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University: P. J. Šafá	rik University in Košice	
Faculty: Faculty of S	cience	
Course ID: ÚMV/ dALG/10	Course name: Algebra	
Course type, scope a Course type: Lectu Recommended cou Per week: 2 Per stu Course method: pro	re rse-load (hours): Idy period: 28	
Number of ECTS credits: 6		
Recommended semester/trimester of the course: 2., 4.		
Course level: III.		
Prerequisities:		
Conditions for cours passing the exam	se completion:	
	n a deeper knowledge abour a) and their applications	at the most important algebraic stuctures (group,ring, s in various disciplines of mathematics as well as
Brief outline of the of Groups, rings, fields		lois groups, Boolean algebras and lattices.
2. J. J. Rotman: Adv		
Course language: Slovak or English		
Notes:		
Course assessment Total number of assessed students: 19		
	Ν	Р
	0.0	100.0
Provides: doc. RND	. Miroslav Ploščica, CSc.	, prof. RNDr. Danica Studenovská, CSc.
Date of last modifica	ation: 24.03.2023	

	árik University in Košice	
Faculty: Faculty of S	Science	
Course ID: ÚMV/ COK/22	Course name: Certified tr	aining course
Course type, scope a Course type: Recommended cou Per week: Per stue Course method: pr	rse-load (hours): dy period:	
Number of ECTS credits: 4		
Recommended sem	ester/trimester of the cours	e:
Course level: III.	<u>-</u>	
Prerequisities:		
Conditions for cour	se completion.	
Completion of a cert Learning outcomess The PhD student act work and familiarize He confronts his own	quires up-to-date scientific less himself with the methodo	burse. cnowledge, develops the capabilities of scientific logies of making scientific knowledge available other course participants, develops the abilities of
Completion of a cert Learning outcomess The PhD student act work and familiarize He confronts his own	quires up-to-date scientific kes himself with the methodo n knowledge and skills with e given scientific field.	knowledge, develops the capabilities of scientific logies of making scientific knowledge available.
Completion of a cert Learning outcomess The PhD student act work and familiarize He confronts his own peer discussion in the	quires up-to-date scientific kes himself with the methodo n knowledge and skills with e given scientific field.	knowledge, develops the capabilities of scientific logies of making scientific knowledge available.
Completion of a cert Learning outcomess The PhD student acc work and familiarize He confronts his own peer discussion in the Brief outline of the	quires up-to-date scientific kes himself with the methodo n knowledge and skills with e given scientific field.	knowledge, develops the capabilities of scientific logies of making scientific knowledge available.
Completion of a cert Learning outcomess The PhD student act work and familiarize He confronts his own peer discussion in the Brief outline of the Recommended liter	quires up-to-date scientific kes himself with the methodo n knowledge and skills with e given scientific field.	knowledge, develops the capabilities of scientific logies of making scientific knowledge available.
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Completion of a cert Learning outcomess The PhD student act work and familiarize He confronts his own peer discussion in th Brief outline of the Recommended liter Course language: Notes: Course assessment	quires up-to-date scientific kes himself with the methodo n knowledge and skills with e given scientific field. course: ature:	knowledge, develops the capabilities of scientific logies of making scientific knowledge available.
Completion of a cert Learning outcomess The PhD student act work and familiarize He confronts his own peer discussion in th Brief outline of the Recommended liter Course language: Notes: Course assessment	quires up-to-date scientific kes himself with the methodo n knowledge and skills with e given scientific field. course: ature:	nowledge, develops the capabilities of scientific logies of making scientific knowledge available. other course participants, develops the abilities of
Completion of a cert Learning outcomess The PhD student act work and familiarize He confronts his own peer discussion in th Brief outline of the Recommended liter Course language: Notes: Course assessment	quires up-to-date scientific kes himself with the methodo n knowledge and skills with e given scientific field. course: ature: essed students: 0 abs	n
Completion of a cert Learning outcomess The PhD student act work and familiarize He confronts his own peer discussion in th Brief outline of the Recommended liter Course language: Notes: Course assessment Total number of asse	quires up-to-date scientific kes himself with the methodo n knowledge and skills with e given scientific field. course: ature: essed students: 0 abs 0.0	n

	rik University in Košice	
Faculty: Faculty of S	cience	
Course ID: ÚMV/ dCDC/22	Course name: Citation in S	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 ECTS credits: 2		
Recommended seme	ester/trimester of the course	e:
Course level: III.		
Prerequisities:		
Conditions for cours Citation in a national	1	
•	ed on the ability to formula	very well-founded scientific knowledge in the ate research questions, to reflect on a scientific
source demonstrates contribution to scient	the competence to commutific knowledge, at the higher	ledge. At the same time, a citation in an indexed unicate new knowledge, which is a significant st expert level.
source demonstrates contribution to scient Brief outline of the c	the competence to commutific knowledge, at the higher	unicate new knowledge, which is a significant
source demonstrates contribution to scient Brief outline of the c Recommended liter	the competence to commutific knowledge, at the higher	unicate new knowledge, which is a significant
source demonstrates contribution to scient Brief outline of the o Recommended liters Course language:	the competence to commutific knowledge, at the higher	unicate new knowledge, which is a significant
source demonstrates contribution to scient Brief outline of the o Recommended liters Course language: Notes:	the competence to commutific knowledge, at the higher	unicate new knowledge, which is a significant
source demonstrates contribution to scient Brief outline of the o Recommended liters Course language:	the competence to commutific knowledge, at the higher course: ature:	unicate new knowledge, which is a significant
source demonstrates contribution to scient Brief outline of the of Recommended liters Course language: Notes: Course assessment	the competence to commutific knowledge, at the higher course: ature:	unicate new knowledge, which is a significant
source demonstrates contribution to scient Brief outline of the of Recommended liters Course language: Notes: Course assessment	the competence to commutific knowledge, at the higher course: ature: ssed students: 0	unicate new knowledge, which is a significant st expert level.
source demonstrates contribution to scient Brief outline of the of Recommended liters Course language: Notes: Course assessment	the competence to commutific knowledge, at the higher course: ature: ssed students: 0 abs	n
source demonstrates contribution to scient Brief outline of the of Recommended liters Course language: Notes: Course assessment Total number of asse	the competence to commutific knowledge, at the higher course: ature: ssed students: 0 abs 0.0	n

-	rik University in Košice	
Faculty: Faculty of Science		
Course ID: ÚMV/ dCZC/22Course name: Citation in international scientific journal		
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: 4	
Recommended seme	ster/trimester of the cours	Se:
Course level: III.		
Prerequisities:		
Conditions for cours Obtained citation in a	se completion: a foreign scientific journal.	
researched field, bas problem in such a wa source demonstrates contribution to scient	ed on the ability to formulay that generates new know	very well-founded scientific knowledge in the late research questions, to reflect on a scientific vledge. At the same time, a citation in an indexed nunicate new knowledge, which is a significant est expert level
Brief outline of the course:		
	ourse:	
Recommended litera		
Recommended litera		
Recommended litera Course language:	ature:	
Recommended litera Course language: Notes: Course assessment	ature:	n
Recommended litera Course language: Notes: Course assessment	ssed students: 0	
Recommended litera Course language: Notes: Course assessment	ssed students: 0 abs	n
Recommended litera Course language: Notes: Course assessment Total number of asse	ssed students: 0 abs 0.0	n

University: P. J. Šafárik University in Košice			
Faculty: Faculty of Science			
Course ID: ÚMV/ dCMG/22Course name: Citation in monograph			
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present			
Number of ECTS cr	Number of ECTS credits: 8		
Recommended seme	ster/trimester of the cours		
Course level: III.			
Prerequisities:			
Conditions for cours Obtained citation reg	se completion: istered in SCI or Scopus.		
researched field, bas problem in such a wa source demonstrates contribution to scient	ed on the ability to formul ay that generates new know the competence to comm fific knowledge, at the highe	very well-founded scientific knowledge in the late research questions, to reflect on a scientific reledge. At the same time, a citation in an indexed unicate new knowledge, which is a significant est expert level.	
Brief outline of the c	Brief outline of the course:		
Recommended literature:			
Recommended litera	iture:		
Recommended litera Course language:	iture:		
	nture:		
Course language:			
Course language: Notes: Course assessment		n	
Course language: Notes: Course assessment	ssed students: 0	n 0.0	
Course language: Notes: Course assessment	ssed students: 0 abs		
Course language: Notes: Course assessment Total number of asse	ssed students: 0 abs 0.0		

Eagultan Eage-14 CO	University: P. J. Šafárik University in Košice		
Faculty: Faculty of S	science		
Course ID: ÚMV/ dSMP/22Course name: Co-investigator of international project			
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: 15		
Recommended seme	ester/trimester of the cours	e:	
Course level: III.			
Prerequisities:			
Conditions for cours Membership in the re	se completion: esearch team of an internation	onal project.	
Active involvement	by solving a specific task	within a team of international project solvers	
The PhD student der task, adhere to the ti experience from the creation of measurab	nonstrates the ability to wo me schedule and fulfill the implementation of an inter le outputs, grant funding of	within a team of international project solvers. rk in a team, take responsibility for the assigned project outputs. The PhD student gains personal rnational project, participation in its key stages, science.	
The PhD student der task, adhere to the ti experience from the creation of measurab Brief outline of the c	nonstrates the ability to wo me schedule and fulfill the implementation of an inter le outputs, grant funding of course:	rk in a team, take responsibility for the assigned project outputs. The PhD student gains personal rnational project, participation in its key stages,	
The PhD student der task, adhere to the ti experience from the creation of measurab Brief outline of the c Recommended litera	nonstrates the ability to wo me schedule and fulfill the implementation of an inter le outputs, grant funding of course:	rk in a team, take responsibility for the assigned project outputs. The PhD student gains personal rnational project, participation in its key stages,	
The PhD student der task, adhere to the ti experience from the creation of measurab Brief outline of the c Recommended litera Course language:	nonstrates the ability to wo me schedule and fulfill the implementation of an inter le outputs, grant funding of course:	rk in a team, take responsibility for the assigned project outputs. The PhD student gains personal rnational project, participation in its key stages,	
The PhD student der task, adhere to the ti experience from the creation of measurab Brief outline of the c Recommended litera Course language: Notes:	nonstrates the ability to wo me schedule and fulfill the implementation of an inter le outputs, grant funding of course:	rk in a team, take responsibility for the assigned project outputs. The PhD student gains personal rnational project, participation in its key stages,	
The PhD student der task, adhere to the ti experience from the creation of measurab Brief outline of the c Recommended litera Course language:	nonstrates the ability to wo me schedule and fulfill the implementation of an inter- le outputs, grant funding of course: ature:	rk in a team, take responsibility for the assigned project outputs. The PhD student gains personal rnational project, participation in its key stages,	
The PhD student der task, adhere to the ti experience from the creation of measurab Brief outline of the of Recommended litera Course language: Notes: Course assessment	nonstrates the ability to wo me schedule and fulfill the implementation of an inter- le outputs, grant funding of course: ature:	rk in a team, take responsibility for the assigned project outputs. The PhD student gains personal rnational project, participation in its key stages,	
The PhD student der task, adhere to the ti experience from the creation of measurab Brief outline of the of Recommended litera Course language: Notes: Course assessment	nonstrates the ability to wo me schedule and fulfill the implementation of an inter- le outputs, grant funding of course: ature: ssed students: 2	rk in a team, take responsibility for the assigned project outputs. The PhD student gains personal rnational project, participation in its key stages, science.	
The PhD student der task, adhere to the ti experience from the creation of measurab Brief outline of the of Recommended litera Course language: Notes: Course assessment	nonstrates the ability to wo me schedule and fulfill the implementation of an inter- le outputs, grant funding of course: ature: ssed students: 2 abs	n	
The PhD student der task, adhere to the ti experience from the creation of measurab Brief outline of the of Recommended litera Course language: Notes: Course assessment Total number of asse	nonstrates the ability to wo me schedule and fulfill the implementation of an inter- le outputs, grant funding of course: ature: ssed students: 2 abs 100.0	n	

