University: P. J. Š	afárik Univers	ity in Košice			
Faculty: Faculty o	of Science				
Course ID: CJP/ AJD1/07	Course name: English Language for PhD Students 1				
Course type, scop Course type: Pra Recommended c Per week: 2 Per Course method:	ctice ourse-load (h study period:	ours):			
Number of credits	s: 2				
Recommended se	mester/trimes	ter of the cours	e: 1.		
Course level: III.					
Prerequisities:					
Conditions for co	urse completi	on:			
Learning outcom	es:				
Brief outline of th	e course:				
Recommended lit	erature:				
Course language:					
Course assessmen Total number of as	-	ts: 558			
N	Ne	Р	Pr	abs	neabs
0.0 0.0 56.99 0.0 43.01 0.0					0.0
Provides: PhDr. H	elena Petruňov	vá, CSc., Mgr. Z	uzana Kolaříkov	á, PhD., Mgr. Zu	zana Naďová
Date of last modif	fication: 06.02	.2018			
Approved: Co-gua CSc.Co-guaranteel				eeprof. RNDr. M	irko Horňák,

University: P. J. Š	afárik Univers	ity in Košice			
Faculty: Faculty o	of Science				
Course ID: CJP/ AJD2/07	Course name: English Language for PhD Students 2				
Course type, scop Course type: Pra Recommended c Per week: 2 Per Course method:	ctice ourse-load (h study period:	ours):			
Number of credits	s: 3				
Recommended se	mester/trimes	ter of the cours	e: 2.		
Course level: III.					
Prerequisities:					
Conditions for co	urse completi	on:			
Learning outcom	es:				
Brief outline of th	e course:				
Recommended lit	erature:				
Course language:					
Course assessmen Total number of as	-	ts: 558			
N	Ne	Р	Pr	abs	neabs
0.0 0.0 92.29 1.43 6.27 0.0					
Provides: PhDr. H	elena Petruňov	vá, CSc., Mgr. Z	uzana Kolaříkova	á, PhD.	
Date of last modif	fication: 06.02	.2018			
Approved: Co-gua CSc.Co-guaranteel				eeprof. RNDr. M	irko Horňák,

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of S	cience		
Course ID: Dek. PF UPJŠ/JSD/14	Course name: Spring S	School for PhD Students	
Course type, scope a Course type: Lectur Recommended cour Per week: Per stud Course method: pre	e rse-load (hours): y period: 4d		
Number of credits: 2			
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:			
Course assessment Total number of asses	ssed students: 121		
	abs n		
	100.0 0.0		
Provides: prof. RND	. Katarína Cechlárová, I	DrSc.	
Date of last modifica	tion: 19.02.2018		
	nteedoc. RNDr. Roman n.c. prof. RNDr. Stanisla	Soták, PhD.Guaranteeprof. RNDr. Mirko Horňák, v Jendroľ, DrSc.	

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 stud Course method: pre	rse-load (hours): ly period:		
Number of credits: 3	30		
Recommended seme	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	ature:		
Course language:			
Course assessment Total number of asse	ssed students: 16		
	N P		
0.0 100.0			
Provides:			
Date of last modifica	ation: 27.02.2018		
	nteedoc. RNDr. Roman Sot h.c. prof. RNDr. Stanislav J	ák, PhD.Guaranteeprof. RNDr. Mirko Horňák, endrol', DrSc.	

University: P. J. Šaf	ărik University in Košice	
Faculty: Faculty of	Science	
Course ID: ÚMV/ Course name: Writing Dissertation Work		
Course type, scope Course type: Recommended cou Per week: Per stu Course method: p	urse-load (hours): dy period:	
Number of credits:	15	
Recommended sem	ester/trimester of the cou	rse:
Course level: III.		
Prerequisities:		
Conditions for cour	rse completion:	
Learning outcomes	:	
Brief outline of the	course:	
Recommended liter	ature:	
Course language:		
Course assessment Total number of ass	essed students: 0	
N P		
0.0 0.0		
Provides:		
Date of last modific	eation: 17.04.2018	
	anteedoc. RNDr. Roman So r.h.c. prof. RNDr. Stanislav	ták, PhD.Guaranteeprof. RNDr. Mirko Horňák, Jendrol' DrSc

CSc.Co-guaranteeDr.h.c. prof. RNDr. Stanislav Jendrol', DrSc.

University: P. J. Šafá	rik University in Koš	lice	
Faculty: Faculty of S	science		
Course ID: KPE/ PgVU/17	Course name: Peda	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	e 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: 12		
abs		n	neabs
100.0	100.0 0.0 0.0		
Provides: PaedDr. R	enáta Orosová, PhD.		
Date of last modific:	ation: 05.02.2018		
Approved: Co-guara CSc.Co-guaranteeDr.			ranteeprof. RNDr. Mirko Horňák,

University: P. J. Šafárik	University in Košice	
Faculty: Faculty of Scie	ence	
Course ID: C KPPaPZ/PsVU/17	Course name: Psychology for University Lecturers	
Course type, scope and Course type: Lecture Recommended course Per week: Per study Course method: prese	e-load (hours): period: 28s	
Number of credits: 5		
Recommended semeste	er/trimester of the course:	
Course level: III.		
Prerequisities:		
Conditions for course of	completion:	
Learning outcomes:		
Brief outline of the cou	irse:	
Recommended literatu	re:	
Course language:		
Course assessment Total number of assesse	ed students: 12	
abs	n	neabs
100.0 0.0 0.0		
Provides: Mgr. Marta D	obrowolska Kulanová, PhD., doc. PhI	Dr. Beata Gajdošová, PhD.
Date of last modification	on: 20.02.2018	
	edoc. RNDr. Roman Soták, PhD.Guar . prof. RNDr. Stanislav Jendrol', DrSc	

