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	COURSE INFORMATION LETTER
University: P. J. Šafán	rik University in Košice
Faculty: Faculty of S	cience
Course ID: ÚMV/ AIM/22	Course name: Application of ICT into mathematics teaching
Course type, scope a Course type: Practic Recommended cour Per week: 2 Per stu Course method: pre	ce rse-load (hours): dy period: 28
Number of ECTS cro	edits: 2
Recommended seme	ster/trimester of the course: 3.
Course level: II.	
Prerequisities: ÚMV	7/DDMb/22
of mathematical educ to assess and evaluate support active learnin and research approace teaching of mathemat effective use of inform several possibilities of Rating: Entry questionnaire - Design and solution of Test for the application Project for the application Project for the application Didactic processing of Test for solving const Participating in a disc Use of CAS in solvin Design of examples f Classification scale: A: 91 % - 100 %, B: 8	 a eans of information and communication technologies usable for the support cation and for solving various types of mathematical problems. To be able to the suitability and ways of using selected types of modern technologies to any of mathematics. To be able to apply the basic principles of constructivism of 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. of motivational word problems for the use of systems of linear equations - 5 b. cation of the EUR model or research-oriented teaching in teaching a selected of a selected construction task - 5 b. truction tasks - 4 b. cussion forum - 2 b.
technologies in solvi suggestions for the u environment support modern information t	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: 223

А	В	С	D	Е	FX
44.84	27.8	15.7	7.17	4.48	0.0

Provides: doc. RNDr. Stanislav Lukáč, PhD.

Date of last modification: 19.04.2022

University: P. J	. Šafárik Univers	sity in Košice			
Faculty: Facult	y of Science				
Course ID: ÚM APM/19	IV/ Course na	ame: Application	ns of mathemati	cs	
Course type:] Recommende	d course-load (h er study period:	ours):			
Number of EC	TS credits: 2				
Recommended	semester/trime	ster of the cours	se: 2.		
Course level: I	-				
Prerequisities:					
	course completi the chosen topic		inar.		
Learning outco Students get an activity.		plications of ma	thematics and it	s tools in various	areas of human
structure. 2. Statistical m analysis, linear	of graphs in anal ethods used in sl	hape recognition application in the	(geometric mor	central actors and rphometrics, prin- inosaur skulls and	cipal component
2. U. Brandes, Computer Scient 3. Karchynskay J. P., de Winter,	on, D. H. Ullmar I. Erlebach: Network nce, 3418), 2005 ra, V., Kopčákova	work Analysis: M á, J., Klein, D., C eld, S. A. (2020).	Aethodological I Gába, A., Madar Is BMI a Valid	ics, CRC Press, 2 Foundations (Lec asová-Gecková, A Indicator of Over , 4815.	ture Notes in A., van Dijk,
Course languag Slovak	ge:				
Notes:					
0	nent				
Course assessn Total number o	f assessed studen	its: 33			
		tts: 33	D	E	FX

Provides: prof. RNDr. Tomáš Madaras, PhD., RNDr. Lenka Halčinová, PhD., prof. RNDr. Ondrej Hutník, PhD., doc. RNDr. Daniel Klein, PhD., Mgr. Martin Vodička, Dr. rer. nat., RNDr. Jaroslav Šupina, PhD.

Date of last modification: 25.08.2022

University: P. J. Šaf	ărik University in Košice					
Faculty: Faculty of	Science					
Course ID: ÚFV/ ASFU/22	1 5					
Course type, scope Course type: Lectu Recommended cou Per week: 2 Per st Course method: pu	are arse-load (hours): udy period: 28					
Number of ECTS credits: 2						
Recommended semester/trimester of the course: 3.						
Course level: II.						
Prerequisities:						
Conditions for cour To successfully com	rse completion: aplete the course, the student must demonstrate sufficient understanding of the					

To successfully complete the course, the student must demonstrate sufficient understanding of the basic knowledge of the structure and evolution of the universe. Knowledge of the basic properties of stars and methods of their determination, the structure, evolution and energy sources of stars, the structure of matter in the universe and its evolution is required. The condition for obtaining credits is passing a written or oral exam, preparation, and presentation of a semester essay. The credit evaluation of the course considers the following student workload: direct teaching (1 credit) and assessment (1 credits). The minimum threshold for completing the course is to obtain at least 50% of the total score, using the following rating scale: A (90-100%), B (80-89%), C (70-79%), D (60- 69%), E (50-59%), Fx (0-49%).

Learning outcomes:

After completing the lectures, the student will master the basic knowledge about the properties of stars and methods of their determination, structure, evolution and energy sources of stars, the structure of matter in the universe and its evolution. It will also have sufficient physical knowledge and mathematical apparatus to enable independent solving of a various tasks related to astrophysical research.

Brief outline of the course:

1. Basic properties of stars and methods of their determination: radiation flux, apparent and absolute magnitude, distances of stars, colors of stars.

2. Temperature of stars, black body radiation, spectra of atoms and molecules, non-thermal radiation.

3. Spectral classifications, luminosity classes, HR diagram, masses of stars.

4. Structure of stars: basic equations of stellar structure, transfer of energy by radiation and convection, production of energy in stars, fusion reactions.

5. Evolution of stars: interstellar matter and formation of stars and stellar systems, Jeans' criterion, protostars.

6. Evolution of stars: main sequence stars, giants, final stages of star evolution - white dwarfs, neutron stars and black holes.

7. Distribution of matter in the universe: Milky Way, its structure, dynamics, and evolution, types of galaxies, quasars, intergalactic matter, local group of galaxies.

8. Clusters and super-clusters of galaxies, large-scale structure of the universe, dark matter, and dark energy.

9. Evolution of the universe: historical development of views on the universe, Olberson's paradox, gravitational paradox, Cosmological principle.

10. Isotropicity and homogeneity of the universe, relic radiation, expansion of the universe. Steady state theory.

11. Relativistic cosmology: cosmological solutions of Einstein's equations, models of the universe and their properties, theory of the expanding universe, the Big Bang, the age of the universe.

12. Origin of the universe: the initial stages of the expansion of the universe, inflationary expansion and nucleogenesis, the formation of galaxies and galaxy clusters.

Recommended literature:

1. Carroll, B. W., Ostlie, D. A., An Introduction to Modern Astrophysics, Addison-Wesley Publishing Company, Reading, Massachusetts, 1996;

2. Contopoulos, D. Kotsakis, Cosmology, the structure and evolution of the Universe, Springer, 1984;

3. Pasachoff, J.M., Filippenko, A., The Cosmos: Astronomy in the New Millennium, Cambridge University Press, 2013;

4. Vanýsek, V., Základy astronomie a astrofyziky, Academia, Praha, 1980;

5. Čeman, R., Pittich, E., Vesmír 1 - Slnečná sústava, MAPA Slovakia, Bratislava, 2002;

6. Čeman, R., Pittich, E., Vesmír 2 - Hviezdy - Galaxie, MAPA Slovakia, Bratislava, 2003;

Course language:

Slovak, English

Notes:

Course assessment

Total number of assessed students: 34

А	В	С	D	Е	FX
58.82	35.29	5.88	0.0	0.0	0.0

Provides: doc. RNDr. Rudolf Gális, PhD.

Date of last modification: 06.09.2022

Faculty: Faculty of S							
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	ce rse-load (hours): Idy period: 28						
Number of ECTS cr	edits: 2						
Recommended seme	ster/trimester of the course: 1., 3.						
Course level: II.							
Prerequisities:							
Conditions for course Active participation in Active participation - Seminar work - 40% Seminar work 2 - 400	n seminars. Detailed information will be given. - 20%						
schools and its conse	luate of the course can summarize the latest knowledge about bullying in						
student will develop seminars. Competences. The gr	s able to analyse problem situations related to bullying and solve them. The professional skills through the implementation of prevention activities ir aduate of the course is sensitive to the issue of bullying, knows how to identify stages and prevent it from developing into serious forms.						
student will develop seminars. Competences. The gr bullying in the early s Brief outline of the c Aggressive behavior, environment). Manif role of teacher, school level of school, class,	aduate of the course is sensitive to the issue of bullying, knows how to identify stages and prevent it from developing into serious forms.						
student will develop seminars. Competences. The gr bullying in the early s Brief outline of the c Aggressive behavior. environment). Manif role of teacher, school level of school, class, activities used in the Recommended litera Kolář, M.: Bolest šik 2001 Jánošová a kol. Psych Říčan, P.: Agresivita Janošová, P., Kollero	 a able to analyse problem situations related to bullying and solve them. The professional skills through the implementation of prevention activities in aduate of the course is sensitive to the issue of bullying, knows how to identify stages and prevent it from developing into serious forms. course: Characteristics of actors of bullying (personality, characteristics of family estations and possible causes of bullying. Bullying as a group process. The ol and parent in solving bullying. Possibilities of prevention of bullying at the individuals. Primary, secondary and tertiary prevention. Socio-psychologica prevention of bullying. 						
student will develop seminars. Competences. The gr bullying in the early s Brief outline of the c Aggressive behavior. environment). Manif role of teacher, school level of school, class, activities used in the Recommended litera Kolář, M.: Bolest šik 2001 Jánošová a kol. Psych Říčan, P.: Agresivita Janošová, P., Kollero	s able to analyse problem situations related to bullying and solve them. The professional skills through the implementation of prevention activities in aduate of the course is sensitive to the issue of bullying, knows how to identify stages and prevent it from developing into serious forms. Fourse: Characteristics of actors of bullying (personality, characteristics of family estations and possible causes of bullying. Bullying as a group process. The of and parent in solving bullying. Possibilities of prevention of bullying at the individuals. Primary, secondary and tertiary prevention. Socio-psychologica prevention of bullying. Ature: anování. Cesta k zastavení epidemie šikanování ve školách. Portál, Praha, hologie školní šikany. Grada, Praha, 2016 a šikana mezi dětmi. Portál, Praha, 1995 vá, L., Cakirpaloglu, P., & Vorlíček, R. (2023). Empatie žáků vůči						

Course assessm Total number o	nent f assessed studen	ts: 243			
А	В	С	D	Е	FX
87.24	11.52	0.82	0.41	0.0	0.0
Provides: doc. Mgr. Mária Bačíková, PhD.					
Date of last modification: 03.09.2024					
Approved: prof. PhDr. Oľga Orosová, CSc., prof. RNDr. Jozef Doboš, CSc., prof. RNDr. Peter Kollár, DrSc.					

University: P. J. Ša	afárik Universi	ty in Košice				
Faculty: Faculty of	f Science					
Course ID: KPO/ SDaM/15	Course na	Course name: Child and Adolescent Sociology				
Course type, scope Course type: Lec Recommended co Per week: 2 Per s Course method: 1	ture ourse-load (ho study period:	ours):				
Number of ECTS	credits: 2					
Recommended ser	nester/trimes	ter of the cours	e: 3.			
Course level: II.						
Prerequisities:						
Conditions for cou	urse completio	on:				
Learning outcome	es:					
Brief outline of the	e course:					
Recommended lite	erature:					
Course language:						
Notes:						
Course assessmen Total number of as	-	s: 1014				
A	В	С	D	Е	FX	
49.9	28.9	14.89	3.85	1.78	0.69	
Provides: doc. Mg	r. Alexander O	nufrák, PhD.		1	1	
Date of last modif	ication: 29.08	.2024				
Approved: prof. Pl Kollár, DrSc.	hDr. Ol'ga Oro	sová, CSc., prof	. RNDr. Jozef Do	oboš, CSc., prof.	RNDr. Peter	

University: P. J. Ša	afárik Universit	y in Košice				
Faculty: Faculty of	f Science					
Course ID: KPE/ MT/09	Course nar	Course name: Class Management				
Course type, scope Course type: Prace Recommended co Per week: 2 Per s Course method: 1	ctice ourse-load (ho study period: 2	urs):				
Number of ECTS	credits: 2					
Recommended ser	nester/trimest	er of the cours	e: 2.			
Course level: II.						
Prerequisities:						
Conditions for cou	ırse completio	n:				
Learning outcome	es:					
Brief outline of the	e course:					
Recommended lite	erature:					
Course language:						
Notes:						
Course assessmen Total number of as		s: 613				
А	В	С	D	Е	FX	
52.04	35.4	9.79	1.47	0.49	0.82	
Provides: doc. Pae	dDr. Renáta Or	rosová, PhD.	•	·		
Date of last modif	ication: 12.03.	2024				
Approved: prof. Pl Kollár, DrSc.	hDr. Ol'ga Oros	sová, CSc., prot	f. RNDr. Jozef D	oboš, CSc., prof.	RNDr. Peter	

University: P. J. Šafa	árik University in Košic	2e			
Faculty: Faculty of S	Science				
Course ID: ÚFV/ MPPc/15	Course name: Continuous Practice Teaching I				
Course type, scope a Course type: Pract Recommended cou Per week: Per stue Course method: pr	ice irse-load (hours): dy period: 4t				
Number of ECTS c	redits: 2				
Recommended sem	ester/trimester of the o	course: 3.			
Course level: II.					
Prerequisities: ÚFV	/MPPb/15				
	tings in on classes and to f sitting in on classes an	eaching as a confirmation of attendance in the required ad 18 physics lessons taught by student. Lesson records			
Learning outcomes: Student gains under Physics.		or trainer practical teaching skills within the subject of			
Brief outline of the Sitting in on classes of observed and taug	, teaching physics lesso	ons by student, consulted with teacher trainer, analysis			
Recommended liter Textbooks for lower	ature: and upper secondary so	chool physics			
Course language: Slovak					
Notes:					
Course assessment Total number of asse	essed students: 37				
	abs	n			
	100.0 0.0				
Provides: doc. RND	r. Jozef Hanč, PhD.				
Date of last modific	ation: 03.05.2015				
Approved: prof. PhI Kollár, DrSc.	Dr. Oľga Orosová, CSc.	, prof. RNDr. Jozef Doboš, CSc., prof. RNDr. Peter			

University: P. J. Šafa	árik University in Košio	ce	
Faculty: Faculty of S	Science		
Course ID: ÚFV/ MPPd/15	Course name: Continuous Practice Teaching II		
Course type, scope a Course type: Pract Recommended cou Per week: Per stue Course method: pr	ice I rse-load (hours): dy period: 6t		
Number of ECTS c	redits: 2		
Recommended sem	ester/trimester of the	course: 4.	
Course level: II.			
Prerequisities: ÚFV	/MPPc/15		
	tings in on classes and t f sitting in on classes ar	teaching as a confirmation of attendance in the required and 30 physics lessons taught by student. Lesson records	
Learning outcomes Student gains under Physics.		er trainer practical teaching skills within the subject of	
Brief outline of the Sitting in on classes of observed and taug	, teaching physics lesso	ons by student, consulted with teacher trainer, analysis	
Recommended liter Textbooks for lower	ature: and upper secondary s	chool physics	
Course language: Slovak			
Notes:			
Course assessment Total number of asse	essed students: 33		
	abs	n	
	100.0	0.0	
Provides: doc. RND	r. Jozef Hanč, PhD.		
Date of last modific	ation: 03.05.2015		
Approved: prof. PhI Kollár, DrSc.	Dr. Oľga Orosová, CSc.	., prof. RNDr. Jozef Doboš, CSc., prof. RNDr. Peter	

	COURSE INFORMATION LETTER
University: P. J. Šafái	rik University in Košice
Faculty: Faculty of Seculty	cience
Course ID: ÚMV/ VSPc/15	Course name: Continuous practice teaching I
Course type, scope an Course type: Practic Recommended cour Per week: Per stud Course method: pre	ce rse-load (hours): ly period: 4t
Number of ECTS cro	edits: 2
Recommended seme	ster/trimester of the course: 3.
Course level: II.	
Prerequisities: ÚMV	/VPPb/15
and 6 visitation of cla Submission of written classes visitations, sel	assignments (reflection on teaching practice, statement of teaching hours and lected lesson plans).
pedagogical practice. analysis of the lesson	nowledge acquired in didactic courses focused on teaching mathematics in . Development of the student's self-reflection within the framework of the s 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 co Visitations of classes Analysis of lessons Lesson plans preparat Classes managed acco Reflection on realized	in selected lessons tion ording to prepared lesson plan
Hejný, M.: Teória vyu M. Hejný, J. Novotná	a and textbooks for middle and secondary schools učovania matematiky 2. Bratislava : SPN 1989 a, N. Stehlíková: Dvacet pět kapitol z didaktiky matematiky 2, Univerzita dagogická fakulta, Praha, 2004
Course language: Slovak	

Course assessment Total number of assessed students: 130				
abs	n			
100.0	0.0			
Provides: doc. RNDr. Ingrid Semanišinová, PhD., RNDr. Veronika Hubeňáková, PhD.				
Date of last modification: 24.08.2022				
Approved: prof. PhDr. Ol'ga Orosová, CSc., pro Kollár, DrSc.	f. RNDr. Jozef Doboš, CSc., prof. RNDr. Peter			

	COURSE INFORMATION LETTER
University: P. J. Šafá	rik University in Košice
Faculty: Faculty of S	cience
Course ID: ÚMV/ VSPd/15	Course name: Continuous practice teaching II
Course type, scope a Course type: Practic Recommended cour Per week: Per stud Course method: pre	ce rse-load (hours): ly period: 6t
Number of ECTS cro	edits: 2
Recommended seme	ster/trimester of the course: 4.
Course level: II.	
Prerequisities: ÚMV	/VSPc/15
and 8 visitation of cla	ed number of hours and visitations of specified number of classes (30 teaching asses). assignments (reflection on teaching practice, statement of teaching hours and
pedagogical practice. analysis of the lesson	nowledge acquired in didactic courses focused on teaching mathematics in . 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 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	in selected lessons tion ording to prepared lesson plan
Hejný, M.: Teória vy M. Hejný, J. Novotná	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	
SIOVAK	