University: P. J. Šafá	rik University in Košice			
Faculty: Faculty of S	cience			
Course ID: ÚMV/ SPAV/22Course name: Co-investigator of the applied research project				
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present Number of ECTS credits: 5				
			Recommended seme	ester/trimester of the cours
Course level: III.				
Prerequisities:				
Conditions for cours Co-investigator of th	se completion: e applied research project			
to the solution of the tasks. By solving an objective according to own activities with c	e project objective of applied applied research project, l to the established procedure colleagues, to participate in t	cipate in teamwork, to bring his own contribution d research and to take responsibility for assigned he acquires the ability to implement the project , to follow the project schedule, to coordinate his the creation of applied research outputs. The PhD cal course of a grant project with a focus on applied		
Brief outline of the o	course:			
Recommended litera	ature:			
Course language:				
Notes:				
Course assessment Total number of assessed students: 0				
	abs n			
	abs	0.0 0.0		
		0.0		
Provides:		0.0		
	0.0	0.0		

	arik University in Košice	
Faculty: Faculty of S	Science	
Course ID: ÚMV/ SDPR/22	Course name: Co-wor	rker of local project
Course type, scope a Course type: Recommended cou Per week: Per stue Course method: pr	irse-load (hours): dy period:	
Number of ECTS ci	redits: 10	
Recommended sem	ester/trimester of the co	ourse:
Course level: III.		
Prerequisities:		
Conditions for cour Co-investigator of th	-	
Learning outcomes: The PhD student der		participate in teamwork, to bring his own contribution
The PhD student der to the solution of t solving the domestic to the established pr colleagues, to partic from the practical co	nonstrates the ability to p he project objective an project, he acquires the ocedure, to follow the p ipate in the creation of purse of the grant project	d to take responsibility for the assigned tasks. By e ability to implement the project intention according roject schedule, to coordinate his own activities with outputs. The PhD student gains valuable experience
The PhD student der to the solution of t solving the domestic to the established pr colleagues, to partic from the practical co Brief outline of the	nonstrates the ability to p he project objective an project, he acquires the ocedure, to follow the p ipate in the creation of ourse of the grant project course:	d to take responsibility for the assigned tasks. By e ability to implement the project intention according roject schedule, to coordinate his own activities with outputs. The PhD student gains valuable experience
The PhD student der to the solution of t solving the domestic to the established pr colleagues, to partic from the practical co Brief outline of the Recommended liter	nonstrates the ability to p he project objective an project, he acquires the ocedure, to follow the p ipate in the creation of ourse of the grant project course:	d to take responsibility for the assigned tasks. By e ability to implement the project intention according roject schedule, to coordinate his own activities with outputs. The PhD student gains valuable experience
The PhD student der to the solution of t solving the domestic to the established pr colleagues, to partic from the practical co Brief outline of the Recommended liter Course language:	nonstrates the ability to p he project objective an project, he acquires the ocedure, to follow the p ipate in the creation of ourse of the grant project course:	d to take responsibility for the assigned tasks. By e ability to implement the project intention according roject schedule, to coordinate his own activities with outputs. The PhD student gains valuable experience
The PhD student der to the solution of t solving the domestic to the established pr colleagues, to partic from the practical co Brief outline of the Recommended liter	nonstrates the ability to p he project objective an c project, he acquires the ocedure, to follow the p ipate in the creation of ourse of the grant project course: ature:	d to take responsibility for the assigned tasks. By e ability to implement the project intention according roject schedule, to coordinate his own activities with outputs. The PhD student gains valuable experience
The PhD student der to the solution of t solving the domestic to the established pr colleagues, to partic from the practical co Brief outline of the Recommended liter Course language: Notes: Course assessment	nonstrates the ability to p he project objective an c project, he acquires the ocedure, to follow the p ipate in the creation of ourse of the grant project course: ature:	d to take responsibility for the assigned tasks. By e ability to implement the project intention according roject schedule, to coordinate his own activities with outputs. The PhD student gains valuable experience
The PhD student der to the solution of t solving the domestic to the established pr colleagues, to partic from the practical co Brief outline of the Recommended liter Course language: Notes: Course assessment	nonstrates the ability to p he project objective an c project, he acquires the ocedure, to follow the p ipate in the creation of ourse of the grant project course: ature:	d to take responsibility for the assigned tasks. By e ability to implement the project intention according roject schedule, to coordinate his own activities with outputs. The PhD student gains valuable experience
The PhD student der to the solution of t solving the domestic to the established pr colleagues, to partic from the practical co Brief outline of the Recommended liter Course language: Notes: Course assessment	nonstrates the ability to p he project objective an c project, he acquires the ocedure, to follow the p ipate in the creation of ourse of the grant project course: ature: essed students: 14 abs	here a substrained tasks by a bility to implement the project intention according roject schedule, to coordinate his own activities with outputs. The PhD student gains valuable experience the student gains valuable experience the student gains with the
The PhD student der to the solution of t solving the domestic to the established pr colleagues, to partic from the practical co Brief outline of the Recommended liter Course language: Notes: Course assessment Total number of asse	nonstrates the ability to p he project objective an project, he acquires the ocedure, to follow the p ipate in the creation of ourse of the grant project course: ature: essed students: 14 abs 100.0	here a substrained tasks by the ability to implement the project intention according roject schedule, to coordinate his own activities with outputs. The PhD student gains valuable experience the student gains valuable experience the student gains with

University: P. J. Šafárik University in Košice		
Faculty: Faculty of Science		
Course ID: ÚMV/ dDTM/15	Course name: Digital technologies in mathematics education	
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 ECTS cr	redits: 5	
Recommended sem	ester/trimester of the course: 1., 3.	
Course level: III.		

Prerequisities:

Conditions for course completion:

Orientation in basic concepts related to computer-assisted education. Demonstrating an overview of the possibilities of using different types of modern digital technologies to support active learning of mathematics. Ability to effectively use different types of digital technologies depending on the types of solved mathematical problems. Ability to assess the resources for mathematics education available on the Internet in terms of the extent and way of their use in teaching mathematics. Evaluation:

Elaboration of a seminar work on a topic agreed with the teacher. Final exam.

Learning outcomes:

The student is able to characterize the basic possibilities and procedures of work in various types of modern digital technologies usable to support mathematical education. The student is able to give suitable examples from school mathematics, in solving which it is possible to effectively use specific digital technologies. The student is able to design a procedure for the use of digital technologies to support the various stages of the learning process and the application of inquiry approaches in the teaching of specific mathematical topics. The student is able to use critical thinking in planning the teaching of mathematics and creating a stimulating learning environment with a high degree of dynamism and interactivity, and in assessing the possibility of using educational resources available on the Internet.

Brief outline of the course:

Characteristics of possibilities of use, benefits and negative aspects of digital technologies in mathematics education.

Support of digital technologies in the application of innovative approaches to the teaching mathematics: constructivist approaches to learning, guided research, research approaches to teaching, peer instruction method, project method.

Development of selected digital competencies in the teaching of mathematics.

Data representation and mathematical modeling in a digital environment. Modeling activities in teaching mathematics.

Investigation of properties of shapes, geometric relations and functional dependencies using dynamic geometric systems.

Didactic aspects of e-learning. Strategies to support active learning in e-learning. Implementing feedback and providing contingent tutoring in digital learning materials. Interactive mathematical documents created using CAS.

Recommended literature:

Antoch, J., Čihák, M., Prachař, J.: Použití programu MUPAD ve středoškolské výuce, Pravděpodobnost a statistika na střední škole, Univerzita Karlova v Praze, Matfyzpress, 2005. 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, s. 469-501.

Dubinsky, E., Tall, D.: Advanced mathematical thinking and the computer. In: Advanced mathematical thinking (editor Tall, D.), Kluwer Academic Publishers, 2002, s. 231-243.

Fulier, J., Ďuriš, V., Frantová, P.: CAS (systémy počítačovej algebry) vo vyučovaní matematiky, Univerzita Konštantína Filozofa v Nitre, 2007.

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

Vaníček, J.: Počítačové kognitivní technologie ve výuce geometrie, Univerzita Karlova v Praze, 2009.

Course language:

Slovak or English

Notes:

Course assessment

Total number of assessed students: 14

N	Р
0.0	100.0
Provides: doc. RNDr. Stanislav Lukáč, PhD.	
Date of last modification: 12.01.2022	
Approved: prof. RNDr. Jozef Doboš, CSc.	

University: P. J. Šafá	rik University in Košice	
Faculty: Faculty of S		
Course ID: ÚMV/ dDSM/10	Course name: Discrete ma	athematics
Course type, scope a Course type: Lectur Recommended cour Per week: 3 Per stu Course method: pre	e ·se-load (hours): dy period: 42	
Number of ECTS cr	edits: 6	
Recommended seme	ster/trimester of the cours	e: 2., 4.
Course level: III.		
Prerequisities:		
to present proofs of between the individu	of discrete mathematics the statements, to explain indiv	e ability to formulate definitions and statements, vidual steps in proofs, to know the relationships ed problems related to given topics is required. exam.
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 Karoli	setřil: Invitation to Discrete num, Praha 2000.	Mathematics, Univerzita Karlova - oduction. Brooks/Cale, Pacific Grove, USA,
Course language: Slovak or English		
Notes:		
Course assessment Total number of asse	ssed students: 14	
	Ν	Р
	0.0	100.0
Provides: RNDr. Igor Semanišinová, PhD.	Fabrici, Dr. rer. nat., prof.	RNDr. Tomáš Madaras, PhD., doc. RNDr. Ingrid
Date of last modifica	tion: 02.02.2022	
Approved: prof. RNI	Dr. Jozef Doboš, CSc.	

