University: P. J. Ša	fárik Univers	ity in Košice			
Faculty: Faculty of	Science				
Course ID: CJP/ AJD1/07	Course name: English Language for PhD Students 1				
Course type, scope Course type: Prac Recommended co Per week: 2 Per s Course method: p	ctice ourse-load (h tudy period:	ours):			
Number of credits	: 2				
Recommended sen	nester/trimes	ter of the cours	e: 1.		
Course level: III.					
Prerequisities:					
Conditions for cou	rse completi	on:			
Learning outcome	s:				
Brief outline of the	e course:				
Recommended lite	erature:				
Course language:					
Course assessment Total number of as	-	ts: 558			
N	Ne	Р	Pr	abs	neabs
0.0	0.0 0.0 56.99 0.0 43.01 0.0				
Provides: PhDr. He	elena Petruňov	vá, CSc., Mgr. Zu	uzana Kolaříkov	á, PhD., Mgr. Zu	zana Naďová
Date of last modifi	cation: 06.02	.2018			
Approved: Co-gua CSc.Guaranteeprof			ıkáč, PhD.Co-g	uaranteedoc. RNI	Dr. Dušan Šveda

University: P. J. Ša	afárik Univers	ity in Košice			
Faculty: Faculty of	f Science				
Course ID: CJP/ AJD2/07	Course name: English Language for PhD Students 2				
Course type, scope Course type: Prac Recommended co Per week: 2 Per s Course method: 1	ctice ourse-load (h study period:	ours):			
Number of credits	: 3				
Recommended ser	nester/trimes	ter of the cours	e: 2.		
Course level: III.					
Prerequisities:					
Conditions for cou	ırse completi	on:			
Learning outcome	es:				
Brief outline of the	e course:				
Recommended lite	erature:				
Course language:					
Course assessmen Total number of as	-	ts: 558			
N	Ne	Р	Pr	abs	neabs
0.0	0.0 0.0 92.29 1.43 6.27 0.0				
Provides: PhDr. He	elena Petruňov	vá, CSc., Mgr. Zi	uzana Kolaříkova	á, PhD.	
Date of last modif	ication: 06.02	.2018			
Approved: Co-gua CSc.Guaranteeprof			ıkáč, PhD.Co-gu	aranteedoc. RNI	Dr. Dušan Šved

University: P. J. Šafá	rik University in Koši	ce	
Faculty: Faculty of S	cience		
Course ID: Dek. PF UPJŠ/JSD/14	Course name: Spring	g School for PhD Students	
Course type, scope a Course type: Lectur Recommended cou Per week: Per stud Course method: pre	re rse-load (hours): ly period: 4d		
Number of credits: 2	2		
Recommended seme	ster/trimester of the	course:	
Course level: III.			
Prerequisities:			
Conditions for cours	e completion:		
Learning outcomes:			
Brief outline of the c	ourse:		
Recommended litera	ature:		
Course language:			
Course assessment Total number of asse	ssed students: 121		
	abs n		
100.0 0.0			
Provides: prof. RND	r. Katarína Cechlárová	, DrSc.	
Date of last modifica	tion: 19.02.2018		
	nteedoc. RNDr. Stanis NDr. Jozef Doboš, CS	lav Lukáč, PhD.Co-guaranteedoc. RNDr. Dušan Šveda, Sc.	

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of S	cience		
Course ID: ÚMV/ ODP/14	Course name: PhD thesis defence		
Course type, scope a Course type: Recommended cou Per week: Per stuc Course method: pro	rse-load (hours): ly period:		
Number of credits:	30		
Recommended seme	ester/trimester of the co	urse:	
Course level: III.			
Prerequisities:			
Conditions for cours	se completion:		
Learning outcomes:			
Brief outline of the o	ourse:		
Recommended litera	ature:		
Course language:			
Course assessment Total number of asse	ssed students: 16		
	N P		
0.0 100.0			
Provides:			
Date of last modifica	ntion: 27.02.2018		
	nteedoc. RNDr. Stanisla RNDr. Jozef Doboš, CSc.	v Lukáč, PhD.Co-guaranteedoc. RNDr. Dušan Šveda,	

University: P. J. Šafá	rik University in Koš	sice	
Faculty: Faculty of S	cience		
Course ID: ÚMV/ PDS/18	Course name: Writing Dissertation Work		
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pro	rse-load (hours): ly period:		
Number of credits:	15		
Recommended seme	ster/trimester of the	e course:	
Course level: III.			
Prerequisities:			
Conditions for cours	se completion:		
Learning outcomes:			
Brief outline of the o	course:		
Recommended litera	ature:		
Course language:			
Course assessment Total number of asse	ssed students: 0		
	N P		
	0.0 0.0		
Provides:			
Date of last modifica	ntion: 17.04.2018		
Approved: Co-guara CSc.Guaranteeprof. F		islav Lukáč, PhD.Co-guaranteedoc. RNDr. Dušan Šveda, CSc.	

