CONTENT

1. Algebra	2
2. Citation in a Slovak scientific journal	
3. Citation in a monograph	
4. Citation in an international scientific journal	
5. Co-researcher of an APVV or VEGA project	
6. Co-researcher of an internal grant	
7. Co-researcher of an international project	
8. Conference organising committee membership	
9. Digital technologies in mathematics education	10
10. Discrete mathematics	
11. Dissertation examination	13
12. English Language for PhD Students 1	14
13. English Language for PhD Students 2	15
14. Individual study of scientific literature I	17
15. Individual study of scientific literature II	18
16. Language of mathematics	19
17. Mathematical analysis	20
18. Methods for solving mathematical problems	21
19. Obtaining of a mobility grant	22
20. Pedagogy for university teachers	23
21. PhD thesis defence	24
22. Presentation of results at a local conference	25
23. Presentation of results at a local conference with international participation	26
24. Presentation of results at an international conference.	27
25. Presentation of results in a seminar.	28
26. Psychology for University Lecturers.	29
27. Research approach to mathematics education	31
28. Reviewer report	32
29. SCI or SCOPUS citation	33
30. Selected topics in didactics of mathematics.	34
31. Spring School for PhD Students	36
32. Statistical methods for data analysis	37
33. Study stay abroad	39
34. Supervising a bachelor thesis	40
35. Supervising a student's scientific work	41
36. Theory of mathematics education.	42
37 Writing dissertation work	44

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: ÚMV/ Course name: Algebra dALG/10 Course type, scope and the method: Course type: Lecture Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: present **Number of ECTS credits: 6** Recommended semester/trimester of the course: 2., 4. Course level: III. **Prerequisities: Conditions for course completion:** passing the exam **Learning outcomes:** The students will gain a deeper knowledge about the most important algebraic stuctures (group, ring, field, Boolean algebra) and their applications in various disciplines of mathematics as well as outside mathematics **Brief outline of the course:** Groups, rings, fields of algebraic numbers, Galois groups, Boolean algebras and lattices. **Recommended literature:** 1. G. Birkhoff, S. MacLane: Prehl'ad modernej algebry, Alfa, Bratislava 1979. 2. J. J. Rotman: Advanced Modern Algebra, Amer. Math. Soc., 2010. Course language: Slovak or English **Notes:** Course assessment Total number of assessed students: 14 P N 0.0 100.0 **Provides:** doc. RNDr. Miroslav Ploščica, CSc., prof. RNDr. Danica Studenovská, CSc. Date of last modification: 03.05.2015 Approved:

University: P. J. Šafárik University in Košice					
Faculty: Faculty of S	Faculty: Faculty of Science				
Course ID: ÚMV/ dCDC/12	The state of the s				
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	rse-load (hours): ly period: esent				
Number of ECTS cr	edits: 5				
	ster/trimester of the cou	rse:			
Course level: III.					
Prerequisities:					
Conditions for cours	e completion:				
Learning outcomes:					
Brief outline of the c	ourse:				
Recommended litera	iture:				
Course language:					
Notes:					
Course assessment Total number of asse	ssed students: 0				
abs n					
0.0					
Provides:					
Date of last modification:					
Approved:					

University: P. J. Šafá	University: P. J. Šafárik University in Košice				
Faculty: Faculty of S	Faculty: Faculty of Science				
Course ID: ÚMV/ dCMG/12					
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	rse-load (hours): ly period: esent				
Number of ECTS cr	edits: 20	,			
Recommended seme	ster/trimester of the co	urse:			
Course level: III.					
Prerequisities:					
Conditions for cours	e completion:				
Learning outcomes:					
Brief outline of the c	ourse:				
Recommended litera	iture:				
Course language:					
Notes:					
Course assessment Total number of asse	ssed students: 0				
abs n					
0.0					
Provides:					
Date of last modification:					
Approved:	Approved:				

University: P. J. Šafá	rik University in Košice				
Faculty: Faculty of S	Faculty: Faculty of Science				
Course ID: ÚMV/ Course name: Citation in an international scientific journal dCZC/12					
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present					
Number of ECTS cr					
	ster/trimester of the cours	e:			
Course level: III.					
Prerequisities:					
Conditions for cours	e completion:				
Learning outcomes:					
Brief outline of the c	ourse:				
Recommended litera	iture:				
Course language:					
Notes:					
Course assessment Total number of asse	ssed students: 0				
abs n					
0.0					
Provides:					
Date of last modification:					
Approved:	Approved:				

University: P. J. Šafárik University in Košice					
Faculty: Faculty of S	Faculty: Faculty of Science				
Course ID: ÚMV/ Course name: Co-researcher of an APVV or VEGA project dSVP/14					
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	rse-load (hours): ly period: esent				
Number of ECTS cr					
	ster/trimester of the cours	e: 			
Course level: III.					
Prerequisities:					
Conditions for cours	se completion:				
Learning outcomes:					
Brief outline of the c	course:				
Recommended litera	nture:				
Course language:					
Notes:					
Course assessment Total number of asse	ssed students: 77				
abs n					
100.0 0.0					
Provides:					
Date of last modification:					
Approved:					

