program/ chemia g 4 5 r.pdf

11. Školský informačný systém. Chémia. http://kekule.science.upjs.sk/chemia/index.htm

12. E - learning kurz: Didaktika chémie II, https://lms.upjs.sk/

Course language:

Notes:

Course assessment

Total number of assessed students: 39

А	В	С	D	Е	FX
89.74	10.26	0.0	0.0	0.0	0.0

Provides: doc. RNDr. Mária Ganajová, CSc., RNDr. Ivana Sotáková, Ph.D., RNDr. Martin Vavra, PhD.

Date of last modification: 08.05.2022

University: P. J. Š	University: P. J. Šafárik University in Košice						
Faculty: Faculty of	of Science						
Course ID: ÚMV/ DDMa/22	ÚMV/ Course name: Didactics of mathematics I						
Course type, scop Course type: Lea Recommended c Per week: 1 / 1 P Course method:	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 ECTS	credits: 2						
Recommended se	mester/trimes	ster of the cours	e: 1.				
Course level: II.							
Prerequisities:							
Conditions for co Active participation Seminar works - 6	urse completion on - 40% of ass 50% of assessn	on: sessment nent					
The student understands the term function and its various aspects also in the context of different definitions of the term function. He looks critically at the school curriculum from the point of view of the development of the concept of function. It characterizes high-quality formative assessment and can react differently to correct and incorrect student solutions. He applies the acquired knowledge in the design of the lesson plan. He knows the MTSK model and knows how to use it as a tool for his self-reflection							
Brief outline of the course: The concept of function in mathematics, its aspects, and definitions. The concept of function in the school curriculum, knowledge of the structure of mathematics with respect to the concept of function. Proximal formative assessment, knowledge of the characteristics of learning mathematics. Instrumented formative assessment with a focus on the use of digital technologies for assessment in mathematics. Selection of tasks and digital tools for teaching functions. MTSK model as a tool for teacher self-reflection.							
Recommended literature: Slovak and Czech mathematics textbooks for secondary education. National mathematics curriculum of Slovakia, Czech republic and USA.							
Course language: Slovak							
Notes:							
Course assessmen Total number of a	ıt ssessed studen	ts: 121					
A	В	С	D	Е	FX		
47.11	34.71	11.57	4.13	2.48	0.0		

Provides: RNDr. Veronika Hubeňáková, PhD.

Date of last modification: 26.08.2022

J niversity: P. J. Šafárik University in Košice				
F aculty: Faculty of S	cience			
C ourse ID: ÚMV/ DDMb/22	Course name: Didactics of mathematics II			
Course type, scope a Course type: Lectur Recommended cour Per week: 2 / 2 Per	nd the method: re / Practice rse-load (hours): study period: 28 / 28			
Course method: present				

Number of ECTS credits: 5

Recommended semester/trimester of the course: 2.

Course level: II.

Prerequisities: ÚMV/DDMa/22

Conditions for course completion:

Conditions for continuous evaluation:

- 1. Participation in teaching in accordance with the study rules and instructions of the teacher.
- 2. Activity at seminars.
- 3. Homework and continuous written tests.
- 4. Seminar work creation of an output didactic test

Conditions for successful completion of the course:

1. Participation in teaching in accordance with the study regulations and according to the instructions of the teacher;

2. Credits will be awarded to a student who obtains at least 50% of points from homework, at least 50% of points

from written tests, at least 50% of points from the seminar work and at least 50% from the oral exam. 3. Continuous assessment - 60% of the total assessment, oral exam - 40% of the overall assessment At least 90% of points must be obtained to obtain an A rating, at least 80% to obtain a B rating, at least 70% to obtain a C rating, at least 60% to obtain a D rating, and at least 50% points to obtain an E rating.

Learning outcomes:

Students will learn the basic principles of teaching mathematics in secondary and primary schools, strategies for solving problems, creating problem systems, logical-didactic analysis of the curriculum and creating didactic tests. At the same time, they will demonstrate the ability to prepare for teaching specific topics with priority in primary school.

Brief outline of the course:

1. Subject of Didactics of Mathematics, the development of mathematics and mathematics education.

2. Aims and objectives of mathematics teaching

3. Planning in mathematics teaching Logical and didactical curriculum analysis Determination of learning objectives

- 4. 5. Didactical principles, methods of mathematics teaching
- 6. 7. Assessment of learning outcomes, the creation of didactic tests
- 8. Mathematical problems

9. - 10. Construction numeric fields,

11. Theory of elementary functions,

12. - 13. Synthetic and analytic geometry

Recommended literature:

[1] M.Hejný a kol.: Teorie vyučovania matematiky, SPN Blava 1989, (in slovak)

[2] L.Frantíková,K.Hončarivová,O.Kopanev: Didaktika matematiky, UPJŠ 1982 (in slovak)

[3] R.Fischer, G.Malle: Človek a matematika, SPN Bratislava 1992 (in slovak)

[4] Polya, G.: How to solve it, Princeton University Press, 1957.

[5] Hejný, M., Kuřina, F.: Dítě, škola a matematika: Konstruktivistické přístupy k vyučování. Portál, Praha 2001. (in czech)

[5] Textbooks and collections of assignments for secondary and primary schools

Course language:

Slovak

Notes:

Course assessment

Total number of assessed students: 112

А	В	С	D	Е	FX
38.39	31.25	19.64	8.04	2.68	0.0
	V				

Provides: doc. RNDr. Dušan Šveda, CSc.

Date of last modification: 05.05.2022

Faculty: Faculty of Science

Course ID: ÚMV/	Course name: Didactics of mathematics III
DDMc/22	

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: 3.

Course level: II.

Prerequisities: ÚMV/DDMb/22

Conditions for course completion:

Conditions for continuous evaluation:

1. Participation in teaching in accordance with the study rules and instructions of the teacher.

- 2. Activity.
- 3. Homework and written tests.
- 4. Seminar work and its presentation at the seminar lesson plan on the selected topic

Conditions for successful completion of the course:

1. Participation in teaching in accordance with the study regulations and according to the instructions of the teacher;

2. Credits will be awarded to a student who scores at least 50% on homework assignments, at least 50% on written tests, and at least 50% on a seminar work. A grade of A requires at least 90%, a grade of B requires at least 80%, a grade of C requires at least 70%, a grade of D requires at least 60%, and a grade of E requires at least 50%.

Learning outcomes:

The student demonstrates a shift in students' cognitive understanding specifically by orienting to some familiar general student problems (e.g., distinguishing between sentences and definitions) and to specific problems in some areas of mathematics (e.g., incorrect use of the equals sign) when solving a homework assignment.

While solving problems on written tests, the student will show that he or she has a conceptual understanding of mathematical concepts, properties and methods from school mathematics and is familiar with some standard and nonstandard procedures that students use when learning mathematics.

When presenting the seminar work, the student demonstrates that he/she is aware of the potential of the chosen topic, the necessary input knowledge of the pupils and the connections within the topic and with other topics, and has developed the objectives of the lesson properly. Furthermore, he/she demonstrates that he/she is aware of the possibilities of the proposed activities, teaching methods, selected tasks (what are their weaknesses and strengths). Demonstrates that he/she reflects on the response to a pupil's mistake in order to help him/her in his/her learning.

Brief outline of the course:

The content is based on current research findings related to mathematics teacher's specialised knowledge model. We focus mainly on pedagogical content knowledge, specifically knowledge of features of learning mathematics, knowledge of mathematics teaching, and knowledge of mathematics learning standards.

This knowledge is developed in the context of the five essential topics:

- Numbers, variables and numerical operations with numbers

- Relationships, functions, tables, diagrams

- Geometry and measurement
- Combinatorics, probability, statistics

- Logic, reasoning, proofs.

Within these essential topics we deal with the cognitive process of students, different representations of mathematical concepts, students' difficulties and their possible causes, teaching mathematical proofs, developing students' creativity, ways of motivating pupils, and also some didactical theories, such as Van Hiele's theory of geometric thinking. In each topic area we focus on critical points in terms of students' learning and the teaching of mathematics, preferably in secondary school.

Recommended literature:

[1] M.Hejný a kol. Teória vyučovania matematiky. Bratislava: SPN, 1989.

[2] Hejný, M.; Kuřina, F. Dítě, škola a matematika: konstruktivistické přístupy k vyučování. Praha: Portál, 2001.

[3] Hejný, M.; Novotná, J.; Stehlíková, N. Dvacet pět kapitol z didaktiky matematiky. Praha: PedF UK, 2004.

[4] Fischer, R.; Malle, G. Človek a matematika, Bratislava: SPN, 1992.

[5] Vondrová Naďa a kol. Kritická místa matematiky základní školy v řešení žáků. Praha: Karolinum, 2016.

[6] Textbooks and collections of problems and taks for secondary and middle school.

Course language:

Slovak

Notes:

Course assessment

Total number of assessed students: 124

А	В	С	D	Е	FX
58.87	14.52	16.13	5.65	4.03	0.81

Provides: doc. RNDr. Ingrid Semanišinová, PhD.

Date of last modification: 14.04.2022

University: P. J. Šafá	rik University in Košice			
Faculty: Faculty of S	cience			
Course ID: ÚCHV/ DPP1/22	rse ID: ÚCHV/ Course name: Diploma Project I 1/22			
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 cours	e: 1.		
Course level: II.				
Prerequisities:				
Conditions for cours	e completion:			
Learning outcomes:	Learning outcomes:			
Brief outline of the c	Brief outline of the course:			
Recommended literature:				
Course language:				
Notes:				
Course assessment Total number of asses	ssed students: 21			
	abs	n		
	100.0 0.0			
Provides:				
Date of last modifica	tion: 16.02.2022			
Approved: prof. PhD Doboš, CSc.	r. Oľga Orosová, CSc., doc	. RNDr. Mária Ganajová, CSc., prof. RNDr. Jozef		

University: P. J. Šafá	rik University in Ko	ošice	
Faculty: Faculty of S	cience		
Course ID: ÚCHV/ DPP2/22	Ourse ID: ÚCHV/ Course name: Diploma Project II PP2/22 PP2/22		
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pre	nd the method: rse-load (hours): ly period: esent		
Number of ECTS cr	edits: 3		
Recommended seme	ster/trimester of th	e course: 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 asse	ssed students: 19		
	abs		n
	100.0 0.0		
Provides:			
Date of last modifica	tion: 16.02.2022		
Approved: prof. PhD Doboš, CSc.	r. Oľga Orosová, C	Sc., doc. RNDr. Mária Ganajo	vá, CSc., prof. RNDr. Jozef

University: P. J. Šafá	University: P. J. Šafárik University in Košice			
Faculty: Faculty of S	cience			
Course ID: ÚCHV/ DPP3/22	urse ID: ÚCHV/ Course name: Diploma Project III P3/22			
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: 3			
Recommended seme	ster/trimester of the cours	e: 3.		
Course level: II.				
Prerequisities:				
Conditions for cours	e completion:			
Learning outcomes:	Learning outcomes:			
Brief outline of the c	Brief outline of the course:			
Recommended literature:				
Course language:				
Notes:				
Course assessment Total number of asses	ssed students: 18			
	abs	n		
	100.0 0.0			
Provides:				
Date of last modification: 16.02.2022				
Approved: prof. PhDr. Oľga Orosová, CSc., doc. RNDr. Mária Ganajová, CSc., prof. RNDr. Jozef Doboš, CSc.				