University: P. J. Šafárik University in Košice					
Faculty: Faculty of S	Faculty: Faculty of Science				
Course ID: ÚINF/ VYMD/15	F/ Course name: Computational complexity and models				
Course type: Lectur Recommended cour Per week: 2 Per stu	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 credits: 9					
Recommended seme	ster/trimester of the cours	e: 3.			
Course level: III.					
Prerequisities:					
Conditions for cours Written test combined	e completion: d with an oral examination.				
Learning outcomes: Providing en extended backgroung in the area of efficient computations, computational complexity of algorithms, and fundamental time and space complexity classes, hardest complete problems, and about reducibility among problems.					
Brief outline of the course: Basic computational models; relations among different models with respect to their computational complexity; deterministic and nondeterministic computations; basic complexity classes - L, NL, P, NP, PSPACE, NPSPACE; reducibilities of problems; complete languages in basic complexity classes; hierarchy and translation theorems for time and space; relativization; alternating computations and hierarchies.					
 Recommended literature: J.E. Hopcroft, R.Motwani, J.D. Ullman: Introduction to automata theory, languages, and computation, Addison-Wesley, 2007. M. Sipser: Introduction to the Theory of Computation, Thomson, 2nd edition, 2006. S. Arora, B. Barak: Computational Complexity: A Modern Approach, Cambridge Univ. Pess, 2009. C. Calude and J. Hromkovič: Complexity: A Language-Theoretic Point of View, in G. Rozenberg and A. Salomaa, Handbook of Formal Languages II, Springer, 1997. G.Brassard, P.Bradley: Fundamentals of algorithmics, Prentice Hall, 1996. Ch. H. Papadimitriou: Computational Complexity, Addison-Wesley, 1994. D.P.Bovet, P.Crescenzi: Introduction to the theory of complexity, Prentice Hall, 1994. 					
Course language:					
Course assessment Total number of asses	ssed students: 21				
	N P				
	0.0	100.0			

Provides: prof. RNDr. Viliam Geffert, DrSc.

Date of last modification: 20.02.2018

Approved: Co-guaranteedoc. RNDr. Roman Soták, PhD.Guaranteeprof. RNDr. Mirko Horňák, CSc.Co-guaranteeDr.h.c. prof. RNDr. Stanislav Jendrol', DrSc.

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of S	science		
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 cours	;e:	
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: 0		
	abs n		
0.0 0.0			
Provides:		·	
Date of last modific:	ation: 27.02.2018		
	nteedoc. RNDr. Roman Sot h.c. prof. RNDr. Stanislav J	ák, PhD.Guaranteeprof. RNDr. Mirko Horňák, endroľ, DrSc.	

University: P. J. Šafá	rik University in Košice		
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 stue Course method: pr	rse-load (hours): ly period:		
Number of credits:	20		
Recommended seme	ester/trimester of the cours	e:	
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: 0		
	abs n		
0.0 0.0			
Provides:	_		
Date of last modification	ation: 27.02.2018		
	nteedoc. RNDr. Roman Sota h.c. prof. RNDr. Stanislav J	ik, PhD.Guaranteeprof. RNDr. Mirko Horňák, endroľ, DrSc.	

University: P. J. Šafá	rik University in Košice		
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 cour	se:	
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	ssed students: 12		
	abs n		
100.0 0.0			
Provides:			
Date of last modific:	ation: 27.02.2018		
	nteedoc. RNDr. Roman So h.c. prof. RNDr. Stanislav	ák, PhD.Guaranteeprof. RNDr. Mirko Horňák, endroľ, DrSc.	

University: P. J. Šafá	rik University in Košice		
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: pre	rse-load (hours): ly period:		
Number of credits: 1	10		
Recommended seme	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	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		
	nteedoc. RNDr. Roman Sota h.c. prof. RNDr. Stanislav J	ák, PhD.Guaranteeprof. RNDr. Mirko Horňák, endroľ, DrSc.	

University: P. J. Šafárik University in Košice		
Faculty: Faculty of Science		
Course ID: ÚMV/ Course name: Summary of dDZS/14	5	
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	structure defined by the study plan.	
Learning outcomes: Evaluation of student's competences with respec	ct 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. Roman Sot CSc.Co-guaranteeDr.h.c. prof. RNDr. Stanislav J	· · · · · · · · · · · · · · · · · · ·	

University: P. J. Šafá	rik University in Košice	
Faculty: Faculty of S	cience	
Course ID: ÚMV/ dEKO/10	Course name: Enumeratio	n of combinatorial objects
Course type, scope a Course type: Lectur Recommended cour Per week: 4 Per stu Course method: pre	re rse-load (hours): dy period: 56	
Number of credits: 7	,	
Recommended seme	ster/trimester of the cours	e: 2., 4.
Course level: III.		
Prerequisities:		
Conditions for cours A student is evaluated	e completion: d according to an oral exam	ination.
	ed with Pólya's enumeration the number of some mathem	n theory and on special examples sees how to use natical objects.
Enumeration of inject	permutation group. Burns tive functions. Enumeration	ide's Lemma. Pólya's Enumeration Theorem. n of trees. Enumeration of graphs of given order alisations of Pólya's Enumeration Theorem.
Recommended litera F. Harary, E. M. Paln	ture: ner: Graphical Enumeration,	, Academic Press, 1973
Course language: Slovak and English		
Course assessment Total number of asses	ssed students: 2	
	Ν	Р
	0.0	100.0
Provides: prof. RND	r. Mirko Horňák, CSc.	
Date of last modifica	tion: 27.02.2018	
	nteedoc. RNDr. Roman Sotá h.c. prof. RNDr. Stanislav Je	ák, PhD.Guaranteeprof. RNDr. Mirko Horňák, endroľ, DrSc.