University: P. J. Šafán	rik University in Košice	
Faculty: Faculty of S	cience	
Course ID: ÚMV/ dDZS/14	Course name: Dissertation	on examination
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	rse-load (hours): y period:	
Number of ECTS cro	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 competences with respe	ct to the profile of the graduate.
sources for a PhD stu	al exam is organised as a	discourse focusing on 3 courses serving as credit a by the supervisor of the student after consulting
Recommended litera	ture:	
Course language: slovak		
Notes:		
Course assessment Total number of asses	ssed students: 32	
	Ν	Р
	0.0	100.0
Provides:		
Date of last modifica	tion: 03.05.2015	
Approved: prof. RNI	Dr. Jozef Doboš, CSc.	

Faculty: Faculty of Science Course ID: ÚMV/ Course name: Elaboration of reviewer report VPZP/22 Course type, scope and the method: Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present Course method: present Number of ECTS credits: 3 Recommended semester/trimester of the course: Course level: III. Prerequisities: Conditions for course completion: Elaboration of reviewer report Learning outcomes: The PhD student demonstrates broad and scientifically based know well as knowledge of a wide range of methods and approaches. Dem assess a professional problem and its proposed solution, as well recommend another solution. He applies knowledge and skills sciences to his own field. Brief outline of the course: Recommended literature: Course language: Course language:	vledge in the field of study, as
VPZP/22 Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present Number of ECTS credits: 3 Recommended semester/trimester of the course: Course level: III. Prerequisities: Conditions for course completion: Elaboration of reviewer report Learning outcomes: The PhD student demonstrates broad and scientifically based know well as knowledge of a wide range of methods and approaches. Dem assess a professional problem and its proposed solution, as well recommend another solution. He applies knowledge and skills sciences to his own field. Brief outline of the course: Recommended literature:	vledge in the field of study, as
Course type: Recommended course-load (hours): Per week: Per study period: Course method: present Number of ECTS credits: 3 Recommended semester/trimester of the course: Course level: III. Prerequisities: Conditions for course completion: Elaboration of reviewer report Learning outcomes: The PhD student demonstrates broad and scientifically based know well as knowledge of a wide range of methods and approaches. Dem assess a professional problem and its proposed solution, as well recommend another solution. He applies knowledge and skills sciences to his own field. Brief outline of the course: Recommended literature:	0
Recommended semester/trimester of the course: Course level: III. Prerequisities: Conditions for course completion: Elaboration of reviewer report Learning outcomes: The PhD student demonstrates broad and scientifically based know well as knowledge of a wide range of methods and approaches. Dem assess a professional problem and its proposed solution, as well recommend another solution. He applies knowledge and skills sciences to his own field. Brief outline of the course: Recommended literature:	0
Course level: III. Prerequisities: Conditions for course completion: Elaboration of reviewer report Learning outcomes: The PhD student demonstrates broad and scientifically based know well as knowledge of a wide range of methods and approaches. Dem assess a professional problem and its proposed solution, as well recommend another solution. He applies knowledge and skills sciences to his own field. Brief outline of the course: Recommended literature:	0
Prerequisities: Conditions for course completion: Elaboration of reviewer report Learning outcomes: The PhD student demonstrates broad and scientifically based know well as knowledge of a wide range of methods and approaches. Dem assess a professional problem and its proposed solution, as well recommend another solution. He applies knowledge and skills sciences to his own field. Brief outline of the course: Recommended literature:	0
Conditions for course completion: Elaboration of reviewer report Learning outcomes: The PhD student demonstrates broad and scientifically based know well as knowledge of a wide range of methods and approaches. Dem assess a professional problem and its proposed solution, as well recommend another solution. He applies knowledge and skills sciences to his own field. Brief outline of the course: Recommended literature:	0
Elaboration of reviewer report Learning outcomes: The PhD student demonstrates broad and scientifically based know well as knowledge of a wide range of methods and approaches. Dem assess a professional problem and its proposed solution, as well recommend another solution. He applies knowledge and skills sciences to his own field. Brief outline of the course: Recommended literature:	0
The PhD student demonstrates broad and scientifically based know well as knowledge of a wide range of methods and approaches. Dem assess a professional problem and its proposed solution, as well recommend another solution. He applies knowledge and skills sciences to his own field. Brief outline of the course: Recommended literature:	0
Recommended literature:	as to evaluate it and possibly
Notes: Course assessment Total number of assessed students: 0 abs	n
0.0	0.0
Provides:	
Date of last modification: 08.11.2022	
Approved: prof. RNDr. Jozef Doboš, CSc.	

University: P. J. Šafári	k University in Košice
Faculty: Faculty of Sc	ience
Course ID: CJP/ AJD1/07	Course name: English Language for PhD Students 1
Course type, scope an Course type: Practice Recommended cours Per week: 2 Per stud Course method: dista	e se-load (hours): ly period: 28
Number of ECTS cree	dits: 2
Recommended semes	ter/trimester of the course: 1.
Course level: III.	
Prerequisities:	
1	completion: e English for PhD Students (lms.upjs.sk), consultations (1-3). Professional/Academic CV, Short Academic Biography.
of their linguistic com syntactic aspects; deve	udents' language skills - reading, writing, listening, speaking; improvement petence - students acquire knowledge of selected phonological, lexical and elopment of pragmatic competence - students acquire skills for effective and ation, with focus on Academic English and English for specific/professional
vocabulary developme formation, formal/info	urse: cademic and professional English with focus on correct pronunciation, ent (noun and verb collocations, phrasal verbs, prepositional phrases, word- ormal language, etc.), selected aspects of English grammar (prepositions, ve voice, etc.), academic writing (professional/academic CV, Short Academic
Kolaříková, Z., Petruň Košice, Vydavateľstvo Tomaščíková, S., Roze Vydavateľstvo Šafárik McCarthy, M., O'Dell Štepánek, L., J. De Ha 2011.	demic Vocabulary Practice. OUP, 2017. ová, H., Timková, R.: Angličtina v akademickom prostredí – cvičebnica. ŠafárikPress, 2021. enfeld, J. Developing Academic English in Speaking and Writing.
Course language: English, level B2 acco	rding to CEFR

Course assessm Total number of	nent f assessed studen	ts: 780			
N	Ne	Р	Pr	abs	neabs
0.0	0.0	45.64	0.0	54.23	0.13
Provides: Mgr.	Zuzana Kolaříko	vá, PhD.			
Date of last mo	dification: 06.09	0.2024			
Approved: prof	f. RNDr. Jozef D	oboš, CSc.			