University: P. J. Šafá	rik University in Košic	e	
Faculty: Faculty of S	science		
Course ID: KPE/ PgVU/17	Course name: Pedagogy for university teachers		
Course type, scope a Course type: Lectu Recommended cou Per week: Per stud Course method: pro	re rse-load (hours): ly period: 28s		
Number of credits:	5		
Recommended seme	ester/trimester of the o	course:	
Course level: III.			
Prerequisities:			
Conditions for cours	se completion:		
Learning outcomes:			
Brief outline of the o	course:		
Recommended litera	ature:		
Course language:			
Course assessment Total number of asse	ssed students: 12		
abs		n	neabs
100.0	100.0 0.0 0.0		
Provides: PaedDr. Ro	enáta Orosová, PhD.		•
Date of last modifica	ation: 05.02.2018		
	nteedoc. RNDr. Stanisl RNDr. Jozef Doboš, CS		Co-guaranteedoc. RNDr. Dušan Šveda,

University: P. J. Šafárik	University in Košice		
Faculty: Faculty of Scie	nce		
Course ID:CKPPaPZ/PsVU/17C	Course name: Psychology for University Lecturers		
Course type, scope and Course type: Lecture Recommended course Per week: Per study J Course method: preserve	-load (hours): period: 28s		
Number of credits: 5			
Recommended semeste	r/trimester of the course:		
Course level: III.			
Prerequisities:			
Conditions for course of	completion:		
Learning outcomes:			
Brief outline of the cou	rse:		
Recommended literatu	re:		
Course language:			
Course assessment Total number of assesse	d students: 12		
abs	n	neabs	
100.0	100.0 0.0 0.0		
Provides: Mgr. Marta D	obrowolska Kulanová, PhD., doc. P	hDr. Beata Gajdošová, PhD.	
Date of last modification	n: 20.02.2018		
Approved: Co-guarante CSc.Guaranteeprof. RNI		Co-guaranteedoc. RNDr. Dušan Šveda,	

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of Science			
Course ID: ÚMV/ dALG/10	Course name: Algebra		
Course type, scope a Course type: Lectur Recommended cour Per week: 2 Per stu Course method: pre	e rse-load (hours): dy period: 28		
Number of credits: 6			
Recommended seme	ster/trimester of the cours	e: 2., 4.	
Course level: III.			
Prerequisities:			
Conditions for cours passing the exam	e completion:		
-	olean algebra) and their app	the most important algebraic stuctures lications in various disciplines of mathematics	
Brief outline of the c Groups, rings, fields		s groups, Boolean algebras and lattices.	
,		lgebry, Alfa, Bratislava 1979. er. Math. Soc., 2010.	
Course language: Slovak or English			
Course assessment Total number of asses	ssed students: 16		
	N P		
	0.0 100.0		
Provides: doc. RNDr	. Miroslav Ploščica, CSc., p	rof. RNDr. Danica Studenovská, CSc.	
Date of last modifica	tion: 27.02.2018		
	nteedoc. RNDr. Stanislav Lu NDr. Jozef Doboš, CSc.	ıkáč, PhD.Co-guaranteedoc. RNDr. Dušan Šveda,	

University: P. J. Šafá	rik University in Koši	ice	
Faculty: Faculty of S	cience		
Course ID: ÚMV/ dCDC/12	Course name: Citation in a Slovak scientific journal		
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pro	rse-load (hours): ly period:		
Number of credits:	5		
Recommended seme	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:	•		
Course assessment Total number of asse	ssed students: 0		
	abs	n	
	0.0 0.0		
Provides:			
Date of last modific:	ation: 27.02.2018		
	nteedoc. RNDr. Stanis RNDr. Jozef Doboš, C	slav Lukáč, PhD.Co-guaranteedoc. RNDr. Dušan Šveda, Sc.	

University: P. J. Šafá	arik University in Koši	ice	
Faculty: Faculty of S	Science		
Course ID: ÚMV/ dCMG/12	Course name: Citation in a monograph		
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pr	rse-load (hours): ły period:		
Number of credits: 2	20		
Recommended seme	ester/trimester of the	course:	
Course level: III.			
Prerequisities:			
Conditions for cour	se completion:		
Learning outcomes:			
Brief outline of the o	course:		
Recommended liter	ature:		
Course language:			
Course assessment Total number of asse	essed students: 0		
	abs n		
	0.0 0.0		
Provides:			
Date of last modific:	ation: 27.02.2018		
	nteedoc. RNDr. Stanis RNDr. Jozef Doboš, C	slav Lukáč, PhD.Co-guaranteedoc. RNDr. Dušan Šveda, Sc.	

University: P. J. Šafá	arik University in Košio	ce	
Faculty: Faculty of S	Science		
Course ID: ÚMV/ dCSC/12	Course name: SCI or SCOPUS citation		
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pr	rse-load (hours): ly period:		
Number of credits: 2	20		
Recommended seme	ester/trimester of the	course:	
Course level: III.			
Prerequisities:			
Conditions for cour	se completion:		
Learning outcomes:			
Brief outline of the o	course:		
Recommended liter	ature:		
Course language:			
Course assessment Total number of asse	essed students: 12		
	abs n		
100.0 0.0			
Provides:	<u>.</u>	· · ·	
Date of last modific:	ation: 27.02.2018		
	nteedoc. RNDr. Stanis RNDr. Jozef Doboš, CS	lav Lukáč, PhD.Co-guaranteedoc. RNDr. Dušan Šveda, Sc.	