University: P. J. Šafá	rik University in Koši	ce
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 cou Per week: Per stud Course method: pre	rse-load (hours): ly period:	
Number of credits: 1	2	
Recommended seme	ster/trimester of the	course: 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		0.0
Provides:		·
Date of last modifica	tion: 27.02.2018	
	nteedoc. RNDr. Roma h.c. prof. RNDr. Stani	n Soták, PhD.Guaranteeprof. RNDr. Mirko Horňák, slav Jendroľ, DrSc.

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:	
Number of credits: 1	2	
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		0.0
Provides:		
Date of last modifica	tion: 27.02.2018	
	nteedoc. RNDr. Roma h.c. prof. RNDr. Stani	n Soták, PhD.Guaranteeprof. RNDr. Mirko Horňák, slav Jendroľ, DrSc.

University: P. J. Šafá	rik University in Košice	
Faculty: Faculty of S	cience	
Course ID: ÚMV/ dKOA/10	Course name: Combinatorial algorithms	
Course type, scope a Course type: Lectu Recommended cou Per week: 3 Per stu Course method: pro	re rse-load (hours): Idy period: 42	
Number of credits: :	5	
Recommended seme	ster/trimester of the co	urse: 2., 4.
Course level: III.		
Prerequisities:		
Conditions for cours Exam	se completion:	
Learning outcomes:		
Brief outline of the o	course:	
Recommended litera	ature:	
Course language: Slovak and English		
Course assessment Total number of asse	ssed students: 14	
	Ν	Р
	0.0	100.0
Provides: RNDr. Má	ria Maceková, PhD.	
Date of last modifica	ntion: 27.02.2018	
	nteedoc. RNDr. Roman S h.c. prof. RNDr. Stanisla	Soták, PhD.Guaranteeprof. RNDr. Mirko Horňák, v Jendroľ, DrSc.

University: P. J. Šafárik University in Košice			
Faculty: Faculty of Science			
Course ID: ÚMV/ dKOM/10	Course name: Combinatorics		
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: 5			
Recommended seme	ster/trimester of the cours	e: 3.	
Course level: III.			
Prerequisities:			
Conditions for cours Oral exam	e completion:		
Learning outcomes:			
infinite combinatoric propertiesand a quest Recommended litera 1. M. Aigner: Combi 2. B. Balcar a P. Štěp 3. B. Bollobás, Comb 4. T. Jech, Set Theory	Generating functions. Inc s. Almost disjoint set system ion of their existence. Some ture: natorial Theory, Springer-Va ánek, Teorie množin, Acade	mia, Praha 2000 rrsity Press, Cambridge 1986	
5. Journal literatura Course language: Slovak and English			
Course assessment Total number of asses	ssed students: 3		
N P		Р	
0.0 100.0			
Provides: Dr.h.c. pro	f. RNDr. Stanislav Jendrol',	DrSc.	
Date of last modification: 27.02.2018			
	nteedoc. RNDr. Roman Sotá n.c. prof. RNDr. Stanislav Je	k, PhD.Guaranteeprof. RNDr. Mirko Horňák, endroľ, DrSc.	

University: P. J. Šafá	rik University in Košice	
Faculty: Faculty of S	cience	
Course ID: ÚMV/ dPCR/12	Course name: Scientific publication registered in the database Math. Reviews or Zentralblatt MATH	
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 cours	e:
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: 9	
	abs n	
100.0 0.0		0.0
Provides:		
Date of last modifica	ation: 27.02.2018	
	nteedoc. RNDr. Roman Sota h.c. prof. RNDr. Stanislav Jo	ák, PhD.Guaranteeprof. RNDr. Mirko Horňák, endroľ, DrSc.

University: P. J. Šafá	rik University in Košice	
Faculty: Faculty of S	cience	
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 stud Course method: pro	rse-load (hours): ly period:	
Number of credits: 2	20	
Recommended seme	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	ature:	
Course language:		
Course assessment Total number of asse	ssed students: 52	
	abs n	
100.0 0.0		
Provides:		
Date of last modifica	ation: 27.02.2018	
	nteedoc. RNDr. Roman Sota h.c. prof. RNDr. Stanislav Jo	ák, PhD.Guaranteeprof. RNDr. Mirko Horňák, endroľ, DrSc.

University: P. J. Šafá	rik University in Košice	
Faculty: Faculty of S	Science	
Course ID: ÚMV/ dPDK/12	MV/ Course name: Presentation of results at a local conference	
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pr	rse-load (hours): ly period:	
Number of credits: 2	2	
Recommended seme	ester/trimester of the cours	Se:
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	ssed students: 19	
abs n		n
100.0 0.0		0.0
Provides:		·
Date of last modific:	ation: 27.02.2018	
	nteedoc. RNDr. Roman Sot h.c. prof. RNDr. Stanislav J	ák, PhD.Guaranteeprof. RNDr. Mirko Horňák, endroľ, DrSc.