University: P. J	. Šafárik Univers	ity in Košice			
Faculty: Facult	Faculty: Faculty of Science				
Course ID: ÚC DPOU/22	HV/ Course na	IV/ Course name: Diploma Thesis and its Defence			
Course type, so Course type: Recommende Per week: Pe Course metho	cope and the me d course-load (h r study period: od: present	thod: ours):			
Number of EC	TS credits: 14				
Recommended	semester/trimes	ster of the cours	se:		
Course level: I	[
Prerequisities:	ÚCHV/DPP3/22	,			
Conditions for	course completi	on:			
Learning outco	omes:				
Brief outline of	Brief outline of the course:				
Recommended literature:					
Course langua	ge:				
Notes:					
Course assessn Total number o	nent f assessed studen	its: 2			
А	В	С	D	E	FX
100.0	0.0	0.0	0.0	0.0	0.0
Provides:					
Date of last modification: 17.02.2022					
Approved: proz Doboš, CSc.	f. PhDr. Ol'ga Or	osová, CSc., doc	. RNDr. Mária G	anajová, CSc., pr	of. RNDr. Jozef

University: P. J. Šafá	rik University in Ko	ošice	
Faculty: Faculty of S	cience		
Course ID: ÚMV/ DPP2a/22	Durse ID: ÚMV/ Course name: Diploma project I PP2a/22		
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: 1		
Recommended seme	ster/trimester of th	he course: 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 asse	ssed students: 12		
	abs	n	
	100.0 0.0		
Provides:			
Date of last modifica	tion: 24.08.2022		
Approved: prof. PhD Doboš, CSc.	r. Oľga Orosová, C	Sc., doc. RNDr. Mária Ganajová, CSc., prof. RNDr. Jozef	

University: P. J. Šafá	rik University in Koš	šice				
Faculty: Faculty of S	cience					
Course ID: ÚMV/ DPP2b/22	Course ID: ÚMV/ Course name: Diploma project II PP2b/22					
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: 1					
Recommended seme	ster/trimester of the	e course: 2.				
Course level: II.						
Prerequisities:						
Conditions for cours	e completion:					
Learning outcomes:						
Brief outline of the c	ourse:					
Recommended litera	iture:					
Course language:						
Notes:						
Course assessment Total number of asses	ssed students: 6					
	abs n					
100.0 0.0						
Provides:						
Date of last modifica	tion: 24.08.2022					
Approved: prof. PhD Doboš, CSc.	r. Oľga Orosová, CS	c., doc. RNDr. Mária Ganajová, CSc., prof. RNDr. Joze				

University: P. J. Šafá	rik University in Košic	e				
Faculty: Faculty of Science						
Course ID: ÚMV/ DPP2c/22	urse ID: ÚMV/ Course name: Diploma project III P2c/22					
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: 1					
Recommended seme	ster/trimester of the c	ourse: 3.				
Course level: II.						
Prerequisities:						
Conditions for cours	e completion:					
Learning outcomes:						
Brief outline of the c	ourse:					
Recommended litera	ture:					
Course language:						
Notes:						
Course assessment Total number of asses	ssed students: 14					
	abs	n				
	100.0 0.0					
Provides:		·				
Date of last modification: 24.08.2022						
Approved: prof. PhD Doboš, CSc.	r. Oľga Orosová, CSc.	doc. RNDr. Mária Ganajová, CSc., prof. RNDr. Jozef				

University: P. J. Šafá	rik University in Košice						
Faculty: Faculty of S	Faculty: Faculty of Science						
Course ID: ÚMV/ DPP2d/22	Course ID: ÚMV/Course name: Diploma project IVPP2d/22						
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: 4.					
Course level: II.							
Prerequisities:							
Conditions for cours	e completion:						
Learning outcomes:							
Brief outline of the c	ourse:						
Recommended litera	ture:						
Course language:							
Notes:							
Course assessment Total number of asses	ssed students: 13						
	abs n						
100.0 0.0							
Provides:							
Date of last modification: 24.08.2022							
Approved: prof. PhDr. Oľga Orosová, CSc., doc. RNDr. Mária Ganajová, CSc., prof. RNDr. Jozef Doboš, CSc.							

University: P. J. Šafá	rik University in Košice						
Faculty: Faculty of S	cience						
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	nd the method: ce rse-load (hours): dy period: 28 esent						
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 asses	ssed students: 13						
	abs n						
100.0 0.0							
Provides: doc. RNDr. Mária Ganajová, CSc., RNDr. Ivana Sotáková, Ph.D.							
Date of last modifica	ition: 21.01.2022						
Approved: prof. PhD Doboš, CSc.	r. Oľga Orosová, CSc., doc.	RNDr. Mária Ganajová, CSc., prof. RNDr. Jozef					

University: P. J. Šafá	rik University in Košice					
Faculty: Faculty of S	cience					
Course ID: ÚCHV/ Course name: Diplomový seminár z chémie pre XCH OSU1b/21						
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 cours	e: 3.				
Course level: II.						
Prerequisities:						
Conditions for cours	e completion:					
Learning outcomes:						
Brief outline of the c	ourse:					
Recommended litera	nture:					
Course language:						
Notes:						
Course assessment Total number of asses	ssed students: 2					
	abs n					
100.0 0.0						
Provides: doc. RNDr. Mária Ganajová, CSc., RNDr. Ivana Sotáková, Ph.D.						
Date of last modifica	ition: 09.02.2022					
Approved: prof. PhD Doboš, CSc.	r. Oľga Orosová, CSc., doc.	RNDr. Mária Ganajová, CSc., prof. RNDr. Jozef				

University: P. J. Šafá	rik University in Košice						
Faculty: Faculty of Science							
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: 419

А	В	С	D	Е	FX
50.84	41.29	7.16	0.72	0.0	0.0

Provides: prof. PhDr. Oľga Orosová, CSc., Mgr. Lucia Barbierik, PhD., Mgr. Viera Čurová, PhD., Mgr. Janka Liptáková

Date of last modification: 24.06.2022

University: P. J. Šafárik University in Košice							
Faculty: Faculty of S	Faculty: Faculty of Science						
Course ID: ÚMV/ DGE/22	Course name: Dynamic geometry						
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 cr	edits: 3						
Recommended seme	ster/trimester of the course: 3.						
Course level: II.							
Prerequisities:							
Conditions for cours Master the concept of dynamic construction of geometric shapes commands of dynam problems, exploring g Rating: Test requiring the sol geometric system - 10 Elaboration of a proj problems on a selecte Classification scale: A: 91 % - 100 %, B: 8	e completion: of dynamic geometric systems and commands for creating and modifying is. To be able to use dynamic geometric systems in the study of the properties and the discovery of geometric patterns. To be able to effectively use the nic geometric systems for modeling various situations, solving geometric geometric transformations, exploring graphs of functions, data processing. Nution of geometric problems using classical tools and the use of a dynamic 6 b. ect focused on the use of a dynamic geometric system in solving geometric ed topic - 16 b.						
Learning outcomes: Skills to create dynamin solving geometric other types of tools invariant properties of quadrilaterals, conic transformations in so	nic constructions in a dynamic geometric system and to use commands usable problems. Knowledge and skills to effectively use geometric, algebraic and in experimenting with geometric objects and their attributes, in discovering of geometric shapes and geometric relationships between objects in triangles, sections and in basic types of spatial bodies. Be able to use geometric lving more complex constructing tasks.						
Brief outline of the c 14. Constructions quadrilaterals, circles theorem, Varignon's gravity of triangles an 5. Investigation of se	ourse: and investigation of properties and geometric relations in triangles, and their use in solving construction problems. Menelaos's theorem, Ceva's theorem, Ptolemy's theorem, cyclic and tangential quadrilaterals, center of and quadrilaterals.						

5. Investigation of sets of points with a given property.
6. Discovering and testing geometric relationships.
7. Composing congruent transformations. Use of congruent and similar transformations and circular inversion for solving tasks.

8. Mathematical modeling, investigation of functional dependencies between quantities, solving problems to find extremes.

9.-10. Constructions of bodies, mutual positions of geometric shapes in space, sections of bodies, intersection of a line with a body.

Recommended literature:

Vaníček, J.: Počítačové kognitivní technologie ve výuce geometrie, Pedagogická fakulta Univerzity Karlovy, 2009

Stahl, G.: Dynamic-Geometry activities with GeoGebra for Virtual Math Teams, The Math Forum at Drexel University, 2012.

De Villiers, M., D.: Rethinking proof with the Geometer's Sketchpad. Key Curriculum Press, 2003.

Course language:

Slovak

Notes:

Course assessment

Total number of assessed students: 64

А	В	С	D	Е	FX
56.25	23.44	15.63	4.69	0.0	0.0

Provides: doc. RNDr. Stanislav Lukáč, PhD.

Date of last modification: 19.04.2022

University: P. J	. Šafárik Univers	ity in Košice					
Faculty: Facult	Faculty: Faculty of Science						
Course ID: KPPaPZ/VP/09	rse ID: aPZ/VP/09 Course name: Educational Counselling						
Course type, sc Course type: 1 Recommended Per week: 2 P Course metho	ope and the met Practice 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	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 o	nent f assessed studen	ts: 233					
А	В	С	D	Е	FX		
73.82	16.31	6.44	2.58	0.86	0.0		
Provides: PhDr. Anna Janovská, PhD.							
Date of last modification: 24.06.2022							
Approved: prof Doboš, CSc.	f. PhDr. Ol'ga Oro	osová, CSc., doc	. RNDr. Mária G	anajová, CSc., p	rof. RNDr. Jozef		

University: P. J	. Šafárik Univers	ity in Košice					
Faculty: Facult	y of Science						
Course ID: KP ZSP/15	E/ Course na	Course name: Essentials of Special Education					
Course type, sc Course type: 1 Recommended Per week: 2 P Course metho	ope 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 of	nent f assessed studen	ts: 700					
А	В	С	D	E	FX		
56.14	24.14	11.14	5.14	2.71	0.71		
Provides: PaedDr. Michal Novocký, PhD.							
Date of last mo	dification: 12.03	3.2024					
Approved: prof Doboš, CSc.	f. PhDr. Ol'ga Oro	osová, CSc., doc	. RNDr. Mária G	anajová, CSc., pr	rof. RNDr. Jozef		

University: P. J.	Šafárik Univers	ity in Košice					
Faculty: Faculty	of Science						
Course ID: KPI ZZP/12	Course ID: KPE/ Course name: Experiential Education						
Course type, sc Course type: I Recommended Per week: 1 / 2 Course method	ope and the met Lecture / Practice l course-load (h 2 Per study peri d: present	thod: ours): od: 14 / 28					
Number of EC	FS credits: 4						
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 fassessed studen	ts: 410					
А	В	С	D	Е	FX		
44.63	37.8	13.66	3.66	0.24	0.0		
Provides: doc. I	PaedDr. Renáta (Drosová, PhD., M	lgr. Katarína Peti	íková, PhD.			
Date of last mo	dification: 12.03	3.2024					
Approved: prof Doboš, CSc.	. PhDr. Ol'ga Or	osová, CSc., doc.	RNDr. Mária G	anajová, CSc., pr	of. RNDr. Jozef		