LD2/07 Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: distance, present Number of ECTS credits: 3 Recommended semester/trimester of the course: 2. Course level: III. Prerequisities: Conditions for course completion: Fest, oral exam in accordance with the exam requirements (available at the web-site of the LTC and in MS TEAMS) Learning outcomes: The development of students' language skills - reading, writing, listening, speaking, improvement of their linguistic competence - students acquire knowledge of selected phonological, lexical and syntactic aspects, development of pragmatic competence - students can efectively use the anguage for a given purpose, with focus on Academic English and English for specific/professional purposes, level B2. Brief outline of the course: Academic communication (self-presentation, presenting at scientific meetings and conferences). Specific aspects of academic and professional English with focus on vocabulary development formality, academic word-list). English grammar (passive voice, nominalisatio), language functions (expressing opinion, cause/effect, presenting arguments, giving examples, describing graphs/charts/schemes, etc.). Cross-language interference. Recommended literature: Moore, J.: Oxford Academic Vocabulary Practice. OUP, 2017. <t< th=""><th></th><th>COURSE INFORMATION LETTER</th></t<>		COURSE INFORMATION LETTER
Course ID: CJP/ (JD2/07 Course name: English Language for PhD Students 2 Course type, scope and the method: Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: distance, present Yumber of ECTS credits: 3 Recommended semester/trimester of the course: 2. Course level: III. Prerequisities: Conditions for course completion: Test, oral exam in accordance with the exam requirements (available at the web-site of the LTC and in MS TEAMS) Acarning outcomes: The development of students' language skills - reading, writing, listening, speaking, improvement of their linguistic competence - students acquire knowledge of selected phonological, lexical and syntactic aspects, development of pragmatic competence - students can efectively use the anguage for a given purpose, with focus on Academic English and English for specific/professional surposes, level B2. Strief outline of the course: Academic communication (self-presentation, presenting at scientific meetings and conferences). Specific aspects of academic and professional English with focus on vocabulary development formality, academic word-list), English grammar (passive voice, nominalisatio), language functions (expressing opinion, cause/effect, presenting arguments, giving examples, describing graphs/charts/schemes, etc.). Cross-language interference. Recommended literature: Moore, J.: Oxford Academic Vocabulary Practice. OUP, 2017. Kolafiková, Z., Pe	University: P. J. Šafá	rik University in Košice
LD2/07 Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: distance, present Number of ECTS credits: 3 Recommended semester/trimester of the course: 2. Course level: III. Prerequisities: Conditions for course completion: Fest, oral exam in accordance with the exam requirements (available at the web-site of the LTC and in MS TEAMS) Learning outcomes: The development of students' language skills - reading, writing, listening, speaking, improvement of their linguistic competence - students acquire knowledge of selected phonological, lexical and syntactic aspects, development of pragmatic competence - students can efectively use the anguage for a given purpose, with focus on Academic English and English for specific/professional purposes, level B2. Brief outline of the course: Academic communication (self-presentation, presenting at scientific meetings and conferences). Specific aspects of academic and professional English with focus on vocabulary development formality, academic word-list). English grammar (passive voice, nominalisatio), language functions (expressing opinion, cause/effect, presenting arguments, giving examples, describing graphs/charts/schemes, etc.). Cross-language interference. Recommended literature: Moore, J.: Oxford Academic Vocabulary Practice. OUP, 2017. <t< th=""><th>Faculty: Faculty of S</th><th>cience</th></t<>	Faculty: Faculty of S	cience
Course type: Practice Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: distance, present Wumber of ECTS credits: 3 Recommended semester/trimester of the course: 2. Course level: III. Prerequisities: Conditions for course completion: Fest, oral exam in accordance with the exam requirements (available at the web-site of the LTC and in MS TEAMS)	Course ID: CJP/ AJD2/07	Course name: English Language for PhD Students 2
Recommended semester/trimester of the course: 2. Course level: III. Prerequisities: Conditions for course completion: Test, oral exam in accordance with the exam requirements (available at the web-site of the LTC and in MS TEAMS) cearning outcomes: The development of students' language skills - reading, writing, listening, speaking, improvement of their linguistic competence - students acquire knowledge of selected phonological, lexical and syntactic aspects, development of pragmatic competence - students can efectively use the anguage for a given purpose, with focus on Academic English and English for specific/professional purposes, level B2. Brief outline of the course: Academic communication (self-presentation, presenting at scientific meetings and conferences). Specific aspects of academic and professional English with focus on vocabulary development formality, academic word-list), English grammar (passive voice, nominalisatio), language functions (expressing opinion, cause/effect, presenting arguments, giving examples, describing graphs/charts/schemes, etc.). Cross-language interference. Recommended literature: Moore, J.: Oxford Academic Vocabulary Practice. OUP, 2017. Kolafiková, S., Rozenfeld, J. Developing Academic English in Speaking and Writing. UpJŠ Košice, 2021. Tomaščíková, S., Rozenfeld, J. Developing Academic English in Speaking and Writing. Vydavateľstvo ŠafařikPress, 2021. McCarthy, M., O'Dell, F.: Academic Vocabulary in Use. CUP,	Course type: Practic Recommended cour Per week: 2 Per stu	ce rse-load (hours): ıdy period: 28
Course level: III. Prerequisities: Conditions for course completion: Fest, oral exam in accordance with the exam requirements (available at the web-site of the LTC and in MS TEAMS) Learning outcomes: The development of students' language skills - reading, writing, listening, speaking, improvement of their linguistic competence - students acquire knowledge of selected phonological, lexical and syntactic aspects, development of pragmatic competence - students can efectively use the anguage for a given purpose, with focus on Academic English and English for specific/professional purposes, level B2. Brief outline of the course: Academic communication (self-presentation, presenting at scientific meetings and conferences). Specific aspects of academic and professional English with focus on vocabulary development formality, academic word-list), English grammar (passive voice, nominalisatio), language functions (expressing opinion, cause/effect, presenting arguments, giving examples, describing graphs/charts/schemes, etc.). Cross-language interference. Recommended literature: Moore, J.: Oxford Academic Vocabulary Practice. OUP, 2017. Kolaříková, Z., Petruňová, H., Timková, R.: Angličtina v akademickom prostredí (cvičebnica). UPJŠ Košice, 2021. Tomaščíková, S., Rozenfeld, J. Developing Academic English in Speaking and Writing. Vydavateľstvo ŠaťaříkPress, 2021. McCarthy, M., O'Dell, F.: Academic Vocabulary in Use. CUP, 2008.	Number of ECTS cr	redits: 3
Prerequisities: Conditions for course completion: Fest, oral exam in accordance with the exam requirements (available at the web-site of the LTC and in MS TEAMS) Learning outcomes: The development of students' language skills - reading, writing, listening, speaking, improvement of their linguistic competence - students acquire knowledge of selected phonological, lexical and syntactic aspects, development of pragmatic competence - students can efectively use the anguage for a given purpose, with focus on Academic English and English for specific/professional burposes, level B2. Brief outline of the course: Academic communication (self-presentation, presenting at scientific meetings and conferences). Specific aspects of academic and professional English with focus on vocabulary development formality, academic word-list), English grammar (passive voice, nominalisatio), language functions (expressing opinion, cause/effect, presenting arguments, giving examples, describing graphs/charts/schemes, etc.). Cross-language interference. Recommended literature: Moore, J.: Oxford Academic Vocabulary Practice. OUP, 2017. Kolaříková, Z., Petruňová, H., Timková, R.: Angličtina v akademickom prostredí (cvičebnica). UPJŠ Košice, 2021. Tomaščíková, S., Rozenfeld, J. Developing Academic English in Speaking and Writing. Vydavateľstvo ŠafárikPress, 2021. McCarthy, M., O'Dell, F.: Academic Vocabulary in Use. CUP, 2008.	Recommended seme	ester/trimester of the course: 2.
Conditions for course completion: Fest, oral exam in accordance with the exam requirements (available at the web-site of the LTC and in MS TEAMS) .carning outcomes: The development of students' language skills - reading, writing, listening, speaking, improvement of their linguistic competence - students acquire knowledge of selected phonological, lexical and syntactic aspects, development of pragmatic competence - students can efectively use the anguage for a given purpose, with focus on Academic English and English for specific/professional purposes, level B2. Brief outline of the course: Academic communication (self-presentation, presenting at scientific meetings and conferences). Specific aspects of academic and professional English with focus on vocabulary development formality, academic word-list), English grammar (passive voice, nominalisatio), language functions (expressing opinion, cause/effect, presenting arguments, giving examples, describing graphs/charts/schemes, etc.). Cross-language interference. Recommended literature: Moore, J.: Oxford Academic Vocabulary Practice. OUP, 2017. Kolaříková, Z., Petruňová, H., Timková, R.: Angličtina v akademickom prostredí (cvičebnica). UPJŠ Košice, 2021. Tomaščíková, S., Rozenfeld, J. Developing Academic English in Speaking and Writing. Vydavateľstvo ŠafárikPress, 2021. McCarthy, M., O'Dell, F.: Academic Vocabulary in Use. CUP, 2008.	Course level: III.	
 Fest, oral exam in accordance with the exam requirements (available at the web-site of the LTC and in MS TEAMS) Fearning outcomes: The development of students' language skills - reading, writing, listening, speaking, improvement of their linguistic competence - students acquire knowledge of selected phonological, lexical and syntactic aspects, development of pragmatic competence - students can efectively use the anguage for a given purpose, with focus on Academic English and English for specific/professional burposes, level B2. Brief outline of the course: Academic communication (self-presentation, presenting at scientific meetings and conferences). Specific aspects of academic and professional English with focus on vocabulary development formality, academic word-list), English grammar (passive voice, nominalisatio), language functions (expressing opinion, cause/effect, presenting arguments, giving examples, describing graphs/charts/schemes, etc.). Cross-language interference. Recommended literature: Moore, J.: Oxford Academic Vocabulary Practice. OUP, 2017. Kolaříková, Z., Petruňová, H., Timková, R.: Angličtina v akademickom prostredí (cvičebnica). UPJŠ Košice, 2021. Tomaščíková, S., Rozenfeld, J. Developing Academic English in Speaking and Writing. Vydavateľstvo ŠafárikPress, 2021. McCarthy, M., O'Dell, F.: Academic Vocabulary in Use. CUP, 2008. 	Prerequisities:	
The development of students' language skills - reading, writing, listening, speaking, improvement of their linguistic competence - students acquire knowledge of selected phonological, lexical and syntactic aspects, development of pragmatic competence - students can efectively use the anguage for a given purpose, with focus on Academic English and English for specific/professional purposes, level B2. Brief outline of the course: Academic communication (self-presentation, presenting at scientific meetings and conferences). Specific aspects of academic and professional English with focus on vocabulary development (formality, academic word-list), English grammar (passive voice, nominalisatio), language functions (expressing opinion, cause/effect, presenting arguments, giving examples, describing graphs/charts/schemes, etc.). Cross-language interference. Recommended literature: Moore, J.: Oxford Academic Vocabulary Practice. OUP, 2017. Kolaříková, Z., Petruňová, H., Timková, R.: Angličtina v akademickom prostredí (cvičebnica). UPJŠ Košice, 2021. Tomaščíková, S., Rozenfeld, J. Developing Academic English in Speaking and Writing. Vydavateľstvo ŠafařikPress, 2021. McCarthy, M., O'Dell, F.: Academic Vocabulary in Use. CUP, 2008.		-
Academic communication (self-presentation, presenting at scientific meetings and conferences). Specific aspects of academic and professional English with focus on vocabulary development formality, academic word-list), English grammar (passive voice, nominalisatio), language functions (expressing opinion, cause/effect, presenting arguments, giving examples, describing graphs/charts/schemes, etc.). Cross-language interference. Recommended literature: Moore, J.: Oxford Academic Vocabulary Practice. OUP, 2017. Kolaříková, Z., Petruňová, H., Timková, R.: Angličtina v akademickom prostredí (cvičebnica). UPJŠ Košice, 2021. Tomaščíková, S., Rozenfeld, J. Developing Academic English in Speaking and Writing. Vydavateľstvo ŠafárikPress, 2021.	The development of a of their linguistic co and syntactic aspects	students' language skills - reading, writing, listening, speaking, improvement ompetence - students acquire knowledge of selected phonological, lexical s, development of pragmatic competence - students can efectively use the
Moore, J.: Oxford Academic Vocabulary Practice. OUP, 2017. Kolaříková, Z., Petruňová, H., Timková, R.: Angličtina v akademickom prostredí (cvičebnica). UPJŠ Košice, 2021. Fomaščíková, S., Rozenfeld, J. Developing Academic English in Speaking and Writing. Vydavateľstvo ŠafárikPress, 2021.	Academic communic Specific aspects of a (formality, academic functions (expressing	cation (self-presentation, presenting at scientific meetings and conferences). academic and professional English with focus on vocabulary development c word-list), English grammar (passive voice, nominalisatio), language g opinion, cause/effect, presenting arguments, giving examples, describing
Kolaříková, Z., Petruňová, H., Timková, R.: Angličtina v akademickom prostredí (cvičebnica). UPJŠ Košice, 2021. Tomaščíková, S., Rozenfeld, J. Developing Academic English in Speaking and Writing. Vydavateľstvo ŠafárikPress, 2021. McCarthy, M., O'Dell, F.: Academic Vocabulary in Use. CUP, 2008.	Recommended litera	ature:
	Kolaříková, Z., Petru UPJŠ Košice, 2021. Tomaščíková, S., Roz Vydavateľstvo Šafári McCarthy, M., O'De Štepánek, L., J. De H 2011.	nňová, H., Timková, R.: Angličtina v akademickom prostredí (cvičebnica). zenfeld, J. Developing Academic English in Speaking and Writing. ikPress, 2021. II, F.: Academic Vocabulary in Use. CUP, 2008. Iaff a kol.: Academic English-Akademická angličtina. Grada Publishing, a.s.,
Course language: B2 level according to CEFR	Course language: B2 level according to	o CEFR
	Notes:	

Course assessm Total number of	nent f assessed studen	ts: 774			
N	Ne	Р	Pr	abs	neabs
0.26	0.0	94.06	1.03	4.52	0.13
Provides: Mgr.	Zuzana Kolaříko	vá, PhD.		·	
Date of last mo	dification: 05.02	2.2024			
Approved: prof	f. RNDr. Jozef D	oboš, CSc.			