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l conference with
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0.0

University: P. J. Šafárik University in Košice		
Faculty: Faculty of Science		
Course ID: ÚMV/ dPLT/10	Course name: Polyhedral theory	
Course type, scope a Course type: Lectu Recommended cou Per week: 4 Per stu Course method: pro-	re rse-load (hours): ıdy period: 56	
Number of credits: 7	7	
Recommended seme	ester/trimester of the cours	e: 4.
Course level: III.		
Prerequisities:		
Conditions for cour Oral exam.	se completion:	
Learning outcomes: Mastered basic know		of convex polyhedra on up-to-date level
formula. Steinitz the	surfaces. Combinatorial str	ucture of polyhedra. Polyhedral graphs. Euler's hedra. Schlegel's diagrams. Gale's diagrams. Face nal polyhedra.
 B. Grunbaum: Con E. Jucovič: Converting 	mour: Polyhedral Combinat nvex Polytopes, (2-nd edition x polytopes. Veda, Bratislav tures on Polytopes, Springer	
Course language: Slovak and English		
Course assessment Total number of asse	essed students: 7	
	Ν	Р
	0.0 100.0	
Provides: Dr.h.c. pro	f. RNDr. Stanislav Jendrol',	DrSc.
Date of last modifica	ation: 27.02.2018	
	nteedoc. RNDr. Roman Sotá h.c. prof. RNDr. Stanislav Je	k, PhD.Guaranteeprof. RNDr. Mirko Horňák, endroľ, DrSc.

University: P. J. Šafárik University in Košice			
Faculty: Faculty of Science			
Course ID: ÚMV/ dPMK/10	ourse ID: ÚMV/ Course name: Probability method in combinatorics		
Course type: Lectur Recommended cour Per week: 4 Per stu	Course type, scope and the method: Course type: Lecture Recommended course-load (hours): Per week: 4 Per study period: 56 Course method: present		
Number of credits: 7	,		
Recommended seme	ster/trimester of the course	e: 2., 4.	
Course level: III.			
Prerequisities:			
Conditions for cours based on the oral exa	-		
Learning outcomes: Introduction to the ra graph theory and com	• • •	nd applications of the probabilistic method in	
 graph) 2. Probabilistic Meth Erdös-Ko-Rado theor 3. Linearity of Expect 4. Alterations (Markot 5. The Second Momentation 	nod - First Moment Princip rem, pairs of sets) tation (Hamiltonian graphs, ov's inequality, independent s	sets, high girth and high chromatic number) threshold functions, the clique number)	
2. M. Molloy, B. Ree	r: The Probabilistic Method	Probabilistic Method, Springer, 2002	
Course language: Slovak			
Course assessment Total number of asses	ssed students: 19		
	N	Р	
	0.0 100.0		
Provides: RNDr. Igor	Fabrici, Dr. rer. nat.		
Date of last modifica	tion: 07.03.2018		
	nteedoc. RNDr. Roman Sotá n.c. prof. RNDr. Stanislav Je	k, PhD.Guaranteeprof. RNDr. Mirko Horňák, ndroľ, DrSc.	

University: P. J. Šafá	rik University in Košice	
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 stuc Course method: pro	rse-load (hours): ly period:	
Number of credits: 2	2	
Recommended seme	ester/trimester of the cour	se:
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: 4	
abs n		
100.0 0.0		
Provides:		
Date of last modifica	ation: 27.02.2018	
	nteedoc. RNDr. Roman Sot h.c. prof. RNDr. Stanislav .	ák, PhD.Guaranteeprof. RNDr. Mirko Horňák, lendroľ, DrSc.

University: P. J. Šafá	rik University in Košice	
Faculty: Faculty of S	science	
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 cours	Se:
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. Roman Sot h.c. prof. RNDr. Stanislav J	ák, PhD.Guaranteeprof. RNDr. Mirko Horňák, endroľ, DrSc.

University: P. J. Šafá	rik University in Košice	
Faculty: Faculty of 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 stud Course method: pre	rse-load (hours): ly period:	
Number of credits: 2	2	
Recommended seme	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	ature:	
Course language:		
Course assessment Total number of asse	ssed students: 131	
abs n		
100.0 0.0		
Provides:		
Date of last modifica	ation: 27.02.2018	
	nteedoc. RNDr. Roman Sota h.c. prof. RNDr. Stanislav J	ik, PhD.Guaranteeprof. RNDr. Mirko Horňák, endroľ, DrSc.

University: P. J. Šafá	rik University in Košice	
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: pre	rse-load (hours): ly period:	
Number of credits: 3	3	
Recommended seme	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	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	
	nteedoc. RNDr. Roman Sota h.c. prof. RNDr. Stanislav J	ák, PhD.Guaranteeprof. RNDr. Mirko Horňák, endroľ, DrSc.

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of Science			
Course ID: ÚMV/ dSVG/12	ÚMV/ Course name: Co-researcher of an internal grant		
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pre	rse-load (hours): ly period:		
Number of credits: 1	0		
Recommended seme	ster/trimester of the cours	e:	
Course level: III.			
Prerequisities:			
Conditions for cours	se completion:		
Learning outcomes:	Learning outcomes:		
Brief outline of the c	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. Roman Sota h.c. prof. RNDr. Stanislav J	ik, PhD.Guaranteeprof. RNDr. Mirko Horňák, endroľ, DrSc.	