Course assessment Total number of assessed students: 118			
abs	n		
100.0	0.0		
Provides: doc. RNDr. Ingrid Semanišinová, PhD	., RNDr. Veronika Hubeňáková, PhD.		
Date of last modification: 24.08.2022			
Approved: prof. PhDr. Ol'ga Orosová, CSc., prot Kollár, DrSc.	f. RNDr. Jozef Doboš, CSc., prof. RNDr. Peter		

University: P. J. Š	Safárik Universi	ty in Košice			
Faculty: Faculty	of Science				
Course ID: KPE/ TTUP/15	Course name: Creating Text Teaching Aids				
Course type, scop Course type: Pra Recommended o Per week: 2 Per Course method:	actice course-load (ho study period: 2	urs):			
Number of ECTS	S credits: 2				
Recommended se	emester/trimest	er of the cours	se: 2.		
Course level: II.					
Prerequisities:					
Conditions for co	ourse completio	n:			
Learning outcom	ies:				
Brief outline of tl	he course:				
Recommended li	terature:				
Course language	•				
Notes:					
Course assessment Total number of a		s: 278			
А	В	С	D	Е	FX
57.55	31.29	7.91	2.52	0.72	0.0
Provides: doc. Pa	edDr. Renáta O	rosová, PhD., N	/Igr. Zuzana Vaga	ská, PhD.	
Date of last modi	fication: 12.03.	2024			
Approved: prof. l Kollár, DrSc.	PhDr. Ol'ga Oro	sová, CSc., pro	f. RNDr. Jozef D	oboš, CSc., prof.	RNDr. Peter

University: P. J. Šafár	rik University in Košice
Faculty: Faculty of So	cience
Course ID: KPPaPZ/VPU/17	Course name: Developmental Psychology for Teachers
Course type, scope an Course type: Practic Recommended cour Per week: 2 Per stue Course method: pre	e se-load (hours): dy period: 28
Number of ECTS cre	edits: 2
Recommended semes	ster/trimester of the course: 1., 3.
Course level: II.	
Prerequisities:	
final test - 40%	-
characterize the norm school age and adoles published in foreign j the topics covered. Th	derstand the principles of developmental psychology, and will be able to a 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.
Socialization in separ in the period of sch development. Applica - communication with	Durse: actors of development, cognitive development, personality development. rate developmental stages (family, peers, school). Specifics of development ool age, in pubescence and adolescence. Parents and their role in child ation of knowledge of developmental psychology in the teacher's practice th students in different developmental stages, creating a teacher-student ect to the development needs of the student.
Vágnerová, M. Vývoj Říčan, P. Cesta živote Thorová, K. Vývojov Macek, P. Adolescenc Matějček, Z rôzne c Bačíková, M. Psychol	 B). Keď dieťa potrebuje nielen psychológa. Grada publishing. B). Keď dieťa potrebuje nielen psychológa. Grada publishing. B) pová psychologie. Portál, Praha 2000 A) psychologie. Portál, Praha, 2015. C) Praha: Portál, 2003
Course language:	

Notes:					
Course assessn Total number o	nent f assessed studer	its: 135			
А	В	С	D	Е	FX
79.26	15.56	2.96	2.22	0.0	0.0
Provides: doc.	Mgr. Mária Bačíl	ková, PhD.		<u>.</u>	•
Date of last mo	dification: 03.09	9.2024			
Approved: prot Kollár, DrSc.	f. PhDr. Ol'ga Or	osová, CSc., pro	f. RNDr. Jozef Do	oboš, CSc., prof.	RNDr. Peter

					
University: P. J	. Šafárik Univers	sity in Košice			
Faculty: Facult	y of Science				
Course ID: ÚF DF1/22	Course ID: ÚFV/ Course name: Didactics of Physics I 0F1/22 0F1/22				
Course type: 1 Recommende	ope and the me Lecture / Practice d course-load (h 2 Per study peri d: present	e 1ours):			
Number of EC	TS credits: 4				
Recommended	semester/trime	ster of the cours	e: 2.		
Course level: II	•				
Prerequisities:					
analysis of mod elaboration and oral examinatio clarification of clarification of	n: two topics from the thematic unit model methodol	es own educational subject didactics t	activity		
Knowledge and education, basic	l skills in the fie c skills necessar	2	quide education	w about the prob al activities, scho	2
Knowledge and education, basic problem solving Brief outline of Within the Dida case studies of t	skills in the fie skills necessar and to use mod the course: netics of Physics heir solving are i	y to prepare and lern media for ph subject the core p interpreted. Strate	quide education ysics education. problems of phy gies on design a	al activities, scho	e introduced and
Knowledge and education, basis problem solving Brief outline of Within the Dida case studies of t activities, their are trained. Recommended	I skills in the fie c skills necessary g and to use mod the course: netics of Physics heir solving are in evaluation and the literature:	y to prepare and lern media for ph subject the core p interpreted. Strate	quide education ysics education. problems of phy gies on design a n media are intr	sics education are	e introduced and
Knowledge and education, basis problem solving Brief outline of Within the Dida case studies of t activities, their are trained. Recommended	I skills in the fie c skills necessary g and to use mod the course: actics of Physics heir solving are in evaluation and the literature: hoolbook Physics ge:	y to prepare and lern media for ph subject the core p interpreted. Strate the use of moder	quide education ysics education. problems of phy gies on design a n media are intr	sics education are	e introduced and
Knowledge and education, basic problem solving Brief outline of Within the Dida case studies of t activities, their are trained. Recommended e- version of sc Course languag	I skills in the fie c skills necessary g and to use mod the course: actics of Physics heir solving are in evaluation and the literature: hoolbook Physics ge:	y to prepare and lern media for ph subject the core p interpreted. Strate the use of moder	quide education ysics education. problems of phy gies on design a n media are intr	sics education are	e introduced and
Knowledge and education, basis problem solving Brief outline of Within the Dida case studies of t activities, their are trained. Recommended e- version of sc Course languag Slovak, English Notes:	I skills in the fie c skills necessary g and to use mod the course: actics of Physics heir solving are in evaluation and the literature: hoolbook Physics ge:	y to prepare and lern media for ph subject the core p interpreted. Strate the use of moder	quide education ysics education. problems of phy gies on design a n media are intr	sics education are	e introduced and
Knowledge and education, basis problem solving Brief outline of Within the Dida case studies of t activities, their are trained. Recommended e- version of sc Course languag Slovak, English Notes: Course assessm	I skills in the fie c skills necessary g and to use mod The course: netics of Physics heir solving are in evaluation and the literature: hoolbook Physic ge:	y to prepare and lern media for ph subject the core p interpreted. Strate the use of moder	quide education ysics education. problems of phy gies on design a n media are intr	sics education are	e introduced and

Provides: doc. RNDr. Marián Kireš, PhD., RNDr. Katarína Kozelková, PhD.

Date of last modification: 07.09.2021

University: P. J. Šafá	rik University in Košice
Faculty: Faculty of S	cience
Course ID: ÚFV/ DF2/22	Course name: Didactics of Physics II
Course type, scope a Course type: Lectur Recommended cour Per week: 2 / 2 Per Course method: pre	re / Practice rse-load (hours): study period: 28 / 28
Number of ECTS cr	edits: 4
Recommended seme	ster/trimester of the course: 3.
Course level: II.	
Prerequisities: ÚFV/	DF1/22
teaching plan for two micro teaching activi educational project 20 answering questions end-of course oral ex	ties 20p 0p during the course 10p
education, basic skill	s in the field of Physics education, overview about the problems of Physics s necessary to prepare and quide educational activities, school experiments, to use modern media for physics education
2. Graphs in educatio	forms and tools in physics education
 5. Everyday physics a 6. Computer based m 7. Using of Internet a 8. IBSE 9. Informal activities 	nd multimedia in education to support physics education g, science teacher training
 2.J. Janovič a kol.: V 3.E. Kašpar a kol.: D 4.E. Mechlová: Didal 5.J. Fenclová: Úvod o 6.Vachek, J. a kol.: F 	idaktika fyziky, MFF UK Bratislava, 1990 ybrané kapitoly didaktiky fyziky, MFF UK Bratislava, 1999 idaktika fyziky, SPN Praha, 1978 ktika fyziky 1, 2, PdF Ostrava, 1989 do teórie a metodológie didaktiky fyziky, SPN Praha, 1982 yzika pre 1. ročník gymnázia. SPN, Bratislava, 1984. Fyzika pre 2. ročník gymnázia. SPN, Bratislava, 1985.

8.Lepil, O. a kol.: Fyzika pre 3. ročník gymnázia. SPN, Bratislava, 1986. 9. Pišút, J. a kol.: Fyzika pre 4. ročník gymnázia. SPN, Bratislava, 1987. 10. Scholtz, E., Kireš, M.: Fyzika - Kinematika pre osemročné gymnáziá, SPN, Bratislava, 2001, 104 strán, ISBN 80-08-02848-3 11.Blaško, M., Gajdušek, J., Kireš, M., Onderová, Ľ.: Molekulová fyzika a termodynamika pre osemročné gymnáziá, SPN, Bratislava, 2004, 120 strán, ISBN 80-10-00008-6 12. Scholtz, E., Kireš, M.: Fyzika - Dynamika pre osemročné gymnáziá, SPN, Bratislava, 2007, 231 strán, ISBN 80-10-00013-2 School textbooks for Physics education at upper secondary level **Course language:** Slovak, English Notes: **Course assessment** Total number of assessed students: 34 В С D E FX А 76.47 14.71 5.88 0.0 0.0 2.94 Provides: doc. RNDr. Marián Kireš, PhD., RNDr. Katarína Kozelková, PhD. Date of last modification: 07.09.2021

University: P. J.					
Faculty: Faculty	y of Science				
Course ID: ÚM DDMa/22	V/ Course na	me: Didactics of	f mathematics I		
Course type: I Recommended	ope and the met Lecture / Practice d course-load (h l Per study perio d: present	ours):			
Number of EC	FS credits: 2				
Recommended	semester/trimes	ster of the cours	se: 1.		
Course level: II	•				
Prerequisities:					
Active participa	course completi ation - 40% of ass - 60% of assessn	sessment			
	derstands the terr				
The student und definitions of t of view of the assessment and acquired knowle		n. He looks cri the concept of rently to correct n of the lesson p	tically at the sch function. It char and incorrect s	hool curriculum acterizes high-q tudent solutions.	from the point uality formative . He applies the
The student und definitions of t of view of the assessment and acquired knowl to use it as a too Brief outline of The concept of the school curri function. Proxim Instrumented for	derstands the tern he term function development of can react differ edge in the desig of for his self-refl the course: function in mathe culum, knowledg nal formative assessmentive a	n. He looks cri the concept of rently to correct n of the lesson p ection. ematics, its aspe ge of the structur essment, knowle ent with a focus	tically at the sch function. It char and incorrect s olan. He knows th cts, and definition to of mathematics adge of the charact on the use of dig	hool curriculum racterizes high-q- tudent solutions. ne MTSK model ns. The concept of s with respect to teristics of learni tital technologies	from the point uality formative . He applies the and knows how of function in the concept of ing mathematics for assessment
The student und definitions of t of view of the assessment and acquired knowl to use it as a too Brief outline of The concept of the school curri function. Proxim Instrumented for in mathematics. for teacher self- Recommended Slovak and Cze	derstands the tern he term function development of can react differ edge in the desig of for his self-refl the course: function in mathe culum, knowledg nal formative assessment Selection of task reflection.	n. He looks cri the concept of rently to correct n of the lesson p ection. ematics, its aspe ge of the structur essment, knowle ent with a focus cs and digital too	tically at the sch function. It char and incorrect s blan. He knows th cts, and definition e of mathematics adge of the charact on the use of dig bls for teaching func- condary education	hool curriculum racterizes high-q- tudent solutions. ne MTSK model ns. The concept of s with respect to teristics of learni tital technologies unctions. MTSK	from the point uality formative . He applies the and knows how of function in the concept of ing mathematics for assessment model as a tool
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The student und definitions of t of view of the assessment and acquired knowl to use it as a too Brief outline of The concept of the school curri function. Proxir Instrumented fo in mathematics. for teacher self- Recommended Slovak and Cze curriculum of S Course languag Slovak Notes: Course assessm	derstands the tern he term function development of can react differ edge in the desig of for his self-reff the course: function in mathe- culum, knowledg nal formative assessme Selection of task reflection. literature: ch mathematics to lovakia, Czech re- ge:	n. He looks cri the concept of rently to correct n of the lesson p ection. ematics, its aspe ge of the structur essment, knowle ent with a focus cs and digital too	tically at the sch function. It char and incorrect s blan. He knows th cts, and definition e of mathematics adge of the charact on the use of dig bls for teaching func- condary education	hool curriculum racterizes high-q- tudent solutions. ne MTSK model ns. The concept of s with respect to teristics of learni tital technologies unctions. MTSK	from the point uality formative . He applies the and knows how of function in the concept of ing mathematics for assessment model as a tool
The student und definitions of t of view of the assessment and acquired knowl to use it as a too Brief outline of The concept of the school curri function. Proxir Instrumented fo in mathematics. for teacher self- Recommended Slovak and Cze curriculum of S Course languag Slovak Notes: Course assessm	derstands the tern he term function development of can react differ edge in the desig of for his self-reff the course: function in mathe culum, knowledg nal formative assessme Selection of task reflection. literature: ch mathematics to lovakia, Czech reference	n. He looks cri the concept of rently to correct n of the lesson p ection. ematics, its aspe ge of the structur essment, knowle ent with a focus cs and digital too	tically at the sch function. It char and incorrect s blan. He knows th cts, and definition e of mathematics adge of the charact on the use of dig bls for teaching func- condary education	hool curriculum racterizes high-q- tudent solutions. ne MTSK model ns. The concept of s with respect to teristics of learni tital technologies unctions. MTSK	from the point uality formative . He applies the and knows how of function in the concept of ing mathematics. for assessment model as a tool

Provides: doc. RNDr. Ingrid Semanišinová, PhD.

Date of last modification: 26.08.2022

University: P. J. Šafá	rik University in Košice
Faculty: Faculty of S	cience
Course ID: ÚMV/ DDMb/22	Course name: Didactics of mathematics II
Course type, scope a Course type: Lectur Recommended cou Per week: 2 / 2 Per Course method: pre	re / Practice rse-load (hours): study period: 28 / 28

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: 133

А	В	С	D	Е	FX
36.09	31.58	21.05	8.27	3.01	0.0

Provides: prof. RNDr. Jozef Doboš, CSc., RNDr. Veronika Hubeňáková, PhD.

Date of last modification: 05.05.2022

University:	ΡJ	Šafárik	University	in Košice
Chiver Sity.	1	Suluin	Oniversity	

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: 145

А	В	С	D	Е	FX
54.48	15.17	17.93	6.9	4.83	0.69

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: ÚFV/ DDP1/22	Course name: Diploma	Project I
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pre	rse-load (hours): ly period:	
Number of ECTS cr	edits: 2	
Recommended seme	ster/trimester of the cou	rse: 1.
Course level: II.		
Prerequisities:		
Conditions for cours regular consultations development, design	s with diploma thesis s	upervisor about the progress of diploma project
	the theoretical backgrous s presented first results, e	und, formulates research questions, has designed eventually.
Brief outline of the of Development of diple		
	ture that is included in the ma thesis preparation	e diploma thesis assignments
Course language: Slovak		
Notes:		
Course assessment Total number of asse	ssed students: 3	
	abs	n
	66.67	33.33
Provides:		· ·
Date of last modifica	tion: 15.02.2022	
Approved: prof. PhD Kollár, DrSc.	r. Oľga Orosová, CSc., p	rof. RNDr. Jozef Doboš, CSc., prof. RNDr. Peter

University: P. J. Šafá	rik University in Košice	
Faculty: Faculty of S	cience	
Course ID: ÚFV/ DDP2/22	Course name: Diploma P	roject II
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	rse-load (hours): y period:	
Number of ECTS cr	edits: 3	
Recommended seme	ster/trimester of the cour	se: 2.
Course level: II.		
Prerequisities:		
development and abo regular consultations	with diploma thesis sup ut the investigation	bervisor about the progress of diploma project diploma thesis assignments
Learning outcomes: Student understands	he methods of investigatio	n and he gains first results.
Brief outline of the c Work on the diploma		assignemnts of the diploma thesis
Recommended literat Recommended literat Regulations for diplo template for diploma	ure that is included in the or ma thesis preparation	liploma thesis assignments
Course language: Slovak		
Notes:		
Course assessment Total number of asses	ssed students: 3	
	abs	n
	66.67	33.33
Provides:		
Date of last modifica	tion: 15.02.2022	
Approved: prof. PhD Kollár, DrSc.	r. Oľga Orosová, CSc., pro	f. RNDr. Jozef Doboš, CSc., prof. RNDr. Peter