University: P. J. Šafá	rik University in Košice	
Faculty: Faculty of S	cience	
Course ID: ÚMV/ dISLa/14	Course name: Individual s	tudy of scientific literature I
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: 12	
Recommended seme	ster/trimester of the cours	e: 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		
Notes:		
Course assessment Total number of asse	ssed students: 41	
	abs	n
	100.0	0.0
Provides:		
Date of last modifica	tion: 03.05.2015	
Approved: prof. RNI	Dr. Jozef Doboš, CSc.	

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 cour Per week: Per stud Course method: pre	rse-load (hours): ly period:	
Number of ECTS cr	edits: 12	
Recommended seme	ster/trimester of the cours	e: 3., 4
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		
Notes:		
Course assessment Total number of asse	ssed students: 40	
	abs	n
	100.0	0.0
Provides:		
Date of last modifica	tion: 03.05.2015	
Approved: prof. RNI	Dr. Jozef Doboš, CSc.	

University: P. J. Sala	arik University in Košice	
Faculty: Faculty of S	Science	
Course ID: ÚMV/ ZC/22	Course name: Internationa	al Journal
Course type, scope a Course type: Recommended cou Per week: Per stue Course method: pr	rse-load (hours): dy period:	
Number of ECTS ci	redits: 8	
Recommended sem	ester/trimester of the cours	e:
Course level: III.		
Prerequisities:		
Conditions for cour Publication accepted	se completion: I in a foreign journal as an au	thor/co-author.
level of ability to ide He demonstrates the applying them critica an innovative way, a according to the high	entify, evaluate, and apply co e ability to reflect on a scien ally. He demonstrates the con s well as to generate new or lest qualitative and ethical sta	co-author, the PhD student demonstrates a high rrect scientific methods or research methodology. tific problem by using the latest approaches and mpetence to use existing theories and concepts in ginal scientific knowledge, which he can publish ndards of the field. The PhD student demonstrates viewers' suggestions, to finalize his own ideas.
Brief outline of the	course:	
Recommended liter	ature:	
Course language:		
Notes:		
Course assessment Total number of asse	essed students: 1	
	abs	n
	100.0	0.0
Provides:	100.0	0.0
Provides: Date of last modific:		0.0

	rik University in Košice	
Faculty: Faculty of S	cience	
Course ID: ÚMV/ ZSP1/22	Course name: Internati	onal Study Stay less than 30 Days
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: 5	
Recommended seme	ster/trimester of the cou	irse:
Course level: III.		
Prerequisities:		
Conditions for cours Completion of a fore	se completion: ign study stay lasting less	then 20 days
Learning outcomes:		udent demonstrates the ability to reflect on research
Learning outcomes: By completing a shor problems and work of while being able to go in more than one lang in a group with the air of research, to praction	rter study stay, the PhD st critically with sources at enerate new knowledge. I guage. He acts as a respon- m of pushing the boundar ce and to the wider public	
Learning outcomes: By completing a shor problems and work of while being able to go in more than one lang in a group with the air of research, to practic Brief outline of the c	rter study stay, the PhD st critically with sources at enerate new knowledge. I guage. He acts as a respon- m of pushing the boundar- ce and to the wider public course:	udent demonstrates the ability to reflect on research an expert level and in an interdisciplinary context, He is able to actively communicate at an expert level sible independent scientist, works independently and ies of knowledge and transferring them to other areas
Learning outcomes: By completing a shor problems and work of while being able to go in more than one lang in a group with the air of research, to praction	rter study stay, the PhD st critically with sources at enerate new knowledge. I guage. He acts as a respon- m of pushing the boundar- ce and to the wider public course:	udent demonstrates the ability to reflect on research an expert level and in an interdisciplinary context, He is able to actively communicate at an expert level sible independent scientist, works independently and ies of knowledge and transferring them to other areas
Learning outcomes: By completing a shor problems and work of while being able to go in more than one lang in a group with the air of research, to practic Brief outline of the c	rter study stay, the PhD st critically with sources at enerate new knowledge. I guage. He acts as a respon- m of pushing the boundar- ce and to the wider public course:	udent demonstrates the ability to reflect on research an expert level and in an interdisciplinary context, He is able to actively communicate at an expert level sible independent scientist, works independently and ies of knowledge and transferring them to other areas
Learning outcomes: By completing a shor problems and work of while being able to go in more than one lang in a group with the air of research, to practic Brief outline of the constant Recommended litera	rter study stay, the PhD st critically with sources at enerate new knowledge. I guage. He acts as a respon- m of pushing the boundar- ce and to the wider public course:	udent demonstrates the ability to reflect on research an expert level and in an interdisciplinary context, He is able to actively communicate at an expert level sible independent scientist, works independently and ies of knowledge and transferring them to other areas
Learning outcomes: By completing a shorp problems and work of while being able to go in more than one lang in a group with the air of research, to practic Brief outline of the c Recommended litera Course language:	rter study stay, the PhD st critically with sources at enerate new knowledge. I guage. He acts as a respon- m of pushing the boundar ce and to the wider public course:	udent demonstrates the ability to reflect on research an expert level and in an interdisciplinary context, He is able to actively communicate at an expert level sible independent scientist, works independently and ies of knowledge and transferring them to other areas
Learning outcomes: By completing a shorp problems and work of while being able to g in more than one lang in a group with the air of research, to practice Brief outline of the of Recommended litera Course language: Notes: Course assessment	rter study stay, the PhD st critically with sources at enerate new knowledge. I guage. He acts as a respon- m of pushing the boundar ce and to the wider public course:	udent demonstrates the ability to reflect on research an expert level and in an interdisciplinary context, He is able to actively communicate at an expert level sible independent scientist, works independently and ies of knowledge and transferring them to other areas
Learning outcomes: By completing a shorp problems and work of while being able to go in more than one lang in a group with the air of research, to practic Brief outline of the c Recommended litera Course language: Notes: Course assessment Total number of asse	rter study stay, the PhD st critically with sources at enerate new knowledge. I guage. He acts as a respon- m of pushing the boundar- ce and to the wider public course: nture:	udent demonstrates the ability to reflect on research an expert level and in an interdisciplinary context, He is able to actively communicate at an expert level sible independent scientist, works independently and ies of knowledge and transferring them to other areas b. He can competently argue and explain his ideas.
Learning outcomes: By completing a shorp problems and work of while being able to go in more than one lang in a group with the air of research, to practic Brief outline of the c Recommended litera Course language: Notes: Course assessment Total number of asse	rter study stay, the PhD st critically with sources at enerate new knowledge. I guage. He acts as a respon- m of pushing the boundar- ce and to the wider public course: nture: ssed students: 8 abs	nudent demonstrates the ability to reflect on research an expert level and in an interdisciplinary context, He is able to actively communicate at an expert level sible independent scientist, works independently and ies of knowledge and transferring them to other areas be the can competently argue and explain his ideas.
Learning outcomes: By completing a shor problems and work of while being able to ge in more than one lang in a group with the air of research, to practic Brief outline of the c Recommended litera Course language: Notes: Course assessment Total number of asse	rter study stay, the PhD st critically with sources at enerate new knowledge. I guage. He acts as a respon- m of pushing the boundar- ce and to the wider public course: nture: ssed students: 8 abs 100.0	nudent demonstrates the ability to reflect on research an expert level and in an interdisciplinary context, He is able to actively communicate at an expert level sible independent scientist, works independently and ies of knowledge and transferring them to other areas be the can competently argue and explain his ideas.

	rik University in Koš	ŝice
Faculty: Faculty of S	cience	
Course ID: ÚMV/ ZSP2/22	Course name: Inter	rnational Study Stay more than 30 Days
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: 10	
Recommended seme	ster/trimester of the	e course:
Course level: III.		
Prerequisities:		
Conditions for cours Completion of a fore	-	g more than 30 days.
by completing the s	siduuy siay, the PhD	student demonstrates the ability to reflect on research
while being able to g in more than one lang in a group with the air of research, to practio	enerate new knowled guage. He acts as a res m of pushing the bounce and to the wider pu	es at an expert level and in an interdisciplinary context, lge. He is able to actively communicate at an expert level sponsible independent scientist, works independently and ndaries of knowledge and transferring them to other areas ublic. He can competently argue and explain his ideas
while being able to g in more than one lang in a group with the air of research, to practic Brief outline of the c	enerate new knowled guage. He acts as a res m of pushing the bounce and to the wider pro- course:	es at an expert level and in an interdisciplinary context, lge. He is able to actively communicate at an expert level sponsible independent scientist, works independently and ndaries of knowledge and transferring them to other areas
while being able to g in more than one lang in a group with the air of research, to practic Brief outline of the c Recommended litera	enerate new knowled guage. He acts as a res m of pushing the bounce and to the wider pro- course:	es at an expert level and in an interdisciplinary context, lge. He is able to actively communicate at an expert level sponsible independent scientist, works independently and ndaries of knowledge and transferring them to other areas
while being able to g in more than one lang in a group with the air of research, to practic Brief outline of the c Recommended litera Course language:	enerate new knowled guage. He acts as a res m of pushing the bounce and to the wider pro- course:	es at an expert level and in an interdisciplinary context, lge. He is able to actively communicate at an expert level sponsible independent scientist, works independently and ndaries of knowledge and transferring them to other areas
while being able to g in more than one lang in a group with the air of research, to practic Brief outline of the c Recommended litera Course language: Notes:	enerate new knowled guage. He acts as a res m of pushing the bounce and to the wider pro- course:	es at an expert level and in an interdisciplinary context, lge. He is able to actively communicate at an expert level sponsible independent scientist, works independently and ndaries of knowledge and transferring them to other areas
while being able to g in more than one lang in a group with the air of research, to practic Brief outline of the c Recommended litera Course language:	enerate new knowled guage. He acts as a res m of pushing the bounce and to the wider pro- course: nture:	es at an expert level and in an interdisciplinary context, lge. He is able to actively communicate at an expert level sponsible independent scientist, works independently and ndaries of knowledge and transferring them to other areas
while being able to g in more than one lang in a group with the air of research, to practic Brief outline of the c Recommended litera Course language: Notes: Course assessment	enerate new knowled guage. He acts as a res m of pushing the boun ce and to the wider pro- course: ature:	es at an expert level and in an interdisciplinary context, lge. He is able to actively communicate at an expert level sponsible independent scientist, works independently and ndaries of knowledge and transferring them to other areas ublic. He can competently argue and explain his ideas
while being able to g in more than one lang in a group with the air of research, to practic Brief outline of the c Recommended litera Course language: Notes: Course assessment	enerate new knowled guage. He acts as a res m of pushing the bounce and to the wider pro- course: nture:	es at an expert level and in an interdisciplinary context, lge. He is able to actively communicate at an expert level sponsible independent scientist, works independently and ndaries of knowledge and transferring them to other areas ublic. He can competently argue and explain his ideas
while being able to g in more than one lang in a group with the air of research, to practic Brief outline of the c Recommended litera Course language: Notes: Course assessment	enerate new knowled guage. He acts as a res m of pushing the bour ce and to the wider pro- course: nture: ssed students: 0 abs	es at an expert level and in an interdisciplinary context, lge. He is able to actively communicate at an expert level sponsible independent scientist, works independently and ndaries of knowledge and transferring them to other areas ublic. He can competently argue and explain his ideas
while being able to g in more than one lang in a group with the air of research, to practic Brief outline of the c Recommended litera Course language: Notes: Course assessment Total number of asse	enerate new knowled guage. He acts as a res m of pushing the bour ce and to the wider pro- course: nture: ssed students: 0 abs 0.0	es at an expert level and in an interdisciplinary context, lge. He is able to actively communicate at an expert level sponsible independent scientist, works independently and ndaries of knowledge and transferring them to other areas ublic. He can competently argue and explain his ideas