University: P. J. Šafárik	University in Košice
Faculty: Faculty of Scien	nce
Course ID: ÚMV/ Co GEO2a/22	ourse name: Geometry I
Course type, scope and Course type: Lecture / Recommended course- Per week: 2 / 1 Per stu Course method: presen	the method: Practice -load (hours): dy period: 28 / 14 at
Number of ECTS credit	ts: 3
Recommended semester	r/trimester of the course: 2.
Course level: I., II.	
Prerequisities:	
Conditions for course co In the covered areas of proofs of statements, to e given topics is required. at least 60%, E at leas	ompletion: geometry, the ability to formulate definitions and statements, to present explain individual steps in proofs and to solve selected problems related to Evaluation: A at least 90%, B at least 80%, C at least 70%, D t 50%, FX less than 50%
Learning outcomes: Acquired knowledge abore tools of planimetry, abour homothety in the plane, a and their properties. The area. A new look at class	but the axiom system of Euclidean geometry, about the validity of the basic at sets of points of a given property, about congruence transformations and bout important points, lines and circles in triangles and about quadrilaterals e ability to use the above knowledges and tools to solve problems on this sical geometric results.
Brief outline of the cour - (week 1-3) Hilbert's ax "complementary" angles - (week 4-5) Basic tools law of cosines, extended - (week 6) Point sets of t - (week 6) Point sets of t - (week 7) Transformatic - (week 8-11) Points an points of interest, the ind lines) - (week 12-13) Quadrar Brahmagupta's formula)	rse: iom system (axioms, triangle congruence theorems, pairs of congruent or basic proportionality theorem, triangle similarity theorems) of planimetry (Euclid's theorem, Pythagorean theorem, Thales' theorem, law of sines, central and inscribed angle theorem, area of a triangle) the given property (bisectors, equidistants, Apollonius circle) ons (congruence transformations of the plane, homothety in the plane) d lines connected with a triangle (Menelaus's theorem, Ceva's theorem, circle and excircles, pedal triangles, Euler line, nine-point circle, Simson ngles (Varignon's parallelogram, cyclic quadrangles, Ptolemy's theorem,
Recommended literatur 1. D. Hilbert, Grundlage 2. H.G. Forder, Foundati 3. H.S.M. Coxeter, S.L. 4. R.A. Johnson, Advance 5. D.A. Brannan, M.F. E	re: n der Geometrie, Teubner, 1968. ions of Euclidean geometry, Dover Publ., 1958. Greitzer, Geometry revisited, MAA, 1967. ced Euclidean geometry, Dover Publ., 2007. splen, J.J. Gray, Geometry, Cambridge Univ. Press, 2007.

Course langua Slovak	ge:				
Notes:				_	
Course assess Total number of	nent of assessed studen	ts: 194			
А	В	С	D	Е	FX
19.07	19.07	29.38	11.34	16.49	4.64
Provides: RNE	Dr. Igor Fabrici, D	r. rer. nat., univer	zitný docent	<u> </u>	
Date of last mo	odification: 29.02	2.2024			
Approved: pro Doboš, CSc.	f. PhDr. Ol'ga Ore	osová, CSc., doc.	RNDr. Mária G	anajová, CSc., pr	of. RNDr. Jozef

University: P. J. Šafán	rik University in Košice
Faculty: Faculty of S	cience
Course ID: ÚMV/ GEO2b/10	Course name: Geometry II
Course type, scope a Course type: Lectur Recommended cour Per week: 3 / 2 Per Course method: pre	nd the method: e / Practice rse-load (hours): study period: 42 / 28 esent
Number of ECTS cro	edits: 6
Recommended seme	ster/trimester of the course: 1.
Course level: II.	
Prerequisities:	
Conditions for cours In the covered areas proofs of statements, to given topics is requ which 50% of points of A at least 90%, B . less than 50%	e completion: of geometry, the ability to formulate definitions and statements, to present to explain individual steps in proofs and to solve selected problems related nired. During the semester (continuous assessment) two tests take place, from can be obtained, and from the oral exam alike 50% can be obtained. Evaluation: at least 80%, C at least 70%, D at least 60%, E at least 50%, FX
Learning outcomes: Acquired knowledge understanding of im similarity transformat problems in this area.	e of the properties of affine, isometric and similarity transformations, portant statements and methods, knowledge of the use of isometric and tions in construction and optimization problems and the ability to solve other
Brief outline of the c - (week 1-2) Quadric - (week 3-7) Affine t fixed points and lines - (week 8-10) Isome plane, composition of - (week 11-12) Sin composition of homo - (week 13-14) Geom two circles, pencils of	ourse: surfaces (circular and general quadric surfaces) transformations (associated transformation, matrix representation, affinities, , pseudo-reflections) tric transformations (matrix representation, isometries, classification in the reflections) milarity transformations (matrix representation, similarities, homothety, theties) netry of circles (the power of a point with respect to a circle, radical axis of f circles)
Recommended litera 1. M. Sekanina et al, 2. O. Šedivý et al, Ge 3. H.S.M. Coxeter, In 4. J.T. Smith, Method	ture: Geometry 2, SPN, 1988 (in slovak). cometry 2, SPN, 1987 (in slovak). troduction to geometry, Wiley, 1989. ls of geometry, Wiley, 2000.
Course language: Slovak	

Notes:					
Course assessm	nent				
Total number o	f assessed studen	ts: 149			
А	В	С	D	Е	FX
16.78	16.11	24.83	16.78	20.13	5.37
Provides: RNDr. Igor Fabrici, Dr. rer. nat., univerzitný docent, Mgr. Daniela Šabaková					
Date of last modification: 28.10.2021					
Approved: prof. PhDr. Oľga Orosová, CSc., doc. RNDr. Mária Ganajová, CSc., prof. RNDr. Jozef Doboš, CSc.					

University: P. J. Šafá	rik University in Košice
Faculty: Faculty of S	cience
Course ID: KPPaPZ/PsZ/15	Course name: Health Psychology
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 liff 9. Health-related beha 10. Socio-economic i	ourse: . 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. avior 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 ychology. Singapore: McGraw-Hill, 2006 book of Personality and Health. Chichester: John Wiley & Sons, 2006
Course language:	
Notes:	

Course assessm Total number of	nent f assessed studen	ts: 118					
А	В	С	D	Е	FX		
100.0	0.0	0.0 0.0 0.0 0.0 0.0					
Provides: doc. Mgr. Mária Bačíková, PhD.							
Date of last modification: 22.06.2022							
Approved: prof. PhDr. Oľga Orosová, CSc., doc. RNDr. Mária Ganajová, CSc., prof. RNDr. Jozef Doboš, CSc.							

University: P. J. Šafá	University: P. J. Šafárik University in Košice					
Faculty: Faculty of Science						
Course ID: KPPaPZ/UPN/17	Course name: Introduction into Psychology of Religion					
Course type, scope a Course type: Practic Recommended cou 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	redits: 2					
Recommended seme	ester/trimester of the course: 2.					
Course level: II.						
Prerequisities:						
Conditions for course The assessment is ba distance format. Up-t found on the electron	se completion: sed 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 student wil acquired of research and appliant and evaluate this known orientation in the field acquired knowledge	ire a basic overview of the origin and current state of knowledge in the field cation the psychology of religion. He/she will be able to described, explaine, owlege. The student will be able to apply the acquired knowledge in the basic d, and develop critical thinking and will be able to apply and integrate already from other (psychological) distributions					
 Brief outline of the course: 1. History of psychology of religion in national and world context 2. Psychological perspective on religion and religious experience 3. Psychology of religion in an interdisciplinary context 4. Basic approaches to psychological interpretation and selected views 5. Different types of religious experience 6. Psychological view of religion from a biodromal perspective 7. Spirituality versus religiosity in a postmodern society 8. Coping in the context of religiosity 9. Psychotherapy and religion, pastoral psychology 						
Recommended litera Eliade, M. (1994). Po Eliade, M. (1995). D Freud, S. (1999). Nur Praha: Psychoanalyti Fromm, E. (2003). P Erikson, E. (1996). M Psychoanalytické nal James, W. (1930). Dr Jung, C. G. (1993). A	 nture: psvátné 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. (2000). Pastorální péče. Praha: Oliva Pargament, K. (1997), Psychology of religion and coping, Říčan, P. (2007). Psychologie náboženství a spirituality. Praha: Portál. Říčan P. (2002), Psychologie náboženství, Portál, Praha, Stríženec, M. (2001) Súčasná psychológia náboženstva

Course language:

Notes:

Course assessment

Total number of assessed students: 77

А	В	С	D	Е	FX
100.0	0.0	0.0	0.0	0.0	0.0

Provides: Mgr. Jozef Benka, PhD.

Date of last modification: 24.06.2022

Faculty: Faculty of Science

Course ID: ÚCHV/ Course name: Introduction to Environmental Chemistry UECH/22

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 credits: 2

Recommended semester/trimester of the course: 1., 3.

Course level: II.

Prerequisities:

Conditions for course completion:

Continuous test. Active participation in exercises - elaboration of semester work. Passing the final examination in the form of a written test.

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.

Course language:

Notes:

In-person learning - lectures, seminars and examination. Students are required to attend seminars.

Based on the current pandemic situation in Slovakia and in accordance with the conditions of the Faculty of Natural Sciences of UPJŠ in Košice, the education and examination can also be carried out in a distance form. The tutorial will be carried out in the form of online lectures and consultings in the BigBlueButton system.

Course assessment

Total number of assessed students: 9

А	В	С	D	Е	FX
66.67	11.11	22.22	0.0	0.0	0.0

Provides: doc. RNDr. Andrea Straková Fedorková, PhD.

Date of last modification: 07.11.2022

University: P. J. Šafárik University in Košice					
Faculty: Faculty of S	cience				
Course ID: KPPaPZ/ZMPPV/15Course name: Introduction to Research Methodoly in Education and Psychology					
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 and 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 assessn	nent						
Total number o	f assessed studen	ts: 720					
А	В	С	D	Е	FX		
19.44	26.81	24.86	19.72	9.03	0.14		
Provides: doc. Mgr. Mária Bačíková, PhD., PhDr. Anna Janovská, PhD.							
Date of last mo	dification: 24.06	5.2022					
Approved: prof. PhDr. Oľga Orosová, CSc., doc. RNDr. Mária Ganajová, CSc., prof. RNDr. Jozef Doboš, CSc.							