University: P. J. Šafá	rik University in Košico	e		
Faculty: Faculty of S	Science			
Course ID: ÚMV/ dSVG/12	Course name: Co-res	earcher of an internal grant		
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pro	rse-load (hours): ly period: esent			
Number of ECTS cr				
Recommended seme	ester/trimester of the c	ourse:		
Course level: III.				
Prerequisities:				
Conditions for cours	se completion:			
Learning outcomes:				
Brief outline of the o	course:			
Recommended litera	ature:			
Course language:				
Notes:				
Course assessment Total number of asse	ssed students: 74			
abs n				
100.0 0.0				
Provides:		•		
Date of last modifica	ntion:			
Approved:	-			

University: P. J. Šafá	rik University in Košice				
Faculty: Faculty of Science					
Course ID: ÚMV/ Course name: Co-researcher of an international project dSMP/14					
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	rse-load (hours): y period:				
Number of ECTS cr					
	ster/trimester of the cou	rse:			
Course level: III.					
Prerequisities:					
Conditions for cours	e completion:				
Learning outcomes:					
Brief outline of the c	ourse:				
Recommended litera	iture:				
Course language:					
Notes:					
Course assessment Total number of asses	ssed students: 11				
	abs n				
100.0 0.0					
Provides:					
Date of last modification:					
Approved:					

University: P. J. Šafá	rik University in Košice				
Faculty: Faculty of S	Faculty: Faculty of Science				
Course ID: ÚMV/ dPOV/12	5				
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 cours	e:			
Course level: III.					
Prerequisities:					
Conditions for cours	e completion:				
Learning outcomes:					
Brief outline of the c	ourse:				
Recommended litera	iture:				
Course language:					
Notes:					
Course assessment Total number of asses	ssed students: 4				
abs n					
100.0 0.0					
Provides:					
Date of last modification:					
Approved:					

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚMV/ | Course name: Digital technologies in mathematics education

dDTM/15

Course type, scope and the method:

Course type: Lecture

Recommended course-load (hours): Per week: 2 Per study period: 28

Course method: present

Number of ECTS credits: 5

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

Course level: III.

Prerequisities:

Conditions for course completion:

examination

Learning outcomes:

To characterize possibilities of the use of digital technologies for problem solving in school mathematics, for support of different stages of learning process and for the application of innovative trends in mathematics education. To develop students' critical thinking skills in searching and evaluating proposals for meaningful use of digital technologies in mathematics teaching.

Brief outline of the course:

Characteristics of the potential uses, benefits and negative aspects of digital technologies in mathematics education. Modern trends in mathematics teaching - constructivist approaches to learning, guided investigation, inquiry-based learning, peer instruction, project method. Development of selected digital competencies in mathematics teaching. Representations of data and mathematical modelling in a digital environment. Modelling activities in mathematics teaching. Investigation of the properties of figures, geometric relationships and functional dependencies using dynamic geometry systems. Didactic aspects of e-learning. Strategies in e-learning promoting active learning of mathematics. Implementation of feedback and providing of aimed assistance in digital learning materials. Interactive mathematical documents produced using computer programs such as CAS.

Recommended literature:

- 1. Antoch, J., Čihák, M., Prachař, J.: Použití programu MUPAD ve středoškolské výuce, Pravděpodobnost a statistika na střední škole (Use of the programme MUPAD in secondary school teaching, Probability and statistics in secondary school classrooms), Univerzita Karlova v Praze, Matfyzpress, 2005.
- 2. Balacheff, N., Kaput, J., J.: Computer-based learning environments in Mathematics. In: International Handbook of Mathematics Education (editor: Bishop, A., J. et al.), Kluwer Academic Publishers, London, 1996, p. 469-501.
- 3. Dubinsky, E., Tall, D.: Advanced mathematical thinking and the computer. In: Advanced mathematical thinking (editor Tall, D.), Kluwer Academic Publishers, 2002, p. 231-243.

- 4. Fulier, J., Ďuriš, V., Frantová, P.: CAS (systémy počítačovej algebry) vo vyučovaní matematiky (CAS (computer algebra systems) in mathematics teaching), Univerzita Konštantína Filozofa v Nitre, 2007.
- 5. Vaníček, J.: Počítačové kognitivní technologie ve výuce geometrie, (Computer cognitive technologies in teaching geometry), Univerzita Karlova v Praze, 2009.

Course language:

Slovak or English

Notes:

Course assessment

Total number of assessed students: 7

N	P
0.0	100.0

Provides: doc. RNDr. Stanislav Lukáč, PhD.