University: P. J. Šafá	rik University in Košice	
Faculty: Faculty of S	cience	
Course ID: ÚFV/ DDP3/22	Course name: Diploma	a Project III
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pro	rse-load (hours): ly period:	
Number of ECTS cr	edits: 3	
Recommended seme	ster/trimester of the co	urse: 3.
Course level: II.		
Prerequisities:		
Conditions for cours regular consultation development and abo	s with diploma thesis s	supervisor about the progress of diploma project
-	nowledge to prepare a the blem analysis and drawin	neoretical part of the diploma thesis and for practical ng conclusions.
Brief outline of the of Work on the project	course: with regard to the diplom	a thesis assignments
	ture that is included in thoma thesis preparation	e diploma thesis assignments
Course language: Slovak		
Notes:		
Course assessment Total number of asse	ssed students: 5	
	abs	n
	100.0	0.0
Provides:		
Date of last modifica	ntion: 15.02.2022	
Approved: prof. PhD Kollár, DrSc.	or. Oľga Orosová, CSc., p	orof. RNDr. Jozef Doboš, CSc., prof. RNDr. Peter

	Šafárik Universit	y in Košice				
Faculty: Faculty						
Course ID: ÚFV DPOU/22	V/ Course name: Diploma Thesis and its Defence					
Course type:						
Number of ECT	S credits: 14					
Recommended s	semester/trimest	er of the cours	se:			
Course level: II.						
Prerequisities:						
Preparation and	ourse completio submission of dip liploma thesis res	oloma thesis in	-		d.	
Learning outcome Knowledge and results in front o	skills connected v	vith selected pr	oblem analysis a	nd presentation o	f diploma thesi	
Printed version f Presentation of c	submission of dip	ults and answe	rs to the question	ns of reviewrs.	amination boar	
Recommended I	iterature:					
Course language	e:					
Notes:						
Course assessme Total number of	ent assessed students	s: 5				
A	В	С	D	Е	FX	
80.0	20.0	0.0	0.0	0.0	0.0	
Provides:				<u>.</u>		
Date of last mod	lification: 15.02.2	2022				
	lification: 15.02.2 PhDr. Ol'ga Oros		f. RNDr. Jozef D	oboš, CSc., prof.	RNDr. Peter	

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of S	cience		
Course ID: ÚMV/ DPP2a/22	Course name: Diploma	a project I	
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pre	rse-load (hours): ly period:		
Number of ECTS cr	edits: 1		
Recommended seme	ster/trimester of the co	urse: 1	
Course level: II.			
Prerequisities:			
Conditions for cours	se completion:		
Learning outcomes:			
Brief outline of the c	course:		
Recommended litera	ature:		
Course language:			
Notes:			
Course assessment Total number of asse	ssed students: 24		
	abs	n	
	100.0	0.0	
Provides:			
Date of last modifica	tion: 24.08.2022		
Approved: prof. PhD Kollár, DrSc.	r. Oľga Orosová, CSc., j	prof. RNDr. Jozef Doboš, CSc., prof. RNDr. Peter	r

University: P. J. Šafá	rik University in Košice					
Faculty: Faculty of S	cience					
Course ID: ÚMV/ DPP2b/22	Course name: Diploma p	Course name: Diploma project II				
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pre	rse-load (hours): ly period:					
Number of ECTS cr	edits: 1					
Recommended seme	ster/trimester of the cours	se: 2.				
Course level: II.						
Prerequisities:						
Conditions for cours	se completion:					
Learning outcomes:						
Brief outline of the c	course:					
Recommended litera	ature:					
Course language:						
Notes:						
Course assessment Total number of asse	ssed students: 14					
	abs	n				
	100.0 0.0					
Provides:		•				
Date of last modifica	tion: 24.08.2022					
Approved: prof. PhD Kollár, DrSc.	r. Oľga Orosová, CSc., pro	f. RNDr. Jozef Doboš, CSc., prof. RNDr. Peter				

University: P. J. Šafá	rik University in Košice					
Faculty: Faculty of S	cience					
Course ID: ÚMV/ DPP2c/22	Course name: Diplom	Course name: Diploma project III				
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pre	rse-load (hours): ly period:					
Number of ECTS cr	edits: 1					
Recommended seme	ster/trimester of the co	ourse: 3.				
Course level: II.						
Prerequisities:						
Conditions for cours	se completion:					
Learning outcomes:						
Brief outline of the c	course:					
Recommended litera	ature:					
Course language:						
Notes:						
Course assessment Total number of asse	ssed students: 23					
	abs	n				
	100.0 0.0					
Provides:						
Date of last modifica	tion: 24.08.2022					
Approved: prof. PhD Kollár, DrSc.	r. Oľga Orosová, CSc.,	prof. RNDr. Jozef Doboš, CSc., prof. RNDr. Peter				

University: P. J. Šafá	rik University in Košice					
Faculty: Faculty of S	cience					
Course ID: ÚMV/ DPP2d/22	Course name: Diploma	Course name: Diploma project IV				
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pre	rse-load (hours): ly period:					
Number of ECTS cr	edits: 2					
Recommended seme	ster/trimester of the cou	rse: 4.				
Course level: II.						
Prerequisities:						
Conditions for cours	se completion:					
Learning outcomes:						
Brief outline of the c	course:					
Recommended litera	ature:					
Course language:						
Notes:						
Course assessment Total number of asse	ssed students: 22					
	abs	n				
	100.0 0.0					
Provides:						
Date of last modifica	tion: 24.08.2022					
Approved: prof. PhD Kollár, DrSc.	r. Oľga Orosová, CSc., p	rof. RNDr. Jozef Doboš, CSc., prof. RNDr. Peter				

University: P. J. Safá	rik University in Košice
Faculty: Faculty of S	cience
Course ID: KPPaPZ/PUDU/15	Course name: Drug Addiction Prevention in Educational Practice
Course type, scope a Course type: Lectur Recommended cour Per week: 2 / 1 Per Course method: pre	re / Practice rse-load (hours): study period: 28 / 14
Number of ECTS cro	edits: 4
Recommended seme	ster/trimester of the course: 1., 3.
Course level: II.	
Prerequisities:	
semester evaluation: preparation (10p) and of the evaluation - w 90p and the final grad less: FX. Detailed inf of the subject will be	ter evaluation: active participation in the training part (30p). 2nd part of the active participation in workshops (20p) 3rd part of the semester evaluation implementation (10p) of block activities (20p, minimum 11 points). 4th part ritten knowledge exam (20p, minimum 11 points). In total, students can ge 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.
and explain the deter 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	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 adequately 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 bin coordinator at school.
prevention Prevention of substan Primary, secondary an Universal, selective a Effective substance p	ourse: gogical-psychological, medical and legal-forensic aspects of substance use nee use based on risk and resilience and tertiary prevention of substance use and indicated prevention of substance use revention strategies based on research data ementation of components of effective substance use prevention programs
Recommended litera Orosová, O. a kol. (20 internetu v školskej p	012). Základy prevencie užívania drog a problematického používania

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: 430

А	В	С	D	Е	FX
51.16	41.16	6.98	0.7	0.0	0.0
Provides: prof PhDr Ol'ga Orosová CSc Mgr Janka Lintáková PhDr Anna Janovská PhD					

Provides: prof. PhDr. Ofga Orosová, CSc., Mgr. Janka Liptáková, PhDr. Anna Janovská, PhD., Mgr. Zuzana Michalove

Date of last modification: 24.06.2022

	COURSE INFORMATION LETTER
University: P. J. Šafá	rik University in Košice
Faculty: Faculty of S	cience
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	re / Practice rse-load (hours): study period: 14 / 28
Number of ECTS cr	edits: 3
Recommended seme	ester/trimester of the course: 3.
Course level: II.	
Prerequisities:	
dynamic construction of geometric shapes commands of dynam problems, exploring g Rating: Test requiring the so geometric system - 10 Elaboration of a proj problems on a selecte Classification scale: A: 91 % - 100 %, B: 8	ect focused on the use of a dynamic geometric system in solving geometric
in solving geometric other types of tools invariant properties of quadrilaterals, conic	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 living more complex constructing tasks.
quadrilaterals, circles theorem, Varignon's gravity of triangles an 5. Investigation of se	and investigation of properties and geometric relations in triangles s and their use in solving construction problems. Menelaos's theorem, Ceva's theorem, Ptolemy's theorem, cyclic and tangential quadrilaterals, center of

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: 81

А	В	С	D	Е	FX
50.62	25.93	18.52	4.94	0.0	0.0

Provides: doc. RNDr. Stanislav Lukáč, PhD.

Date of last modification: 19.04.2022

University: P. J. Šafár	ik University in Košice
Faculty: Faculty of Sc	ience
Course ID: ÚMV/ DYS2/24	Course name: Dynamic systems
Course type, scope an Course type: Lecture Recommended cours Per week: 2 / 2 Per s Course method: pres	e / Practice se-load (hours): tudy period: 28 / 28
Number of ECTS cre	dits: 4
Recommended semes	ter/trimester of the course: 1.
Course level: II.	
Prerequisities:	
	e completion: kes the form of a written test during the semester. The overal evaluation is id-term evaluation (60%) and the result of final written and oral examination
theoretical and practic	students deep knowledge of the theory of dynamical systems from the al point of view (their modeling, their properties and numerical simulation). interdisciplinary approach and hte usage of software.
 Differential equation methods of solution. Difference equation 	e theory of dynamical systems and their properties. ons of n-th order and systems of differential equations - their relationship, as and systems - methods of solution. ess and continuation of Cauchy problem.
 2011 http://www.iam.fmph. 2. L. Kluvánek, I. Miš 3. N. M. Matvejev: Zb 4. Stuart, A.M.; Hump Cambridge University 5. Jacques M. Bahi an Machines: Theory and 6. Kelley, C. T. (1995) 	erenčné a diferenciálne rovnice (vysokoškolský učebný text), FMFI UK, uniba.sk/skripta/brunovsky/ddrtext.pdf ík, M. Švec: Matematika II, SVTL, Bratislava, 1961. bierka príkladov z obyčajných diferenciálnych rovníc, ALFA, Bratislava, ohries, A.R. (1996), Dynamical Systems and Numerical Analysis,

Slovak					
Notes:					
Course assessm Total number of	ent f assessed studen	ts: 24			
А	В	С	D	Е	FX
33.33	16.67	16.67	25.0	8.33	0.0
Provides: doc. N	Mgr. Jozef Kiseľá	ik, PhD.			•
Date of last mo	dification: 27.03	.2024			
Approved: prof Kollár, DrSc.	[°] . PhDr. Ol'ga Oro	osová, CSc., prof	. RNDr. Jozef D	oboš, CSc., prof.	RNDr. Peter

University: P. J. Š	Safárik Universi	ty in Košice			
Faculty: Faculty of	of Science				
Course ID: KPPaPZ/VP/09	Course na	ne: Educationa	l Counselling		
Course type, scop Course type: Pra Recommended o Per week: 2 Per Course method:	actice course-load (ho study period: 2	urs):			
Number of ECTS	S credits: 2				
Recommended se	emester/trimest	er of the cours	e: 2.		
Course level: II.					
Prerequisities:					
Conditions for co	ourse completio	n:		_	
Learning outcom	ies:				
Brief outline of tl	he course:				
Recommended lit	terature:				
Course language	:				
Notes:					
Course assessmen Total number of a		s: 262			
A	В	С	D	Е	FX
76.72	14.5	5.73	2.29	0.76	0.0
Provides: PhDr. A	Anna Janovská,	PhD.		·4	
Date of last modi	fication: 30.01.	2025			
Approved: prof. I Kollár, DrSc.	PhDr. Ol'ga Oro	sová, CSc., pro	f. RNDr. Jozef D	oboš, CSc., prof.	RNDr. Peter

University: P. J.	Šafárik Universi	ty in Košice					
Faculty: Faculty	of Science						
Course ID: KPE ZSP/15	/ Course na	Course name: Essentials of Special Education					
Course type, sco Course type: L Recommended Per week: 2 Per Course method	ecture course-load (ho r study period:	ours):					
Number of ECT	S credits: 2						
Recommended s	semester/trimes	ter of the cours	se: 3.				
Course level: II.							
Prerequisities:							
Conditions for c	ourse completio	on:					
Learning outcor	nes:						
Brief outline of	the course:						
Recommended l	iterature:						
Course language	e:						
Notes:							
Course assessme Total number of		s: 805					
A	В	С	D	Е	FX		
52.42	24.35	12.3	6.58	3.6	0.75		
Provides: PaedD	r. Michal Novoc	ký, PhD., doc.	PaedDr. Renáta O	rosová, PhD.			
Date of last mod	ification: 14.09	.2024					
Approved: prof. Kollár, DrSc.	PhDr. Ol'ga Oro	sová, CSc., pro	f. RNDr. Jozef Do	oboš, CSc., prof.	RNDr. Peter		

University: P. J.	Šafárik Univers	ity in Košice					
Faculty: Faculty	of Science						
Course ID: KPE/ ZZP/12	Course na	Course name: Experiential Education					
Course type, sco Course type: Le Recommended Per week: 1 / 2 Course method	ecture / Practice course-load (h Per study perio	ours):					
Number of ECT	S credits: 4						
Recommended s	emester/trimes	ster of the cours	e: 1., 3.				
Course level: II.							
Prerequisities:							
Conditions for co	ourse completi	on:					
Learning outcon	nes:						
Brief outline of t	he course:						
Recommended li	iterature:						
Course language	2:						
Notes:							
Course assessme Total number of a	-	ts: 451					
A	В	С	D	Е	FX		
41.46	38.58	14.63	4.21	0.89	0.22		
Provides: doc. Pa	aedDr. Renáta C	Drosová, PhD., M	Igr. Beáta Sakalo	ová, PhD.	1		
Date of last mod	ification: 14.09	0.2024					
Approved: prof. Kollár, DrSc.	PhDr. Ol'ga Oro	osová, CSc., prot	f. RNDr. Jozef D	oboš, CSc., prof.	RNDr. Peter		

Faculty: Faculty of S	cience
Course ID: ÚMV/ GEO2d/22	Course name: Geometry IV
Course type, scope a Course type: Lectur Recommended cour Per week: 3 / 2 Per Course method: pre	re / Practice rse-load (hours): study period: 42 / 28
Number of ECTS cr	edits: 5
Recommended seme	ster/trimester of the course: 3.
Course level: I., II.	
Prerequisities:	
proofs of statements, to given topics is requ which 50% of points of	of geometry, the ability to formulate definitions and statements, to present to explain individual steps in proofs and to solve selected problems related uired. 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
understanding of im	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
 (week 3-7) Affine fixed points and lines (week 8-10) Isome plane, composition of (week 11-12) Sin composition of homo 	surfaces (circular and general quadric surfaces) transformations (associated transformation, matrix representation, affinities, s, pseudo-reflections) etric transformations (matrix representation, isometries, classification in the reflections) milarity transformations (matrix representation, similarities, homothety, otheties) netry of circles (the power of a point with respect to a circle, radical axis of
2. O. Šedivý et al, Ge	nture: Geometry 2, SPN, 1988 (in slovak). cometry 2, SPN, 1987 (in slovak). ntroduction to geometry, Wiley, 1989.
	ds of geometry, Wiley, 2000.

Notes:					
Course assessn Total number o	nent f assessed studen	ts: 216			
А	В	С	D	E	FX
15.74	15.28	23.61	20.83	18.52	6.02
Provides: RND	r. Igor Fabrici, D	r. rer. nat., RNDr	. Daniela Šabako	ová	
Date of last mo	dification: 14.04	.2022			
Approved: pro: Kollár, DrSc.	f. PhDr. Ol'ga Oro	osová, CSc., prof	E. RNDr. Jozef D	oboš, CSc., prof.	RNDr. Peter

University: P. J. Ša	fárik University in Košice
Faculty: Faculty of	Science
Course ID: KPPaPZ/PsZ/15	Course name: Health Psychology
Course type, scope Course type: Prac Recommended co Per week: 2 Per s Course method: p	tice ourse-load (hours): tudy period: 28
Number of ECTS	
Recommended sen	nester/trimester of the course: 1., 3.
Course level: II.	
Prerequisities:	
Preparation and pre agreed timeframe (tions: in in seminars (25%) – a maximum of 2 absences is allowed. esentation of a seminar paper on a topic assigned during the seminar, within the 25%). ongoing presentation (50%).

Knowledge: Students will gain basic knowledge of health psychology, including factors that promote health and those contributing to the development of illnesses. They will learn to formulate the basic theses of health psychology, explain its concepts, and understand the principles of the biopsycho-social model of health. They will expand their understanding of the applications of health psychology in working with individuals and groups, including in school settings.

Skills: Students will develop the ability to prepare a basic preventive program focused on promoting a healthy lifestyle and managing stress. They will learn to implement acquired knowledge in practice, including working with children and youth in school environments.

Competencies: Graduates will be able to effectively participate in the creation and implementation of preventive programs that support health and mental well-being. They will know how to apply psychological knowledge when working with students in school settings, contributing to the improvement of both mental and physical health of individuals and society.

Brief outline of the course:

- 1. Health psychology. Definition of health. Bio-psycho-social model of health.
- 2. Mental health and quality of life, well being.
- 3. Physiological aspects of mental health, lifestyle

- 4. Stress. Coping, resilience.
- 5. Psychosomatic diseases, placebo.
- 6. Social support and its importance for health.
- 7. Burnout syndrome.
- 8. The meaning of life, faith.
- 9. Health-related behavior and prevention. Risky behavior, excessive use of the Internet and screens.
- 10. Socio-economic inequalities in health. Unemployment and health.

Recommended literature:

Křivohlavý, J. (2001). Psychologie zdraví. Praha: Portál.

Kebza, V. (2005). Psychosociální determinanty zdraví. Praha: Academia.

Křivohlavý, J. (2002). Psychologie nemoci. Praha: Grada.

Sarafino, E. P. (2007). Health psychology: Biopsychosocial interactions. John Wiley & Sons.