University: P. J	. Šafárik U	niversity in Koš	ice			
Faculty: Facult	y of Scienc	e				
Course ID: ÚM LTM2/22	IV/ Cou	rse name: Logi	e and set theorem	ry		
Course type, so Course type: 1 Recommended Per week: 2/2 Course metho	ope and the Lecture / Production of the course-location of the course-location of the course-location of the course of the cours	ne method: ractice rad (hours): y period: 28 / 28	3			
Number of EC	FS credits	: 4				
Recommended	semester/t	rimester of the	course: 1.			
Course level: II	•					
Prerequisities:						
Conditions for Exam	course cor	npletion:				
Learning outco To obtain a bas a proof.	mes: ic knowled	ge on the mathe	ematical notio	n of an in	finity. Analysis o	of the notion of
Set as a mather mappings. Finite and coun Sentential calcu predicate calcu Methods of pro	table sets. ulus, an ax lus, examp ofs in pred	e: nularization of Cardinality of co iomatization. Co les. Axiomatization calculus.	an infinity. Pr ontinuum. Eler ompletness Th tions of pred	roperties o mentary ca heorem. N icate calcu	of the set of reals ardinal arithmetic fethods of proof ulus and the not	s. Relations and cs. cs. Language of cion of a proof.
Recommended E. Mendelson,	literature: Introductio	n to Mathematic	al Logic, van	Nostrand	1964.	
Course langua Slovak	ge:					
Notes:						
Course assessm Total number o	ient f assessed s	students: 276				
А	В	C		D	Е	FX
13.04	18.84	19.2	1	6.3	30.8	1.81
Provides: RND	r. Jaroslav	Šupina, PhD., R	NDr. Adam M	larton		
Date of last mo	dification:	18.02.2022				
Approved: prof Doboš, CSc.	hDr. Oľ	ga Orosová, CS	z., doc. RNDr.	. Mária Ga	anajová, CSc., pr	of. RNDr. Jozef

University: P. J. Š	afárik Univers	ity in Košice						
Faculty: Faculty	of Science							
Course ID: ÚMV DPU/22	Course na	Course name: Magister thesis and its defense						
Course type, scop Course type: Recommended Per week: Per s Course method:	be and the met course-load (h study period: present	hod: ours):						
Number of ECTS	S credits: 14							
Recommended se	emester/trimes	ster of the cours	e:					
Course level: II.								
Prerequisities:								
The diploma thes fraud and must n 21/2021, which la Košice and its cor and in the process	s of thesis defen	on: of the student's o a of good resear ules for assessing Ilment of the crite nse. Failure to do	wn work. It mus ch practice defin g plagiarism at F eria is verified ma o so is reason for	t not show eleme ned in the Recto Pavol Jozef Šafár ainly in the proces disciplinary acti	ents of academic r's Decision no. rik University in ss of supervision on.			
Learning outcom The diploma thes field of study, acc profile of the grad selected field prol of content, formal 1/2011 on the bas	es: is demonstrates quisition of kno uate of the stud plems. Student and ethical. Fu ic requirements	s mastery of exter owledge, skills an y program, as we demonstrates the orther details on t s of final theses a	ended theory and nd competencies ell as the ability to ability of indepe he diploma thesi and the Study Re	l professional ter in accordance w papply them crea endent profession s are determined egulations of UPJ	minology of the with the declared tively in solving al work in terms by Directive no. S in Košice.			
Brief outline of t 1. Elaboration of 2. Presentation of 3. Answering que	he course: the diploma the the results of t estions related t	esis in accordanc he diploma thesi o the topic of the	e with the instru- s before the exar diploma thesis	ctions of the sup nination commis within the discus	ervisor. sion. sion.			
Recommended li The recommende diploma thesis.	terature: d literature is d	etermined indivi	dually in accorda	ance with the top	bic of the			
Course language Slovak	:							
Notes:				-				
Course assessme Total number of a	nt issessed studen							
A	B	С	D	Е	FX			
90.0	0.0	0.0	10.0	0.0	0.0			

Provides:

Date of last modification: 19.04.2022

University: P. J. Šafá	University: P. J. Šafárik University in Košice						
Faculty: Faculty of S	cience						
Course ID: ÚMV/ MZF/22	Course name: Mathematical foundations of financial literacy						
Course type, scope a Course type: Practic Recommended cou Per week: 2 Per stu Course method: pre	MZF/22 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 semester/trimester of the course: 1.

Course level: II.

Prerequisities:

Conditions for course completion:

Improving knowledge and skills from the use of standard methods in solving mathematical problems in the topics: sequences, infinite series, financial mathematics. Developing the ability to analyze and explain various problem-solving strategies.

Conditions for continuous evaluation:

1. Participation in teaching in accordance with the study rules and instructions of the teacher.

2. Active participation in the exercises.

3. Elaboration of two tests.

Conditions for successful completion of the course:

A grade of A requires at least 90%, a grade of B requires at least 80%, a grade of C requires at least 70%, a grade of D requires at least 60%, and a grade of E requires at least 50%.

Learning outcomes:

The student is able to explain the basic concepts and methods of solving mathematical problems selected from various areas of school mathematics. The student is able to apply the acquired knowledge in finding and using various strategies for solving problems. The student will get acquainted with typical and more demanding tasks from school mathematics and with specific knowledge gaps and misconceptions that occur in their solution in the teaching of mathematics in primary and secondary school. The student will learn to use different models in solving problems in financial mathematics, which will support the development of his/her financial literacy.

The student is able to assess whether the student's non-standard solution is correct or not, and can explain his decision.

Brief outline of the course:

Sequences, sequence properties, limit of a sequence, convergence and divergence of sequences. Arithmetic and geometric sequence and their use in solving problems.

Infinite series, convergence of infinite series, infinite geometric series.

Basic concepts, methods, models in financial mathematics: currency, exchange rate, insurance, taxes, interest, simple and compound interest, regular deposits and withdrawals, loan repayment, mortgages.

Recommended literature:

1. Kohanová, I., Slavičková, M.: Finančná matematika pre budúcich učiteľov matematiky.

Knižničné a edičné centrum FMFI UK, 2013.

- 2. Larson, L.C., Metódy riešenia matematických problémov, Bratislava, Alfa, 1990.
- 3. Lengyelfalusy, T., Kochol, M., Zábojníková, N.: Metódy riešenia matematických úloh 2.
- Žilinská univerzita v Žiline, 2009.
- 4. Učebnice a zbierky úloh z matematiky.

Course language:

Slovak

Notes:

Course assessment

Total number of assesse	ed students: 136
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А	В	С	D	Е	FX
35.29	16.91	23.53	13.97	8.82	1.47

Provides: doc. RNDr. Stanislav Lukáč, PhD.

Date of last modification: 19.04.2022

University: P. J. Šafá	rik University in Košice
Faculty: Faculty of S	cience
Course ID: ÚMV/ MRUc/22	Course name: Mathematical problem solving strategies III
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: II.	
Prerequisities:	
Conditions for cours Assessment is given semester and active p Classification scale: A: 91%-100%, B: 81	se completion: on the basis of the results of written examinations carried out during the participation in exercises. %-90%, C: 71%-80%, D: 61%-70%, E: 51%-60%, FX: 0%-50%.
Learning outcomes: Students become fam specific problems of 1. familiarise themse forward arguments, 2. gain a deeper un- interconnections, 3. be able to define at 4. know how to solv obtained results.	niliar with the tasks, methods of problem solving, solving strategies and with teaching mathematics at primary and secondary schools. The student will lves with mathematical culture, ways of thinking, self-expression and putting derstanding of the base terminology of real analysis, their properties and nd interpret key terms, prove their basic properties and relationships, we tasks focused on utilising the aforementioned concepts and interpret the
Brief outline of the c Basic knowledge of systems, Divisibility Working together wo	ourse: school mathematics, Euclid's algorithm, Diophantine equations, Number rules, Congruence classes of integers, Algebraic numbers, Motion problems, rd problems, Mixture Word Problems, Optimization word problems.
Recommended litera Hecht, T., Sklenáriko Hecht, T. a kol., Mate Bratislava 1999-2002 Krantz, S.G., Technic Larson, L.C., Metódy	nture: ová, Z., Metódy riešenia matematických úloh, Bratislava, SPN, 1992. ematika pre 14. ročník gymnázií a SOŠ, OrbisPictusIstropolitana, 2. ques of Problem Solving, AMS, 1997. y riešenia matematických problémov, Bratislava, Alfa, 1990.
Course language: Slovak	
Notes:	

Course assessm Total number o	nent f assessed studen	ts: 162				
А	В	С	D	Е	FX	
45.68	28.4	9.88	7.41	8.64	0.0	
Provides: prof. RNDr. Jozef Doboš, CSc.						
Date of last modification: 25.04.2022						
Approved: pro: Doboš, CSc.	f. PhDr. Ol'ga Oro	osová, CSc., doc	. RNDr. Mária Ga	anajová, CSc., pr	of. RNDr. Jozef	

University, 1. J. Salarik University in Rosice
Faculty: Faculty of Science
Course ID: ÚMV/ MDM/22Course name: Mathematics and didactics of mathematics
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present
Number of ECTS credits: 2
Recommended semester/trimester of the course:
Course level: II.
Prerequisities: ÚMV/DDMc/22
Conditions for course completion: Appropriate knowledge and competencies from the profile courses of specialisation Teaching mathematics, demonstrating the ability to synthesise the acquired knowledge and procedures and apply them to problems concerning mathematics teaching and learning.
Learning outcomes: Verification of acquired student competencies in accordance with the graduate profile.
 Brief outline of the course: Number sets Sets and statements Number theory Powers, polynomials, fractional expressions Equations and inequalities Planimetry Stereometry Analytical geometry Elementary functions, basic properties Goniometry Sequences and series Combinatorics Probability and statistics Within each topic, the student has to demonstrate: An overview of and understanding of the key mathematical ideas that underpin secondary school mathematics. An understanding of the important principles that must be considered when teaching a given topic. The ability to apply knowledge in school mathematics, for example, to know what types of problems the pupil is expected to solve, what are the objectives of teaching, how the ideas about basic concepts from the topic are created, and so on.

Course languag Slovak	ge:				
Notes:					
Course assessm Total number o	nent f assessed student	s: 15			
А	В	С	D	Е	FX
46.67	20.0	20.0	13.33	0.0	0.0
Provides:	·		·		
Date of last mo	dification: 16.08	.2022			
Approved: prof Doboš, CSc.	f. PhDr. Ol'ga Oro	sová, CSc., doc	. RNDr. Mária Ga	inajová, CSc., pr	rof. RNDr. Jozef

University: P. J. Šafá	rik University in Košice					
Faculty: Faculty of Science						
Course ID: ÚFV/ MDT/19	Course name: Modern Didactical Technology					
Course type, scope a Course type: Practic Recommended cou Per week: 2 Per stu Course method: pre	and the method: ce rse-load (hours): ady period: 28 esent					
Number of ECTS cr	edits: 2					
Recommended seme	ester/trimester of the course: 2.					
Course level: II.						
Prerequisities:						
Conditions for course Summary evaluation 1. Active participation participation. 2. Practical ongoing a assignment elaborate	se completion: based on ongoing assessment: ton at the seminars (in the contact or online form) with minimum 80% assignments (10) and their defense. At least 50% must be obtained from each d according to assessment criteria.					
Student graduated fro - recognize current a - to use all types of a - to design and realize	om subject will be able: vailable digital tools and their parameters for educational activities, ctual digital tools in education of science or humanities, e educational activities by using the modern technologies.					
Brief outline of the c 00. Introduction - goo 01. Modern hybrid cl 02. Digital learning s 03. Cloud repositorie 04. Cloud editors for 05. Digital text (scan 06. Digital image and 07. Interactive E-vot 08. Digital collaborat 09. Virtual and digita 10. Education video 11. Smartphone and 12. Teaching tools ar	eourse: als and didactic principles lassroom in 21st century paces in 21st century es, services, modern web-browser notes, texts, spreadsheets and presentations , OCR, voice recognition, Kami pdf) d audio (digital recording and editing) ing and videoconference systems in education tive technologies (social e-reader, collaborative whiteboard) ally based experiments, digital databases (digital recording and editing) tablet in classic and blended education ad digital teacher's workspace					
Recommended litera 1. Kireš, M. et al.: M 2 . Redecker, C., & P Educators: DigComp	ature: odern didactical technics in teacher practice (in Slovak), Košice: Elfa, 2010 Punie, Y. (2017). European Framework for the Digital Competence of DEdu. Luxembourg: Publications Office of the European Union.					