Date of last modification: 03.05.2015

Approved:

University: P. J. Šafá	University: P. J. Šafárik University in Košice					
Faculty: Faculty of S	cience					
Course ID: ÚMV/ dDSM/10						
Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per week: 3 / 1 Per study period: 42 / 14 Course method: present						
Number of ECTS cr	edits: 6					
Recommended seme	ster/trimester of the cours	e: 2., 4.				
Course level: III.						
Prerequisities:						
Conditions for cours Oral exam	e completion:					
Learning outcomes: Mastered basic metho	ods and principles of discrete	e mathematics.				
	ting. Basic combinatorial	principles and methods. Proofs in discrete on to the theory of graphs. Basic cryptography				
Recommended literature: 1. J. Matoušek, J. Nešetřil: Invitation to Discrete Mathematics, Univerzita Karlova - Nakladatelství Karolinum, Praha 2000. 2. E. Scheinerman: Mathematics - a Discrete Introduction. Brooks/Cale, Pacific Grove, USA, 2002.						
Course language: Slovak or English						
Notes:						
Course assessment Total number of assessed students: 7						
	N	P				
	0.0 100.0					
Provides: RNDr. Igor Fabrici, Dr. rer. nat.						
Date of last modifica	tion: 03.05.2015					
Approved:						

University: P. J. Šafá	rik University in Košice				
Faculty: Faculty of S	cience				
Course ID: ÚMV/ dDZS/14					
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present					
Number of ECTS cr	edits: 20				
Recommended seme	ster/trimester of the cour	se:			
Course level: III.					
Prerequisities:					
Conditions for cours Acquiring the require	-	structure defined by the study plan.			
Learning outcomes: Evaluation of student	s's competences with respe	ct to the profile of the graduate.			
Brief outline of the course: The summary doctoral exam is organised as a discourse focusing on 3 courses serving as credit sources for a PhD student (the course is chosen by the supervisor of the student after consulting with the guarantee of the study programme).					
Recommended litera	ture:				
Course language: slovak					
Notes:					
Course assessment Total number of assessed students: 20					
N P					
0.0 100.0					
Provides:					
Date of last modifica	tion: 03.05.2015				
Approved:					

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: CJP/ Course name: English Language for PhD Students 1

AJD1/07

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: 1.

Course level: III.

Prerequisities:

Conditions for course completion:

Written assignments - professional CV, short academic biography (200-350 words).

distance mode of instruction using MS teams

Learning outcomes:

Brief outline of the course:

Recommended literature:

Course language:

Notes:

Course assessment

Total number of assessed students: 654

N	Ne	P	Pr	abs	neabs
0.0	0.0	51.38	0.0	48.62	0.0

Provides: PhDr. Helena Petruňová, CSc., Mgr. Zuzana Kolaříková, PhD.

Date of last modification: 11.02.2021

Approved:

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: CJP/ | Course name: English Language for PhD Students 2

AJD2/07

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: 3

Recommended semester/trimester of the course: 2.

Course level: III.

Prerequisities:

Conditions for course completion:

Distance mode of instruction. Online consultations.

Test, oral exam in accordance with the exam requirements (https://www.upjs.sk/filozoficka-fakulta/cjp/doktorandi-upjs/)

Learning outcomes:

Development of students' language skills, improvement of students' linguistic competencies (selected aspects of English pronunciation, vocabulary and syntax), development of students's pragmatic competence (selected aspects of functional grammar) with focus on English for academic and specific purposes. B2/C1 level of lanuage competence (according to CEFR.)

Brief outline of the course:

Specific aspecs of academic and professional English with focus on vocabulary development (noun and verb collocations, phrasal verbs, prepositional phrases, word-formation, formal/informal language, etc.), selected aspects of English grammar (prepositions, grammar tenses, passive voice, etc.), selected functional grammar (expressing opinion, cause/effect, arguments, examples, etc.). Academic communication. Cross-language interference.

Recommended literature:

Kolaříková, Z., Petruňová, H., Timková, R.: Angličtina v akademickom prostredí (cvičebnica). UPJŠ Košice, 2015

McCarthy, M., O'Dell, F.: Academic Vocabulary in Use. CUP, 2008

Štepánek, L., J. De Haff a kol.: Academic English-Akademická angličtina. Grada Publishing, a.s., 2011

Blašková, K.: Handbook of English for Postgraduate Students. Vyd. SPRINT Bratislava, 2007

Dušková, L. a kol.: Hovorová angličtina pre vedeckých a odborných pracovníkov. Veda.