University: P. J. Šafá	rik University in Koš	ice	
Faculty: Faculty of S	cience		
Course ID: ÚMV/ dCZC/12	Course name: Citation in an international scientific journal		
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pro	rse-load (hours): ly period:		
Number of credits:	10		
Recommended seme	ster/trimester of the	e course:	
Course level: III.			
Prerequisities:			
Conditions for cours	se completion:		
Learning outcomes:			
Brief outline of the o	course:		
Recommended litera	ature:		
Course language:			
Course assessment Total number of asse	ssed students: 0		
	abs n		
	0.0 0.0		
Provides:		· · · ·	
Date of last modifica	ation: 27.02.2018		
Approved: Co-guara CSc.Guaranteeprof. F		slav Lukáč, PhD.Co-guaranteedoc. RNDr. Dušan Šveda, Sc.	

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of S	cience		
Course ID: ÚMV/ dDSM/10			
Course type, scope a Course type: Lectur Recommended cou Per week: 3 / 1 Per Course method: pre	re / Practice rse-load (hours): study period: 42 / 14		
Number of credits: 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 discret	e mathematics.	
	ting. Basic combinatorial	principles and methods. Proofs in discrete on to the theory of graphs. Basic cryptography	
Nakladatelství Karol	šetřil: Invitation to Discrete inum, Praha 2000.	Mathematics, Univerzita Karlova - oduction. Brooks/Cale, Pacific Grove, USA,	
Course language: Slovak or English			
Course assessment Total number of asse	ssed students: 10		
	N P		
0.0 100.0			
Provides: Dr.h.c. pro	f. RNDr. Stanislav Jendrol',	DrSc.	
Date of last modifica	ntion: 27.02.2018		
	nteedoc. RNDr. Stanislav L RNDr. Jozef Doboš, CSc.	ukáč, PhD.Co-guaranteedoc. RNDr. Dušan Šveda	

University: P. J. Šafa	árik University in Košice
Faculty: Faculty of S	Science
Course ID: ÚMV/ dDTM/15Course name: Digital technologies in mathematics education	
Course type, scope a Course type: Lectu Recommended cou Per week: 2 Per stu Course method: pr	ure urse-load (hours): udy period: 28
Number of credits:	5
Recommended sem	ester/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		
Course assessment Total number of assessed students: 4		
N P		
0.0 100.0		
Provides: doc. RNDr. Stanislav Lukáč, PhD.		
Date of last modification: 27.02.2018		
Approved: Co-guaranteedoc. RNDr. Stanislav Lukáč, PhD.Co-guaranteedoc. RNDr. Dušan Šveda CSc.Guaranteeprof. RNDr. Jozef Doboš, CSc.		

University: P. J. Šafárik University in Košice		
Faculty: Faculty of Science		
ourse ID: ÚMV/ Course name: Summary doctoral exam		
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present		
Number of credits: 5		
Recommended semester/trimester of the course	se:	
Course level: III.		
Prerequisities:		
Conditions for course completion: Acquiring the required number of credits in the s	structure defined by the study plan.	
Learning outcomes: Evaluation of student's competences with respec	et to the profile of the graduate.	
	discourse focusing on 3 courses serving as credit by the supervisor of the student after consulting	
Recommended literature:		
Course language: slovak		
Course assessment Total number of assessed students: 14		
N P		
0.0 100.0		
Provides:		
Date of last modification: 27.02.2018		
Approved: Co-guaranteedoc. RNDr. Stanislav L CSc.Guaranteeprof. RNDr. Jozef Doboš, CSc.	ukáč, PhD.Co-guaranteedoc. RNDr. Dušan Šveda	

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of S	cience		
Course ID: ÚMV/ dISLa/14	Course name: Individual study of scientific literature I		
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	rse-load (hours): ly period: esent		
Number of credits: 1			
Recommended seme	ster/trimester of the co	arse: 1., 2	
Course level: III.			
Prerequisities:			
Conditions for cours	e completion:		
Learning outcomes:			
Brief outline of the c	ourse:		
Recommended litera	iture:		
Course language: Slovak and English			
Course assessment Total number of asse	ssed students: 18		
	abs n		
100.0 0.0			
Provides:			
Date of last modifica	tion: 27.02.2018		
	nteedoc. RNDr. Stanislav NDr. Jozef Doboš, CSc.	Lukáč, PhD.Co-guaranteedoc. RNDr. Dušan Šveda,	

University: P. J. Šafá	rik University in Koši	ce
Faculty: Faculty of S	cience	
Course ID: ÚMV/ dISLb/14	Course name: Individual study 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	
Number of credits:	12	
Recommended seme	ster/trimester of the	course: 3., 4
Course level: III.		
Prerequisities:	_	
Conditions for cours	se completion:	
Learning outcomes:		
Brief outline of the c	course:	
Recommended litera	ature:	
Course language: Slovak and English		
Course assessment Total number of asse	ssed students: 18	
abs n		
100.0 0.0		
Provides:		
Date of last modifica	tion: 27.02.2018	
	nteedoc. RNDr. Stanis RNDr. Jozef Doboš, CS	lav Lukáč, PhD.Co-guaranteedoc. RNDr. Dušan Šveda, Sc.