3. C. R. Tucker, T. Wycoff, J. T. Green, Blended Learning in Action: A Practical Guide Toward Sustainable Change. Thousand Oaks: Corwin Press, 2016.

4. D. Bannister, Guidelines on Exploring and Adapting: LEARNING SPACES IN SCHOOLS. Brussels: European Schoolnet, 2017.

5. current information from web sites related to didactical technologies,

catalogues of teaching tools,

current articles about modern trends in science and humanities education.

Course language:

Slovak, English

Notes:

Course assessment

Total number of assessed students: 99

А	В	С	D	Е	FX
53.54	29.29	12.12	3.03	2.02	0.0

Provides: doc. RNDr. Jozef Hanč, PhD.

Date of last modification: 07.07.2022

University: P. J	. Šafárik Univers	ity in Košice				
Faculty: Facult	Faculty: Faculty of Science					
Course ID: KP PDK/17	Course name: Pedagogical Communication					
Course type, sc Course type: 1 Recommended Per week: 2 P Course metho	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 EC	FS credits: 2					
Recommended	semester/trimes	ster of the cours	e: 1.			
Course level: II	•					
Prerequisities:						
Conditions for	course completi	on:				
Learning outco	omes:					
Brief outline of	the course:					
Recommended	Recommended literature:					
Course languag	ge:					
Notes:						
Course assessm Total number of	ent f assessed studen	ıts: 179				
А	В	С	D	E	FX	
75.98	22.35	1.68	0.0	0.0	0.0	
Provides: Mgr. Katarína Petríková, PhD.						
Date of last modification: 12.03.2024						
Approved: prof. PhDr. Oľga Orosová, CSc., doc. RNDr. Mária Ganajová, CSc., prof. RNDr. Jozef Doboš, CSc.						

University: P. J	. Šafárik Univers	ity in Košice				
Faculty: Facult	Faculty: Faculty of Science					
Course ID: KP PDD/17	E/ Course na	Course name: Pedagogical Diagnostics				
Course type, sc Course type: 1 Recommended Per week: 2 P Course metho	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 EC	FS credits: 2					
Recommended	semester/trimes	ster of the cours	se: 2.			
Course level: II	•					
Prerequisities:						
Conditions for	course completi	on:				
Learning outco	omes:					
Brief outline of	the course:					
Recommended	Recommended literature:					
Course languag	ge:					
Notes:						
Course assessm Total number of	ent f assessed studen	ts: 86				
А	В	С	D	Е	FX	
83.72	11.63	4.65	0.0	0.0	0.0	
Provides: Mgr. Beáta Sakalová						
Date of last modification: 12.03.2024						
Approved: prof. PhDr. Oľga Orosová, CSc., doc. RNDr. Mária Ganajová, CSc., prof. RNDr. Jozef Doboš, CSc.						

Dytrtová, R., Krhutová, M. Učitel. Příprava na profesi. Praha: Grada, 2009. Kalhous, Z. – Obst, O. 2002. Školní didaktika. Praha: Portál, 2002. Petlák, E.: Kapitoly zo súčasnej didaktiky. Bratislava: IRIS, 2005. Prucha, J.: Moderní pedagogika. Praha: Portál, 2012. Turek, I.: Didaktika. Bratislava: Wolters Kluwer, 2014. Vališová, A., Kasíková, H.: Pedagogika pro učitele. Praha: Grada, 2010. Zormanová, L.: Obecná didaktika. Praha: Grada, 2014.

Course language:

Notes:

Course assessment

Total number of assessed students: 10

А	В	С	D	Е	FX
10.0	70.0	10.0	10.0	0.0	0.0

Provides:

Date of last modification: 12.03.2024

University: P. J. Šaf	ărik University in Košice	
Faculty: Faculty of	Science	
Course ID: KPE/ PPD/22Course name: Pedagogy and Psychology		
Course type, scope Course type: Recommended cou Per week: Per stu Course method: pr	and the method: urse-load (hours): dy period: resent	
Number of ECTS c	redits: 2	
Recommended sem	ester/trimester of the course:	

Course level: II.

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

Conditions for course completion:

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

Learning outcomes:

The student is able to demonstrate the acquired competencies in accordance with the profile of the graduate.

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 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.: Moderní didaktika. Praha: Grada, 2016.

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

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

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

Prucha, J.: Moderní pedagogika. Praha: Portál, 2012.

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

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

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

Psychológia:

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.

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, 2010. dostupné online na www. e-metodologia. fedu. uniba. sk.

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.

Strana: 2

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:

Notes:					
Course assess	nent	nts [.] 69			
A	B	C	D	Е	FX
18.84	34.78	30.43	14.49	1.45	0.0
Provides:	<u> </u>	I	1		
Date of last mo	odification: 12.03	3.2024		_	
Approved: pro Doboš, CSc.	f. PhDr. Ol'ga Or	osová, CSc., doc	. RNDr. Mária G	anajová, CSc., pr	of. RNDr. Jozef

Faculty: Faculty of Science 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 level: 11. Prerequisities: Conditions for course completion: Learning outcomes: Brief outline of the course: General principles of mental development as a basis for recognizing mental disorders in children and adolescents. Etiology of moltal disorders and developmental disorders in children and adolescents. Etiology of problem students. Problems resulting from disturbed behavior. Problems arising from group relationships. Adolescent lifestyle issues. Problems resulting from disturbed behavior. Problems arising from group preventive and intervention work with the cassroom. Crisis intervention. Work with aprents of problem students. Principles of interviewing a parent. Cooperation with other experts. Prevention of aggressive and problematic behavior at school classroom management, group preventive and intervention work with the cassroom. 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 management, group preventive and intervention work with tother experts. Prevention of aggressive and problematic behavior at school classroom and school climate, school prevention programs. Viac o	University: P. J. Šafárik University in Košice						
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 weck: 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: Brief outline of the course: General principles of mental development as a basis for recognizing mental disorders in children and adolescents. Etiology of mental disorders of aggression vs. aggressivences. 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 preventive and intervention work with the classroom. Crisis intervention. Work with aprents of problem students. Principles of interviewing a parent. Cooperation with other experts. Prevention of aggressive and problematic behavior at 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 management, group preventive and interventioles of interviewing a parent. Cooperation with other experts. Prevention programs. Viace	Faculty: Faculty of Science						
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: Brief outline of the course: 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 aggressive behavior. Problems resulting from disturbed behavior. Problems arising from group relationships. Adolescent lifestyle issues. Problems resulting from disturbed behavior. Problems arising from group relationships. Adolescent lifestyle issues. Problems resulting from impaired emotional experience. Solving 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 ziskanie d'alsich informácii o preklade sa vyžaduje zdrojový text Odoslať spätnú väzbu Bočné panely Recommended literature: Course language: Notes: Course assessment Total number of assesed students: 121	Course ID: KPPaPZ/PASZ/1	7 Course na Preventior	 Course name: Problem and Aggressive Behaviour of Pupils. Etiology, Prevention and Intervention. 				
Number of ECTS credits: 2 Recommended semester/trimester of the course: 2. Course level: 11. Prerequisities: Conditions for course completion: Learning outcomes: Brief outline of the course: General principles of mental development as a basis for recognizing mental disorders in children and adolescents. Etiology of mental disorders and developmental disorders on gagressive 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 and school climate, school prevention of aggressive and problematic behavior at school. Classroom and school climate, school prevention programs. Viae o tomto zdrojovom texteNa ziskanie d'alšich informácií o preklade sa vyžaduje zdrojový text Odoslať spätnú väzbu Bočné panely Recommended literature: Course language: Notes: Course language: Notes: Course assessment Total number of a	Course type, sco Course type: P Recommended Per week: 2 Pe Course method	ope and the met tractice course-load (h er study period: d: present	thod: ours): 28				
Recommended semester/trimester of the course: 2. Course level: II. Prerequisities: Conditions for course completion: Learning outcomes: Brief outline of the course: 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 programs. Viac o tomto zdrojovom texteNa získanie ďalších informácií o preklade sa vyžaduje zdrojový text Odoslať spätnú väzbu Bočné panely <td colspanse<="" td="" td<=""><td>Number of ECT</td><td>S credits: 2</td><td></td><td></td><td></td><td></td></td>	<td>Number of ECT</td> <td>S credits: 2</td> <td></td> <td></td> <td></td> <td></td>	Number of ECT	S credits: 2				
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Prerequisities: Conditions for course completion: Learning outcomes: Brief outline of the course: 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 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 disturbed behavior. 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 as school climate, school prevention programs. Viac o tomto zdrojovom texteNa ziskanie d'alších informácií o preklade sa vyžaduje zdrojový text Odoslať spätnú väzbu Bočné panely Recommended literature: Course assessment Total number of assessed students: 121 A B C D E FX 79.34 14.88 5.79 0.0 0.0 0.0 Date of last modification: 24.06.2022	Course level: II.						
Conditions for course completion: Learning outcomes: Brief outline of the course: 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. Etiology of mental disorders and developmental 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 preventive and school climate, school prevention programs. Viac o tomto zdrojovom texteNa získanie ďalších informácií o preklade sa vyžaduje zdrojový text Odoslať spätnú väzbu Bočné panely Recommended literature: Course assessment Total number of assessed students: 121 A B C D E FX 79.34 <th< td=""><td>Prerequisities:</td><td></td><td></td><td></td><td></td><td></td></th<>	Prerequisities:						
Learning outcomes: Brief outline of the course: 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'alšich informácií o preklade sa vyžaduje zdrojový text Odoslať spätnú väzbu Bočné panely Recommended literature: Course assessment Total number of assessed students: 121 A B C D E FX A B C D E FX Total number of assessed students: 121 Date of last modification: 24.06.2022	Conditions for a	course completi	on:				
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Recommended literature:Course language:Notes:Course assessment Total number of assessed students: 121ABCDEFX79.3414.885.790.00.00.0Provides: PhDr. Anna Janovská, PhD.Date of last modification: 24.06.2022	General princip children and ad and adolescents Theoretical appr and in the famil behavior. Proble from impaired e environment. So classroom. Crisi a parent. Coope school. Classroo Viac o tomto zd Odoslať spätnú Bočné panely	oles of mental olescents. Etiolo . Definition of roaches to aggres by Bullying. Psy ems arising from emotional experi- chool classroom is intervention. We ration with other om and school cl rojovom texteNa väzbu	development as ogy of mental dis aggressive behaves ssion. Causes and vchology of prob group relationshi ence. Solving pr management, g Work with parent er experts. Preven imate, school pre- a získanie ďalších	a basis for r sorders and dev vior. Concepts of factors of aggre lem students. P ps. Adolescent l oblematic and a roup preventive s of problem stu ntion of aggress evention program	ecognizing ment relopmental disor- of aggression vs. ssive behavior. Vi roblems resulting ifestyle issues. Pro- aggressive behavi e and intervention udents. Principles sive and problem ns. reklade sa vyžadu	al disorders in ders in children aggressiveness. olence at school from disturbed oblems resulting or in the school n work with the of interviewing atic behavior at uje zdrojový text	
Course language:Notes:Course assessment Total number of assessed students: 121ABCDEFX79.3414.885.790.00.00.0Provides: PhDr. Anna Janovská, PhD.Date of last modification: 24.06.2022	Recommended	literature:					
Notes:Course assessment Total number of assessed students: 121ABCDEFX79.3414.885.790.00.00.0Provides: PhDr. Anna Janovská, PhD.Date of last modification: 24.06.2022	Course languag	Course language:					
Course assessment Total number of assessed students: 121ABCDEFX79.3414.885.790.00.00.0Provides: PhDr. Anna Janovská, PhD.Jate of last modification: 24.06.2022	Notes:						
A B C D E FX 79.34 14.88 5.79 0.0 0.0 0.0 Provides: PhDr. Anna Janovská, PhD. Date of last modification: 24.06.2022 E FX	Course assessm Total number of	ent assessed studen	ts: 121				
79.34 14.88 5.79 0.0 0.0 0.0 Provides: PhDr. Anna Janovská, PhD. Date of last modification: 24.06.2022 Contract of last modification Contract of last modifica	A	В	С	D	E	FX	
Provides: PhDr. Anna Janovská, PhD. Date of last modification: 24.06.2022	79.34	14.88	5.79	0.0	0.0	0.0	
Date of last modification: 24.06.2022	Provides: PhDr. Anna Janovská, PhD.						
	Date of last mod	dification: 24.06	5.2022				