Bratislava, 1982

Armer, T.: Cambridge English for Scientists. CUP, 2011

Porter, D.: Check your vocabulary for Academic English. Macmillan Publishers Limited, 2008

Oxford Collocations Dictionary for students of English. OUP, 2002

lms.upjs.sk

Course language:

B2/C1 level acc	cording to CEFR				
Notes:					
Course assessm Total number of	nent f assessed studen	ts: 649			
N	Ne	Р	Pr	abs	neabs
0.31	0.0	93.07	1.23	5.39	0.0
Provides: PhDr	. Helena Petruňo	vá, CSc., Mgr. Z	uzana Kolaříková	i, PhD.	•
Date of last mo	dification: 10.02	2.2021		_	
Approved:					

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of S	cience		
Course ID: ÚMV/ dISLa/14	Course name: Individual s	study of scientific literature I	
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pre	rse-load (hours): ly period: esent		
Number of ECTS cr			
Recommended seme	ster/trimester of the cours	e: 1., 2	
Course level: III.	,		
Prerequisities:			
Conditions for cours	se completion:		
Learning outcomes:			
Brief outline of the c	ourse:		
Recommended litera	nture:		
Course language: Slovak and English			
Notes:			
Course assessment Total number of asse	ssed students: 25		
	abs	n	
	100.0	0.0	
Provides:			
Date of last modifica	ntion: 03.05.2015		
Approved:			

University: P. J. Šafá	rik University in Košice	
Faculty: Faculty of S	cience	
Course ID: ÚMV/ dISLb/14	Course name: Individual s	tudy of scientific literature II
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pre	rse-load (hours): ly period: esent	
	ester/trimester of the cours	e· 3 4
Course level: III.		
Prerequisities:		
Conditions for cours	se completion:	
Learning outcomes:		
Brief outline of the c	course:	
Recommended litera	nture:	
Course language: Slovak and English		
Notes:		
Course assessment Total number of asse	ssed students: 24	
	abs	n
	100.0	0.0
Provides:		
Date of last modifica	ntion: 03.05.2015	
Approved:		

University: P. J. Šafá	rik University in Košice	
Faculty: Faculty of S	cience	
Course ID: ÚMV/ dJMT/15	Course name: Language	of mathematics
Course type, scope a Course type: Lectur Recommended cour Per week: 3 Per stu Course method: pre	re rse-load (hours): idy period: 42	
Number of ECTS cr	edits: 6	
Recommended seme	ster/trimester of the cour	se: 2., 4.
Course level: III.		
Prerequisities:	,	
Conditions for course exam	e completion:	
	uage of Mathematics is for see skills that are fundamenta	tudents to assimilate the basic concepts, reasoning al to Mathematics.
Reading of mathemat The key concept of	variables in the structure of tical text. Reading and writing set and its substance. The	f mathematical expressions. Order of operations. ng arithmetic procedures in algebraic expressions. concept of functional dependency. The theory of nathematical logic. Generalisation in mathematics.
J. Barwise, J. Etchem W. W. Esty: The Lan C. Lee: Language for University Press, 200	uage of Mathematics. Telling nendy: Language, Proof and guage of Mathematics, Mon The Learning Mathematics. As	ng Mathematical Tales, Springer, 2008. Logic, Seven Bridges Press, 1999. Intana State University, USA, 2008. Interest Seessment for Learning in Practice, Open In Education, 2007.
Course language:		
Notes:		
Course assessment Total number of asse	ssed students: 0	
	N	P
	0.0	0.0
Provides: prof. RND:	r. Jozef Doboš, CSc.	
Date of last modifica	tion: 03.05.2015	
Approved:		

University: P. J. Šafá	rik University in Koši	ce
Faculty: Faculty of S	cience	
Course ID: ÚMV/ dMAN/10	Course name: Matho	ematical analysis
Course type, scope a Course type: Lectur Recommended cou Per week: 2 Per stu Course method: pro	re rse-load (hours): ıdy period: 28	
Number of ECTS cr	edits: 6	
Recommended seme	ester/trimester of the	course: 2., 4.
Course level: III.		
Prerequisities:		
Conditions for course exam	se completion:	
Learning outcomes: Understanding of the		of Mathematical Analysis.
	Measure. Outer measure integral. Lebesgue inte	e. Lebesgue measure. Measurable sets. Measurable gral versus Riemann integral. Calculations of Lebesgue
T. Neubrunn, B. Rieč B. Riečan, T. Neubru T. A. Леонтьева, В.	. Bruckner, B. S. Thom can: Miera a integrál, V nn: Teória miery, Veda C. Панферов, B. C. C	nson: Real Analysis, Prentice Hall, 1997. Veda, Bratislava, 1981. a, Bratislava, 1992. еров: Задачи по теории функций действительного о университета, Москва, 1997.
Course language: Slovak or English		
Notes:		
Course assessment Total number of asse	ssed students: 2	
	N	P
	0.0	100.0
Provides: prof. RND	r. Jozef Doboš, CSc.	
Date of last modifica	ntion: 03.05.2015	
Approved:		