Taylor, E. (2006). Health psychology. Singapore: McGraw-Hill.

Vollrath, M. E. (2006). Handbook of personality and health. Chichester: John Wiley & Sons. Marks, D. F., Murray, M., Estacio, E. V., & others. (2024). Health psychology: Theory, research and practice (7th ed.). SAGE Publications Ltd

Mareš, J., & Kebza, V. (2024). Psychologie zdraví. Grada.

Course language:

Notes:

Course assessment

Total number of assessed students: 149

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

Provides: doc. Mgr. Gabriel Baník, PhD.

Date of last modification: 04.02.2025

University: P. J. Šafá	rik University in Košice
Faculty: Faculty of S	cience
Course ID: KPPaPZ/UPN/17	Course name: Introduction into Psychology of Religion
Course type, scope a Course type: Practic Recommended cou Per week: 2 Per stu Course method: pre	ce rse-load (hours): Idy period: 28
Number of ECTS cr	edits: 2
Recommended seme	ester/trimester of the course: 2.
Course level: II.	
Prerequisities:	
distance format. Up-1	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 ic board of the subject in the Academic Information System (AIS) of the UPJŠ.
of research and appli and evaluate this kno orientation in the fiel	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
 Psychological pers Psychology of reli Basic approaches t Different types of Psychological view Spirituality versus Coping in the cont 	ogy of religion in national and world context spective on religion and religious experience gion in an interdisciplinary context to psychological interpretation and selected views religious experience w of religion from a biodromal perspective religiosity in a postmodern society
Eliade, M. (1995). D Freud, S. (1999). Nut Praha: Psychoanalyti Fromm, E. (2003). P Erikson, E. (1996). M Psychoanalytické nal James, W. (1930). Dr	osvátné a profánní. Praha: Česká křesťanská akademie. ějiny náboženského myšlení 1. Praha: Oikoymenh. tkavá jednání a náboženské úkony. In Freud, S., Spisy z let 1906–1909. cké nakladatelství. sychoanalýza a náboženství. Praha: Aurora Iladý muž Luther: studie psychoanalytická a historická. Praha:

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

Provides: Mgr. Jozef Benka, PhD.

Date of last modification: 21.02.2025

University: P. J. Šafá	rik University in Košice					
Faculty: Faculty of S	cience					
Course ID:Course name: Introduction to Research Methodoly in Education andKPPaPZ/ZMPPV/15Psychology						
Course type, scope a Course type: Lectur Recommended cour Per week: 2 / 2 Per Course method: pre	re / Practice rse-load (hours): study period: 28 / 28					
Number of ECTS cr	edits: 4					
Recommended seme	ster/trimester of the course: 2.					

Course level: II.

Prerequisities: KPE/PDU/15 and KPPaPZ/PPgU/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 Total number o	nent f assessed studen	ts: 825			
А	В	С	D	Е	FX
19.27	28.48	24.61	19.03	8.48	0.12
Provides: doc.	Mgr. Mária Bačíl	ková, PhD., PhDi	r. Anna Janovská	i, PhD.	
Date of last mo	dification: 24.06	5.2022			
Approved: pro: Kollár, DrSc.	f. PhDr. Ol'ga Oro	osová, CSc., prof	E. RNDr. Jozef D	oboš, CSc., prof.	RNDr. Peter

University: P. J.	Šafárik Univers	sity in Košice			
Faculty: Faculty	y of Science				
Course ID: ÚM LTM2/22	V/ Course na	ame: Logic and s	et theory		
Recommended	Lecture / Practico l course-load (h 2 Per study peri	e iours):			
Number of EC	FS credits: 4				
Recommended	semester/trime	ster of the cours	e: 1.		
Course level: II	•				
Prerequisities:					
Conditions for Exam	course complet	ion:			
Learning outco To obtain a bas a proof.		the mathematica	I notion of an	infinity. Analysis	of the notion of
mappings. Finite and coun Sentential calcu	table sets. Cardin Ilus, an axiomat Ius, examples. A	nality of continuu ization. Complete Axiomatizations of	m. Elementary ness Theorem.	of the set of reals cardinal arithmeti Methods of proof culus and the not	cs. fs. Language of
Recommended E. Mendelson, I		Aathematical Log	ic, van Nostran	d 1964.	
Course languag Slovak	ge:				
Notes:					
Course assessm Total number of	ent fassessed studer	nts: 307			
А	В	С	D	Е	FX
14.33	18.89	19.54	16.94	28.66	1.63
Provides: prof.	RNDr. Ondrej H	utník, PhD., RNI	Dr. Jaroslav Šup	oina, PhD.	
Date of last mo	dification: 18.02	2.2022			
Approved: prof Kollár, DrSc.	. PhDr. Ol'ga Or	osová, CSc., prof	. RNDr. Jozef I	Doboš, CSc., prof.	RNDr. Peter

		sity in Košice			
Faculty: Faculty	of Science				
Course ID: ÚM DPU/22	V/ Course na	ame: Magister t	hesis and its defen	Ise	
	l course-load (h • study period:				
Number of EC	FS credits: 14				
Recommended	semester/trimes	ster of the cour	se:		
Course level: II	•				
Prerequisities:					
	-		teria is verified ma	• •	-
Learning outco The diploma the field of study, a profile of the gra selected field pr of content, form	mes: esis demonstrate cquisition of kno aduate of the stud oblems. Student al and ethical. Fu	s mastery of ext owledge, skills a ly program, as w demonstrates the urther details on	o so is reason for tended theory and and competencies rell as the ability to e ability of indepe- the diploma thesis and the Study Re	professional ter in accordance w apply them crea ndent profession are determined	minology of the with the declared trively in solving al work in terms by Directive no.
Learning outco The diploma the field of study, a profile of the gra selected field pr of content, form 1/2011 on the b Brief outline of 1. Elaboration of 2. Presentation	mes: esis demonstrate cquisition of kno aduate of the stuc oblems. Student al and ethical. Fu asic requirement the course: of the diploma the of the results of the	s mastery of ext owledge, skills a ly program, as w demonstrates the urther details on s of final theses esis in accordan the diploma these	tended theory and and competencies rell as the ability to e ability of indepe- the diploma thesis	professional terr in accordance we apply them creat ndent profession are determined gulations of UPJ ctions of the super nination commis	minology of the with the declared atively in solving al work in terms by Directive no. IS in Košice.
Learning outco The diploma the field of study, a profile of the gra selected field pr of content, form 1/2011 on the b Brief outline of 1. Elaboration of 2. Presentation of 3. Answering qu Recommended	mes: esis demonstrate cquisition of kno aduate of the stud oblems. Student al and ethical. Fu asic requirement the course: of the diploma the of the results of the uestions related the literature:	s mastery of ext owledge, skills a ly program, as w demonstrates the urther details on s of final theses essis in accordan the diploma thes to the topic of th	tended theory and and competencies rell as the ability to e ability of indepen- the diploma thesis and the Study Re- ce with the instruc- sis before the exam-	professional term in accordance we apply them creat indent profession are determined gulations of UPJ etions of the super- nination commiss within the discuss	minology of the with the declared atively in solving al work in terms by Directive no. IS in Košice. ervisor. ssion. sion.
Learning outco The diploma the field of study, a profile of the gra selected field pr of content, form 1/2011 on the b Brief outline of 1. Elaboration of 2. Presentation of 3. Answering qu Recommended The recommend diploma thesis.	mes: esis demonstrate cquisition of kno aduate of the stud oblems. Student al and ethical. Fu asic requirement the course: of the diploma the of the results of the uestions related the literature: led literature is c	s mastery of ext owledge, skills a ly program, as w demonstrates the urther details on s of final theses essis in accordan the diploma thes to the topic of th	tended theory and and competencies rell as the ability to e ability of indepe- the diploma thesis and the Study Re- ce with the instruc- sis before the exan e diploma thesis y	professional term in accordance we apply them creat indent profession are determined gulations of UPJ etions of the super- nination commiss within the discuss	minology of the with the declared atively in solving al work in terms by Directive no. IS in Košice. ervisor. ssion. sion.
Learning outco The diploma the field of study, a profile of the gra selected field pr of content, form 1/2011 on the b Brief outline of 1. Elaboration of 2. Presentation of 3. Answering qu Recommended The recommended diploma thesis.	mes: esis demonstrate cquisition of kno aduate of the stud oblems. Student al and ethical. Fu asic requirement the course: of the diploma the of the results of the uestions related the literature: led literature is c	s mastery of ext owledge, skills a ly program, as w demonstrates the urther details on s of final theses essis in accordan the diploma thes to the topic of th	tended theory and and competencies rell as the ability to e ability of indepe- the diploma thesis and the Study Re- ce with the instruc- sis before the exan e diploma thesis y	professional term in accordance we apply them creat indent profession are determined gulations of UPJ etions of the super- nination commiss within the discuss	minology of the with the declared atively in solving al work in terms by Directive no. IS in Košice. ervisor. ssion. sion.
Learning outco The diploma the field of study, a profile of the gra selected field pr of content, form 1/2011 on the b Brief outline of 1. Elaboration of 2. Presentation of 3. Answering qu Recommended The recommended The recommended Slovak Notes: Course assessm	mes: esis demonstrate cquisition of kno aduate of the stud oblems. Student al and ethical. Fu asic requirement the course: of the diploma the of the results of the uestions related the literature: led literature is con- ge:	s mastery of ext owledge, skills a ly program, as w demonstrates the arther details on s of final theses esis in accordan the diploma thes to the topic of the letermined indiv	tended theory and and competencies rell as the ability to e ability of indepe- the diploma thesis and the Study Re- ce with the instruc- sis before the exan e diploma thesis y	professional term in accordance we apply them creat indent profession are determined gulations of UPJ etions of the super- nination commiss within the discuss	minology of the with the declared atively in solving al work in terms by Directive no. IS in Košice. ervisor. ssion. sion.
Learning outco The diploma the field of study, a profile of the gra selected field pr of content, form 1/2011 on the b Brief outline of 1. Elaboration of 2. Presentation of 3. Answering qu Recommended The recommended The recommended Slovak Notes: Course assessm	mes: esis demonstrate cquisition of kno aduate of the stud oblems. Student al and ethical. Fu asic requirement the course: of the diploma the of the results of the uestions related the literature: led literature is construction ge:	s mastery of ext owledge, skills a ly program, as w demonstrates the arther details on s of final theses esis in accordan the diploma thes to the topic of the letermined indiv	tended theory and and competencies rell as the ability to e ability of indepe- the diploma thesis and the Study Re- ce with the instruc- sis before the exan e diploma thesis y	professional term in accordance we apply them creat indent profession are determined gulations of UPJ etions of the super- nination commiss within the discuss	minology of the with the declared atively in solving al work in terms by Directive no. IS in Košice. ervisor. ssion. sion.

Provides:

Date of last modification: 19.04.2022

University: P. J. Šafá	rik University in Košice				
Faculty: Faculty of S	cience				
Course ID: ÚMV/ MZF/22Course name: Mathematical foundations of financial literacy					
Course type, scope a Course type: Practi Recommended cou Per week: 2 Per stu Course method: pro	ce rse-load (hours): idy period: 28				
Number of ECTS cr	redits: 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

А	В	С	D	Е	FX
34.81	20.25	22.15	13.29	8.23	1.27

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	ce rse-load (hours): dy period: 28
Number of ECTS cro	edits: 2
Recommended seme	ster/trimester of the course: 2.
Course level: II.	
Prerequisities:	
semester and active p Classification scale:	e completion: on the basis of the results of written examinations carried out during the articipation in exercises. %-90%, C: 71%-80%, D: 61%-70%, E: 51%-60%, FX: 0%-50%.
specific problems of t1. familiarise themselforward arguments,2. gain a deeper undinterconnections,3. be able to define an	iliar with the tasks, methods of problem solving, solving strategies and with teaching mathematics at primary and secondary schools. The student will ves 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, re tasks focused on utilising the aforementioned concepts and interpret the
systems, Divisibility	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.
Hecht, T. a kol., Mate Bratislava 1999-2002 Krantz, S.G., Technic	vá, Z., Metódy riešenia matematických úloh, Bratislava, SPN, 1992. zmatika pre 14. ročník gymnázií a SOŠ, OrbisPictusIstropolitana,
Course language: Slovak	
Notes:	

Course assess Total number of	nent of assessed studer	its: 164			
А	В	С	D	Е	FX
45.12	28.66	10.37	7.32	8.54	0.0
Provides: prof.	RNDr. Jozef Do	boš, CSc.			
Date of last mo	odification: 25.04	4.2022			
Approved: pro Kollár, DrSc.	f. PhDr. Ol'ga Or	osová, CSc., pro	f. RNDr. Jozef Do	oboš, CSc., prof.	RNDr. Peter

University: P. J. Šafá	rik University in Košice
Faculty: Faculty of S	cience
Course ID: ÚMV/ MST2/24	Course name: Mathematical statistics
Course type, scope a Course type: Lectur Recommended cour Per week: 2 / 2 Per Course method: pre	re / Practice rse-load (hours): study period: 28 / 28
Number of ECTS cr	edits: 4
Recommended seme	ster/trimester of the course: 1.
Course level: II.	
Prerequisities:	
(30p) and oral part of At least 50% must be	d on two written tests during the semester $(2x40p)$ and the result of the written
	in the knowledge about basic statistical methods and the ability to apply e in practical problems solving.
 Random vectors (d Covariance, correl Random sample, si Some important sta Point estimators ar Maximum likeliho Interval estimates, Testing of statistical 	lefinition, distributions, characteristics, joint and marginal distributions). ation and regression. ampling distributions and characteristics. atistics and their distributions. ad their properties. od method. confidence interval construction (2 weeks). al hypothesis (critical region, level of significance and power of test, methods
for searching optimal	critical regions)
1 1	nametric tests (2 weeks).
 Some important r Recommended litera Skřivánková V.: Pr Skřivánková VHa Casella, G., Berger DeGroot, M. H., S 	arametric tests (2 weeks).
 Some important r Recommended litera Skřivánková V.: Pr Skřivánková VHa Casella, G., Berger DeGroot, M. H., S 	arametric tests (2 weeks). nonparametric tests (2 weeks). Ature: avdepodobnosť v príkladoch, UPJŠ, Košice, 2006 ančová M.: Štatistika v príkladoch, UPJŠ, Košice, 2005 r, R., Statistical Inference, 2nd ed., Chapman and Hall/CRC, 2024 chervish, M. J.: Probability and Statistics, 4th ed., Pearson, Boston, 2012

Course assess Total number of	nent	ts: 88			
A	В	С	D	Е	FX
31.82	19.32	18.18	13.64	9.09	7.95
Provides: doc.	RNDr. Martina H	lančová, PhD.			
Date of last me	odification: 21.11	.2024			
Approved: pro Kollár, DrSc.	of. PhDr. Ol'ga Oro	osová, CSc., prot	f. RNDr. Jozef Do	oboš, CSc., prof.	RNDr. Peter

University: P. J. Šafá	rik University in Košice
Faculty: Faculty of S	cience
Course ID: ÚMV/ MDM/24	Course name: Mathematics and didactics of mathematics
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	rse-load (hours): y period:
Number of ECTS cr	edits: 2
Recommended seme	ster/trimester of the course:
Course level: II.	
Prerequisities: ÚMV	/DDMc/22
mathematics, demons	e completion: lge and competencies from the profile courses of specialisation Teaching strating the ability to synthesise the acquired knowledge and procedures and ms concerning mathematics teaching and learning.
Learning outcomes: Verification of acquir	red student competencies in accordance with the graduate profile.
 5. Equations and inec 6. Planimetry 7. Stereometry 8. Analytical geometrie 9. Elementary function 10. Goniometry 11. Sequences and set 12. Combinatorics 13. Probability and ste Within each topic, the An overview of and mathematics. An understanding of The ability to appliproblems the pupil is basic concepts from the second s	s als, fractional expressions qualities ry ons, basic properties ries atistics e student has to demonstrate: understanding of the key mathematical ideas that underpin secondary school f the important principles that must be considered when teaching a given topic. y knowledge in school mathematics, for example, to know what types of expected to solve, what are the objectives of teaching, how the ideas about he topic are created, and so on.
Recommended litera Information sources t	ture: ecommended within individual profile courses.
	···· F · · · · · · · · · · · · · · · ·

Course langua Slovak	ge:				
Notes:					
Course assessm Total number o	nent f assessed studen	ts: 0			
А	В	С	D	Е	FX
0.0	0.0	0.0	0.0	0.0	0.0
Provides:			L	<u>.</u>	1
Date of last mo	dification: 18.03	3.2024			
Approved: prot Kollár, DrSc.	f. PhDr. Ol'ga Oro	osová, CSc., prot	f. RNDr. Jozef D	oboš, CSc., prof.	RNDr. Peter

University: P. J. Šafá	rik University in Košice
Faculty: Faculty of S	cience
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	ce rse-load (hours): dy period: 28
Number of ECTS cr	edits: 2
Recommended seme	ster/trimester of the course: 2.
Course level: II.	
Prerequisities:	
 Active participati participation. Practical ongoing a 	Se completion: based on ongoing assessment: on 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.
recognize current avto use all types of a	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.
 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-voti 08. Digital collaborat 09. Virtual and digita 10. Education video 11. Smartphone and the 	als and didactic principles assroom in 21st century
2 . Redecker, C., & P	nture: odern didactical technics in teacher practice (in Slovak), Košice: Elfa, 2010 runie, Y. (2017). European Framework for the Digital Competence of Edu. 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: 121

А	В	С	D	Е	FX
56.2	27.27	12.4	2.48	1.65	0.0

Provides: doc. RNDr. Jozef Hanč, PhD.