	rik University in Košice	
Faculty: Faculty of S	cience	
Course ID: ÚMV/ MKZ/22	Course name: Internation	al conference abroad
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pro	rse-load (hours): ly period:	
Number of ECTS cr	edits: 10	
Recommended seme	ster/trimester of the cours	ie:
Course level: III.		
Prerequisities:		
Conditions for course Active participation	se completion: in an international conference	ce abroad.
demonstrates a high research methodolog scientific problem b competence to use e	level of ability to identify, y in his scientific field. He y using the latest approact xisting theories and concept owledge and communicate	scientific conference abroad, the phD student evaluate, and apply correct scientific methods or e demonstrates the ability to reflect on a specific hes and applying them critically. Demonstrates ts in an innovative way, as well as generate new research results to a wider audience by adequate
Brief outline of the o	course:	
Recommended litera	iture:	
Course language:		
Course language: Notes:		
0 0	ssed students: 34	
Notes: Course assessment	ssed students: 34 abs	n
Notes: Course assessment		n 0.0
Notes: Course assessment	abs	
Notes: Course assessment Total number of asse	abs 100.0	

Faculty: Faculty of S		
- acting + 1 acting OI L	Science	
Course ID: ÚMV/ RZ/22	Course name: Internationa	al peer-reviewed proceedings
Course type, scope a Course type: Recommended cou Per week: Per stuc Course method: pr	rse-load (hours): dy period:	
Number of ECTS cr	redits: 5	
Recommended seme	ester/trimester of the cours	e:
Course level: III.		
Prerequisities:		
Conditions for cour A publication publis	-	gn or national proceedings as an author/co-author.
demonstrates a high or research methodo	degree of ability to identify logy. He demonstrates the a	hal journal as an author/co-author, the PhD student y, evaluate, and apply correct scientific methods bility to reflect on a scientific problem by using
theories and concepts which he can publis PhD student demons to finalize his own ic	s in an innovative way, as wel h according to the highest q strates the ability to critically leas.	The demonstrates the competence to use existing l as to generate new original scientific knowledge, ualitative and ethical standards of the field. The v evaluate and respond to reviewers' suggestions,
theories and concepts which he can publis PhD student demons to finalize his own ic Brief outline of the c	s in an innovative way, as wel h according to the highest q strates the ability to critically leas. course:	l as to generate new original scientific knowledge, ualitative and ethical standards of the field. The
theories and concepts which he can publis PhD student demons to finalize his own ic Brief outline of the o Recommended liters	s in an innovative way, as wel h according to the highest q strates the ability to critically leas. course:	l as to generate new original scientific knowledge, ualitative and ethical standards of the field. The
theories and concepts which he can publis. PhD student demons to finalize his own id Brief outline of the o Recommended liters Course language:	s in an innovative way, as wel h according to the highest q strates the ability to critically leas. course:	l as to generate new original scientific knowledge, ualitative and ethical standards of the field. The
theories and concepts which he can publis. PhD student demons to finalize his own id Brief outline of the o Recommended liters Course language: Notes:	s in an innovative way, as wel h according to the highest q strates the ability to critically leas. course:	l as to generate new original scientific knowledge, ualitative and ethical standards of the field. The
theories and concepts which he can publis. PhD student demons to finalize his own id Brief outline of the o Recommended liters Course language:	s in an innovative way, as wel h according to the highest q strates the ability to critically leas. course: ature:	l as to generate new original scientific knowledge, ualitative and ethical standards of the field. The
theories and concepts which he can publis. PhD student demons to finalize his own ic Brief outline of the o Recommended liters Course language: Notes: Course assessment	s in an innovative way, as wel h according to the highest q strates the ability to critically leas. course: ature:	l as to generate new original scientific knowledge, ualitative and ethical standards of the field. The
theories and concepts which he can publis. PhD student demons to finalize his own ic Brief outline of the o Recommended liters Course language: Notes: Course assessment	s in an innovative way, as wel h according to the highest q strates the ability to critically leas. course: ature:	l as to generate new original scientific knowledge, ualitative and ethical standards of the field. The v evaluate and respond to reviewers' suggestions,
theories and concepts which he can publis. PhD student demons to finalize his own ic Brief outline of the o Recommended liters Course language: Notes: Course assessment	s in an innovative way, as wel h according to the highest q strates the ability to critically leas. course: ature: essed students: 20 abs	l as to generate new original scientific knowledge, ualitative and ethical standards of the field. The v evaluate and respond to reviewers' suggestions, n
theories and concepts which he can publis. PhD student demons to finalize his own ic Brief outline of the o Recommended liters Course language: Notes: Course assessment Total number of asse	s in an innovative way, as well h according to the highest q strates the ability to critically leas. course: ature: essed students: 20 abs 100.0	as to generate new original scientific knowledge, ualitative and ethical standards of the field. The vevaluate and respond to reviewers' suggestions,

University: P. J. Šafá	rik University in Košice	
Faculty: Faculty of S	cience	
Course ID: ÚMV/ dJMT/15	Course name: Language o	fmathematics
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	ester/trimester of the course	:: 2., 4.
Course level: III.		
Prerequisities:		
Conditions for cours exam	se completion:	
	uage of Mathematics is for st ge skills that are fundamental	udents to assimilate the basic concepts, reasoning to Mathematics.
Reading of mathemat The key concept of	variables in the structure of tical text. Reading and writin set and its substance. The c	mathematical expressions. Order of operations. g arithmetic procedures in algebraic expressions. oncept of functional dependency. The theory of athematical 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 r Learning Mathematics. Ass	g Mathematical Tales, Springer, 2008. Logic, Seven Bridges Press, 1999. tana State University, USA, 2008. essment for Learnig in Practice, Open Education, 2007.
Course language:		
Notes:		
Course assessment Total number of asse	ssed students: 1	
	N	Р
	0.0	100.0
Provides: prof. RND:	r. Jozef Doboš, CSc.	
Provides: prof. RND: Date of last modifica		

University: P. J. Šafá	irik University in Košice	
Faculty: Faculty of S	Science	
Course ID: ÚMV/ DK/22	Course name: Local Conf	erence
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pr	rse-load (hours): ly period:	
Number of ECTS cr	redits: 2	
Recommended seme	ester/trimester of the cours	e:
Course level: III.		
Prerequisities:		
Conditions for cour Active participation	se completion: in the home conference.	
degree of ability to ic in his scientific field using the latest appro- theories and concepts	lentify, evaluate, and apply co d. He demonstrates the abili- aches and applying them crit s in an innovative way, as we	conference, the PhD student demonstrates a high prrect scientific methods or research methodology ity to reflect on a specific scientific problem by ically. Demonstrates competence in using existing ll as generating new original scientific knowledge audience using adequate means and through the
Brief outline of the	course:	
Recommended liter	ature:	
Course language:		
Notes:		
Course assessment Total number of asse	essed students: 10	
	abs	n
	100.0	0.0
Provides:		
Date of last modification	ation: 05.03.2024	

Chiversity. 1. 5. Build	arik University in Košice	
Faculty: Faculty of S	-	
Course ID: ÚMV/ DKZU/22		ence with international participation
Course type, scope a Course type: Recommended cou Per week: Per stuc Course method: pro	rse-load (hours): dy period:	
Number of ECTS cr	edits: 5	
Recommended seme	ester/trimester of the course	:
Course level: III.		
Prerequisities:		
Conditions for cours Active participation	se completion: in a national conference with	foreign participation.
ability to identify, ev	valuate, and apply correct sci	e, the PhD student demonstrates a high degree of entific methods or research methodology in his
latest approaches and and concepts in an	d applying them critically. De innovative way, as well as g	ect on a specific scientific problem by using the emonstrates competence to use existing theories generate new original scientific knowledge and ce by adequate means and through Slovak or a
latest approaches and and concepts in an communicate research	d applying them critically. De innovative way, as well as g ch results to a wider audienc	emonstrates competence to use existing theories generate new original scientific knowledge and
latest approaches and and concepts in an communicate research foreign language.	d applying them critically. De innovative way, as well as g ch results to a wider audienc course:	emonstrates competence to use existing theories generate new original scientific knowledge and
latest approaches and and concepts in an communicate researd foreign language. Brief outline of the o	d applying them critically. De innovative way, as well as g ch results to a wider audienc course:	emonstrates competence to use existing theories generate new original scientific knowledge and
latest approaches and and concepts in an communicate researd foreign language. Brief outline of the of Recommended litera	d applying them critically. De innovative way, as well as g ch results to a wider audienc course:	emonstrates competence to use existing theories generate new original scientific knowledge and
latest approaches and and concepts in an communicate researd foreign language. Brief outline of the of Recommended litera Course language:	d applying them critically. De innovative way, as well as g ch results to a wider audienc course: ature:	emonstrates competence to use existing theories generate new original scientific knowledge and
latest approaches and and concepts in an communicate researd foreign language. Brief outline of the of Recommended liters Course language: Notes: Course assessment	d applying them critically. De innovative way, as well as g ch results to a wider audienc course: ature:	emonstrates competence to use existing theories generate new original scientific knowledge and
latest approaches and and concepts in an communicate researd foreign language. Brief outline of the of Recommended liters Course language: Notes: Course assessment	d applying them critically. De innovative way, as well as g ch results to a wider audienc course: ature: essed students: 17	emonstrates competence to use existing theories generate new original scientific knowledge and be by adequate means and through Slovak or a
latest approaches and and concepts in an communicate researd foreign language. Brief outline of the of Recommended liters Course language: Notes: Course assessment	d applying them critically. De innovative way, as well as g ch results to a wider audienc course: ature: essed students: 17 abs	emonstrates competence to use existing theories generate new original scientific knowledge and ce by adequate means and through Slovak or a
latest approaches and and concepts in an communicate researd foreign language. Brief outline of the of Recommended litera Course language: Notes: Course assessment Total number of asse	d applying them critically. De innovative way, as well as g ch results to a wider audienc course: ature: essed students: 17 abs 100.0	emonstrates competence to use existing theories generate new original scientific knowledge and ce by adequate means and through Slovak or a