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: ÚMV/ **Course name:** Methods for solving mathematical problems dMRU/10 Course type, scope and the method: Course type: Lecture Recommended course-load (hours): Per week: 3 Per study period: 42 Course method: present **Number of ECTS credits:** 6 Recommended semester/trimester of the course: 2., 4. Course level: III. **Prerequisities: Conditions for course completion: Learning outcomes:** Obtain knowledge about the structure of elementary mathematics with respect to advanced mathematics; the development of mathematical skills of prospective teachers. **Brief outline of the course:** Language of Mathematics; syntax and semantics; sets, relations, rational and irrational numbers, equations and inequations in reals; elementary functions **Recommended literature:** A. H. Schoenfeld: Cognitive science and mathematics education, Routledge, 1987 Thomas P. Carpenter, John A. Dossey, Julie L. Koehler: Classics in mathematics education research, NCTM, 2004 W.W. Esty: The Language of Mathematics, 2008 F. Klein: Elementary Mathematics from an Advanced Standpoint, 1945 Course language: Slovak Notes: Course assessment Total number of assessed students: 6 N P 0.0 100.0 Provides: prof. RNDr. Jozef Doboš, CSc. Date of last modification: 03.05.2015 Approved:

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of S	cience		
Course ID: ÚMV/ dZMG/14	Course name: Obtaining of	of a mobility grant	
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	rse-load (hours): ly period: esent		
Number of ECTS cr			
	ster/trimester of the cours	e:	
Course level: III.			
Prerequisities:			
Conditions for cours	e completion:		
Learning outcomes:			
Brief outline of the c	ourse:		
Recommended litera	iture:		
Course language:			
Notes:			
Course assessment Total number of asse	ssed students: 2		
	abs	n	
	100.0	0.0	
Provides:			
Date of last modifica	tion:		
Approved:			

University: P. J. Šafá	rik University in Košice	
Faculty: Faculty of S	cience	
Course ID: KPE/ PgVU/17	Course name: Pedagogy for unive	ersity teachers
Course type, scope a Course type: Lectu Recommended cou Per week: Per stud Course method: pro	re rse-load (hours): ly period: 28s esent	
Number of ECTS cr		
	ester/trimester of the course:	
Course level: III.		
Prerequisities:		
Conditions for cours	se completion:	
Learning outcomes:		
Brief outline of the o	course:	
Recommended litera	ature:	
Course language:		
Notes:		
Course assessment Total number of asse	ssed students: 33	
abs	n	neabs
100.0	0.0	0.0
Provides: doc. PaedI	Dr. Renáta Orosová, PhD.	•
Date of last modifica	ntion: 08.06.2021	
Approved:		

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of S	cience		
Course ID: ÚMV/ ODP/14	Course name: PhD the	esis defence	
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	rse-load (hours): ly period: esent		
Number of ECTS cr			
	ster/trimester of the co	ourse:	
Course level: III.			
Prerequisities:			
Conditions for cours	e completion:		
Learning outcomes:			
Brief outline of the c	ourse:		
Recommended litera	iture:		
Course language:			
Notes:			
Course assessment Total number of asse	ssed students: 23		
	N	P	
	0.0	100.0	
Provides:			
Date of last modifica	tion: 03.05.2015		
Approved:			

University: P. J. Šafá	rik University in Košice	
Faculty: Faculty of S	cience	
Course ID: ÚMV/ dPDK/12	Course name: Presentatio	n of results at a local conference
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	rse-load (hours): ly period: esent	
Number of ECTS cr	edits: 2	
Recommended seme	ster/trimester of the cours	e:
Course level: III.		
Prerequisities:		
Conditions for cours	e completion:	
Learning outcomes:		
Brief outline of the c	ourse:	
Recommended litera	iture:	
Course language:		
Notes:		
Course assessment Total number of asse	ssed students: 19	
	abs	n
	100.0	0.0
Provides:		
Date of last modifica	tion:	
Annroyed:		

University: P. J. Šafá	rik University in Košice	
Faculty: Faculty of S	cience	
Course ID: ÚMV/ dPDZ/12	Course name: Presentation international participation	n of results at a local conference with
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: 4	
Recommended seme	ster/trimester of the cours	e:
Course level: III.	,	
Prerequisities:		
Conditions for cours	se completion:	
Learning outcomes:		
Brief outline of the c	ourse:	
Recommended litera	nture:	
Course language:		
Notes:		
Course assessment Total number of asse	ssed students: 97	
	abs	n
	100.0	0.0
Provides:		
Date of last modifica	ntion:	
Approved:		