Date of last modification: 07.07.2022

	COURSE INFORMATION LETTER					
University: P. J. Šafá	rik University in Košice					
Faculty: Faculty of S	cience					
Course ID: ÚFV/ MFDF/15						
Course type, scope a Course type: Lectur Recommended cour Per week: 2 / 1 Per Course method: pre	re / Practice rse-load (hours): study period: 28 / 14					
Number of ECTS cr	edits: 3					
Recommended seme	ster/trimester of the course: 1., 3.					
Course level: II.						
Prerequisities:						
 Practical ongoing a Active participation 	based on ongoing assessment: assignments (at least 50% needed) on during face-to-face contact learning in classical or virtual classroom (3 d during online learning (no absence, uploading all ongoing assignments)					
contemprorary mode (Emphasis is not on a of Physics Education elementary algebra and	onceptual understanding and an integrated view on fundamental ideas of rn physics, which every future physicist and physics teacher should have. bstract mathematical methods, but on using most recent knowledge and tools Research - computer modeling of physical phenomena and employing only nd calculus.) ion and experience dealing with practical applications of modern physics.					
diagram, principle of 0609. Fundamental momenergy, metrics, 1013. Fundamental	ideas of modern mechanics: scales, symmetry, event, worldlline, spacetime least action, conservation laws; practical applications. ideas of relativity: principle of relativity, space-time interval, conservation of principle of maximal aging; practical applications. ideas of quantum mechanics: probability amplitude, principle of democracy amplitudes, propagator, Schrödinger's equation, stationary state, Feynman's					
Boston, 2017 2. Feynman, R.P., QE Princeton, 1985 3. Hey, A., Walters, F 4. Taylor, E. F, Whee	Adeas That Shaped Physics - Unit C, Unit Q, Unit R, 3trd ed., Mc Graw Hill, ED - The Strange theory of Light and Matter, Princeton University Press, P., New Quantum Universe, Cambridge University Press, 2003 ler, J. A., Space-time Physics-Introduction to Special Relativity, 2nd ed., ompany, New York, 1992					

5. Taylor, Wheeler, Bertschinger, Exploring Black Holes - Introduction to General relativity, 2nd ed., 2018, https://archive.org/details/exploringblackholes

6. Thorne, K. S., Black Holes and Time Warps, W.W. Norton, New York, 1995

7. Relevant resources from recent journal literature (American Journal of Physics, European Journal of Physics, Scientific American...)

Course languag Slovak	ge:							
Notes:								
Course assessm Total number of	ent f assessed studen	ts: 5						
А	В	B C D E FX						
40.0	40.0	20.0	0.0	0.0	0.0			
Provides: doc. 1	RNDr. Jozef Han	č, PhD.	•					
Date of last mo	dification: 27.01	.2022						
Approved: prof Kollár, DrSc.	ř. PhDr. Oľga Oro	osová, CSc., prof	f. RNDr. Jozef Do	oboš, CSc., prof.	RNDr. Peter			

University: P. J.	Šafárik Univers	ity in Košice				
Faculty: Faculty	of Science					
Course ID: KPE PDK/17	Course na	Course name: Pedagogical Communication				
Course type, sco Course type: P Recommended Per week: 2 Pe Course method	ractice course-load (h r study period:	ours):				
Number of ECT	S credits: 2					
Recommended s	semester/trimes	ster of the cours	se: 1.			
Course level: II.						
Prerequisities:						
Conditions for c	ourse completi	on:				
Learning outco	nes:					
Brief outline of	the course:					
Recommended	literature:					
Course languag	e:					
Notes:						
Course assessme Total number of		ts: 217				
Α	В	С	D	Е	FX	
77.42	20.28	2.3	0.0	0.0	0.0	
Provides: Mgr. H	Beáta Sakalová,	PhD., Mgr. Kata	rína Petríková, P	hD.		
Date of last mod	lification: 14.09	.2024				
Approved: prof. Kollár, DrSc.	PhDr. Ol'ga Oro	osová, CSc., pro	f. RNDr. Jozef D	oboš, CSc., prof.	RNDr. Peter	

University: P. J.	Šafárik Univers	ity in Košice			
Faculty: Faculty	of Science				
Course ID: KPE PDD/17	/ Course na	Course name: Pedagogical Diagnostics			
Course type, sco Course type: P Recommended Per week: 2 Pe Course method	ractice course-load (h r study period:	ours):			
Number of ECT	'S credits: 2				
Recommended s	semester/trimes	ter of the cours	e: 2.		
Course level: II.					
Prerequisities:					
Conditions for c	ourse completi	on:			
Learning outcor	nes:				
Brief outline of t	the course:				
Recommended I	iterature:				
Course language	e:				
Notes:					
Course assessme Total number of		ts: 113			
A	В	С	D	Е	FX
85.84	10.62	3.54	0.0	0.0	0.0
Provides: PaedD	r. Michal Novo	cký, PhD., Mgr.	Beáta Sakalová,	PhD.	
Date of last mod	lification: 12.03	.2024			
Approved: prof. Kollár, DrSc.	PhDr. Ol'ga Oro	osová, CSc., prot	f. RNDr. Jozef D	oboš, CSc., prof.	RNDr. Peter

Faculty: Faculty of S	cience
Course ID: KPE/	Course name: Pedagogy
PD/22	
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	rse-load (hours): y period:
Number of ECTS cr	edits: 2
Recommended seme	ster/trimester of the course:
Course level: II.	
Prerequisities: KPE/	PDU/15
Conditions for cours Obtaining the require	e completion: d number of credits in the prescribed composition by the study plan.
Learning outcomes: The student is able to graduate.	demonstrate the acquired competencies in accordance with the profile of the
 2. Education, pages a 3. Factors of educat competencies. 4. School education, 5. Educational goals, 6. Methods of educat 7. Pedagogical princi 8. School system of the 9. Didactics, basic qui 10. Objectives of the 11. Content of educat curriculum. 12. Assessment in sch 	taxonomy, requirements, classification of educational goals. ion. ples.

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: 25

А	В	С	D	Е	FX
24.0	44.0	16.0	12.0	4.0	0.0

Provides:

Date of last modification: 12.03.2024

University: P. J. Šar	fárik University in Košice	
Faculty: Faculty of	Science	
Course ID: KPE/ PPD/22	Course name: Pedagogy and Psychology	
Course type, scope Course type: Recommended co Per week: Per stu Course method: p	urse-load (hours): 1dy period:	
Number of ECTS of	credits: 2	
Recommended sem	nester/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 assessn Total number o	nent f assessed studen	ts: 157			
А	В	С	D	Е	FX
31.85	33.76	24.2	8.92	0.64	0.64
Provides:			•		•
Date of last mo	dification: 12.03	5.2024			
Approved: pro Kollár, DrSc.	f. PhDr. Ol'ga Oro	osová, CSc., prot	f. RNDr. Jozef D	oboš, CSc., prof.	RNDr. Peter

Faculty: Faculty of S	Science
Course ID: ÚFV/ FYU/22	Course name: Physical Problems
Course type, scope a Course type: Lectu Recommended cou Per week: 1 / 2 Per Course method: pr	are / Practice arse-load (hours): c study period: 14 / 28
Number of ECTS c	redits: 3
Recommended sem	ester/trimester of the course: 1.
Course level: II.	
Prerequisities:	
for testing of student problem solving 40 p obtained problem 10 own problems 10 p oral examination 40 Final:	ems for self solving is avialable for students. One task is define for each seminar t preparation. Production and presentation of three own problems is necessary p) p
school levels. Clasic	: ady for using of problem solving strategies at lower and upper secondary cal problems are studied in more details from different pont of view (students ills, technologies, motivation, computer modelling and measuremets).
	course: a solving are presented and trained. The sets of typical problems are analysed and real experiments is discussed.
2.Bartuška,K: Postuj I, Praha, Prometheus 3.Halpern, A.: 3000 4.Janovič,J., Koubek 5.Jurčová, M., Dohň žiakov a študentov. I 6.Kružík, M.: Sbírka 7.Lindner, H.: Rieše 8.Linhart, J. (1976): Králové, MAFY, 199 9.Pietrasiński, Z. (19	úloh z fyziky, SPN Bratislava, 1971 p při řešení fyzikálních úloh, Sbírka řešených úloh z fyziky pro střední školy s, 1997, s. 5-10. solved problems in Physics, McGraw-Hill, Inc., USA, 1988 c,V. Pecen,I.: Vybrané kapitoly z didaktiky fyziky. Bratislava, UK, 1999, ianská, J., Pišút, J., Velmovská, K.: Didaktika fyziky – rozvíjanie tvorivosti Bratislava, UK, 2001, a úloh z fyziky pro žáky strědních škol, SPN, Praha, 1984 né úlohy z fyziky, Alfa, Bratislava, 1973 In: Volf, I.: Metodika řešení úloh ve výuce fyziky na základní škole. Hradec 98, 964): In: Volf, I.: Metodika řešení úloh ve výuce fyziky na základní škole.
Hradec Králové, MA	n 1, 1770,

10. Scholtz, E., Kireš, M.: Fyzika – kinematika pre gymnázia s osemročným štúdiom. Bratislava, SPN, 2001,

11. Šedivý, P., Volf, I.: Dopravní kinematika a grafy. Hradec Králové, MAFY, 1998.

12.Volf,I. (1975): In: Bednařík, M., Lepil, O.: Netradiční typy fyzikálních úloh. Praha, PROMETHEUS, 1995,

13.Volf,I.: Jak řešit úlohy fyzikální olympiády, XXIII. Ročník soutěze fyzikální olympiády ve školním roce 1981/82, Praha, SPN, 1981,

14. Volf,I.: Metodika řešení úloh ve výuce fyziky na základní škole. Hradec Králové, MAFY, 1998.

15.Halpern, A.: 3000 solved problems in Physics, McGraw-Hill, Inc., USA, 1988

Course language:

Slovak, English

Notes:

Course assessment

Total number of assessed students: 13

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

Provides: doc. RNDr. Marián Kireš, PhD.

Date of last modification: 15.02.2022

Faculty: Faculty of Science Course ID: ÚFV/ MSSU/22 Course name: Physics and Didactics of Physics 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: ÚFV/DF1/22 and ÚFV/FKS/22 and ÚFV/DF2/22 and ÚFV Conditions for course completion: The graduate has knowledge of physics in wider context. He is able to knowledge of physics into education. He is able to apply knowledge of selected physical content. Learning outcomes: Competencies in accordance with the graduate profile. Brief outline of the course: The graduate has knowledge of physics in wider context. He is able to knowledge of physics content into education. He is able to apply knowledge to selected physical content. Physics: Selected problems of Solid state physics, Subnuclear physics and Astroph Didactics of physics: State educational curriculum ISCED 2,3-Physics. Development of scie experiment. Active learning, inquiry-based education in physics. For assessment. Talented students and informal education. Analysis of low teaching units. Recommended literature: Course language: Slovak Slovak	urse ID: ÚFV	•	y in Košice			
MSSU/22 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: ÚFV/DF1/22 and ÚFV/FKS/22 and ÚFV/DF2/22 and ÚFV Conditions for course completion: The graduate has knowledge of physics in wider context. He is able to knowledge of physics into education. He is able to apply knowledge of selected physical content. Learning outcomes: Competencies in accordance with the graduate profile. Brief outline of the course: The graduate has knowledge of physics in wider context. He is able to selected physical content. Physics: Selected problems of Solid state physics, Subnuclear physics and Astroph Didactics of physics: State educational curriculum ISCED 2,3-Physics. Development of scie experiment. Active learning, inquiry-based education. Analysis of lowateaching units. Recommended literature: Course language: Slovak Notes:		of Science				
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: ÚFV/DF1/22 and ÚFV/FKS/22 and ÚFV/DF2/22 and ÚFV Conditions for course completion: The graduate has knowledge of physics in wider context. He is able to knowledge of physics into education. He is able to apply knowledge of selected physical content. Learning outcomes: Competencies in accordance with the graduate profile. Brief outline of the course: The graduate has knowledge of physics in wider context. He is able to knowledge of physics content into education. He is able to apply knowledge to selected physical content. Physics: Selected problems of Solid state physics, Subnuclear physics and Astroph Didactics of physics: State educational curriculum ISCED 2,3-Physics. Development of scie experiment. Active learning, inquiry-based education in physics. For assessment. Talented students and informal education. Analysis of lowed teaching units. Recommended literature: Course language: Slovak Notes:	5					
Recommended semester/trimester of the course: Course level: II. Prerequisities: ÚFV/DF1/22 and ÚFV/FKS/22 and ÚFV/DF2/22 and ÚFV Conditions for course completion: The graduate has knowledge of physics in wider context. He is able to knowledge of physics into education. He is able to apply knowledge of selected physical content. Learning outcomes: Competencies in accordance with the graduate profile. Brief outline of the course: The graduate has knowledge of physics in wider context. He is able to selected physical content. Physics: Selected physics content into education. He is able to apply knowledge to selected physical content. Physics: Selected problems of Solid state physics, Subnuclear physics and Astroph Didactics of physics: State educational curriculum ISCED 2,3-Physics. Development of scie experiment. Active learning, inquiry-based education in physics. For assessment. Talented students and informal education. Analysis of low teaching units. Recommended literature: Course language: Slovak	ourse type: ecommended er week: Per s	course-load (hou study period:				
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Course language: Slovak Notes:	e graduate has owledge of phy selected physic ysics: lected problem dactics of phys ate educational periment. Acti	s knowledge of ysics content into cal content. s of Solid state p sics: l curriculum ISC ive learning, inc nted students and	education. He hysics, Subnuc CED 2,3-Physic juiry-based ed	is able to apply k lear physics and cs. Developmen ucation in phys	Astrophysics. t of scientific litesics. for scientific litesics.	eracy. Physical and summative
Slovak Notes:	<u> </u>					
	commended li					
Course assessment	commended li urse language					
Total number of assessed students: 11	commended li urse language ovak					
A B C D H	commended li urse language ovak tes: urse assessme	: nt	: 11			
45.45 27.27 9.09 9.09 9.0	commended li urse language ovak tes: urse assessme tal number of a	nt assessed students		D	E	FX
Provides:	commended li urse language ovak tes: urse assessme tal number of a A	nt assessed students B	С		E 9.09	FX 0.0

Faculty: Facul					
	lty of Science				
Course ID: KPPaPZ/PASZ		e name: Problem an ntion and Interventio		ehaviour of Pupils	s. Etiology,
	Practice ed course-loa Per study per	d (hours):			
Number of E	CTS credits: 2	2			
Recommende	d semester/tr	imester of the cours	e: 2.		
Course level:	II.				
Prerequisities	•				
Conditions fo	r course com	oletion:			
Learning out	comes:				
Theoretical an	1 /				00
and in the fam behavior. Prob from impaired environment. classroom. Cr a parent. Coo school. Classr Viac o tomto z Odoslať spätn Bočné panely	nily. Bullying, olems arising fi l emotional ex School classr isis intervention peration with oom and scho zdrojovom tex ú väzbu	gression. Causes and Psychology of prob com group relationshi operience. Solving pro- oom management, g on. Work with parent other experts. Preve ol climate, school pro- teNa získanie ďalšíc	elem students. Pr ps. Adolescent li roblematic and a roup preventive s of problem stu ntion of aggress evention program	ifestyle issues. Progressive behavior and intervention idents. Principles sive and problemations.	from disturbed oblems resulting or in the schoo work with the of interviewing atic behavior a
and in the fam behavior. Prob from impaired environment. classroom. Cr a parent. Coo school. Classr Viac o tomto z Odoslať spätn Bočné panely Recommende	nily. Bullying. olems arising fi l emotional ex School classr isis intervention peration with oom and scho zdrojovom tex ú väzbu d literature:	Psychology of prot com group relationship operience. Solving pro- oom management, go on. Work with parent other experts. Preve ol climate, school pro-	elem students. Pr ps. Adolescent li roblematic and a roup preventive s of problem stu ntion of aggress evention program	roblems resulting ifestyle issues. Pro- ggressive behavio and intervention idents. Principles sive and problems ns.	olence at schoo from disturbed oblems resulting or in the schoo work with the of interviewing atic behavior a
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and in the fam behavior. Prob from impaired environment. classroom. Cr a parent. Coo school. Classr Viac o tomto z Odoslať spätn Bočné panely Recommende Course langus	nily. Bullying. olems arising fi l emotional ex- School classr isis intervention peration with oom and scho zdrojovom tex- ú väzbu d literature: age: ment	Psychology of prob rom group relationshi sperience. Solving pro- oom management, g on. Work with parent other experts. Preve ol climate, school pro- teNa získanie ďalšíc	elem students. Pr ps. Adolescent li roblematic and a roup preventive s of problem stu ntion of aggress evention program	roblems resulting ifestyle issues. Pro- ggressive behavio and intervention idents. Principles sive and problems ns.	olence at schoo from disturbed oblems resulting or in the schoo work with the of interviewing atic behavior a
and in the fam behavior. Prob from impaired environment. classroom. Cr a parent. Coo school. Classr Viac o tomto z Odoslať spätn Bočné panely Recommende Course langus Notes: Course assess	nily. Bullying. olems arising fi l emotional ex- School classr isis intervention peration with oom and scho zdrojovom tex- ú väzbu d literature: age: ment	Psychology of prob rom group relationshi sperience. Solving pro- oom management, g on. Work with parent other experts. Preve ol climate, school pro- teNa získanie ďalšíc	elem students. Pr ps. Adolescent li roblematic and a roup preventive s of problem stu ntion of aggress evention program	roblems resulting ifestyle issues. Pro- ggressive behavio and intervention idents. Principles sive and problems ns.	olence at schoo from disturbed oblems resulting or in the schoo work with the of interviewing atic behavior a
and in the fam behavior. Prob from impaired environment. classroom. Cr a parent. Coo school. Classr Viac o tomto z Odoslať spätn Bočné panely Recommende Course langus Notes: Total number	nily. Bullying. olems arising fi l emotional ex- School classr isis intervention peration with oom and scho zdrojovom tex- ú väzbu d literature: age: ment of assessed stu	Psychology of prob com group relationship perience. Solving pro- com management, go on. Work with parent other experts. Preve ol climate, school pro- teNa získanie ďalšíc	elem students. Pr ps. Adolescent li roblematic and a roup preventive rs of problem stu ntion of aggress evention program h informácií o pr	roblems resulting ifestyle issues. Pro- ggressive behavio and intervention idents. Principles sive and problems ns. reklade sa vyžadu	olence at schoo from disturbed oblems resulting or in the schoo n work with the of interviewing atic behavior a je zdrojový tex
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University: P. J. Šafán	rik University in Košice
Faculty: Faculty of Seculty	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	ce rse-load (hours): dy period: 28
Number of ECTS cro	edits: 2
Recommended semes	ster/trimester of the course: 2., 4.
Course level: II.	
Prerequisities:	
Preparation (descripti during the semester, t 77 - 86, C 69 - 76, D 6	n in seminars (max. 1 absence) - 30p, 2. Preparation for the seminar - 40p, 3. ion 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.
of school counselors, related to these profes Skills: They will learn issues, and critically of Competencies: They	will acquire basic knowledge of the principles of teacher ethics and the ethics understanding the theoretical foundations of moral issues and ethical codes ssions. In to analyze and solve moral problems in pedagogical practice, discuss ethical evaluate situations with a moral context. will be able to apply ethical principles in practice, resolve moral dilemmas, oriented school culture.
their manifestations) Development of mora (Piaget, Kohlberg, Gi Moral behavior (from intelligence in the wo Possibilities of exar conformity, obedience judgment)	bries of emotion, the center of emotions in the brain, types of emotions and al reasoning, cognitive approaches to moral reasoning and their comparison illigan, Eisenberg, Selman, Lind), in the point of view of learning theories) and moral (vs. social and emotional)

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, B., & Babinčák, P. (2009). Základy psychológie morálky. Košice: Equilibria. ISBN 978-80-7097-786-6.