	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: 496

А	В	С	D	Е	FX
96.98	2.62	0.4	0.0	0.0	0.0

Provides: Mgr. Lucia Barbierik, PhD.

Date of last modification: 24.06.2022

University: P. J. Šafárik 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 rse-load (hours): study period: 28 / 28 esent				
Number of ECTS cro	edits: 5				
Recommended seme	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 87 – 100, B 77 – 80 Electronic board of th	e completion: m 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. 6, C 69 – 76, D 61 – 68, E 56 – 60 ne course AIS2 - more information and news.				
Learning outcomes: Students will be able Students will be able psychological concep Students will be able Students will be able behaviour in response Students will be able to bring an all-round desired data-based m disadvantages.	to show understanding of the human behaviour in educational situations. le to describe, explain and justify possible teachers' decisions by using ts, principles and theories. to apply the psychological findings in the field of education. to explain how adolescents learn and retain new information, to explain their e to educational environment. e to explain the desired data-based modification of adolescents' behaviour d development of his personality and school performance, to explain the odification of the behaviour of adolescents with educational problems, with				
Brief outline of the con- Introduction: The com- especially pedagogica Teaching is realized seminars using interact respect, support of inter- Syllabus: The subject help in school practic Implementation of pro- contemporary psychol	ourse: ttent of the course is based on current knowledge of psychological disciplines, al and school psychology. by a combination of lectures with engaging narrative interpretation and ctive, experiential methods, discussion and open communication with mutual dependence, activity and motivation of students. and goals of psychology and educational psychology. Professional forms of e. psychological concepts of personality into school practice (Classical and panalytic 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: 1734 А В С D Е FX

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

22.38

20.18

2 4 2

23.88

Date of last modification: 14.09.2023

20.13

11.01

University: P. J. Šafá	rik University in Košice
Faculty: Faculty of S	cience
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 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: II.	
Prerequisities:	
Conditions for cours 1. active participation seminar work - 30p. final evaluation accord FX 55 and less. Detain of the subject will be	be 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, iled 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 i Creativity and cognit Development of creat Talent and giftedness Methods of determin Methods of developin Creativity and talent	ourse: 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.
DOČKAL, V. (2006) štruktúru osobnosti. I Slovak Academic Pre HŘÍBKOVÁ, L. (200 výzkumy a jejich vzta 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: 99): 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	language:
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slovak

Notes:

Course assessment

Total number of assessed students: 80

А	В	С	D	Е	FX
100.0	0.0	0.0	0.0	0.0	0.0

Provides: Mgr. Lucia Barbierik, PhD.

Date of last modification: 24.06.2022

University: P. J. Šafá	rik University in Košice			
Faculty: Faculty of S	cience			
Course ID: KSSFaK/ ČGUAP/15	Course name: Reading Literacy in Educational Process			
Course type, scope a Course type: Lectur Recommended cour Per week: 2 Per stu Course method: pre	nd the method: re rse-load (hours): dy period: 28 esent			
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 asses	ssed students: 44			
	abs	n		
100.0		0.0		
Provides: doc. PaedD	r. Ivica Hajdučeková, PhD.			
Date of last modifica	tion: 15.09.2023			
Approved: prof. PhD Doboš, CSc.	r. Oľga Orosová, CSc., doc	RNDr. Mária Ganajová, CSc., prof. RNDr. Jozef		

University	D	ſČa	fárik	Unive	roity	in K	očica
University:	г. ј	1. 30	IIalik	Unive	ISILY		JSICE

Faculty: Faculty of Science

Course ID: ÚCHV/	Course name: Scheduled practice teaching
MPPb/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 credits: 1

Recommended semester/trimester of the course: 2.

Course level: II.

Prerequisities: KPE/MPPa/15 and KPE/PDU/15 and (KPPaPZ/PaSPP/09 or KPPaPZ/PPgU/15)

Conditions for course completion:

- 1. Compulsory attendance during the organisational and informational seminar.
- 2. Compulsory attendance: sitting in on classes, analytical classes at training schools.
- 3. Sitting in on classes and analytical classes taught by supervising teachers -11x.
- 4. Complete 1 independent teaching session and analytical class under supervision.
- 5. Submitted Scheduled practice teaching (SPT) documentation.

(Sitting-in records, Written class preparation, List of sitting-in sessions and trainee's performance during SPT, SPT report, Assessment of the trainee's pedagogical performance during SPT).

Learning outcomes:

The student can purposefully perceive and interpret phenomena observed during chemistry classes in terms of subject didactics and psychodidactics. Confront their own preconcepts pertaining to subject didactics and psychodidactics with the actual teachers' concepts in practice. Gain motivation for further study of the respective disciplines in terms of their own specialisation and for purposeful development of professional competences. Apply didactic skills to teach chemistry by designing a lesson project and teaching it in practice.

Brief outline of the course:

Students observe the process of teaching the subject of chemistry in primary school and secondary school and analyze it with supervising teacher. The internship takes place continuously during the semester. It is included in the timetable once a week at time 1-3. lessons at primary and secondary schools. The first two hours students observe/teach, the third lesson is an analysis.

Observation, perception, and analysis of subject-specific and psychodidactic phenomena in the way chemistry is taught at the training schools. Written evaluation and theoretical generalisation of the phenomena observed during the classes. Didactic Scheduled practice teaching analysis. Analysis of the perceived phenomena, theoretical generalisation, and comparison of the findings against theory. Written class preparation for teaching a lesson in chemistry. Trainee's teaching performance.

Recommended literature:

Current chemistry textbooks for primary and secondary schools in the Slovak Republic.

Course language:

Notes:

Course assessment Total number of assessed students: 313			
abs	n		
100.0	0.0		
Provides: doc. RNDr. Mária Ganajová, CSc., RN	Dr. Ivana Sotáková, Ph.D.		
Date of last modification: 26.10.2021			
Approved: prof. PhDr. Oľga Orosová, CSc., doc. Doboš, CSc.	RNDr. Mária Ganajová, CSc., prof. RNDr. Jozef		

University: P. J. Šafa	árik University in Košice			
Faculty: Faculty of	Science			
Course ID: ÚMV/ VPPb/15	ourse ID: ÚMV/ PPb/15Course name: Scheduled practice teaching			
Course type, scope Course type: Pract Recommended cou Per week: Per stu Course method: pr	and the method: ice urse-load (hours): dy period: 36s resent			
Number of ECTS c	redits: 1			
Recommended sem	ester/trimester of the course: 2.			
Course level: II.				
Prerequisities: KPE	/MPPa/15 and KPE/PDU/15 and (KPPaPZ/PaSPP/09 or KPPaPZ/PPgU/15)			
and 11 visitation of o Submission of writte classes visitations, s	classes). en assignments (reflection on teaching practice, statement of teaching hours and elected lesson plans).			
Learning outcomes Application of the leaso analysis of the lesso shift his/her knowled	: knowledge acquired in didactic courses focused on teaching mathematics in e. Development of the student's self-reflection within the framework of the ns taught by the student. Identification of the student's weaknesses in order to dge. To acquaint students with the atmosphere and the organization of school.			
Brief outline of the Visitations of classes Analysis of lessons Lesson plans prepar Classes managed ac Reflection on realize	course: s in selected lessons ation cording to prepared lesson plan ed classes			
Recommended liter Mathematics curricu Hejný, M.: Teória vy M. Hejný, J. Novotr Karlova v Praze - Pe	ature: Ila and textbooks for middle and secondary schools yučovania matematiky 2. Bratislava : SPN 1989 Iá, N. Stehlíková: Dvacet pět kapitol z didaktiky matematiky 2, Univerzita edagogická fakulta, Praha, 2004			

Course language:

Slovak

Notes:

Course assessment Total number of assessed students: 99	
abs	n
100.0	0.0
Provides: doc. RNDr. Ingrid Semanišinová, PhD., Veronika Hubeňáková, PhD.	doc. RNDr. Dušan Šveda, CSc., RNDr.
Date of last modification: 24.08.2022	
Approved: prof. PhDr. Oľga Orosová, CSc., doc. Doboš, CSc.	RNDr. Mária Ganajová, CSc., prof. RNDr. Jozef

University:	Р	T	Šafárik	University	<i>i</i> in	Košice
University.	1.	J.	Salarik	University	/ 111	RUSICC

Faculty: Faculty of Science

Course ID: ÚMV/	Course name: Seminar on history of mathematics I
SHMa/22	

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: I., II.

Prerequisities:

Conditions for course completion:

Conditions for continuous evaluation:

1. Participation in teaching in accordance with the study rules and instructions of the teacher.

- 2. Activity.
- 3. Homework and tests.

4. Seminar work and its presentation at the seminar – poster from history of mathematics on the selected topic

Conditions for successful completion of the course:

1. Participation in teaching in accordance with the study regulations and according to the instructions of the teacher;

2. Credits will be awarded to students who score at least 50% on homework assignments and tests. Additional points can be achieved for the presentation of a seminar paper.

Learning outcomes:

The student knows the main stages of the development of mathematics, the history of the development of the language of mathematics, the development of selected concepts and some mathematical disciplines. The student understands the parallels between the phylogeny and ontogeny of mathematical thinking.

Brief outline of the course:

Prehistory, ontogeny and phylogeny.

Mathematics in ancient cultures: Egypt, Mesopotamia, China, India.

Mathematics in ancient Greece: Origins of Greek natural philosophy and mathematics. The discovery of incommensurability and its consequences (Pythagoras and his school). Classical problems of Greek mathematics. Problems with infinity (Zeno). Eudoxus' method. Plato, Aristotle, Euclid and his Foundations. Archimedes of Syracuse, Eratosthenes, Apollónios, Claudios Ptolemy, Diophantos.