University: P. J. Šafá	rik University in Košice	
Faculty: Faculty of S	cience	
Course ID: ÚMV/ dVMK/14	Course name: Presentation	on of results at an international conference
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	rse-load (hours): ly period:	
Number of ECTS cr	edits: 6	
Recommended seme	ster/trimester of the cour	se:
Course level: III.		
Prerequisities:		
Conditions for cours	e completion:	
Learning outcomes:		
Brief outline of the c	ourse:	
Recommended litera	iture:	
Course language:		
Notes:		
Course assessment Total number of asse	ssed students: 82	
	abs	n
	100.0	0.0
Provides:		
Date of last modifica	tion:	
Approved:		

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of S	cience		
Course ID: ÚMV/ dPSM/12	Course name: Presentatio	n of results in a seminar	
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pre	rse-load (hours): ly period: esent		
Number of ECTS cr			
	ster/trimester of the cours	e:	
Course level: III.			
Prerequisities:			
Conditions for cours	se completion:		
Learning outcomes:			
Brief outline of the c	ourse:		
Recommended litera	iture:		
Course language:			
Notes:			
Course assessment Total number of asse	ssed students: 168		
	abs	n	
	100.0	0.0	
Provides:			
Date of last modifica	ation:		
Approved:			

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: Course name: Psychology for University Lecturers

KPPaPZ/PsVU/17

Course type, scope and the method:

Course type: Lecture

Recommended course-load (hours): Per week: Per study period: 28s

Course method: present

Number of ECTS credits: 5

Recommended semester/trimester of the course:

Course level: III.

Prerequisities:

Conditions for course completion:

Learning outcomes:

Brief outline of the course:

University teacher and his work in the teaching process with a focus on:

teacher in relation to himself (cognitive, personality, social competencies and competencies in the use of methods), in relation to students and as part of the teacher-student relationship based on selected areas of cognitive psychology, psychology of emotions and motivation, developmental psychology, social psychology , educational psychology and health psychology with application to the university environment.

Recommended literature:

Alexitch, L. R. (2005). Applying social psychology to education. Social Psychology.–Ed.:

Schneider F., Gruman J., Coutts L.-Sage Publications, Inc, 205-228.

Fry, H., Ketteridge, S., & Marshall, S. (2008). A handbook for teaching and learning in higher education: Enhancing academic practice. Routledge.

Mareš, J.: Pedagogická psychologie. Portál, 2013.

Kniha psychologie. Universum, 2014

Čáp, J., Mareš, J.: Psychologie pro učitele. Praha: Portál 2007.

Vágnerová, M.: Školní poradenská psychológie pro pedagogy. Praha: Karolínum 2005.

Course language:

Notes:

Course assessment

Total number of assessed students: 37

abs	n	neabs
100.0	0.0	0.0

Provides: PhDr. Anna Janovská, PhD.

Date of last modification: 28.06.2021

Approved:

University: P. J. Šafá	rik University in Ko	šice
Faculty: Faculty of S	cience	
Course ID: ÚMV/ dVPM/15	Course name: Rese	earch approach to mathematics education
Course type, scope a Course type: Lectur Recommended cou Per week: 3 Per stu Course method: pre	re rse-load (hours): dy period: 42	
Number of ECTS cr	edits: 6	
Recommended seme	ster/trimester of th	e course: 1., 3.
Course level: III.		
Prerequisities:		
Conditions for cours Examination	se completion:	
education. To gain p	practical experience	ies for application of research approach to mathematics in developing of methodical and training materials for nd secondary schools.
Case studies of the	mpetences for scien use of investigative	tific work from view of student/pupil. IBSE method. methods for teaching of specific mathematical content. in applications of investigative methods.
[2] King, J.R. a kol.:	nání ve školské mate Geometry Turded or ýskumne ladená kon	cepcia prírodovedného vzdelávania. Pedagogická
Course language: Slovak or English		
Notes:		
Course assessment Total number of asse	ssed students: 1	
	N	P
	0.0	100.0
Provides: doc. RNDr	. Dušan Šveda, CSc.	, doc. RNDr. Stanislav Lukáč, PhD.
Date of last modifica	ntion: 03.05.2015	
Approved:		

University: P. J. Šafá	arik University in Košice		
Faculty: Faculty of S	Science		
Course ID: ÚMV/ dVOP/12	Course name: Reviewer	report	
Course type, scope a Course type: Recommended cou Per week: Per stuc Course method: pr	rse-load (hours): dy period: esent		
Number of ECTS ci			
	ester/trimester of the cour	·se:	
Course level: III.			
Prerequisities:	,		
Conditions for course completion:			
Learning outcomes:			
Brief outline of the	course:		
Recommended litera	ature:		
Course language:			
Notes:			
Course assessment Total number of asse	essed students: 1		
	abs	n	
100.0 0.0			
Provides:			
Date of last modifica	ation:		
Annroved:			