Gluchmanová, M. (2007). K niektorým terminologickým otázkam učiteľskej etiky. Pedagogická orientace, 17(2), 11–25. ISSN 1211-4669.

Malankievičová, S. (2008). Profesijná etika. Prešov: FF PU.

Miezgová, J., & Vargová, D. (2007). Etika. Bratislava: SPN Mladé letá.

Remišová, A. (2008). Dejiny etického myslenia v Európe a USA. Bratislava: Kalligram.

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

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

Campbell, E. (2003). The ethical teacher. Berkshire, England: Open University Press. ISBN 0-335-21219-0.

Miller, C. B. (2021). Moral psychology (Elements in Ethics). Cambridge University Press. Tiberius, V. (2023). Moral psychology: A contemporary introduction (2nd ed.). Routledge.

Course language:

slovak

Notes:

Course assessment

Total number of assessed students: 567

А	В	С	D	Е	FX
97.35	2.29	0.35	0.0	0.0	0.0

Provides: Mgr. Lucia Barbierik, PhD.

Date of last modification: 04.02.2025

University: P. J. Šafa	árik University in Košice
Faculty: Faculty of S	Science
Course ID: KPPaPZ/PPgU/15	Course name: Psychology and Educational Psychology
Course type, scope a Course type: Lectu Recommended cou Per week: 2 / 2 Per Course method: pr	rre / Practice rrse-load (hours): • study period: 28 / 28
Number of ECTS cr	redits: 5
Recommended sem	ester/trimester of the course: 1.
Course level: II.	
Prerequisities:	
and a written verific of 30 points earned (60%). For more inf evaluation: A 87 – method. The inform	se completion: mum of 40 points can be earned during the semester (through two assignments ration). Exam entry criteria: Active participation in exercises and a minimum during the semester. Continuous assessment (40%) and written examination formation and updates, refer to the electronic board of the course AIS2. Final 100 B 77 – 86 C 69 – 76 D 61 – 68 E 56 – 60 FX 55 and less Combined ation will be yearly specified on the electronic noticeboard of the course in LMS UPJŠ or MS Teams environment.
	e to show understanding of the human behaviour in educational situations. ble to describe, explain and justify possible teachers' decisions by using

psychological concepts, principles and theories.

Students will be able to apply the psychological findings in the field of education.

Students will be able to explain how adolescents learn and retain new information, to explain their behaviour in response to educational environment.

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

Brief outline of the course:

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

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

Syllabus: Goals and Subject of Psychology and Educational Psychology, the field and its transformations (Educational psychology and its changes over time, its mission, and possible personality transformations). School psychology, school psychologist. Professional forms of support in school practice. Psychological assessment. Counseling process. Crisis intervention. Effective strategies and programs for the prevention of risky behavior among schoolchildren.

Risk/protective factors of risky behavior. Implementation of psychological concepts of personality into school practice. Psychological and educational-psychological characteristics of learning (psychology of learning, types of learning, learning styles). Developmental characteristics and school (un)success (Cognitive, social, emotional, and personality development in childhood and adolescence, Psychological characteristics of adolescence and adulthood. Intelligence, memory, attention, and developmental characteristics of schoolchildren, and school (un)success). Social psychology of the school (teacher-student relationships, methods of understanding teacherstudent interaction, the psychosocial climate of the school) and family (factors of family functionality, functional/problematic/dysfunctional/non-functional family, parenting styles). Main actors: Teacher (the teacher as a professional, their professional competence, teaching style, attitudes toward students, expectations of students, coping with stress, burnout syndrome), students (gifted and talented, school failure, successful/unsuccessful students, and failing students, student self-efficacy), school class (as a small social group, internal and external differentiation, bullying, and prevention), psychosocial climate of the school class.

Recommended literature:

Compulsory:

Lectures (Literary sources in published lectures)

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

Recommended:

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.

ELECTRONIC INFORMATION RESOURCES (UL UPJŠ)

Course language:

slovak

Notes:

Course assessment

Total number of assessed students: 1820

А	В	С	D	Е	FX
10.88	20.27	24.12	22.25	20.16	2.31

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

Date of last modification: 09.09.2024

-	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	ce rse-load (hours): dy period: 28
Number of ECTS cr	edits: 2
Recommended seme	ster/trimester of the course: 2.
Course level: II.	
Prerequisities:	
seminar work - 30p. final evaluation accor FX 55 and less. Deta	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, illed information in the electronic board of the course in AIS2. The teaching realized by a combined method.
the specifics of work	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.
Cognitive processes i Creativity and cognit Development of creat Talent and giftedness Methods of determin Methods of developin Creativity and talent Recommended literat	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	: Inteligencia a tvorivosť, tvorivé nadanie od intelektovej schopnosti po n: KUSÁ, D. a kol. EDS. (2006): Zjavná a skrytá tvorivosť. Bratislava:

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

slovak

Notes:

Course assessment

Total number of assessed students: 81

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. Šafárik Universi	ty in Košice
Faculty: Faculty of Science	
Course ID:Course naKSSFaK/ČGUAP/15	me: Reading Literacy in Educational Process
Course type, scope and the met Course type: Lecture Recommended course-load (he Per week: 2 Per study period: Course method: present	purs):
Number of ECTS credits: 2	
Recommended semester/trimes	ter of the course: 2.
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 student	s: 48
abs	n
100.0	0.0
Provides: doc. PaedDr. Ivica Haj	dučeková, PhD.
Date of last modification: 07.03	2025
Approved: prof. PhDr. Ol'ga Oro Kollár, DrSc.	sová, CSc., prof. RNDr. Jozef Doboš, CSc., prof. RNDr. Peter

University: P. J. Šafá	rik University in Koši	ce	
Faculty: Faculty of S	cience		
Course ID: KPPaPZ/RKS/14	Course name: Resol	ving Conflict Situations in Educational Practice	
Course type, scope a Course type: Lectur Recommended cou Per week: 1 / 2 Per Course method: pre	re / Practice rse-load (hours): study period: 14 / 28		
Number of ECTS cr	edits: 4		
Recommended seme	ster/trimester of the	course: 1., 3.	
Course level: II.			
Prerequisities:			
Conditions for cours	e completion:		
Learning outcomes:			
Brief outline of the c	ourse:		
Recommended litera	iture:		
Course language:			
Notes:			
Course assessment Total number of asse	ssed students: 179		
	abs	n	
94.41 5.59			
Provides: PhDr. Ann	a Janovská, PhD.	· · ·	
Date of last modifica	tion: 27.05.2024		
Approved: prof. PhD Kollár, DrSc.	r. Oľga Orosová, CSc	., prof. RNDr. Jozef Doboš, CSc., prof. RNDr. Peter	

University P I Šafá	rik University in Košice	
Faculty: Faculty of S		
Course ID: ÚFV/ MPPb/15	Course name: Scheduled	l practice teaching
Course type, scope a Course type: Practi Recommended cou Per week: Per stud Course method: pro	ce rse-load (hours): ly period: 36s	
Number of ECTS cr	edits: 1	
Recommended seme	ster/trimester of the cou	rse: 2.
Course level: II.		
Prerequisities: KPE/	MPPa/15 and KPE/PDU/1	5 and (KPPaPZ/PaSPP/09 or KPPaPZ/PPgU/15)
	physics lessons and leads	s one own physics lesson under the guidance of a s. Written assessment made by teacher trainer.
the subject of physic		practical applications of teaching skills for teaching at the organization of school work. Studneets gain sysics.
it with teacher trainer is scheduled once a	process of teaching physic r. Practice takes place cont week at the time of the fir	s at lower and upper secondary schools and analyze inuously durin the course of the semester. Practice rst to third lesson at schools. The first two lessons alysing the teaching process under the guidance of
Recommended litera	nture:	
Course language: Slovak		
Notes:		
Course assessment Total number of asse	ssed students: 86	
	abs	n
	100.0	0.0
Provides: doc. RND	. Jozef Hanč, PhD.	
Date of last modifica	ntion: 03.05.2015	
Approved: prof. PhD Kollár, DrSc.	Pr. Oľga Orosová, CSc., pro	of. RNDr. Jozef Doboš, CSc., prof. RNDr. Peter

University: P. J. Safa	ărik University in Košice
Faculty: Faculty of S	Science
Course ID: ÚMV/ VPPb/15	Course name: Scheduled practice teaching
Course type, scope a Course type: Pract Recommended cou Per week: Per stue Course method: pr	ice 1 rse-load (hours): dy period: 36s
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	en assignments (reflection on teaching practice, statement of teaching hours and elected lesson plans).
Application of the lepedagogical practice analysis of the lesso	knowledge acquired in didactic courses focused on teaching mathematics in e. Development of the student's self-reflection within the framework of the ins 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 prepara Classes managed acc Reflection on realize	s in selected lessons ation cording to prepared lesson plan
	ature: and textbooks for middle and secondary schools
M. Hejný, J. Novotn	yučovania matematiky 2. Bratislava : SPN 1989 ná, N. Stehlíková: Dvacet pět kapitol z didaktiky matematiky 2, Univerzita edagogická fakulta, Praha, 2004

Course assessment Total number of assessed students: 120	
abs	n
100.0	0.0
Provides: doc. RNDr. Ingrid Semanišinová, PhD	., RNDr. Veronika Hubeňáková, PhD.
Date of last modification: 24.08.2022	
Approved: prof. PhDr. Ol'ga Orosová, CSc., prot Kollár, DrSc.	f. RNDr. Jozef Doboš, CSc., prof. RNDr. Peter

University: P. J. Šafá	rik University in Košice
Faculty: Faculty of S	cience
Course ID: ÚFV/ FEP1/15	Course name: School Computer-Based Physical Laboratory
Course type, scope a Course type: Lectur Recommended cour Per week: 2 / 1 Per Course method: pre	re / Practice rse-load (hours): study period: 28 / 14
Number of ECTS cr	edits: 3
Recommended seme	ster/trimester of the course: 1., 3.
Course level: II.	
Prerequisities:	
-participation in class -active participation a -submitting all the as -realization, presentat Final assessment: -based on assessment Conditions for succes -participation in lesso	a of assessment during the semester bes in accordance with study regulations and teacher's instructions at seminars and exercises signments in accordance with teacher's instruction tion and defence of the final assignment a during the semester assful completion of the course: ons in accordance with the study regulations and teacher's instructions higher than 50 % in assessment during the semester and in final assessment
support active learning ains skills to use and on videorecordings and	rse student gains an overview about the possible use of digital technologies to ng in physics implementing methods of inquiry-based science education. He develop activities on measuring data with the help of datalogging, measuring nd picture and modeling physical processes. Student is able to implement such eaching to support active learning, conceptual understanding and inquiry skills
 Inquiry teaching a videomeasruement, m Data collection in m Processing and ana Activities on real-methods. Videomeasurement Processing and ana 	ourse: nce education (IBSE). Inquiry skills. Digital technologies to enhance IBSE. and learning in computer-based laboratory. Digital tools for data collection, nodeling and data processing and analysis. real experiment with the help of sensors. alysis of data gained with the help of sensors. time measurements and processing and data analysis implementing IBSE t. How to measure on videorecording and picture. alysis of data gained from videomeaurement. omeasurement and processing and data analysis implementing IBSE methods

9.Mathematical modeling with the help of computer. Role of computer modeling in science education.

10. Activities on computer modeling implementing IBSE methods.

11.Inquiry-based science education and methods of assessment.

12.Lesson design implementing digital technologies and IBSE methods.

Recommended literature:

Learning by doing the CMA way, available on https://cma-science.nl/ SOKOLOFF, David, THORNTON, Ronald, K.: Interactive Lecture Demonstrations, Wiley , 2006

Course language:

English

Notes:

Course assessment

Total number of assessed students: 17

А	В	С	D	Е	FX
76.47	23.53	0.0	0.0	0.0	0.0

Provides: doc. RNDr. Zuzana Ješková, PhD.

Date of last modification: 15.09.2021

University: P. J.	Šafárik Universi	ty in Košice			
Faculty: Faculty	of Science				
Course ID: ÚF PSP1/22	V/ Course na	me: School Phy	sical Experimen	ts I	
Course type: F Recommended	l course-load (ho er study period: 2	ours):			
Number of EC	FS credits: 2				
Recommended	semester/trimest	ter of the cours	e: 1.		
Course level: II	-				
Prerequisities:					
Conditions for continuous writ being active in p final oral exami	practises	on:			
belonging to the	cills with demons e subject matter i dactic procedures	n Physics class	es at basic schoo	ols and high scho	ols. To become
experiments fro pupils. The emp	the course: e aimed at practic m selected topics hasis is on familia experiments and c	s of the physics arizing with teac	subject matter f	for basic-school a dactic devices use	and high-school ed in performing
2.Koubek, V. a	literature: hek,J.: Pokusy z kol.: Školské pok uscience.upjs.sk/s	usy z fyziky, SP	N Bratislava, 19	92	7
Course languag Slovak	e:				
Notes:					
Course assessm Total number of	ent assessed student	s: 19			
А	В	С	D	E	FX
73.68	26.32	0.0	0.0	0.0	0.0
Provides: doc. I	RNDr. Marián Kir	reš, PhD.		·	
Date of last mo	dification: 15.02.	2022			

•	árik University in Košice
Faculty: Faculty of S	Science
Course ID: ÚFV/ PSP2/22	Course name: School Physical Experiments II
Course type, scope a Course type: Pract Recommended cou Per week: 2 Per st Course method: pr	ice 1rse-load (hours): udy period: 28
Number of ECTS c	
Recommended sem	ester/trimester of the course: 2.
Course level: II.	
Prerequisities:	
Conditions for succe -participation in less	20 points
Learning outcomes By the end of the co methods, techniques	: ourse sudents gain knowledge and broaden skills necessary for understanding s and physical interpretations of all types of school physical experiments that ect matter in physics classes at lowe and upper secondary schools in accordance
experiments from se and their convenient teaching aids and did	ned at practical realization and physics interpretation of school demonstration elected topics of the physics subject matter for basic- and high-school pupil incorporation into educational process. The emphasis is on familiarizing with dactic devices used in performing school physics experiments and on extending zation in physics teaching. The course content involves: tics c field gnetic field

8.Optics

Recommended literature:

ONDEROVÁ, Ľudmila, KIREŠ, Marián, JEŠKOVÁ, Zuzana, DEGRO, Ján: Praktikum školských pokusov z fyziky II., PF UPJŠ, Košice, 2004

LEPIL, Oldřich, HOUDEK, Václav, PECHO, Alojz: Fyzika pre 3.ročník gymnázií, SPN, Bratislava, 1998

PIŠÚT, Ján a kol, Fyzika pre 4.ročník gymnázia, SPN, Bratislava, 1987

DEMKANIN, Peter, HORVÁTH, Peter, CHALUPKOVÁ, Soňa, ŠUHAJOVÁ, Zuzana: Fyzika pre 2.ročník gymnázia a 6.ročník gymnázia s osemročným štúdiom, Združenie EDUCO, 2010 DEMKANIN, Peter, HORVÁTHOVÁ, Martina: Fyzika pre 3.ročník gymnázia a 7.ročník gymnázia s osemročným štúdiom, Združenie EDUCO, 2012

Course language:

Slovak

Notes:

Course assessment

Total number of assessed students: 14

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

Provides: doc. RNDr. Zuzana Ješková, PhD.