University: P. J. Šafá	irik University in Košice	
Faculty: Faculty of S	Science	
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: pr	rse-load (hours): ly period:	
Number of credits: 2	2	
Recommended seme	ester/trimester of the cours	se:
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: 49	
abs n		
100.0 0.0		
Provides:		
Date of last modific:	ation: 27.02.2018	
	nteedoc. RNDr. Roman Sot h.c. prof. RNDr. Stanislav J	ák, PhD.Guaranteeprof. RNDr. Mirko Horňák, rendroľ, DrSc.

University: P. J. Šafárik University in Košice			
Faculty: Faculty of Science			
Course ID: ÚMV/ dTGF/10	Course name: Graph theory		
Course type: Lectur Recommended cour	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: 5			
Recommended seme	ster/trimester of the cours	e: 1.	
Course level: III.			
Prerequisities:			
Conditions for cours Oral examination	e completion:		
Learning outcomes: Knowledge some of l scietific work.	basic and also up-to-date kn	owledge about graph theory. Ability of a creative	
Introduction to the th	ings of graphs and their generation of light graphs. Color	eralizations. Structural properties of plane graphs. urings of plane graphs. Cyclic colourings. Parity plourings. Ramsey theory for graphs. Applications	
 Recommended literature: 1. J. A. Bondy and U.S.R. Murty, Graph Theory, Springer-Verlag, 2008 2. J.Bang-Jensen and G. Gutin: Digraphs: Theory, Algorithms and Applications, Springer-Verlag London, 2001 3. R. Diestel: Graph Theory, Springer-Verlag, New York, 1997 4. Časopisecká literatúra 			
Course language: Slovak and English			
Course assessment Total number of assessed students: 45			
N P			
0.0 100.0			
Provides: doc. RNDr. Roman Soták, PhD., prof. RNDr. Mirko Horňák, CSc., Dr.h.c. prof. RNDr. Stanislav Jendrol', DrSc., doc. RNDr. Jaroslav Ivančo, CSc., prof. RNDr. Tomáš Madaras, PhD.			
Date of last modification: 27.02.2018			
Approved: Co-guaranteedoc. RNDr. Roman Soták, PhD.Guaranteeprof. RNDr. Mirko Horňák, CSc.Co-guaranteeDr.h.c. prof. RNDr. Stanislav Jendrol', DrSc.			

-	rik University in Košice	
Faculty: Faculty of S	cience	
Course ID: ÚMV/ dTGR/10	Course name: Group theory	
Course type, scope a Course type: Lectur Recommended cour Per week: 4 Per stu Course method: pre	e rse-load (hours): dy period: 56	
Number of credits: 7	,	
Recommended seme	ster/trimester of the cours	se: 4.
Course level: III.		
Prerequisities:		
Conditions for cours written and oral exan	-	
Learning outcomes: The students learn ba parts of mathematics	-	f group theory and their applications in various
subgroups, factoriza	es, abstract groups. Subgro ttion. Classification of fi index, Burnside's lemma,	oups, orders of elements, cyclic groups. Normal initely generated Abelian groups. Groups of Pólya's theorem. Sylow's subgroups, p-groups.
L. Beran: Grupy a sv D.A.R. Wallace: Gro	hoff: Algebra, Alfa Bratisla azy, SNTL Praha, 1974 ups,rings and fields, Spring	
Course language: Slovak or English		
Course assessment Total number of asse	ssed students: 44	
	N	Р
0.0 100.0		
Provides: doc. RNDr	. Miroslav Ploščica, CSc.	
Date of last modifica	tion: 27.02.2018	
	nteedoc. RNDr. Roman Sot h.c. prof. RNDr. Stanislav J	ák, PhD.Guaranteeprof. RNDr. Mirko Horňák, endroľ, DrSc.

University: P. J. Šafá	rik University in Košice	
Faculty: Faculty of S	cience	
Course ID: ÚMV/ dTMT/10	Course name: Matroid theory	
Course type, scope a Course type: Lectur Recommended cou Per week: 4 Per stu Course method: pre	re rse-load (hours): dy period: 56	
Number of credits: 7	1	
Recommended seme	ster/trimester of the cours	e: 1., 3.
Course level: III.		
Prerequisities:		
Conditions for cours A student is evaluate	e completion: d according to an oral exam	ination.
	inted with special parts of n plines of discrete mathemat	natroid theory and with possibilities how to use
homeomorphisms ver	ion, minor of a matroid. C rsus matroid minors. Planar ary matroids. Block designs	Connected matroids. Whitney's Theorem. Graph graphs and their duals. Representation of a matroid s versus matroids. Extremal problems in matroids
	nture: Did Theory, Academic Press Theory, Oxford University	
Course language: Slovak and English		
Course assessment Total number of asse	ssed students: 10	
N P		Р
10.0 90.0		
Provides: prof. RND	r. Mirko Horňák, CSc.	
Date of last modifica	ntion: 27.02.2018	
	nteedoc. RNDr. Roman Sot h.c. prof. RNDr. Stanislav J	ák, PhD.Guaranteeprof. RNDr. Mirko Horňák, endroľ, DrSc.