University: P. J. Safa	rik University in Košice	
Faculty: Faculty of S	science	
Course ID: ÚMV/ DC/22	Course name: Local journ	al
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: 6	
Recommended seme	ester/trimester of the cours	e:
Course level: III.		
Prerequisities:		
Conditions for cours Publication accepted	se completion: in a national journal as auth	or/co-author.
level of ability to ide He demonstrates the applying them critica an innovative way, as according to the high	ntify, evaluate, and apply co ability to reflect on a scien ally. He demonstrates the con s well as to generate new or est qualitative and ethical sta	/co-author, the PhD student demonstrates a high rrect scientific methods or research methodology. tific problem by using the latest approaches and mpetence to use existing theories and concepts in ginal scientific knowledge, which he can publish ndards of the field. The PhD student demonstrates viewers' suggestions, to finalize his own ideas.
Brief outline of the o	course:	
Recommended litera	ature:	
Course language:		
Notes:		
Course assessment Total number of asse	ssed students: 2	
	abs	n
	100.0	0.0
Provides:		
110viues.		
Date of last modifica	ation: 08.11.2022	

University: P. J. Šafá	rik University in Košice	
Faculty: Faculty of S	cience	
Course ID: ÚMV/ dMAN/10	Course name: Mathematic	al analysis
Course type, scope a Course type: Lectu Recommended cou Per week: 2 Per stu Course method: pro	re rse-load (hours): Idy period: 28	
Number of ECTS cr	redits: 6	
Recommended seme	ester/trimester of the cours	e: 2., 4.
Course level: III.		
Prerequisities:		
Conditions for course exam	se completion:	
Learning outcomes: Understanding of the	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, I nn: Teória miery, Veda, Bra	tislava, 1992. Задачи по теории функций действительного
Course language: Slovak or English		
Notes:		
Course assessment Total number of asse	ssed students: 3	
	Ν	Р
	0.0	100.0
Provides: prof. RND	r. Jozef Doboš, CSc., prof. R	NDr. Ondrej Hutník, PhD.
Date of last modific:	ation: 14.09.2021	

	árik University in Košice	
Faculty: Faculty of S	Science	
Course ID: ÚMV/ SIG/22	Course name: Membe	er of the internal project team
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pr	ırse-load (hours): dy period:	
Number of ECTS ci	redits: 3	
Recommended sem	ester/trimester of the co	ourse:
Course level: III.		
Prerequisities:		
Conditions for cour Co-worker of projec	se completion: t supported by internal g	grant schemes (VVGS)
	nonstrates the ability to	participate in teamwork, to bring his own contribution
The PhD student der to the solution of the the internal VVGS g established procedur and participate in the practical course of the	nonstrates the ability to p he project objective wi grant, he acquires the al- re, adhere to the project so he creation of outputs. The grant project.	participate in teamwork, to bring his own contribution thin the internal grant system at UPJŠ. By solving bility to implement the project plan according to the chedule, coordinate his own activities with colleagues, The PhD student gains valuable experience from the
The PhD student der to the solution of the the internal VVGS g established procedur and participate in the practical course of the Brief outline of the	nonstrates the ability to p he project objective wir grant, he acquires the al- re, adhere to the project so he creation of outputs. The grant project. course:	thin the internal grant system at UPJŠ. By solving bility to implement the project plan according to the chedule, coordinate his own activities with colleagues,
The PhD student der to the solution of the the internal VVGS a established procedur and participate in the practical course of the Brief outline of the Recommended liter	nonstrates the ability to p he project objective wir grant, he acquires the al- re, adhere to the project so he creation of outputs. The grant project. course:	thin the internal grant system at UPJŠ. By solving bility to implement the project plan according to the chedule, coordinate his own activities with colleagues,
The PhD student der to the solution of the the internal VVGS g established procedur and participate in the practical course of the Brief outline of the of Recommended liter Course language:	nonstrates the ability to p he project objective wir grant, he acquires the al- re, adhere to the project so he creation of outputs. The grant project. course:	thin the internal grant system at UPJŠ. By solving bility to implement the project plan according to the chedule, coordinate his own activities with colleagues,
The PhD student der to the solution of the the internal VVGS a established procedur and participate in the practical course of the Brief outline of the Recommended liter	nonstrates the ability to p he project objective wir grant, he acquires the al- re, adhere to the project so he creation of outputs. The grant project. course: ature:	thin the internal grant system at UPJŠ. By solving bility to implement the project plan according to the chedule, coordinate his own activities with colleagues,
The PhD student der to the solution of the internal VVGS g established procedur and participate in the practical course of the Brief outline of the of Recommended liter Course language: Notes: Course assessment	nonstrates the ability to p he project objective wir grant, he acquires the al- re, adhere to the project so he creation of outputs. The grant project. course: ature:	thin the internal grant system at UPJŠ. By solving bility to implement the project plan according to the chedule, coordinate his own activities with colleagues,
The PhD student der to the solution of the internal VVGS g established procedur and participate in the practical course of the Brief outline of the of Recommended liter Course language: Notes: Course assessment	nonstrates the ability to p he project objective wi grant, he acquires the al- re, adhere to the project so he creation of outputs. The grant project. course: ature:	thin the internal grant system at UPJŠ. By solving bility to implement the project plan according to the chedule, coordinate his own activities with colleagues, The PhD student gains valuable experience from the
The PhD student der to the solution of the internal VVGS g established procedur and participate in the practical course of the Brief outline of the of Recommended liter Course language: Notes: Course assessment	nonstrates the ability to p he project objective wir grant, he acquires the al- re, adhere to the project so he creation of outputs. The grant project. course: ature: essed students: 4 abs	thin the internal grant system at UPJŠ. By solving bility to implement the project plan according to the chedule, coordinate his own activities with colleagues, The PhD student gains valuable experience from the
The PhD student der to the solution of the internal VVGS g established procedur and participate in the practical course of the Brief outline of the of Recommended liter Course language: Notes: Course assessment Total number of asset	nonstrates the ability to p he project objective wir grant, he acquires the al- re, adhere to the project so he creation of outputs. The grant project. course: ature: essed students: 4 abs 100.0	thin the internal grant system at UPJŠ. By solving bility to implement the project plan according to the chedule, coordinate his own activities with colleagues, The PhD student gains valuable experience from the

Faculty: Faculty of S	Science	
Course ID: ÚMV/ POVK/22	Course name: Mem	bership in conference organising committee
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pro	rse-load (hours): ly period:	
Number of ECTS cr	redits: 3	
Recommended seme	ester/trimester of the	course:
Course level: III.		
Prerequisities:		
Conditions for cours Work in the organizin	se completion: ng committee of the c	onference
By working in the o	organizing committee	of the conference, the PhD student demonstrates the
abilities and compete to manage the implem in writing using vario	organizing committee ences to organize a sci nentation in terms of ti bus technical means as	
By working in the of abilities and compete to manage the implem in writing using vario level with various typ decisions.	organizing committee ences to organize a sci nentation in terms of ti pus technical means as bes of people, if necess	of the conference, the PhD student demonstrates the entific or professional event independently or in a team me and content, to communicate effectively verbally and needed, including in a foreign language at a professiona
By working in the of abilities and compete to manage the implem in writing using vario level with various typ decisions. Brief outline of the of	organizing committee ences to organize a sci nentation in terms of ti bus technical means as bes of people, if necess course:	of the conference, the PhD student demonstrates the entific or professional event independently or in a team me and content, to communicate effectively verbally and needed, including in a foreign language at a professiona
By working in the or abilities and competer to manage the implem in writing using varior level with various typ decisions. Brief outline of the or Recommended litera	organizing committee ences to organize a sci nentation in terms of ti bus technical means as bes of people, if necess course:	of the conference, the PhD student demonstrates the entific or professional event independently or in a team me and content, to communicate effectively verbally and needed, including in a foreign language at a professiona
By working in the or abilities and compete to manage the implem in writing using various level with various typ	organizing committee ences to organize a sci nentation in terms of ti bus technical means as bes of people, if necess course:	of the conference, the PhD student demonstrates the entific or professional event independently or in a team me and content, to communicate effectively verbally and needed, including in a foreign language at a professiona
By working in the of abilities and compete to manage the implem in writing using vario level with various typ decisions. Brief outline of the of Recommended litera Course language:	organizing committee ences to organize a sci nentation in terms of ti ous technical means as bes of people, if necess course: ature:	of the conference, the PhD student demonstrates the entific or professional event independently or in a team me and content, to communicate effectively verbally and needed, including in a foreign language at a professiona
By working in the of abilities and compete to manage the implem in writing using various level with various typ decisions. Brief outline of the of Recommended literat Course language: Notes: Course assessment	organizing committee ences to organize a sci nentation in terms of ti ous technical means as bes of people, if necess course: ature:	of the conference, the PhD student demonstrates the entific or professional event independently or in a team me and content, to communicate effectively verbally and needed, including in a foreign language at a professiona
By working in the of abilities and compete to manage the implem in writing using various level with various typ decisions. Brief outline of the of Recommended literat Course language: Notes: Course assessment	organizing committee ences to organize a sci nentation in terms of ti bus technical means as bes of people, if necess course: ature:	of the conference, the PhD student demonstrates the entific or professional event independently or in a team me and content, to communicate effectively verbally and needed, including in a foreign language at a professiona ary, correctly recommend solutions or make independen
By working in the or abilities and competer to manage the implem in writing using varior level with various typ decisions. Brief outline of the or Recommended litera Course language: Notes: Course assessment Total number of asse	erganizing committee ences to organize a sci nentation in terms of ti pus technical means as bes of people, if necess course: ature: essed students: 4 abs	of the conference, the PhD student demonstrates the entific or professional event independently or in a team me and content, to communicate effectively verbally and needed, including in a foreign language at a professiona ary, correctly recommend solutions or make independen
By working in the of abilities and compete to manage the implem in writing using various level with various typ decisions. Brief outline of the of Recommended literat Course language: Notes: Course assessment	erganizing committee ences to organize a sci nentation in terms of ti bus technical means as bes of people, if necess course: ature: ssed students: 4 abs 100.0	of the conference, the PhD student demonstrates the entific or professional event independently or in a team me and content, to communicate effectively verbally and needed, including in a foreign language at a professiona ary, correctly recommend solutions or make independen

University: P. J. Šafárik University in Košice Faculty: Faculty of Science	
Faculty Faculty of Science	
Faculty. Faculty of Science	
Course ID: ÚMV/ dMRU/10	r solving mathematical problems
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 cours	e: 2., 4.
Course level: III.	
Prerequisities:	
Conditions for course completion: It is based on the results of written and oral exam	1.
Learning outcomes: Obtain knowledge about the structure of element mathematics; the development of mathematical s	nentary mathematics with respect to advanced kills of prospective teachers.
Brief outline of the course: Language of Mathematics; syntax and semantics equations and inequations in reals; elementary fu	s; sets, relations, rational and irrational numbers, nctions
Recommended literature: A. H. Schoenfeld: Cognitive science and mathem Thomas P. Carpenter, John A. Dossey, Julie L. K research, NCTM, 2004 W.W. Esty: The Language of Mathematics, 2008 F. Klein: Elementary Mathematics from an Adva	oehler: Classics in mathematics education
Course language: Slovak	
Notes:	
Course assessment Total number of assessed students: 8	
N	Р
0.0	100.0
Provides: prof. RNDr. Jozef Doboš, CSc.	
Date of last modification: 14.04.2022	
Approved: prof. RNDr. Jozef Doboš, CSc.	