University P I Šafá	rik University in Košice	
Faculty: Faculty of S		
Course ID: ÚMV/ Course name: Language of Mathematics		
IJMT/15		
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 credits: 6	<u>,</u>	
Recommended seme	ster/trimester of the co	urse: 2., 4.
Course level: III.		
Prerequisities:		
Conditions for course exam	e completion:	
	-	For students to assimilate the basic concepts, re fundamental to Mathematics.
Reading of mathemat The key concept of	variables in the structure fical text. Reading and was set and its substance. Th	e of mathematical expressions. Order of operations. riting arithmetic procedures in algebraic expressions. he concept of functional dependency. The theory of of mathematical logic. Generalisation in mathematics.
J. Barwise, J. Etchem W. W. Esty: The Lan C. Lee: Language for University Press, 200	uage of Mathematics. Te lendy: Language, Proof a guage of Mathematics, N Learning Mathematics.	lling Mathematical Tales, Springer, 2008. and Logic, Seven Bridges Press, 1999. Aontana State University, USA, 2008. Assessment for Learnig in Practice, Open son Education, 2007.
Course language:		
Course assessment Total number of asse	ssed students: 0	
	Ν	Р
0.0 0.0		
Provides: prof. RND	r. Jozef Doboš, CSc.	
Date of last modifica	tion: 27.02.2018	
	nteedoc. RNDr. Stanislav NDr. Jozef Doboš, CSc.	v Lukáč, PhD.Co-guaranteedoc. RNDr. Dušan Šveda,

University: P. J. Šafá	rik University in Košice	
Faculty: Faculty of S	science	
Course ID: ÚMV/ Course name: Mathematical analysis		
Course type, scope a Course type: Lectu Recommended cou Per week: 2 Per stu Course method: pr	re rse-load (hours): ıdy period: 28	
Number of credits:	5	
Recommended seme	ester/trimester of the cours	e: 2., 4.
Course level: III.		
Prerequisities:		
Conditions for cour exam	se completion:	
Learning outcomes: Understanding of the	e basic rigorous ideas of Mat	hematical Analysis.
	Ieasure. Outer measure. Leb integral. Lebesgue integral v	esgue measure. Measurable sets. Measurable ersus Riemann integral. Calculations of Lebesgue
T. Neubrunn, B. Ried B. Riečan, T. Neubru T. А. Леонтьева, B.	. Bruckner, B. S. Thomson: čan: Miera a integrál, Veda, l Inn: Teória miery, Veda, Bra	tislava, 1992. Задачи по теории функций действительного
Course language: Slovak or English		
Course assessment Total number of asse	essed students: 2	
	Ν	Р
0.0 100.0		
Provides: prof. RND	r. Jozef Doboš, CSc.	
Date of last modification	ation: 27.02.2018	
	nteedoc. RNDr. Stanislav Lu RNDr. Jozef Doboš, CSc.	ıkáč, PhD.Co-guaranteedoc. RNDr. Dušan Šveda

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of S	cience		
Course ID: ÚMV/ dMRU/10	MV/ Course name: Methods for solving mathematical problems		
Course type, scope a Course type: Lectu Recommended cou Per week: 3 Per stu Course method: pro	re rse-load (hours): ıdy period: 42		
Number of credits: (5		
Recommended seme	ester/trimester of the cours	e: 2., 4.	
Course level: III.			
Prerequisities:			
Conditions for cours	se completion:		
mathematics; the dev	elopment of mathematical s	tary mathematics with respect to advanced skills of prospective teachers.	
		s; sets, relations, rational and irrational numbers, inctions	
Thomas P. Carpenter research, NCTM, 20 W.W. Esty: The Lang	ognitive science and mathen , John A. Dossey, Julie L. K		
Course language: Slovak			
Course assessment Total number of asse	ssed students: 6		
	Ν	Р	
0.0 100.0			
Provides: prof. RND	r. Jozef Doboš, CSc.		
Date of last modific:	ation: 27.02.2018		
	nteedoc. RNDr. Stanislav L RNDr. Jozef Doboš, CSc.	ukáč, PhD.Co-guaranteedoc. RNDr. Dušan Šveda	

University: P. J. Šafá	rik University in Koš	ice
Faculty: Faculty of S	cience	
Course ID: ÚMV/ dPCM/17	Course name: Scientific publication registered in the database MathEduc	
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pro	rse-load (hours): ly period:	
Number of credits:	5	
Recommended seme	ster/trimester of the	e course:
Course level: III.		
Prerequisities:		
Conditions for cours	se completion:	
Learning outcomes:		
Brief outline of the o	course:	
Recommended litera	ature:	
Course language:		
Course assessment Total number of asse	ssed students: 3	
abs n		
100.0 0.0		
Provides:		•
Date of last modifica	ation: 27.02.2018	
Approved: Co-guara CSc.Guaranteeprof. F		slav Lukáč, PhD.Co-guaranteedoc. RNDr. Dušan Šveda, Sc.