University: P. J. Šafárik University in Košice			
Faculty: Faculty of S	cience		
Course ID: ÚMV/ dCSC/12			
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present			
Number of ECTS cr	edits: 20		
Recommended seme	ster/trimester of the cours	e:	
Course level: III.			
Prerequisities:			
Conditions for course completion:			
Learning outcomes:			
Brief outline of the c	ourse:		
Recommended litera	iture:		
Course language:			
Notes:			
Course assessment Total number of asses	ssed students: 13		
	abs n		
100.0 0.0			
Provides:			
Date of last modification:			
Approved:			

University: P. J. Šafá	arik University in Košice	
Faculty: Faculty of S	Science	
Course ID: ÚMV/ dVDM/10	Course name: Selected top	pics in didactics of mathematics
Course type, scope a Course type: Lectu Recommended cou Per week: 3 Per stu Course method: pr	re rse-load (hours): ıdy period: 42	
Number of ECTS cr	edits: 6	
Recommended seme	ester/trimester of the cours	e: 4.
Course level: III.		
Prerequisities:		
Conditions for cour Examination	se completion:	
1 *		natical education based on active self-cognitive nologies.
mathematics. Outcomethods for different	hool mathematics. Construes, teaching and principles at levels of independent wo	uctivism and constructionism in teaching of IBSE (Inquiry based science education) teaching ork of the student. Introduction to the theory of we mathematical cognition in the learning process.
Praha 2001 Kopka, J.: Výzkumn purkynianae, 2004 John A. Van de Wall School Mathematics Douglas a. Grouws:	E.: Dítě, škola a matematika: ý přístup při výuce matemat e, Karen S. Karp and Jennife : Teaching Developmentally	Konstruktivistické přístupy k vyučování. Portál, iky. Ústí nad Labem, Acta universitatis er M. Bay-Williams: Elementary and Middle (7th Edition), Allyn & Bacon; 7 edition 2009 lathematics, Information Age Publishing, 2006
Course language: Slovak		
Notes:		
Course assessment		
Total number of asse		D.
	N	P
D 11 1 22 2	0.0	100.0
Provides: doc. RND:	f. Dušan Sveda, CSc.	

Date of last modification: 03.05.2015	
Approved:	

University: P. J. Šafárik University in Košice			
Faculty: Faculty of S	cience		
Course ID: Dek. PF UPJŠ/JSD/14	Course name: Spring Scho	ool for PhD Students	
Course type, scope a Course type: Lectur Recommended cour Per week: Per stud Course method: pre	rse-load (hours): y period: 4d esent		
Number of ECTS cr			_
	ster/trimester of the course	e: 	_
Course level: III.			_
Prerequisities:			_
Conditions for cours	e completion:		
Learning outcomes:			
Brief outline of the c	ourse:		
Recommended litera	ture:		
Course language:			
Notes:			_
Course assessment Total number of asses	ssed students: 154		
abs n			
	100.0 0.0		
Provides: doc. RNDr	Marián Kireš, PhD.		
Date of last modifica	tion: 03.05.2015		
Approved:			_

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚMV/ | **Course name:** Statistical methods for data analysis

dSMD/10

Course type, scope and the method:

Course type: Lecture

Recommended course-load (hours): Per week: 3 Per study period: 42

Course method: present

Number of ECTS credits: 6

Recommended semester/trimester of the course: 2., 4.

Course level: III.

Prerequisities:

Conditions for course completion:

Individual project work. Exam.

Learning outcomes:

The student should know and be able to apply basic concepts and principles of statistical methods using a PC and software R in the design of didactical experiment, in obtaining and processing the results with the subsequent statistical interpretation.

Brief outline of the course:

- 1. Basic concepts and principles of statistical methods for didactical experiment design and data collection.
- 2. Data visualization, data reduction in an MS Excel spreadsheet and statistical software R.
- 3. Basic principles of statistical inference. Estimation Theory.
- 4. Regression and correlation analysis. Relationships between quantitative variables.
- 5. Goodness-of-Fit tests and contingency tables. Relationships between qualitative variables.
- 6. Testing hypotheses. Parametric testing methods.
- 7. Analysis of variance (principle, testing, graphical representation).
- 8. Nonparametric methods of testing.
- 9. Introduction to multivariate statistical analysis.

Recommended literature:

ANDĚL, J. (2011), Základy matematické statistiky, Praha: MatFyzPress, (in Czech)

BOX G.E.P., HUNTER J.S., HUNTER W.G. (2005), Statistics for Experimenters: Design,

Innovation, and Discovery, 2nd ed., Wiley-Interscience

CASELLA, G., BERGER, R.(2002), Statistical Inference, 2nd ed., Duxbury Press

CRAWLEY, M.J. (2005), Statistics: An Introdution using R, New York: Wiley

GAVORA, P. (2001) Úvod do pedagogického výskumu, UK Bratislava, (in Slovak)

MOORE, D.S.(2000), The Active Practice of Statistics, New York: W. H. Freeman

MOORE, D.S., McCABE, G.P.(2005). Introduction to the Practice of Statistics, 5th ed., W. H. Freeman,