Arabic mathematics and its relation to medieval European mathematics.

The origins of modern mathematics. The search for the roots of polynomial equations. The origins of analytic geometry. Probability. Infinitesimal calculus. Number theory. Non-Euclidean geometry. The origin of set theory.

Development of mathematical symbolism.

Selected topics in school mathematics from the perspective of the history of mathematics.

Recommended literature:

Burton, D. M.: The History of Mathematics: An Introduction. McGraw-Hill, 2007.

Devlin, K.: Jazyk matematiky. Dokořán, 2002. (in czech)

Čižmár, J. Dejiny matematiky (Od najstarších čias po takmer súčasnosť) Perfekt, 2017. (in slovak)

Mareš, M. Příběhy matematiky. Pistorius, 2011. (in czech)

Course language:

Slovak

Notes:

Course assessment

Total number of assessed students: 143

А	В	С	D	Е	FX
68.53	16.78	7.69	3.5	2.8	0.7

Provides: doc. RNDr. Ingrid Semanišinová, PhD.

Date of last modification: 24.08.2022

Faculty: Faculty of Science

Course ID: ÚMV/	Course name: Seminar on history of mathematics II
SHMb/22	

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: 3.

Course level: I., II.

Prerequisities:

Conditions for course completion:

Conditions for continuous evaluation:

1. Participation in teaching in accordance with the study rules and instructions of the teacher.

- 2. Activity.
- 3. Homeworks.
- 4. Seminar work on the selected topic and its presentation at the seminar

Conditions for successful completion of the course:

1. Participation in teaching in accordance with the study regulations and according to the instructions of the teacher;

2. Credits will be awarded to students who score at least 50% on homework assignments and tests. Additional points can be achieved for the presentation of a seminar paper.

Learning outcomes:

Students will demonstrate an understanding of the history of the development of some mathematical disciplines and selected concepts. They will demonstrate this understanding by scoring at least 50% on previous topics and homework assignments.

Brief outline of the course:

- 1. Algebra and geometry of 16th and 17th century Tartaglia, Vieta, Descartes
- 2. Beginning of modern number theory Mersenne, Fermat
- 3. Development of infinitesimals -- Newton, Leibniz, Bernoulliovci
- 4. Complex and hypercomplex numbers -- Hamilton, Cayley, Clifford
- 5. Combinatory and probability Pascal, Fermat
- 6. Algebra in the 18th and 19th century Gauss, Abel, Galois
- 7. Non-Euclidean geometries Gauss, Lobačevskij, Bolyai
- 8. Mathematical analysis in the 19th century Cauchy, Bolzano, Weierstrass
- 9. Set theory Bolzano, Cantor, Zermelo, Franklin

10. Mathematics in the beginning of 20th century - Peano, Hilbert, Gödel

Recommended literature:

Berlinghoff, W.P., Gouvea, F.Q.: Math through the Ages, MAA Press, 2015.

Čižmár, J. Dejiny matematiky (Od najstarších čias po takmer súčasnosť) Perfekt, 2017.

Hairer, E., Wanner, G.: Analysis by its History, Springer, 2008.

Mareš, M. Příběhy matematiky. Pistorius, 2011.					
Course langua Slovak	ge:				
Notes:					
Course assessment Total number of assessed students: 10					
А	В	С	D	Е	FX
40.0	40.0	20.0	0.0	0.0	0.0
Provides:					
Date of last modification: 21.09.2023					
Approved: prof Doboš, CSc.	f. PhDr. Ol'ga Oro	osová, CSc., doc.	RNDr. Mária G	anajová, CSc., pr	of. RNDr. Jozef
Faculty: Faculty of Science					

Course ID: KSSFaK/VSJU/15Course name: Slovak Language for Teachers					
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 credits: 2					
Recommended semester/trimester of the course: 1., 3.					
Course level: II.					
Prerequisities:					
 Conditions for course completion: Conditions for successful completion of the course: a) regular active participation in seminars, b) preparation of basic literature and content of lectures, c) elaboration of seminar work / creative task, d) successful completion of the final test. Conditions for obtaining the final evaluation: a) seminar work / creative task b) final test (min. 56%) Final evaluation: 100,00 - 92,00% A 91,99 - 83,00% B 82,99 - 74,00 % C 73.99 - 65.00% D 64.99 - 56.00% E 55.99% and less FX Prerequisites for successful completion of the course are annually updated on the electronic bulletin board in AIS2. 					
 Learning outcomes: During the final evaluation, the student demonstrates adequate mastery of the content standard of the course, which is defined by the required literature and seminar content, and demonstrates mastery of the performance standard, within which the student is able to practically apply the standard of standard Slovak in oral and written communications. manuals, gain skill in the bibliographic and citation standard. The graduate of the course normatively masters written communication on the basis of current orthographic rules and knows the basic characteristics of the means of expression of the text and functional language style. Brief outline of the course: Characteristics of basic terms of general linguistics (language – speech, language functions, the 					

sign character of language, language levels, content and form in language, individual and general aspect of language units) on interdisciplinary background and with the application to Slovak as a national language. Language standard, codification, usus. Basic codification manuals. Application of orthographic rules in practical documents. Sound culture, pronunciation styles. Orthoepic phenomena in vowels and consonants. Application of rhythmic law and its exceptions. Assimilation and its specific features in Slovak. Style, stylization – methods and demonstration of structure of text components.

Recommended literature:

BÓNOVÁ, I. - JASINSKÁ, L.: Jazyková kultúra nielen pre lingvistov. Košice: UPJŠ 2019. 100 s.

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

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

KRÁĽ, Á.: Pravidlá slovenskej výslovnosti. Martin: Matica slovenská 2006. 423 s.

Krátky slovník slovenského jazyka. Martin: Matica slovenská 2020.

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

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

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

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

Slovník súčasného slovenského jazyka. Bratislava: Veda 2006.

Slovník súčasného slovenského jazyka. Bratislava: Veda 2011.

Slovník súčasného slovenského jazyka. Bratislava: Veda 2015.

Course language:

Slovak language

Notes:

Course assessment

Total number of assessed students: 150

А	В	С	D	Е	FX
14.0	23.33	32.67	14.67	13.33	2.0

Provides: PhDr. Iveta Bónová, PhD., PhDr. Lucia Jasinská, PhD.

Date of last modification: 24.06.2022

University: P. J. Šafá	rik University in Košice			
Faculty: Faculty of S	cience			
Course ID: ÚCHV/ Course name: Special Practising the School Experiments I SPC1a/22				
Course type, scope a Course type: Praction Recommended cour Per week: 4 Per stur Course method: press	nd the method: ce rse-load (hours): idy period: 56 esent			
Number of ECTS cr	edits: 4			
Recommended semester/trimester of the course: 1.				
Course level: 11				

Prerequisities:

Conditions for course completion:

1. Participations in exercises (also applies to tohe online form of teaching). Students are required to participate in laboratory exercises. The students can excuse themself (incapacity for work, family reasons, etc.) for a maximum of two exercises during the semester without the need for replacement. In the case of a longer-term justified absence (for example due to incapacity for work), the student will be assigned an alternative form of mastering the missed curriculum.

2. Active participation in class. Students are active – they master the knowledge of general and inorganic chemistry, they know the working procedures for experiments, which include worksheets, cooperation and communication in pairs/groups and presentation of the results of their work. Learning materials will be available through the e-learning portal LMS Moodle (direct link to the website: https://lms.upjs.sk/) in the course Special Practising the School Experiments I.

3. Outputs – presentation of experiments for primary and secondary school. There will be two outputs focused on demonstration experiments on selected topics of primary and secondary school chemistry.

4. A part of the student's assessment in the subject is also a written test, given in the 8th week of teaching.

The final assessment in the course consists of the sum of points obtained for:

1. Active preparation for exercises (0-30 points).

2. Outputs – presentation of experiments for primary and secondary schools (0-20 points).

3. Written test (0-50 points).

Conditions for successful completion of the course: In order to obtain an A rating, it is necessary to obtain at least 85 points in total, to obtain an B rating at least 75 points, to obtain a C rating at least 65 points, to obtain a D rating at least 55 points and to obtain an E rating at least 45 points.

Learning outcomes:

The aim of the course is to acquire and consolidate basic experimental skills and habits in work techniques in school demonstration experiments with an emphasis on the safety and health of students in student experimental work. Students will also acquire basic knowledge and skills in the field of inquiry-based learning and work with computer-based chemical experiments.

Brief outline of the course:

1. General instructions for work in a school chemical laboratory.

2. Basic chemical concepts.

3. Basic chemical laws and properties of substances. Solubility of substances. Solutions. Determination of physical and chemical constants.

4. Energy changes in chemical reactions. Factors affecting the rate of chemical reactions.

5. Experiments on the topic of oxygen, hydrogen, air.

- 6. Halogens and their compounds.
- 7. Chalcogens and their compounds.
- 8. Carbon, nitrogen and their compounds.

9. Acids and bases.

10. Chemistry of everyday life in school experiments.

11. Environmental chemistry. Interesting school experiments.

Recommended literature:

1. GANAJOVÁ, M., DZURILLOVÁ, M.: Školské pokusy z chémie I. Košice: UPJŠ v Košiciach, Prírodovedecká fakulta, 2005. ISBN 80-7097-617-9.

2. KIREŠ, M., JEŠKOVÁ, Z., GANAJOVÁ, M., KIMÁKOVÁ, K.: Bádateľské aktivity v prírodovednom vzdelávaní. Časť A. Bratislava: ŠPÚ, 2016. ISBN 978-80-8118-155-9.

https://www.statpedu.sk/files/articles/nove_dokumenty/ucebnice-metodiky-publikacie/ badatelske-aktivity/01cast_a_web.pdf

3. GANAJOVÁ, M., KRISTOFOVÁ, M.: Bádateľské aktivity v prírodovednom vzdelávaní. Časť B. Ukážky vytvorených metodických a pracovných materiálov z predmetu Chémia. Bratislava: ŠPÚ, 2016. ISBN 978-80-8118-155-9.

https://www.statpedu.sk/files/articles/nove_dokumenty/ucebnice-metodiky-publikacie/ badatelske-aktivity/04cast_b_chemia_web.pdf

4. GANAJOVÁ a kol.: Zbierka inovatívnych metodík z chémie pre základné školy. Doplnené vydanie. Bratislava: CVTI SR, 2021. ISBN 978-80-8240-007-9.

https://vzdelavanie.itakademia.sk/vystupy/zim-che-zs.pdf

5. GANAJOVÁ a kol.: Zbierka inovatívnych metodík z chémie pre stredné školy. Doplnené vydanie. Bratislava: CVTI Bratislava: CVTI SR, 2021. ISBN 978-80-8240-008-6.

https://vzdelavanie.itakademia.sk/vystupy/zim-che-ss.pdf

6. Inovovaný štátny vzdelávací program pre 2. stupeň ZŠ. Človek a príroda. Chémia. https://www.statpedu.sk/files/articles/dokumenty/inovovany-statny-vzdelavaci-program/ chemia_nsv_2014.pdf