Date of last modification: 15.02.2022

	rik University in Košice		
Faculty: Faculty of S	cience		
Course ID: ÚTVŠ/ Course name: Seaside Aerobic Exercise CM/13 CM/13			
Course type, scope a Course type: Practic Recommended cour Per week: 2 Per stu Course method: pre	ce rse-load (hours): dy period: 28		
Number of ECTS cro	edits: 2		
Recommended seme	ster/trimester of the course:		
Course level: II.			
Prerequisities:			
- active participation	oful course completion: in line with the study rule of procedure and course guidelines ce of all tasks- aerobics, water exercise, yoga, Pilates and others		
course syllabus and re Performance standard Upon completion of t - perform basic aerob - conduct verbal and t	ates relevant knowledge and skills in the field, which content is defined in the ecommended literature. I: he course students are able to meet the performance standard and: ics steps and basics of health exercises, non-verbal communication with clients during exercise, e the process of physical recreation in leisure time		
Brief outline of the c Brief outline of the co 1. Basic aerobics – lo 2. Basics of aqua fitno 3. Basics of Pilates 4. Health exercises 5. Bodyweight exerci 6. Swimming 7. Relaxing yoga exerci 8. Power yoga	burse: w impact aerobics, high impact aerobics, basic steps and cuing ess ses		

2. ČECHOVSKÁ, I., MILEROVÁ, H., NOVOTNÁ, V. Aqua-fitness. Praha: Grada. 136 s. 3. EVANS, M., HUDSON, J., TUCKER, P. 2001. Umění harmonie: meditace, jóga, tai-či, strečink. 192 s. 4. JARKOVSKÁ, H., JARKOVSKÁ, M. 2005. Posilováni s vlastním tělem 417 krát jinak. Praha: Grada. 209 s. 5. KOVAŘÍKOVÁ, K. 2017. Aerobik a fitness. Karolium, 130 s. **Course language:** Slovak language Notes: **Course assessment** Total number of assessed students: 62 abs n 9.68 90.32 Provides: Mgr. Agata Dorota Horbacz, PhD. **Date of last modification:** 29.03.2022 Approved: prof. PhDr. Ol'ga Orosová, CSc., prof. RNDr. Jozef Doboš, CSc., prof. RNDr. Peter Kollár, DrSc.

University: P. J. Š	afárik Universi	ty in Košice			
Faculty: Faculty o	f Science				
Course ID: ÚFV/ DEX/22Course name: Selected Demonstration Experiments					
Course type, scop Course type: Lec Recommended c Per week: 1 / 2 P Course method:	cture / Practice ourse-load (ho er study perio	ours):			
Number of ECTS	credits: 3				
Recommended se	mester/trimes	ter of the cours	se: 2.		
Course level: II.					
Prerequisities:					
Conditions for co Seminar work – a Oral examination	1		experiments and	l their role in Phy	vsics teachig.
Learning outcome The goal of the c through non-tradit	ourse is to dev		c skills and creat	tivity of further	Physics teachers
Brief outline of the The aim of the l help students under experiments are m any special equips experiments stude theoretical knowled	lecture is to s erstand physica ainly hands-on ment. The exp nts are able to	al phenomena a ones which can eriments are ca	and find their con the performed warried out by stud	nnection with ev with simple tools a dents themselves	reryday life. The and don't require s. Through these
Recommended lit 1. Onderová Ľ.:Ne 2. Lorbeer,G.L.,Ne 3. Kostič, Ž.: Med 4. Kireš, M., Onde Bratislava 2001, IS 5. http://physedu.s	etradičné exper elsonová, L.W. zi hrou a fyzik erová, Ľ.: Fyzil SBN 80-7097-4	: Fyzikální pok ou, Alfa, Bratis ka každodennéh 446-X	usy pro děti, Por lava, 1971 lo života v experi	tál, Praha, 1998 imentoch a úlohá	ich, JSMF
Course language: Slovak					
Notes:					
Course assessmen		12			
Total number of as	B B	C	D	Е	FX
76.92	7.69	0.0	0.0	0.0	15.38
10.72	1.07	0.0	0.0	0.0	15.50

Provides: doc. RNDr. Marián Kireš, PhD.

Date of last modification: 15.02.2022

~ ~ ~				
University: P. J. Šafá	rik University in Košice			
Faculty: Faculty of Science				
Course ID: ÚFV/ VPF1/15	Course name: Selected General Physics Problems I			
Course type, scope a Course type: Lectur Recommended cour Per week: 3 Per stu Course method: pre	re rse-load (hours): dy period: 42			
Number of ECTS cr	edits: 3			
Recommended seme	ster/trimester of the course: 2.			
Course level: II.				
Prerequisities:				
Conditions for cours 1. writing exam 20 pc 2. writing exam 20 pc self examples 60 bod A 100-90 B 89-80 C	pints pints			
Learning outcomes: Physics interpretation problems.	nf of everyday phenomena can help with deeper understanding of physics			
 Brief outline of the c 1. Kinematics and dy 2. Hydrostatics and h 3. Surface properties 4. Thermics and Then 5. Thermics and Then 6. Electrostatics 7. Electric field 8. Magnetic field 9. Mechanical oscilla 10. Acoustics 11. Ray Optics 12. Wave Optics 13. Student assignment 	namics ydrodynamics of liquids modynamics modynamics II tions, resonance, waves			
Recommended litera 1.Nahodil, J.: Fyzika 2.Tulčinskyj, : Zbierk 3.Kašpar, E. : Problén 4.Feynman, R.P. : Fe 5.Landau, Kitajgorod	nture: v bežnom živote, Prometheus, Praha, 1996 ca kvalitatívnych úloh z fyziky, SPN, Bratislava, 1990 mové vyučovanie a problémové úlohy, SPN, Praha1982 ynmanove prednášky z fyziky 1-5, Alfa, 1985 lskij : Fyzika pre každého, Alfa 1972 vtip!, Alfa, Bratislava, 1988			

8.http://physeu	u.science.upjs.sk				
Course language Slovak, English	0				
Notes:					
Course assessn Total number o	nent f assessed student	s: 33			
А	В	С	D	Е	FX
81.82	15.15	0.0	0.0	0.0	3.03
Provides: doc.	RNDr. Marián Kir	eš, PhD.		·	•
Date of last mo	dification: 28.03.	2020			
Approved: pro: Kollár, DrSc.	f. PhDr. Ol'ga Oro	sová, CSc., prot	f. RNDr. Jozef D	oboš, CSc., prof.	. RNDr. Peter

University: P. J. Šafá	rik University in Košice			
Faculty: Faculty of S	cience			
Course ID: ÚFV/ Course name: Selected General Physics Problems II VPF2/22				
Course type, scope a Course type: Lectur Recommended cour Per week: 2 Per stu Course method: pre	re rse-load (hours): dy period: 28			
Number of ECTS cr	edits: 2			
Recommended seme	ster/trimester of the course: 3.			
Course level: II.				
Prerequisities:				
Conditions for cours presentation of select writing exam 70 p A 100-90 B 89-80 C	-			
Learning outcomes: Everyday phenomena	a are used for deeper and conceptual understanding of physics problem.			
Brief outline of the c 1.Mechanics •Coriolisova force •How Swing works •Bicycle •Tides •Inertia 2.Hydromechanics •Archimedes screw •Water flow •Archimedes principl 3.Kapilarity •Water in plant •Kapilár hysteresis •Bubbles and soap •Floating on water su 4.Acoustic •Signal production •Human voice •Space acoustic •Home ciname 5.Optics •Sight •Opticalillusions	e in Action			

•Space imaging															
•Atmospheric a															
6.Probléms IYPT															
•Magnetohydrodynamics															
 Bulbs Falling spring Ship movement Thermal exchange 															
										7.Differenct pro					
										•Sonoluminisce	nce				
										•Ice pick					
•Kelvin water d	roplet														
•Water stain	, .·														
8.Student work	presentation														
 Swartz, C.: B Nahodil, J.: F Tulčinskyj, : Kašpar, E. : F Feynman, R.I Landau, Kita Lange, V.: T actual articles 	Sack of the Envel Syzika v bežnom Zbierka kvalitatí Problémové vyuč P. : Feynmanove jgorodskij : Fyzi To chce vtip!, Alf	lope Physics, Th živote, Prometh žvnych úloh z fyz čovanie a problén prednášky z fyz ka pre každého,	eus, Praha, 1996 ziky, SPN, Bratis mové úlohy, SPN tiky 1-5, Alfa, 19 Alfa 1972	Uni. Press, Baltim slava, 1990 I, Praha1982	nore, 2003										
Course languag Slovak, English	•														
Notes:															
Course assessm Total number of	ent f assessed studen	its: 0													
А	В	С	D	E	FX										
0.0	0.0	0.0	0.0	0.0	0.0										
Provides: doc. I	RNDr. Marián Ki	ireš, PhD.	<u>.</u>												
Date of last mo	dification: 15.02	2.2022													
Approved: prof	PhDr. Ol'ga Or	osová, CSc., pro	f. RNDr. Jozef D	oboš, CSc., prof.	RNDr. Peter										

	University:	ΡJ	Šafárik	University	v in Košice
I	University.	1	Salarik	Oniversity	

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: 169

А	В	С	D	Е	FX
68.64	15.98	6.51	4.14	2.37	2.37

Provides: doc. RNDr. Ingrid Semanišinová, PhD.

Date of last modification: 24.08.2022

University:	ΡJ	Šafárik	University	in Košice
Chiver Siey.	1.0	Juluin	Chiverbicy	

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.

Course languag Slovak	e:				
Notes:					
Course assessm Total number of	ent assessed studen	ts: 29			
А	В	С	D	Е	FX
51.72	31.03	13.79	3.45	0.0	0.0
Provides: prof. 1	RNDr. Ondrej H	utník, PhD.	· · · · · · · · · · · · · · · · · · ·		
Date of last mod	dification: 21.09	.2023			
Approved: prof. Kollár, DrSc.	. PhDr. Ol'ga Orc	osová, CSc., prof	. RNDr. Jozef Do	boš, CSc., prof.	RNDr. Peter

University: P. J. Šafá	rik University in Košice
Faculty: Faculty of S	cience
Course ID: KSSFaK/VSJU/15	Course name: Slovak Language for Teachers
Course type, scope a Course type: Lectur Recommended cour Per week: 2 Per stu Course method: pre Number of ECTS cr	re rse-load (hours): Idy period: 28 esent
Recommended seme	ester/trimester of the course: 1., 3.
Course level: II.	
Prerequisities:	
c) elaboration of sem d) successful comple Conditions for obtain 56%) Final evaluatio D 64.99 - 56.00% E 5	ning the final evaluation: a) seminar work / creative task b) final test (min on: 100,00 - 92,00% A 91,99 - 83,00% B 82,99 - 74,00 % C 73.99 - 65.00%
course, which is defin of the performance si standard Slovak in or citation standard. The	nation, the student demonstrates adequate mastery of the content standard of the ned by the required literature and seminar content, and demonstrates mastery tandard, within which the student is able to practically apply the standard o ral and written communications. manuals, gain skill in the bibliographic and e graduate of the course normatively masters written communication on the ographic rules and knows the basic characteristics of the means of expression
sign character of lang	course: sic terms of general linguistics (language – speech, language functions, the guage, language levels, content and form in language, individual and genera nits) on interdisciplinary background and with the application to Slovak as

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: 161

А	В	С	D	Е	FX
15.53	23.6	30.43	14.29	13.66	2.48

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

Date of last modification: 24.06.2022

FKS/22	Course name: Solid State Physics
Course type, scope and Course type: Lecture Recommended cours Per week: 2 Per study Course method: press	se-load (hours): ly period: 28
Number of ECTS cred	dits: 2
Recommended semest	ter/trimester of the course: 1.
Course level: II.	
Prerequisities:	
and laws from Conden transport and magnetic The number of credits contents of the course r During semester studer participate in the final d for for sucessfull passis exam. Maximal total so	course requires presentation of adequate knowledge of concepts, phenomen nsed Matter Physics. Knowledge of structural, mechanic, electric, thermal e properties of solids and potetail possibilities of their practical applications a reflects the extent of the course (2 hours of lectures) and the fact that the represents part of state exam in magister degree. Ints will prepare two written works on the given topic and they will actively debate on the topics which are identical to the content of the lectures. Treshol- ing the course is 50 % of the sum of obtained scores from the tests and ora core from both tests represents 30 % from the total score. Score is defined as follows:

He will also learn selected theoretical approaches and used experimental techniques in Condensed matter physics. In addition, he will also be able to interpret simple experimental observations based

on quantum-mechanical phenomena.

Brief outline of the course:

1.week: Structure of crystals. Amorphous materials. Space and crystal lattice, elementar cell. Bravais lattices and crystallographic systems. Directions and planes in a crystal lattice – Miller's indexes. Reciprocal lattice.

2. week Methods of structural analysis. Diffraction of X-ray radiation on crystals. Bragg's equation and Laue's condition, relation between them. Ewald's construction for different experimental techniques.

3. week: Mechanical properties of solids and perturbations in crystal lattice. Classification of solids according to nature of bonding among elements in crystal lattice. Basic types of bondings (ion, covalent, metal, Van der Walls, hydrogen)

4. week: Thermal properties of solids – Einstein and Debye theory of specific heat. Eletrical properties of solids.

5. week: Sommerfield's theory. Density of electronic states. Influence of temperature on the distribution of free electrons. Fermi – Dirac distribution function.

6. week: Electron in periodic potential. Energy spectrum of electrons in crystal. Kronig – Penney 's model. Effective mass of electron.

7. week: Concept of holes. Semiconductors. Electrical conductivity of metals and semiconductors adopting properties of energy spectrum of electrons.

8. week: Transport properties in metals and semiconductors – Hall effect, magnetoresistance, photoconductivity, contact phenomena, quantum Hall effect.

9. week: Macroscopic quantum phenomena: Superconductivity and Superfluidity.

10. week: Magnetic properties of solids – orbital and spin magnetic moment of atom. Definition of basic magnetic quantities (magnetization, polarization, susceptibility, permeability). Vector model of atom.

11. Classification of magnetic materials according to nature of magnetic interactions. Diamagnetic and paramagnetic systems.

12 week: Basic properties of ferromagnets. Magnetic hysteresis, coercitive field. Domain structure, physical reasons ledaing to the domain structure.

Recommended literature:

H. Ibach, H. Lüth: Solid-State Physics. Springer - Verlag, Berlin, 1993.

Ch. Kittel: Introduction to Solid State Physics. John Wiley & Sons, Inc. 1976.

Course language:

Slovak, English

Notes:

The course is given in attendance form, if a need arises, online form using MS Teams can be adopted.

Course assessment

Total number of assessed students: 37

А	В	С	D	Е	FX
67.57	21.62	8.11	2.7	0.0	0.0

Provides: prof. RNDr. Peter Kollár, DrSc.

Date of last modification: 19.12.2022

	ik University in Košice
Faculty: Faculty of So	cience
Course ID: ÚTVŠ/ TVa/11	Course name: Sports Activities I.
Course type, scope an Course type: Practic Recommended cour Per week: 2 Per stue Course method: pre	e se-load (hours): dy period: 28
Number of ECTS cro	edits: 2
Recommended semes	ster/trimester of the course: 1.
Course level: I., II., P	
Prerequisities:	
Conditions for cours Min. 80% of active pa	e completion: articipation in classes.
They have a great im	their forms prepare university students for their professional and personal life. pact on physical fitness and performance. Specialization in sports activities trengthen their relationship towards the selected sport in which they also
activities aerobics; ail yoga, power yoga, p tennis, chess, volleyb Additionally, the Inst offers winter courses	burse: cal education and sport at the Pavol Jozef Šafárik University offers 20 sports kido, basketball, badminton, body-balance, body form, bouldering, floorball, ilates, swimming, fitness, indoor football, SM system, step aerobics, table
[online] Dostupné na: BUZKOVÁ, K. 2006 8024715252. JARKOVSKÁ, H, JA Grada. ISBN 9788024 KAČÁNI, L. 2002. F 8089197027. KRESTA, J. 2009. Fu LAWRENCE, G. 201	 D5. Plávanie. Banská Bystrica: FHV UMB. 198s. ISBN 80-8083-140-8. https://www.ff.umb.sk/app/cmsFile.php?disposition=a&ID=571 Fitness jóga, harmonické cvičení těla I duše. Praha: Grada. ISBN RKOVSKÁ, M. 2005. Posilování s vlastním tělem 417 krát jinak. Praha:

STACKEOVÁ, D. 2014. Fitness programy z pohledu kinantropologie. Praha: Galén. ISBN 9788074921155.

VOMÁČKO, S. BOŠTÍKOVÁ, S. 2003. Lezení na umělých stěnách. Praha: Grada. 129s. ISBN 8024721743.

Course language:

Slovak language

Notes:

Course assessment

Total number of assessed students: 15781

abs	abs-A	abs-B	abs-C	abs-D	abs-E	n	neabs
85.74	0.06	0.0	0.0	0.0	0.04	9.0	5.15

Provides: Mgr. Patrik Berta, Mgr. Agata Dorota Horbacz, PhD., Mgr. Dávid Kaško, PhD., Mgr. Ladislav Kručanica, PhD., Mgr. Richard Melichar, Mgr. Petra Tomková, PhD., Mgr. Marcel Čurgali, Mgr. Alena Buková, PhD., univerzitná docentka, doc. PaedDr. Ivan Uher, MPH, PhD., prof. RNDr. Stanislav Vokál, DrSc., Mgr. Zuzana Küchelová, PhD., Mgr. Ferdinand Salonna, PhD.