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of S	cience		
Course ID: ÚMV/ dTPG/14	5 1		
Course type, scope a Course type: Lectur Recommended cour Per week: 4 Per stu Course method: pre	e rse-load (hours): dy period: 56		
Number of credits: 7	,		
Recommended seme	ster/trimester of the cours	e: 1., 3.	
Course level: III.			
Prerequisities:			
Conditions for cours	e completion:		
Learning outcomes: To obtain the knowle	dge on basic and advanced	topics related to planar and plane graphs.	
formula and its corol	of the plane. Planar and pla llaries. Local structure of p	ine graphs. Characterizations of planarity. Euler lanar and plane graphs, the discharging method plane graphs. Separators in planar graphs.	
S. Jendrol', H-J. Voss	a: Planar graphs: Theory an	d Algorithms, Dover Publications, 2008 embedded in the plane - A survey, Discrete	
Course language: Slovak and English			
Course assessment Total number of asses	ssed students: 0		
N P		Р	
0.0 0.0			
Provides: prof. RND	r. Tomáš Madaras, PhD.		
Date of last modifica	tion: 27.02.2018		
	nteedoc. RNDr. Roman Sota n.c. prof. RNDr. Stanislav Jo	ik, PhD.Guaranteeprof. RNDr. Mirko Horňák, endrol', DrSc.	

University: P. J. Šafá	rik University in Košice	
Faculty: Faculty of S	Science	
Course ID: ÚMV/ dTTG/10	ÚMV/ Course name: Topological graph theory	
Course type, scope a Course type: Lectu Recommended cou Per week: 4 Per stu Course method: pro	re rse-load (hours): ıdy period: 56	
Number of credits: 7	7	
Recommended seme	ester/trimester of the cours	e: 1., 3.
Course level: III.		
Prerequisities:		
Conditions for cour Skúška	se completion:	
Learning outcomes: Oboznámiť sa so zák		kami Topologickej teórie grafov.
Farbenia grafov na p	ny. Vnorenia. Napäťové grafy	y a pokrývajúce priestory. Rod grafov. Rody grúp. onfigurácie. Reprezentativita grafov na plochách. urácie pre plochy.
2. B. Mohar, C., Tho 2001	cker: Topological Graph The	eory, John Wiley and Sons, New York, 1987 ,The Johns Hopkins University Press, Baltimore, ag, Berlin, 1974
Course language: Slovak or English		
Course assessment Total number of asse	essed students: 25	
	Ν	Р
0.0 100.0		
Provides: doc. RND	. Roman Soták, PhD.	
Date of last modifica	ation: 27.02.2018	
	nteedoc. RNDr. Roman Sotá h.c. prof. RNDr. Stanislav Je	k, PhD.Guaranteeprof. RNDr. Mirko Horňák, endroľ, DrSc.

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of S	cience		
Course ID: ÚMV/ dTZV/10	Course name: Lattice Theory		
Course type, scope a Course type: Lectur Recommended cou Per week: 2 Per stu Course method: pre	re rse-load (hours): dy period: 28		
Number of credits: 5	5		
Recommended seme	ster/trimester of the cours	e: 2., 4.	
Course level: III.			
Prerequisities:			
Conditions for cours Awarded according to	se completion:		
Learning outcomes: The students learn ba them in various parts	-	f Lattice theory and gain the ability to apply	
	dular lattices, Boolean algeb c. Completeness and completene	oras. Ideals, reprezentation of distibutive lattices ions. Algebraic properties of lattices, congruence	
B. A. Davey, H. A. P	attice Theory (2nd edition),	ces and order, Cambridge University Press 1990	
Course language: Slovak and English			
Course assessment Total number of asse	ssed students: 6		
	N P		
0.0 100.0			
Provides: doc. RNDr	. Miroslav Ploščica, CSc.		
Date of last modifica	tion: 27.02.2018		
	nteedoc. RNDr. Roman Sotá h.c. prof. RNDr. Stanislav Je	k, PhD.Guaranteeprof. RNDr. Mirko Horňák, endroľ, DrSc.	