University: P. J. Šaf	árik University in Košice	
Faculty: Faculty of	Science	
Course ID: ÚMV/ dPCR/12	Course name: Scientific publication registered in the database Math. Reviews or Zentralblatt MATH	
Course type, scope Course type: Recommended cou Per week: Per stu Course method: pr	urse-load (hours): dy period: resent	
Number of credits:	15	
Recommended sem	ester/trimester of the co	urse:
Course level: III.		
Prerequisities:		
Conditions for cour	se completion:	
Learning outcomes	:	
Brief outline of the	course:	
Recommended liter	ature:	
Course language:		
Course assessment Total number of ass	essed students: 9	
abs n		
100.0 0.0		
Provides:		
Date of last modific	ation: 27.02.2018	
	anteedoc. RNDr. Stanisla RNDr. Jozef Doboš, CSc	v Lukáč, PhD.Co-guaranteedoc. RNDr. Dušan Šveda,

University: P. J. Šafa	árik University in Košice	
Faculty: Faculty of S	Science	
Course ID: ÚMV/ dPCW/12	Course name: Scientific publication registered in the database Web of Science or Scopus	
Course type, scope a Course type: Recommended cou Per week: Per stue Course method: pr	urse-load (hours): dy period:	
Number of credits:	20	
Recommended sem	ester/trimester of the cour	se:
Course level: III.		
Prerequisities:		
Conditions for cour	se completion:	
Learning outcomes		
Brief outline of the	course:	
Recommended liter	ature:	
Course language:		
Course assessment Total number of asse	essed students: 52	
abs n		
100.0 0.0		
Provides:		
Date of last modific	ation: 27.02.2018	
	anteedoc. RNDr. Stanislav I RNDr. Jozef Doboš, CSc.	Lukáč, PhD.Co-guaranteedoc. RNDr. Dušan Šveda,

University: P. J. Šafá	rik University in Koši	ce
Faculty: Faculty of S	cience	
Course ID: ÚMV/ dPDK/12	Course name: Presentation of results at a local conference	
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pro	rse-load (hours): ly period:	
Number of credits: 2	2	
Recommended seme	ster/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:		
Course assessment Total number of asse	ssed students: 19	
	abs	n
	100.0	0.0
Provides:		
Date of last modifica	ition: 27.02.2018	
	nteedoc. RNDr. Stanis RNDr. Jozef Doboš, C	slav Lukáč, PhD.Co-guaranteedoc. RNDr. Dušan Šveda, Sc.

University: P. J. Šaf	árik University in Košice	
Faculty: Faculty of	Science	
Course ID: ÚMV/ dPDZ/12	Course name: Presentation of results at a local conference with international participation	
Course type, scope Course type: Recommended cou Per week: Per stu Course method: pr	ırse-load (hours): dy period:	
Number of credits:	4	
Recommended sem	ester/trimester of the cours	se:
Course level: III.		
Prerequisities:		
Conditions for cour	se completion:	
Learning outcomes	:	
Brief outline of the	course:	
Recommended liter	rature:	
Course language:		
Course assessment Total number of ass	essed students: 87	
	abs	n
	100.0	0.0
Provides:		
Date of last modific	ation: 27.02.2018	
	anteedoc. RNDr. Stanislav L RNDr. Jozef Doboš, CSc.	ukáč, PhD.Co-guaranteedoc. RNDr. Dušan Šveda,

University: P. J. Šafá	rik University in Koš	ice
Faculty: Faculty of S	cience	
Course ID: ÚMV/ dPOV/12	Course name: Conference organising committee membership	
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pro	rse-load (hours): ly period:	
Number of credits: 2	2	
Recommended seme	ster/trimester of the	course:
Course level: III.		
Prerequisities:		
Conditions for cours	se completion:	
Learning outcomes:		
Brief outline of the o	course:	
Recommended liter	ature:	
Course language:		
Course assessment Total number of asse	ssed students: 4	
	abs	n
	100.0	0.0
Provides:		
Date of last modific:	ation: 27.02.2018	
	nteedoc. RNDr. Stani RNDr. Jozef Doboš, C	slav Lukáč, PhD.Co-guaranteedoc. RNDr. Dušan Šveda, Sc.

University: P. J. Šafá	rik University in Košic	ce
Faculty: Faculty of S	cience	
Course ID: ÚMV/ dPPC/12	Course name: Semestral pedagogical activity	
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pro	rse-load (hours): ly period:	
Number of credits: 5	5	
Recommended seme	ster/trimester of the o	course:
Course level: III.		
Prerequisities:		
Conditions for cours	se completion:	
Learning outcomes:		
Brief outline of the o	course:	
Recommended litera	ature:	
Course language:		
Course assessment Total number of asse	ssed students: 162	
	abs	n
100.0 0.0		0.0
Provides: doc. RND	. Roman Soták, PhD.	
Date of last modifica	ntion: 27.02.2018	
	nteedoc. RNDr. Stanis RNDr. Jozef Doboš, CS	lav Lukáč, PhD.Co-guaranteedoc. RNDr. Dušan Šveda,

University: P. J. Šafá	rik University in Koši	ce
Faculty: Faculty of S	cience	
Course ID: ÚMV/ dPRZ/12	Course name: Scientific publication in peer-reviewed proceedings	
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pro	rse-load (hours): ly period:	
Number of credits:	5	
Recommended seme	ester/trimester of the	course:
Course level: III.		
Prerequisities:		
Conditions for cours	se completion:	
Learning outcomes:		
Brief outline of the o	course:	
Recommended liter	ature:	
Course language:		
Course assessment Total number of asse	ssed students: 26	
	abs	n
	100.0	0.0
Provides:		
Date of last modific:	ation: 27.02.2018	
	nteedoc. RNDr. Stanis RNDr. Jozef Doboš, C	slav Lukáč, PhD.Co-guaranteedoc. RNDr. Dušan Šveda, Sc.