UTTS, J.M., HECKARD, R.F. (2014) Mind od Statistics, 5th ed., Thomson Brooks/Cole

Course language:

Page: 37

Slovak		
Notes:		
Course assessment Total number of assessed students: 26		
N	P	
0.0 100.0		
Provides: RNDr. Martina Hančová, PhD.		
Date of last modification: 16.02.2018		
Approved:		

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of S	cience		
Course ID: ÚMV/ dZSP/12	Course name: Study stay	abroad	
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	rse-load (hours): ly period: esent		
Number of ECTS cr			
	ster/trimester of the cour	se:	
Course level: III.			
Prerequisities:			
Conditions for course completion:			
Learning outcomes:			
Brief outline of the c	ourse:		
Recommended litera	iture:		
Course language:			
Notes:			
Course assessment Total number of asse	ssed students: 12		
	abs	n	
	100.0 0.0		
Provides:			
Date of last modifica	tion:		
Approved:			

University: P. J. Šafárik University in Košice			
Faculty: Faculty of S	cience		
Course ID: ÚMV/ dVBP/12			
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present			
Number of ECTS cr			
	ster/trimester of the cours	e:	
Course level: III.	Course level: III.		
Prerequisities:			
Conditions for course completion:			
Learning outcomes:			
Brief outline of the c	ourse:		
Recommended litera	iture:		
Course language:			
Notes:			
Course assessment Total number of assessed students: 7			
	abs n		
	100.0 0.0		
Provides:			
Date of last modification:			
Approved:			

University: P. J. Šafá	rik University in Košice	2	
Faculty: Faculty of S	Science		
Course ID: ÚMV/ dVPS/12	Course name: Superv	ising a student's scientific work	
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pre	rse-load (hours): ly period: esent		
Number of ECTS cr			
	ester/trimester of the co	ourse:	
Course level: III.			
Prerequisities:			
Conditions for cours	se completion:		
Learning outcomes:			
Brief outline of the o	course:		
Recommended litera	ature:		
Course language:			
Notes:			
Course assessment Total number of asse	ssed students: 3		
	abs	n	
100.0 0.0			
Provides:		·	
Date of last modifica	ntion:		
Approved:			

University: P. J. Šafá	rik University in Košice
Faculty: Faculty of S	cience
Course ID: ÚMV/ dTVM/10	Course name: Theory of mathematics education
Course type, scope a Course type: Lectur Recommended cou Per week: 3 Per stu Course method: pro	re rse-load (hours): idy period: 42
Number of ECTS cr	redits: 6
Recommended seme	ester/trimester of the course: 1.
Course level: III.	
Prerequisities:	
Conditions for cours Examination	se completion:
_	out the structure of the process of knowledge in mathematics, the development ills, acquire the methodology of quantitative and qualitative research in ion.
development of key according to the Stat combinatorics, proba in mathematics, stan	in mathematics and teaching mathematics. Structure, diagnostics and mathematical competences. Phylogeny and ontogeny of teaching topics te Education Programme - equations and inequalities, infinitesimal calculus, bility and statistics. Planimetry, stereometry, analytical geometry. Assessment dards development and didactic tests. Educational Research in Mathematics on of quantitative and qualitative research.
J.Kopka: Hrozny pro Ústí nad Labem,1999 R.Fischer,G.Malle: Č A. Plocki: Pravdepod A. H. Schoenfeld: Co R. Švařiček, K. Šeďo pedagogical sciences Thomas P. Carpenter research, NCTM, 200	ria vyučovania matematiky (Teaching mathematics theory), SPN Blava 1989, oblému ve školské matematice (Clusters of problems in school mathematics. Clovek a matematika (Human and mathematics), SPN Bratislava 1992 dobnosť okolo nás (Probability about us), KU Ružomberok, 2004 ognitive science and mathematics education, Routledge, 1987 ová: Kvalitatívni výzkum v Pedagogických vědách (Quantitative research in p.), Portál Praha, 2007 g., John A. Dossey, Julie L. Koehler: Classics in mathematics education
Course language:	

Notes:

Course assessment					
Total number of assessed students: 12					
N	P				
0.0	100.0				
Provides: doc. RNDr. Dušan Šveda, CSc.					
Date of last modification: 03.05.2015					
Approved:					

University: P. J. Šafá	rik University in Košio	ce		
Faculty: Faculty of S	Science			
Course ID: ÚMV/ PDS/18	Course name: Writin	ng dissertation work		
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pre	rse-load (hours): ly period:			
Number of ECTS cr	redits: 0			
Recommended seme	ester/trimester of the	course:		
Course level: III.				
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: 2			
	N		P	
	0.0		100.0	
Provides:				
Date of last modifica	ntion:			
Approved:				