Faculty: Faculty of		ce	
J	Science		
Course ID: ÚMV/ dUAL/10	Course name: Universal algebra		
Course type, scope Course type: Lect Recommended co Per week: 3 Per st Course method: p	ure urse-load (hours): cudy period: 42		
Number of credits:	5		
Recommended sem	ester/trimester of the	course: 1., 3.	
Course level: III.			
Prerequisities:			
Conditions for cou Exam consisting of	rse completion: a written test and of a c	oral examination.	
		ge in universal algebra and in its generalization; to be g concrete situations.	
theorems. Applicat endomorphism more	ion to abstract automanoids of algebraic stru	es. Congruences, homomorphism and isomorphism ata and other structures. Automorphism groups and actures, abstract and concrete representation problem.	
•	1	et. Direct and inverse limit of algebras. Terms. Free s. Structures and 1st order logic.	
algebras. Birkhoff t Recommended liter G. Grätzer: Univers S.Burris, H.P.Sanka online http://orion.m V.P.Snaith: Groups, Singapore, 2003. M. Kolibiar a kol.:	heorems about varieties rature: al Algebra, 2nd Edition ppanavar: A Course in nath.iastate.edu/cliff/Bu Rings and Galois Theo	s. Structures and 1st order logic. n, Springer Verlag, Berlin - New York, 2008. Universal Algebra. Springer-Verlag, 1981; urrisSanka.pdf. bry, Word Scientific Publ. Co.,New Jersey-London- ciplíny, Bratislava, 1992.	
algebras. Birkhoff t Recommended liter G. Grätzer: Univers S.Burris, H.P.Sanka online http://orion.m V.P.Snaith: Groups, Singapore, 2003. M. Kolibiar a kol.:	heorems about varieties rature: al Algebra, 2nd Edition ppanavar: A Course in nath.iastate.edu/cliff/Bu Rings and Galois Theo Algebra a príbuzné disc	s. Structures and 1st order logic. n, Springer Verlag, Berlin - New York, 2008. Universal Algebra. Springer-Verlag, 1981; urrisSanka.pdf. bry, Word Scientific Publ. Co.,New Jersey-London- ciplíny, Bratislava, 1992.	
algebras. Birkhoff t Recommended liter G. Grätzer: Univers S.Burris, H.P.Sanka online http://orion.m V.P.Snaith: Groups, Singapore, 2003. M. Kolibiar a kol.: A B. Jónsson: Topics : Course language:	heorems about varieties rature: al Algebra, 2nd Edition ppanavar: A Course in nath.iastate.edu/cliff/Bu Rings and Galois Theo Algebra a príbuzné disc in Universal Algebra, S	s. Structures and 1st order logic. n, Springer Verlag, Berlin - New York, 2008. Universal Algebra. Springer-Verlag, 1981; urrisSanka.pdf. ory, Word Scientific Publ. Co.,New Jersey-London- ciplíny, Bratislava, 1992.	
algebras. Birkhoff t Recommended liter G. Grätzer: Univers S.Burris, H.P.Sanka online http://orion.r V.P.Snaith: Groups, Singapore, 2003. M. Kolibiar a kol.: A B. Jónsson: Topics : Course language: Slovak and English Course assessment	heorems about varieties rature: al Algebra, 2nd Edition ppanavar: A Course in nath.iastate.edu/cliff/Bu Rings and Galois Theo Algebra a príbuzné disc in Universal Algebra, S	s. Structures and 1st order logic. n, Springer Verlag, Berlin - New York, 2008. Universal Algebra. Springer-Verlag, 1981; urrisSanka.pdf. ory, Word Scientific Publ. Co.,New Jersey-London- ciplíny, Bratislava, 1992.	
algebras. Birkhoff t Recommended liter G. Grätzer: Univers S.Burris, H.P.Sanka online http://orion.r V.P.Snaith: Groups, Singapore, 2003. M. Kolibiar a kol.: A B. Jónsson: Topics : Course language: Slovak and English Course assessment	heorems about varieties rature: al Algebra, 2nd Edition ppanavar: A Course in nath.iastate.edu/cliff/Bu Rings and Galois Theo Algebra a príbuzné disc in Universal Algebra, S	s. Structures and 1st order logic. n, Springer Verlag, Berlin - New York, 2008. Universal Algebra. Springer-Verlag, 1981; urrisSanka.pdf. ory, Word Scientific Publ. Co.,New Jersey-London- ciplíny, Bratislava, 1992. Springer-Verlag, 1972.	
algebras. Birkhoff t Recommended liter G. Grätzer: Univers S.Burris, H.P.Sanka online http://orion.m V.P.Snaith: Groups, Singapore, 2003. M. Kolibiar a kol.: A B. Jónsson: Topics : Course language: Slovak and English Course assessment Total number of ass	heorems about varieties rature: al Algebra, 2nd Edition ppanavar: A Course in nath.iastate.edu/cliff/Bu Rings and Galois Theo Algebra a príbuzné disc in Universal Algebra, S	s. Structures and 1st order logic. n, Springer Verlag, Berlin - New York, 2008. Universal Algebra. Springer-Verlag, 1981; urrisSanka.pdf. ory, Word Scientific Publ. Co.,New Jersey-London- biplíny, Bratislava, 1992. opringer-Verlag, 1972. P 100.0	

Approved: Co-guaranteedoc. RNDr. Roman Soták, PhD.Guaranteeprof. RNDr. Mirko Horňák, CSc.Co-guaranteeDr.h.c. prof. RNDr. Stanislav Jendrol', DrSc.

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of S	cience		
Course ID: ÚMV/ Course name: Ordered algebraic structures			
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 credits: 5	5		
Recommended seme	ster/trimester of the cours	e: 2., 4.	
Course level: III.			
Prerequisities:			
Conditions for cours examination	e completion:		
	of algebra, to distend and ge	ebraic structures connecting them with neralize; application on concrete exercises and	
and orthogonality, or	nearly ordered, lattice order	red groups. Convex subgroups, absolute value nedean ordered structures. Partially ordered and	
T.S.Blyth: Lattices an E.Harsheim: Orderec G.Grätzer: Universal	dered algebraic systems, Per	ures, Springer Verlag, London, 2005.	
Course language: Slovak and English			
Course assessment Total number of asse	ssed students: 11		
	N P		
0.0 100.0			
Provides: prof. RND	r. Danica Studenovská, CSc.		
Date of last modifica	tion: 27.02.2018		
	nteedoc. RNDr. Roman Sotá h.c. prof. RNDr. Stanislav Je	k, PhD.Guaranteeprof. RNDr. Mirko Horňák, endroľ, DrSc.	