University: P. J. Šafa	arik University in Košice	
Faculty: Faculty of S	Science	
Course ID: ÚMV/ dPSM/12	Course name: Presentation of results in a seminar	
Course type, scope a Course type: Recommended cou Per week: Per stue Course method: pr	rse-load (hours): dy period:	
Number of credits:	2	
Recommended seme	ester/trimester of the cou	Irse:
Course level: III.		
Prerequisities:		
Conditions for cour	se completion:	
Learning outcomes:		
Brief outline of the	course:	
Recommended liter	ature:	
Course language:		
Course assessment Total number of asse	essed students: 131	
	abs	n
	100.0	0.0
Provides:		· ·
Date of last modific	ation: 27.02.2018	
	nteedoc. RNDr. Stanislav RNDr. Jozef Doboš, CSc.	Lukáč, PhD.Co-guaranteedoc. RNDr. Dušan Šveda,

OUDSE INFODMATION I ETTED

	COURSE INFORMATION LETTER
University: P. J. Šafá	irik University in Košice
Faculty: Faculty of S	Science
Course ID: ÚMV/ dSMD/10	Course name: Statistical methods for data analysis
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 credits: (6
	ester/trimester of the course: 2., 4.
Course level: III.	
Prerequisities:	
Conditions for cours Individual project we	-
using a PC and softw	now and be able to apply basic concepts and principles of statistical methods vare R in the design of didactical experiment, in obtaining and processing the equent statistical interpretation.
 collection. 2. Data visualization 3. Basic principles of 4. Regression and co 5. Goodness-of-Fit te 6. Testing hypothese 7. Analysis of varian 8. Nonparametric media 	d principles of statistical methods for didactical experiment design and data , data reduction in an MS Excel spreadsheet and statistical software R. f statistical inference. Estimation Theory. prelation analysis. Relationships between quantitative variables. ests and contingency tables. Relationships between qualitative variables. s. Parametric testing methods. ice (principle, testing, graphical representation).
BOX G.E.P., HUNT Innovation, and Disc CASELLA, G., BER CRAWLEY, M.J. (20 GAVORA, P. (2001)	ature: Základy matematické statistiky, Praha: MatFyzPress, (in Czech) ER J.S., HUNTER W.G. (2005), Statistics for Experimenters: Design, covery, 2nd ed., Wiley-Interscience CGER, R.(2002), Statistical Inference, 2nd ed., Duxbury Press 005), Statistics: An Introdution using R, New York: Wiley Úvod do pedagogického výskumu, UK Bratislava, (in Slovak)), 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: Slovak

Course assessment Total number of assessed students: 26	
Ν	Р
0.0	100.0
Provides: RNDr. Martina Hančová, PhD.	
Date of last modification: 27.02.2018	
Approved: Co-guaranteedoc. RNDr. Stanislav I CSc.Guaranteeprof. RNDr. Jozef Doboš, CSc.	Lukáč, PhD.Co-guaranteedoc. RNDr. Dušan Šveda,

.

University: P. J. Šafá	rik University in Koš	ice
Faculty: Faculty of S	cience	
Course ID: ÚMV/ dSMP/14	Course name: Co-researcher of an international project	
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pro	rse-load (hours): ly period:	
Number of credits:	3	
Recommended seme	ster/trimester of the	e course:
Course level: III.		
Prerequisities:		
Conditions for cours	se completion:	
Learning outcomes:		
Brief outline of the o	course:	
Recommended litera	ature:	
Course language:		
Course assessment Total number of asse	ssed students: 3	
	abs	n
	100.0	0.0
Provides:		
Date of last modifica	ation: 27.02.2018	
Approved: Co-guara CSc.Guaranteeprof. F		islav Lukáč, PhD.Co-guaranteedoc. RNDr. Dušan Šveda, CSc.