Date of last modification: 07.02.2024

University: P. J. Šafá	irik University in Košice						
Faculty: Faculty of S	Science						
Course ID: ÚTVŠ/ TVb/11	1						
Course type, scope a Course type: Practi Recommended cou Per week: 2 Per stu Course method: pro	ce irse-load (hours): idy period: 28						
Number of ECTS cr	redits: 2						
Recommended seme	ester/trimester of the course: 2.						
Course level: I., II., I	Р						
Prerequisities:							
Conditions for cours active participation in	se completion: n classes - min. 80%.						
They have a great in	I their forms prepare university students for their professional and personal life npact on physical fitness and performance. Specialization in sports activities strengthen their relationship towards the selected sport in which they also						
activities aerobics; ai yoga, power yoga, p tennis, chess, volleyt	course: sical education and sport at the Pavol Jozef Šafárik University offers 20 sports ikido, basketball, badminton, body-balance, body form, bouldering, floorball pilates, swimming, fitness, indoor football, SM system, step aerobics, table						

8024715252.

JARKOVSKÁ, H, JARKOVSKÁ, M. 2005. Posilování s vlastním tělem 417 krát jinak. Praha: Grada. ISBN 9788024757308.

KAČÁNI, L. 2002. Futbal:Tréning hrou. Bratislava: Peter Mačura – PEEM. 278s. ISBN 8089197027.

KRESTA, J. 2009. Futsal.Praha: Grada Publishing, a.s. 112s. ISBN 9788024725345. LAWRENCE, G. 2019. Power jóga nejen pro sportovce. Brno: CPress. ISBN 9788026427902. SNER, Wolfgang. 2004. Posilování ve fitness. České Budějovice: Kopp. ISBN 8072322141. STACKEOVÁ, D. 2014. Fitness programy z pohledu kinantropologie. Praha: Galén. ISBN 9788074921155.

VOMÁČKO, S. BOŠTÍKOVÁ, S. 2003. Lezení na umělých stěnách. Praha: Grada. 129s. ISBN 8024721743.

Course language:

Slovak language

Notes:

Course assessment

Total number of assessed students: 13802

abs	abs-A	abs-B	abs-C	abs-D	abs-E	n	neabs
83.85	0.49	0.01	0.0	0.0	0.04	11.17	4.43

Provides: Mgr. Agata Dorota Horbacz, PhD., Mgr. Dávid Kaško, PhD., Mgr. Marcel Čurgali, Mgr. Patrik Berta, Mgr. Ladislav Kručanica, PhD., Mgr. Richard Melichar, Mgr. Petra Tomková, PhD., Mgr. Alena Buková, PhD., univerzitná docentka, doc. PaedDr. Ivan Uher, MPH, PhD., prof. RNDr. Stanislav Vokál, DrSc., Mgr. Zuzana Küchelová, PhD., Mgr. Ferdinand Salonna, PhD.

Date of last modification: 07.02.2024

University: P. J. Šafá	rik University in Košice
Faculty: Faculty of S	cience
Course ID: ÚTVŠ/ TVc/11	Course name: Sports Activities III.
Course type, scope a Course type: Practi Recommended cou Per week: 2 Per stu Course method: pro	ce rse-load (hours): ıdy period: 28
Number of ECTS cr	redits: 2
Recommended seme	ester/trimester of the course: 3.
Course level: I., II.	
Prerequisities:	
Conditions for cours min. 80% of active p	se completion: articipation in classes
They have a great in	I their forms prepare university students for their professional and personal life. npact on physical fitness and performance. Specialization in sports activities strengthen their relationship towards the selected sport in which they also
activities aerobics; ai yoga, power yoga, p tennis, chess, volleyb Additionally, the Ins offers winter courses	ourse: ical education and sport at the Pavol Jozef Šafárik University offers 20 sports ikido, basketball, badminton, body-balance, body form, bouldering, floorball, bilates, swimming, fitness, indoor football, SM system, step aerobics, table
[online] Dostupné na BUZKOVÁ, K. 2006 8024715252. JARKOVSKÁ, H, JA Grada. ISBN 978802 KAČÁNI, L. 2002. F 8089197027. KRESTA, J. 2009. F LAWRENCE, G. 20	05. Plávanie. Banská Bystrica: FHV UMB. 198s. ISBN 80-8083-140-8. a: https://www.ff.umb.sk/app/cmsFile.php?disposition=a&ID=571 6. Fitness jóga, harmonické cvičení těla I duše. Praha: Grada. ISBN ARKOVSKÁ, M. 2005. Posilování s vlastním tělem 417 krát jinak. Praha:

STACKEOVÁ, D. 2014. Fitness programy z pohledu kinantropologie. Praha: Galén. ISBN 9788074921155.

VOMÁČKO, S. BOŠTÍKOVÁ, S. 2003. Lezení na umělých stěnách. Praha: Grada. 129s. ISBN 8024721743.

Course language:

Slovak language

Notes:

Course assessment

Total number of assessed students: 9334

abs	abs-A	abs-B	abs-C	abs-D	abs-E	n	neabs
87.96	0.06	0.01	0.0	0.0	0.02	4.92	7.03

Provides: Mgr. Marcel Čurgali, Mgr. Agata Dorota Horbacz, PhD., Mgr. Dávid Kaško, PhD., Mgr. Patrik Berta, Mgr. Ladislav Kručanica, PhD., Mgr. Richard Melichar, Mgr. Petra Tomková, PhD., Mgr. Alena Buková, PhD., univerzitná docentka, doc. PaedDr. Ivan Uher, MPH, PhD., prof. RNDr. Stanislav Vokál, DrSc., Mgr. Zuzana Küchelová, PhD., Mgr. Ferdinand Salonna, PhD.

Date of last modification: 07.02.2024

University: P. J. Šafá	rik University in Košice
Faculty: Faculty of S	cience
Course ID: ÚTVŠ/ TVd/11	Course name: Sports Activities IV.
Course type, scope a Course type: Practic Recommended cour Per week: 2 Per stu Course method: pre	ce rse-load (hours): dy period: 28
Number of ECTS cr	edits: 2
Recommended seme	ster/trimester of the course: 4.
Course level: I., II.	
Prerequisities:	
Conditions for cours min. 80% of active pa	articipation in classes
They have a great im	their forms prepare university students for their professional and personal life. ppact on physical fitness and performance. Specialization in sports activities strengthen their relationship towards the selected sport in which they also
activities aerobics; ai yoga, power yoga, p tennis, chess, volleyb Additionally, the Inst offers winter courses	ourse: ical education and sport at the Pavol Jozef Šafárik University offers 20 sports kido, basketball, badminton, body-balance, body form, bouldering, floorball, bilates, swimming, fitness, indoor football, SM system, step aerobics, table
[online] Dostupné na BUZKOVÁ, K. 2006 8024715252. JARKOVSKÁ, H, JA Grada. ISBN 978802 KAČÁNI, L. 2002. F 8089197027. KRESTA, J. 2009. Fu LAWRENCE, G. 201	05. Plávanie. Banská Bystrica: FHV UMB. 198s. ISBN 80-8083-140-8. : https://www.ff.umb.sk/app/cmsFile.php?disposition=a&ID=571 5. Fitness jóga, harmonické cvičení těla I duše. Praha: Grada. ISBN ARKOVSKÁ, M. 2005. Posilování s vlastním tělem 417 krát jinak. Praha:

STACKEOVÁ, D. 2014. Fitness programy z pohledu kinantropologie. Praha: Galén. ISBN 9788074921155.

VOMÁČKO, S. BOŠTÍKOVÁ, S. 2003. Lezení na umělých stěnách. Praha: Grada. 129s. ISBN 8024721743.

Course language:

Slovak language

Notes:

Course assessment

Total number of assessed students: 5846

abs	abs-A	abs-B	abs-C	abs-D	abs-E	n	neabs
82.54	0.27	0.03	0.0	0.0	0.0	8.24	8.91

Provides: Mgr. Marcel Čurgali, Mgr. Agata Dorota Horbacz, PhD., Mgr. Dávid Kaško, PhD., Mgr. Patrik Berta, Mgr. Ladislav Kručanica, PhD., Mgr. Richard Melichar, Mgr. Petra Tomková, PhD., Mgr. Alena Buková, PhD., univerzitná docentka, doc. PaedDr. Ivan Uher, MPH, PhD., prof. RNDr. Stanislav Vokál, DrSc., Mgr. Zuzana Küchelová, PhD., Mgr. Ferdinand Salonna, PhD.

Date of last modification: 07.02.2024

University: P. J. Šafá	rik University in Košice					
Faculty: Faculty of S	science					
Course ID: ÚFV/ SVKD/04	: ÚFV/ Course name: Student Scientific Conference					
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pro	rse-load (hours): ly period:					
Number of ECTS cr	redits: 4					
Recommended seme	ster/trimester of the cours	e: 2., 4.				
Course level: I., II.						
Prerequisities:						
Conditions for cours presentation of result	-	at Students' scientific conference				
Learning outcomes: Student gains experie		and presentation of results of his research work.				
Brief outline of the c Presentation of result		at Students' scientific conference.				
Recommended litera Based on the recomm	ature: nendations of supervisor					
Course language: Slovak						
Notes:						
Course assessment Total number of asse	ssed students: 9					
abs n						
100.0 0.0						
Provides:						
Date of last modifica	ation: 03.05.2015					
Approved: prof. PhE Kollár, DrSc.	Dr. Oľga Orosová, CSc., prof	C. RNDr. Jozef Doboš, CSc., prof. RNDr. Peter				

University: P. J. S	Šafárik Universi	ty in Košice						
Faculty: Faculty	of Science							
Course ID: ÚMV SVK/10	7/ Course na	Course name: Students scientific conference						
Course type, sco Course type: Recommended Per week: Per s Course method	course-load (ho study period:							
Number of ECT	S credits: 4							
Recommended se	emester/trimes	ter of the cours	e:					
Course level: I.,]	II.							
Prerequisities:								
Conditions for co	ourse completio	on:						
Learning outcom Individual scienti public presentation	fic work of stud	lents. Publishing	g of obtained resu	ults in a written fo	form and as a			
Brief outline of t								
Recommended li With respect to the		lematics (article	in journals, boo	ks).				
Course language Slovak or Englisl								
Notes:								
Course assessme Total number of a		s: 101						
A	В	С	D	Е	FX			
99.01	0.99	0.0	0.0	0.0	0.0			
Provides:			1					
Date of last mod	ification: 01.12	.2021						
Approved: prof. Kollár, DrSc.	PhDr. Ol'ga Oro	sová, CSc., prof	f. RNDr. Jozef D	oboš, CSc., prof.	RNDr. Peter			

Faculty: Faculty of S	cience
Course ID: ÚTVŠ/ LKSp/13	Course name: Summer Course-Rafting of TISA River
Course type, scope a Course type: Practic Recommended cour Per week: 2 Per stu Course method: pre	ce rse-load (hours): dy period: 28
Number of ECTS cr	edits: 2
Recommended seme	ster/trimester of the course:
Course level: I., II., F	
Prerequisities:	
- active participation	oful course completion: in line with the study rule of procedure and course guidelines ce of all tasks: carrying a canoe, entering and exiting a canoe, righting a canoe
course syllabus and r Performance standard Upon completion of t - implement the acqu - implement basic ski - determine the right	the course students are able to meet the performance standard and: ired knowledge in different situations and practice, ills to manipulate a canoe on a waterway,
5. Canoe lifting and c	burse: ficulty of waterways fting ning using an empty canoe carrying n the water without a shore contact be out of the water

11. Capsizing

12. Commands

Recommended literature:

1. JUNGER, J. et al. Turistika a športy v prírode. Prešov: FHPV PU v Prešove. 2002. ISBN 8080680973.

Internetové zdroje:

1. STEJSKAL, T. Vodná turistika. Prešov: PU v Prešove. 1999.

Dostupné na: https://ulozto.sk/tamhle/UkyxQ2IYF8qh/name/Nahrane-7-5-2021-v-14-46-39#! ZGDjBGR2AQtkAzVkAzLkLJWuLwWxZ2ukBRLjnGqSomICMmOyZN==

Course language:

Slovak language

Notes:

Course assessment

Total number of assessed students: 232

abs	n
36.64	63.36

Provides: Mgr. Dávid Kaško, PhD.

Date of last modification: 29.03.2022

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 cou Per week: Per stud Course method: pre	ce rse-load (hours): ly period: 36s				
Number of ECTS cr	edits: 2				
Recommended seme	ster/trimester of the cours	e: 1.			
Course level: II.					
Prerequisities:					
Conditions for cours	se completion:				
Learning outcomes:					
Brief outline of the c	ourse:				
Recommended litera	ature:				
Course language:					
Notes:					
Course assessment Total number of asse	ssed students: 868				
	abs	n			
	100.0	0.0			
Provides: doc. PhDr. Vagaská, PhD.	Beata Gajdošová, PhD., do	c. PaedDr. Renáta Orosová, PhD., Mgr. Zuzana			
Date of last modifica	ntion: 14.09.2024				
Approved: prof. PhD Kollár, DrSc.	Pr. Oľga Orosová, CSc., prof	f. RNDr. Jozef Doboš, CSc., prof. RNDr. Peter			

University: P. J. Šafá	rik University in Košice
Faculty: Faculty of S	cience
Course ID: ÚTVŠ/ KP/12	Course name: Survival Course
Course type, scope a Course type: Practic Recommended cour Per week: 2 Per stu Course method: pre	ce rse-load (hours): dy period: 28
Number of ECTS cr	edits: 2
Recommended seme	ster/trimester of the course:
Course level: I., II., F	
Prerequisities:	
- active participation	sful course completion: in line with the study rule of procedure and course guidelines, ce of all the tasks defined in the course syllabus
course syllabus and r Performance standard Upon completion of t - acquire knowledge - obtain theoretical kn connected with surviv - be able to resist a environment, - be able implement children and youth w	the course students are able to meet the performance standard and should: about safe stay and movement in natural environment, nowledge and practical skills to solve extraordinary and demanding situations val and minimization of damage to health, nd face situations related to overcoming barriers and obstacles in natural the acquired knowledge as an instructor during summer sport camps for ithin recreational sport.
 Preparation and gu Objective and subj Principles of hygie Fire building Movement in the u Shelters Food preparation a Rappelling, Tyrolia 	ourse: Let and safety in the movement in unfamiliar natural environment didance of a hike tour ective danger in the mountains ene and prevention of damage to health in extreme conditions unfamiliar terrain, orientation and navigation and water filtering

Recommended literature:

1. JUNGER, J. et al. Turistika a športy v prírode. Prešov: Fakulta humanitných a prírodných vied PU v Prešove. 2002. 267s. ISBN 80-8068-097-3.

PAVLÍČEK, J. Člověk v drsné přírodě. 3. vyd. Praha: Práh. 2002. ISBN 8072520598.
 WISEMAN, J. SAS: příručka jak přežít. Praha: Svojtka & Co. 2004. 566s. ISBN 8072372807.

Course language:

Slovak language

Notes:

Course assessment

Total number of assessed students: 461

abs

46.2

Provides: Mgr. Ladislav Kručanica, PhD.

Date of last modification: 16.05.2023

Approved: prof. PhDr. Oľga Orosová, CSc., prof. RNDr. Jozef Doboš, CSc., prof. RNDr. Peter Kollár, DrSc.

n

53.8

University: P. J.	Šafárik Univers	ity in Košice					
Faculty: Faculty	of Science						
Course ID: KPE PDU/15	/ Course na	Course name: Teaching Methodology and Pedagogy					
Course type, sco Course type: La Recommended Per week: 2 / 2 Course method	ecture / Practice course-load (h Per study perio	ours):					
Number of ECT	S credits: 5						
Recommended s	semester/trimes	ter of the cours	e: 1.				
Course level: II.							
Prerequisities:							
Conditions for c	ourse completi	on:					
Learning outcon	nes:						
Brief outline of t	the course:						
Recommended l	iterature:						
Course language	e:						
Notes:							
Course assessme Total number of		ts: 947					
A	В	С	D	Е	FX		
24.08	27.98	26.19	14.68	6.55	0.53		
Provides: doc. Pa	aedDr. Renáta C	Prosová, PhD., M	lgr. Zuzana Vaga	ská, PhD.	1		
Date of last mod	ification: 18.09	.2024					
Approved: prof. Kollár, DrSc.	PhDr. Ol'ga Oro	osová, CSc., prot	f. RNDr. Jozef Do	oboš, CSc., prof.	RNDr. Peter		

	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	ce rse-load (hours): dy period: 28			
Number of ECTS cre				
Recommended semes	ster/trimester of the course: 2.			
Course level: II.				
Prerequisities:				
points 20; minimum r 3. Final test in the ran points 20; minimum r presentation and the te The evaluation of the set requirements, which ensure an objective an	age 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			
clarify orders. Reflect The student is able to helping conversation. The student is able to	demonstrate an understanding of the theoretical principles of conducting a			

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: 199

А	В	С	D	Е	FX
90.95	3.02	4.52	1.01	0.5	0.0

Provides: Mgr. Ondrej Kalina, PhD.

Date of last modification: 10.02.2025