University: P. J. Šafá	rik University in Košice	
Faculty: Faculty of S	cience	
Course ID: ÚMV/ dVBP/12	D: ÚMV/ 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 co	urse:
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		
100.0 0.0		
Provides:		
Date of last modifica	ation: 27.02.2018	
	nteedoc. RNDr. Roman h.c. prof. RNDr. Stanisla	Soták, PhD.Guaranteeprof. RNDr. Mirko Horňák, v Jendroľ, DrSc.

University: P. J. Šafá	irik University in Košice	
Faculty: Faculty of S	Science	
Course ID: ÚMV/ dVMK/14	IV/ Course name: Presentation of results at an international conference	
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pr	rse-load (hours): ły period:	
Number of credits:	6	
Recommended seme	ester/trimester of the cours	se:
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: 71	
abs n		
100.0 0.0		
Provides:		
Date of last modific:	ation: 27.02.2018	
	nteedoc. RNDr. Roman Sot h.c. prof. RNDr. Stanislav J	ák, PhD.Guaranteeprof. RNDr. Mirko Horňák, endroľ, DrSc.

University: P. J. Šafá	rik 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 stud Course method: pr	rse-load (hours): ly period:	
Number of credits: 2	2	
Recommended seme	ester/trimester of the cours	e:
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. Roman Sot h.c. prof. RNDr. Stanislav J	ák, PhD.Guaranteeprof. RNDr. Mirko Horňák, endroľ, DrSc.

University: P. J. Šafá	rik University in Košice	
Faculty: Faculty of S	cience	
Course ID: ÚMV/ dVPS/12	: ÚMV/ 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: (5	
Recommended seme	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	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	
	nteedoc. RNDr. Roman Sota h.c. prof. RNDr. Stanislav J	ák, PhD.Guaranteeprof. RNDr. Mirko Horňák, endroľ, DrSc.

University: P. J. Šafá	rik University in Košice	
Faculty: Faculty of S	cience	
Course ID: ÚMV/ dVTGa/10	Course name: Selected topics in graph theory I	
Course type, scope a Course type: Lectur Recommended cou Per week: 2 Per stu Course method: pre	re rse-load (hours): Idy period: 28	
Number of credits: 7	7	
Recommended seme	ster/trimester of the cours	e: 2.
Course level: III.		
Prerequisities:		
Conditions for cours	se completion:	
Learning outcomes: Mastering some of th	ne recent trends in graph the	Dry.
Brief outline of the c Selected topics from	course: up-to-date graph theory	
Recommended litera Recent publications f	ature: from international scientific	journals.
Course language: Slovak and English		
Course assessment Total number of asse	ssed students: 22	
N P		
0.0 100.0		
	· · · ·	RNDr. Mirko Horňák, CSc., Dr.h.c. prof. RNDr. nčo, CSc., prof. RNDr. Tomáš Madaras, PhD.
Date of last modifica	ntion: 27.02.2018	
Approved: Co-guara	nteedoc. RNDr. Roman Sotá	ik, PhD.Guaranteeprof. RNDr. Mirko Horňák,

CSc.Co-guaranteeDr.h.c. prof. RNDr. Stanislav Jendrol', DrSc.

University: P. J. Šafárik University in Ko	lice		
Faculty: Faculty of Science			
Course ID: ÚMV/ Course name: Sel dVTGb/10	Course name: Selected topics in graph theory II		
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 credits: 7 Recommended semester/trimester of th			
Course level: III.			
Prerequisities:			
Conditions for course completion: Oral examination			
Learning outcomes: Knowledge about up-to-date trends in th	graph theory.		
Brief outline of the course: Selected topics from up-to-date graph the	ory.		
Recommended literature: Recent literature from international scier	ific journals		
Course language: Slovak and English			
Course assessment Total number of assessed students: 24			
N P			
0.0 100.0			
	., prof. RNDr. Mirko Horňák, CSc., Dr.h.c. prof. RNDr. ica Studenovská, CSc., doc. RNDr. Jaroslav Ivančo,		
Date of last modification: 27.02.2018			

Approved: Co-guaranteedoc. RNDr. Roman Soták, PhD.Guaranteeprof. RNDr. Mirko Horňák, CSc.Co-guaranteeDr.h.c. prof. RNDr. Stanislav Jendrol', DrSc.

University: P. J. Šafárik University i	n Košice	
Faculty: Faculty of Science		
Course ID: ÚMV/ Course name: Obtaining of a mobility grant		
Course type, scope and the method Course type: Recommended course-load (hours Per week: Per study period: Course method: present		
Number of credits: 10		
Recommended semester/trimester	of the course:	
Course level: III.		
Prerequisities:		
Conditions for course completion:		
Learning outcomes:		
Brief outline of the course:		
Recommended literature:		
Course language:		
Course assessment Total number of assessed students: 2		
abs n		
100.0 0.0		
Provides:		
Date of last modification: 27.02.201	18	

CSc.Co-guaranteeDr.h.c. prof. RNDr. Stanislav Jendrol', DrSc.

University: P. J. Šafa	árik University in Košice	
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 stud Course method: pr	ırse-load (hours): dy period:	
Number of credits:	4	
Recommended sem	ester/trimester of the co	ırse:
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		
100.0 0.0		
Provides:		
Date of last modific	ation: 27.02.2018	
	anteedoc. RNDr. Roman S h.c. prof. RNDr. Stanisla	oták, PhD.Guaranteeprof. RNDr. Mirko Horňák, v Jendroľ, DrSc.