University: P. J. Šafá	rik University in Košice	
Faculty: Faculty of S	science	
Course ID: ÚMV/ dSVG/12	Course name: Co-researcher of an internal grant	
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pro	rse-load (hours): ly period:	
Number of credits:	10	
Recommended seme	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:		
Course assessment Total number of asse	ssed students: 57	
	abs	n
	100.0	0.0
Provides:		
Date of last modifica	ation: 27.02.2018	
	nteedoc. RNDr. Stanisla RNDr. Jozef Doboš, CSo	v Lukáč, PhD.Co-guaranteedoc. RNDr. Dušan Šveda,

University: P. J. Šafá	rik University in Koši	ce
Faculty: Faculty of S	cience	
Course ID: ÚMV/ dSVP/14	Course name: Co-researcher of an APVV or VEGA project	
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pro	rse-load (hours): ly period:	
Number of credits: 2	2	
Recommended seme	ester/trimester of the	course:
Course level: III.		
Prerequisities:		
Conditions for cours	se completion:	
Learning outcomes:		
Brief outline of the o	ourse:	
Recommended liter	ature:	
Course language:		
Course assessment Total number of asse	ssed students: 49	
	abs	n
	100.0	0.0
Provides:		
Date of last modifica	ntion: 27.02.2018	
	nteedoc. RNDr. Stanis RNDr. Jozef Doboš, C	slav Lukáč, PhD.Co-guaranteedoc. RNDr. Dušan Šveda, Sc.

University: P. J. Šafa	árik University in Košice
Faculty: Faculty of S	Science
Course ID: ÚMV/ dTVM/10	Course name: Theory of mathematics education
Course type, scope a Course type: Lectu Recommended cou Per week: 3 Per stu Course method: pr	ure urse-load (hours): udy period: 42
Number of credits:	6
Recommended sem	ester/trimester of the course: 1.
Course level: III.	
Prerequisities:	
Conditions for cour Examination	se completion:
	bout the structure of the process of knowledge in mathematics, the hematical skills, acquire the methodology of quantitative and qualitative
development of key according to the Sta combinatorics, proba in mathematics, star	course: s in mathematics and teaching mathematics. Structure, diagnostics and y mathematical competences. Phylogeny and ontogeny of teaching topics te Education Programme - equations and inequalities, infinitesimal calculus, ability and statistics. Planimetry, stereometry, analytical geometry. Assessment indards development and didactic tests. Educational Research in Mathematics son of quantitative and qualitative research.
	ria vyučovania matematiky (Teaching mathematics theory), SPN Blava 1989, oblému ve školské matematice (Clusters of problems in school mathematics.

R.Fischer, G.Malle: Človek a matematika (Human and mathematics), SPN Bratislava 1992

A. Plocki: Pravdepodobnosť okolo nás (Probability about us), KU Ružomberok, 2004

A. H. Schoenfeld: Cognitive science and mathematics education, Routledge, 1987

R. Švařiček, K. Šeďová: Kvalitatívni výzkum v Pedagogických vědách (Quantitative research in pedagogical sciences), Portál Praha, 2007

Thomas P. Carpenter, John A. Dossey, Julie L. Koehler: Classics in mathematics education research, NCTM, 2004

Course language: Slovak

Course assessment

Total number of assessed students: 22

N	Р	
0.0 100.0		
Provides: doc. RNDr. Dušan Šveda, CSc.		
Date of last modification: 27.02.2018		
Approved: Co-guaranteedoc. RNDr. Stanislav Lukáč, PhD.Co-guaranteedoc. RNDr. Dušan Šveda, CSc.Guaranteeprof. RNDr. Jozef Doboš, CSc.		

University: P. J. Šafá	rik University in Koši	ce
Faculty: Faculty of S	cience	
Course ID: ÚMV/ dVBP/12	Course name: Supervising a bachelor thesis	
Course type, scope a Course type: Recommended cou Per week: Per stuc Course method: pro	rse-load (hours): ly period:	
Number of credits: (5	
Recommended seme	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:		
Course assessment Total number of asse	ssed students: 7	
abs n		n
100.0 0.0		0.0
Provides:		
Date of last modifica	ation: 27.02.2018	
	nteedoc. RNDr. Stanis RNDr. Jozef Doboš, C	slav Lukáč, PhD.Co-guaranteedoc. RNDr. Dušan Šveda, Sc.

University: P. J. Šafárik University in Košico	e	
Faculty: Faculty of Science		
Course ID: ÚMV/ Course name: Selecte dVDM/10	V/ Course name: Selected topics in didactics of mathematics	
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 credits: 6		
Recommended semester/trimester of the co	ourse: 4.	
Course level: III.		
Prerequisities:		
Conditions for course completion: Examination		
Learning outcomes: To acquire the methods and forms of mathem activities with the support of modern digital	natical education based on active self-cognitive technologies.	
mathematics. Outcomes, teaching and princi methods for different levels of independen	onstructivism and constructionism in teaching of iples IBSE (Inquiry based science education) teaching at work of the student. Introduction to the theory of active mathematical cognition in the learning process.	
Praha 2001 Kopka, J.: Výzkumný přístup při výuce mate purkynianae, 2004 John A. Van de Walle, Karen S. Karp and Je School Mathematics: Teaching Developmen	ennifer M. Bay-Williams: Elementary and Middle atally (7th Edition), Allyn & Bacon; 7 edition 2009 on Mathematics,Information Age Publishing, 2006	
Course language: Slovak		
Course assessment Total number of assessed students: 20		
Ν	Р	
0.0 100.0		
Provides: doc. RNDr. Dušan Šveda, CSc.		
Date of last modification: 27.02.2018		

Approved: Co-guaranteedoc. RNDr. Stanislav Lukáč, PhD.Co-guaranteedoc. RNDr. Dušan Šveda, CSc.Guaranteeprof. RNDr. Jozef Doboš, CSc.