7. Inovovaný štátny vzdelávací program pre gymnázia so štvorročným a päťročným vzdelávacím programom. Človek a príroda. Chémia. https://www.statpedu.sk/files/articles/dokumenty/ inovovany-statny-vzdelavaci-program/chemia g 4 5 r.pdf

8. Učebnice chémie pre základné školy a gymnáziá.

9. Školský informačný systém. Chémia. http://kekule.science.upjs.sk/chemia/index.htm

10. Virtuálne prírodovedecké laboratórium. http://www.virtual-lab.sk/videozaznamy.html

11. Studium chemie. Portál PřF UK pro podporu vyuky chemie na SŠ a ZŠ.

https://studiumchemie.cz/

12. E-ChemBook – Multimediální učebnice chemie. https://www.youtube.com/user/ VideosChemWeb/videos

13. E – learning kurz: Špeciálne praktikum školských pokusov I, https://lms.upjs.sk/

Course language:

Notes:

Course assessment Total number of assessed students: 43							
A B C D E FX							
51.16	37.21	9.3	2.33	0.0	0.0		
Provides: doc. RNDr. Mária Ganajová, CSc., RNDr. Ivana Sotáková, Ph.D., RNDr. Martin Vavra, PhD.							
Date of last modification: 17.02.2022							

Faculty: Faculty of Science

Course ID: ÚCHV/	Course name: Special practising the school experiments II
SPC1b/22	

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:

1. Pressence is complusory. In the case of long-term absence can student realize experiments in alternative term.

2. Students activity - knowledges about reaction mechanisms and experimental skills to realize experiments.

3. Make reports of every exercise.

Classification:

1. Short exams on the beginning of every exercise (max 35 points)

2. Reports of every exercise (max 15 points)

3. Two exams (each max 25 points, min 51%)

- A: 100 91%
- B: 90 81%
- C: 80 71%
- D: 70 61%

E: 60 – 51%

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. Students will apply their knowledges and sklills in exploration activities in the topic of Natural compounds on the basis of 5E. They can motivate students using chemical experiments (https://studiumchemie.cz/, https://www.youtube.com/user/VideosChemWeb/videos, http://www.e-chembook.eu/).

Brief outline of the course:

1. Qualitative analysis of organic compounds - confirmation reactions for carbon, hydrogen, halogens and nitrogen.

2. Alkanes - preparation of methane.

3. Alkenes - preparation of ethene and its confirmation using its addition reactions; addition reactions of β -carotene.

4. Alkynes - preparation of acetylene and its derivatives, confirmation reactions of acetylene.

5. Aromatic hydrocarbons and their derivatives – preparation of benzene, aromatic electrophilic substitution reactions – nitration of toluene and naphthalene, preparation of benzyl bromide.

6. Halogenoderivatives – preparation of chloroethane and iodoform.

7. Hydroxoderivatives – oxidation reactions of ethanol, ability to distinguish methanol from ethanol, confirmation reaction of glycerol, preparation of sodium ethanolate and sodium phenoxide, bromation of phenol, colour reactions of phenols and naphtols.

8. Ethers – properties of diethyl ether.

9. Carbonyl compounds - preparation of formaldehyde and acetaldehyde, confirmation reactions of aldehydes and ketones.

10. Carboxylic acids and their derivatives – esterification reactions, reaction of carboxylic acids with magnesium, preparation and properties of soap.

11. Natural compounds – carbohydrates, proteins, amino acids, lipids. Exploration activities on the topic of Natural compounds: fermentation, bioglue, murder and food

12. Natural pH indicator - study of its colur changes depending on pH values.

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

14. Isolation of the fragrant components using steam distillation.

15. Everyday life chemistry.

Recommended literature:

1. SMIK, L., MERVA, L., BRUTOVSKÁ, A: Technika a didaktika školských pokusov Košice: Vyd. Rektorát UPJŠ, 1988.

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

3. Špeciálne praktikum školských pokusov z organickej chémie – Interné skriptá.

4. GANAJOVÁ a kol.: Zbierka inovatívnych metodík z chémie pre základné školy. 1. doplnené vydanie. Bratislava: CVTI SR, 2021. https://vzdelavanie.itakademia.sk/vystupy/zim-che-zs.pdf

5. GANAJOVÁ a kol.: Zbierka inovatívnych metodík z chémie pre stredné školy. 1. doplnené vydanie. Bratislava: CVTI SR, 2021. https://vzdelavanie.itakademia.sk/vystupy/zim-che-ss.pdf

6. Inovovaný štátny vzdelávací program pre 2. stupeň ZŠ. Človek a príroda. Chémia.

 $https://www.statpedu.sk/files/articles/dokumenty/inovovany-statny-vzdelavaci-program/chemia_nsv_2014.pdf$

7. Inovovaný štátny vzdelávací program pre gymnázia so štvorročným a päťročným vzdelávacím programom. Človek a príroda. Chémia. https://www.statpedu.sk/files/articles/dokumenty/ inovovany-statny-vzdelavaci-program/chemia g 4 5 r.pdf

8. Učebnice chémie pre základné školy a gymnáziá.

9. Studium chemie. Portál PřF UK pro podporu vyuky chemie na SŠ a ZŠ. https:// studiumchemie.cz/

10. E-ChemBook – Multimediální učebnice chemie. https://www.youtube.com/user/ VideosChemWeb/videos

Course language:

slovak language

Notes:

Course assessment							
Total number of	f assessed studen	ts: 36					
А	В	С	D	Е	FX		
66.67	30.56	2.78	0.0	0.0	0.0		

Provides: RNDr. Slávka Hamuľaková, PhD., univerzitná docentka, RNDr. Jana Špaková Raschmanová, PhD., RNDr. Ján Elečko, PhD.

Date of last modification: 16.02.2022

University: P. J. Šafá	rik University in Košice			
Faculty: Faculty of S	cience			
Course ID: ÚMV/ SVK/10	Course ID: ÚMV/ Course name: Students scientific conference			
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: 4			
Recommended seme	ster/trimester of the cours	e:		
Course level: I., II.				
Prerequisities:				
Conditions for cours	e completion:			
Learning outcomes: Individual scientific y public presentation.	work of students. Publishing	of obtained results in a written form and as a		
Brief outline of the c	ourse:			
Recommended litera With respect to the re	search problematics (article	in journals, books).		
Course language: Slovak or English				
Notes:				
Course assessment Total number of asses	ssed students: 24			
abs n				
100.0 0.0				
Provides:				
Date of last modifica	tion: 01.12.2021			
Approved: prof. PhD Doboš, CSc.	r. Oľga Orosová, CSc., doc.	RNDr. Mária Ganajová, CSc., prof. RNDr. Jozef		

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of S	cience		
Course ID: KPE/ MPPa/15	Course name: Supervised	Teaching Practice	
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 cours	e: 1.	
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 asses	ssed students: 783		
	abs	n	
100.0 0.0			
Provides: doc. PhDr. Petríková, PhD.	Beata Gajdošová, PhD., doo	c. PaedDr. Renáta Orosová, PhD., Mgr. Katarína	
Date of last modifica	ntion: 12.03.2024		
Approved: prof. PhD Doboš, CSc.	or. Oľga Orosová, CSc., doc.	RNDr. Mária Ganajová, CSc., prof. RNDr. Jozef	

University: P. J	. Šafárik Univers	ity in Košice					
Faculty: Facult	y of Science						
Course ID: KP PDU/15	E/ Course na	me: Teaching M	ethodology and	Pedagogy			
Course type, sc Course type: 1 Recommended Per week: 2/2 Course metho	ope and the met Lecture / Practice d course-load (h 2 Per study period: present	thod: ; ours): od: 28 / 28					
Number of EC	FS credits: 5						
Recommended	semester/trimes	ster of the cours	e: 1.	_			
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	ent f assessed studen	ts: 854					
А	В	С	D	E	FX		
24.82	24.82 28.34 26.35 14.4 5.62 0.47						
Provides: doc. 1	PaedDr. Renáta (Drosová, PhD., M	lgr. Katarína Peti	ríková, PhD.	L		
Date of last mo	dification: 12.03	3.2024					
Approved: prof Doboš, CSc.	f. PhDr. Ol'ga Oro	osová, CSc., doc.	RNDr. Mária G	anajová, CSc., pr	rof. RNDr. Jozef		

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 process. The method of teachi students' needs, expect respect and feedback The content of the cur topicality of the topics the connection of the of 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: 180

90.56 2.78 5.0 1.11 0.56 0.0	А	В	С	D	Е	FX
	90.56	2.78	5.0	1.11	0.56	0.0

Provides: Mgr. Ondrej Kalina, PhD.

Date of last modification: 24.06.2022

University: P. J.	University: P. J. Šafárik University in Košice					
Faculty: Faculty of Science						
Course ID: ÚCI VKOCHB/22	HV/ Course na	Course name: Vybrané kapitoly z organickej chémie a biochémie				
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	FS credits: 4					
Recommended	semester/trimes	ster of the cours	e: 3.			
Course level: II						
Prerequisities:						
Conditions for course completion:						
Learning outcomes:						
Brief outline of the course:						
Recommended literature:						
Course language:						
Notes:						
Course assessment Total number of assessed students: 0						
А	В	С	D	E	FX	
0.0	0.0	0.0	0.0	0.0	0.0	
Provides: prof. RNDr. Mária Kožurková, CSc., doc. RNDr. Miroslava Martinková, PhD., univerzitná profesorka, doc. RNDr. Ján Imrich, CSc.						
Date of last modification: 15.11.2021						
Approved: prof. PhDr. Ol'ga Orosová, CSc., doc. RNDr. Mária Ganajová, CSc., prof. RNDr. Jozef Doboš, CSc.						

University: P. J.	. Šafárik Univers	sity in Košice				
Faculty: Faculty of Science						
Course ID: ÚC VKVACH/22	HV/ Course na	Course name: Vybrané kapitoly zo všeobecnej a anorganickej chémie				
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	Recommended semester/trimester of the course: 3.					
Course level: II.						
Prerequisities:						
Conditions for course completion:						
Learning outcomes:						
Brief outline of the course:						
Recommended literature:						
Course language:						
Notes:						
Course assessment Total number of assessed students: 39						
А	В	С	D	Е	FX	
74.36	25.64	0.0	0.0	0.0	0.0	
Provides: prof. RNDr. Vladimír Zeleňák, DrSc., prof. RNDr. Zuzana Vargová, Ph.D.						
Date of last modification: 16.11.2021						
Approved: prof. PhDr. Ol'ga Orosová, CSc., doc. RNDr. Mária Ganajová, CSc., prof. RNDr. Jozef Doboš, CSc.						

University: P. J. Šafá	rik University in Koš	lice		
Faculty: Faculty of Science				
Course ID: ÚCHV/ SVKCHX/22	Course name: ŠVK (vystúpenie)			
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 credits: 4				
Recommended semester/trimester of the course:				
Course level: II.				
Prerequisities:				
Conditions for course completion:				
Learning outcomes:				
Brief outline of the course:				
Recommended literature:				
Course language:				
Notes:				
Course assessment Total number of asse	ssed students: 5			
	abs	n		
	100.0	0.0		
Provides:				
Date of last modification: 30.06.2022				
Approved: prof. PhDr. Oľga Orosová, CSc., doc. RNDr. Mária Ganajová, CSc., prof. RNDr. Jozef Doboš, CSc.				