University: P. J. Šafá	rik University in Koši	ce
Faculty: Faculty of S	cience	
Course ID: ÚMV/ dVMK/14	Course name: Presentation of results at an international conference	
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pro	rse-load (hours): ly period:	
Number of credits: (5	
Recommended seme	ster/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:		
Course assessment Total number of asse	ssed students: 71	
abs n		n
100.0 0.0		0.0
Provides:		
Date of last modifica	ntion: 27.02.2018	
	nteedoc. RNDr. Stanis RNDr. Jozef Doboš, C	slav Lukáč, PhD.Co-guaranteedoc. RNDr. Dušan Šveda, Sc.

University: P. J. Šafá	rik University in Koši	ce
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 stud Course method: pro	rse-load (hours): ly period:	
Number of credits: 2	2	
Recommended seme	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:		
Course assessment Total number of asse	ssed students: 0	
abs n		n
	0.0	0.0
Provides:		· · · ·
Date of last modific:	ation: 27.02.2018	
	nteedoc. RNDr. Stanis RNDr. Jozef Doboš, C	slav Lukáč, PhD.Co-guaranteedoc. RNDr. Dušan Šveda, Sc.

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of S			
Course ID: ÚMV/ Course name: Research approach to mathematics education IVPM/15 IVPM/15			1
Course type, scope a Course type: Lectur Recommended cour Per week: 3 Per stu Course method: pre	e rse-load (hours): dy period: 42		
Number of credits: 6	,		
Recommended seme	ster/trimester of the course	e: 1., 3.	
Course level: III.			
Prerequisities:			
Conditions for cours Examination	e completion:		
education. To gain pr		plication of research approach to ping of methodical and training r ndary schools.	
Case studies of the u	npetences for scientific wo use of investigative methods	ork from view of student/pupil. s for teaching of specific mathe cations of investigative methods.	matical content.
[2] King, J.R. a kol.:[3] Held, Ľ. a kol.: V fakulta Trnavskej uni	ání ve školské matematice, Geometry Turded on!, USA		agogická
Course language: Slovak or English			
Course assessment Total number of asse	ssed students: 1		
	N	Р	
0.0		100.0	
Provides: doc. RNDr	. Dušan Šveda, CSc., doc. R	NDr. Stanislav Lukáč, PhD.	
Date of last modifica	tion: 27.02.2018		
	nteedoc. RNDr. Stanislav Lu NDr. Jozef Doboš, CSc.	káč, PhD.Co-guaranteedoc. RNI	Dr. Dušan Šveda,

University: P. J. Šafá	rik University in Koš	ice
Faculty: Faculty of S	cience	
Course ID: ÚMV/ dVPS/12	Course name: Supervising a student's scientific work	
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pro	rse-load (hours): ly period:	
Number of credits: (<u>,</u>	
Recommended seme	ster/trimester of the	e course:
Course level: III.		
Prerequisities:		
Conditions for cours	se completion:	
Learning outcomes:		
Brief outline of the o	course:	
Recommended litera	ature:	
Course language:		
Course assessment Total number of asse	ssed students: 3	
abs n		n
100.0 0.0		0.0
Provides:		
Date of last modifica	ation: 27.02.2018	
Approved: Co-guara CSc.Guaranteeprof. F		slav Lukáč, PhD.Co-guaranteedoc. RNDr. Dušan Šveda, Sc.

University: P. J. Šafá	rik University in Koš	ice
Faculty: Faculty of S	cience	
Course ID: ÚMV/ dZMG/14	Course name: Obtaining of a mobility grant	
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pro	rse-load (hours): ly period:	
Number of credits:	10	
Recommended seme	ester/trimester of the	e course:
Course level: III.		
Prerequisities:		
Conditions for cours	se completion:	
Learning outcomes:		
Brief outline of the o	course:	
Recommended litera	ature:	
Course language:		
Course assessment Total number of asse	ssed students: 2	
abs n		n
100.0 0.0		0.0
Provides:		· · · ·
Date of last modifica	ntion: 27.02.2018	
	nteedoc. RNDr. Stani RNDr. Jozef Doboš, C	slav Lukáč, PhD.Co-guaranteedoc. RNDr. Dušan Šveda, Sc.

University: P. J. Šafá	rik University in Koši	ce
Faculty: Faculty of S	Science	
Course ID: ÚMV/ dZSP/12	Course name: Study stay abroad	
Course type, scope a Course type: Recommended cou Per week: Per stue Course method: pr	rse-load (hours): ly period:	
Number of credits:	4	
Recommended seme	ester/trimester of the	course:
Course level: III.		
Prerequisities:		
Conditions for cour	se completion:	
Learning outcomes:		
Brief outline of the	course:	
Recommended liter	ature:	
Course language:		
Course assessment Total number of asse	essed students: 11	
abs n		n
	100.0	0.0
Provides:		
Date of last modification	ation: 27.02.2018	
	nteedoc. RNDr. Stanis RNDr. Jozef Doboš, CS	lav Lukáč, PhD.Co-guaranteedoc. RNDr. Dušan Šveda, Sc.