·	arik University in Košice	
Faculty: Faculty of S	Science	
Course ID: ÚMV/ MONB/22	Course name: Monograph	
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pro	rse-load (hours): ly period:	
Number of ECTS cr	edits: 20	
Recommended seme	ester/trimester of the cours	e:
Course level: III.		
Prerequisities:		
Conditions for cour Co-author of the more	-	
evaluate, and apply of to reflect on a scient demonstrates the con as to generate new of qualitative and ethic	correct scientific methods or fific problem by using the la mpetence to use existing the original scientific knowledge cal standards of the field. T	demonstrates a high level of ability to identify, research methodology. It demonstrates the ability itest approaches and applying them critically. He ories and concepts in an innovative way, as well e, which he can publish according to the highest The doctoral student demonstrates the ability to gestions, to finalize his own ideas.
Brief outline of the o	course:	
Recommended liter	ature:	
Course language:		
Notes:		
Course assessment Total number of asse	essed students: 0	
	essed students: 0 abs	n
		n 0.0
	abs	
Total number of asse	abs 0.0	

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of S	Science		
Course ID: ÚMV/ MONA/22	Course name: Monograph	n in a renowned publishing house	
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pr	rse-load (hours): ly period:		
Number of ECTS cr	edits: 40		
Recommended seme	ester/trimester of the cours	je:	
Course level: III.			
Prerequisities:			
Conditions for cour Co-author of a mono	se completion: graph in a renowned publis	ning house.	
He demonstrates the applying them critic in an innovative wa publish according to	ability to reflect on a scier ally. He demonstrates the c y, as well as to generate n the highest qualitative and c	prrect scientific methods or research methodology. Attific problem by using the latest approaches and competence to use existing theories and concepts ew original scientific knowledge, which he can ethical standards of the field. The doctoral student d respond to reviewers' suggestions, to finalize his	
Brief outline of the	course:		
Recommended liter	ature:		
Course language:			
Notes:			
Course assessment Total number of asse	essed students: 0		
abs n			
		0.0 0.0	
		0.0	
Provides:		0.0	
Provides: Date of last modific:	0.0	0.0	

×		
-	rik University in Košice	
Faculty: Faculty of S	cience	
Course ID: ÚMV/ NRZ/22	Course name: Non-Review	wed International or National Proceedings
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: 2	
Recommended seme	ster/trimester of the cours	e:
Course level: III.		
Prerequisities:		
Conditions for cours A publication publish	-	gn or national journal as an author/co-author.
demonstrates the abi methodology. He dem approaches and apply and concepts in an int he can publish accord	ility to identify, evaluate, a monstrates the ability to re- ying them critically. He dem novative way, as well as to g rding to the highest qualitat	hal journal as an author/co-author, the PhD student nd apply correct scientific methods or research flect on a scientific problem by using the latest constrates the competence to use existing theories generate new original scientific knowledge, which tive and ethical standards of the field. The phD wn thoughts in a written speech.
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:		
Provides: Date of last modifica	ition: 08.11.2022	

University: P. J. Šafá	rik University in Košice	
Faculty: Faculty of S	cience	
Course ID: ÚMV/ PVS/04	Course name: Patent, inve	ention, software
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:
Course level: III.		
Prerequisities:		
Conditions for cours Patent filed, inventio	e completion: n, software product created.	
	nonstrates the ability to creat interdisciplinary scale or in	e an innovative product in a given scientific field, technical practice
Brief outline of the c	ourse:	
Recommended litera	nture:	
Course language:		
Notes:		
Course assessment Total number of asse	ssed students: 2	
	abs	n
	100.0	0.0
Provides:		
Date of last modifica	tion: 08.11.2022	
Approved: prof. RNI	Dr. Jozef Doboš, CSc.	

University: P. J. Šafărik University in Košice Faculty: Faculty of Science Course ID: KPE/ PgVU/17 Course name: Pedagogy for University Teachers PgVU/17 Course type, scope and the method: Course type: Lecture Recommended course-load (hours): Per weck: Per study period: 28s Course method: distance, present Number of ECTS credits: 5 Recommended semester/trimester of the course: Course level: III. Prerequisities: Congulatory active participation and attendance in accordance with the Study Regulations. Learning outcomes: After completing the course, the student will acquire knowledge, skills, and competencies, i.e., wi be able to: Knowledge Define and apply basic didactic principles, methods, forms, and tools in the teaching process of university-level professional subjects. Identify and specify educational procedures of a universit teacher aimed at effective teaching management, pedagogical diagnostics, and assessment of learning outcomes. Recognize different approaches to pedagogical diagnostics, and assessment of improving the quality of the educational process at the university level. Skills Implement effective educational methods and techniques into the teaching of professional subjects. Skills Implement effective educational methods and techniques for improvement, and enhance the teachin of professional subjects, including the rationalization of the time and content structure of teaching Present specific proposals for improving the teaching process, including the use of new technologie and innovative pedagogical approaches. Competencies Competencies Male effectively m		COURSE INFORMATION LETTER
Course ID: KPE/ PgVU/17 Course name: Pedagogy for University Teachers PgVU/17 Course type, scope and the method: Course type, scope and the method: Course type: Lecture Recommended course-load (hours): Per week: Per study period: 28s Course method: distance, present Number of ECTS credits: 5 Recommended semester/trimester of the course: Course level: III. Prerequisities: Prerequisities: Conditions for course completion: 1. Development of a teaching diary—100% 2. Compulsory active participation and attendance in accordance with the Study Regulations. Learning outcomes: After completing the course, the student will acquire knowledge, skills, and competencies, i.e., wi be able to: Knowledge Define and apply basic didactic principles, methods, forms, and tools in the teaching process c university-level professional subjects. Identify and specify educational procedures of a universit teacher aimed at effective teaching management, pedagogical diagnostics, and assessment c learning outcomes. Recognize different approaches to pedagogical evaluation and their impact o improving the quality of the educational process at the university level. Skills Implement effective educational methods and techniques into the teaching of professional subjects tailored to the needs of university students. Conduct pedagogical diagnostics, assess student progress, and apply appropriate evaluation methods to improve learning outcomes. Analyze an reflect on one's own teaching process, identify areas for improvement, and enhance the teaching of professional subjects, including the rationalization of the time and content structure of teaching Present specific proposals for improving the teaching process, including the use of new technologie	University: P. J. Šafá	rik University in Košice
PgVU/17 Course type, scope and the method: Course type: Lecture Recommended course-load (hours): Per week: Per study period: 28s Course type: Lecture Recommended semester/trimester of the course: Course type: Lecture Recommended semester/trimester of the course: Course tevel: III. Prerequisities: Conditions for course completion: 1. Development of a teaching diary—100% 2. Compulsory active participation and attendance in accordance with the Study Regulations. Learning outcomes: After completing the course, the student will acquire knowledge, skills, and competencies, i.e., wi be able to: Knowledge Define and apply basic didactic principles, methods, forms, and tools in the teaching process or university-level professional subjects. Identify and specify educational procedures of a universit teacher aimed at effective teaching management, pedagogical diagnostics, and assessment clearning outcomes. Recognize different approaches to pedagogical diagnostics, and assessment or improving the quality of the educational process at the university level. Skills Implement effective educational methods and techniques into the teaching of professional subjects including the rationalization of the time and content structure of teaching process, identify areas for improvement, and enhance the teaching of professional subjects including the rationalization of the time and content structure of teaching present specific proposals for improving the teaching of university subjects, applying educationa competencies that consider the specifics of higher ed	Faculty: Faculty of S	cience
Course type: Lecture Recommended course-load (hours): Per week: Per study period: 28s Course method: distance, present Number of ECTS credits: 5 Recommended semester/trimester of the course: Course level: III. Prerequisities: Conpulsory active participation and attendance in accordance with the Study Regulations. Learning outcomes: After completing the course, the student will acquire knowledge, skills, and competencies, i.e., wi be able to: Knowledge Define and apply basic didactic principles, methods, forms, and tools in the teaching process of university-level professional subjects. Identify and specify educational procedures of a universit teacher aimed at effective teaching management, pedagogical diagnostics, and assessment of learning outcomes. Recognize different approaches to pedagogical evaluation and their impact of improving the quality of the educational process at the university level. Skills Implement effective educational methods and techniques into the teaching of professional subjects tailored to the needs of university students. Conduct pedagogical diagnostics, assess student progress, and apply appropriate evaluation methods to improve learning outcomes. Analyze an reflect on one's own teaching process, identify areas for improvement, and enhance the teaching of professional subjects. Including the teaching process, including the use of new technologic and innovative pedagogical approaches. Compretencies Comproxing the effectively manage the teac		Course name: Pedagogy for University Teachers
Number of ECTS credits: 5 Recommended semester/trimester of the course: Course level: III. Prerequisities: Conditions for course completion: 1. Development of a teaching diary—100% 2. Compulsory active participation and attendance in accordance with the Study Regulations. Learning outcomes: After completing the course, the student will acquire knowledge, skills, and competencies, i.e., wi be able to: Knowledge Define and apply basic didactic principles, methods, forms, and tools in the teaching process or university-level professional subjects. Identify and specify educational procedures of a universit teacher aimed at effective teaching management, pedagogical diagnostics, and assessment or improving the quality of the educational process at the university level. Skills Implement effective educational methods and techniques into the teaching of professional subjects tailored to the needs of university students. Conduct pedagogical diagnostics, assess student progress, and apply appropriate evaluation methods to improve learning outcomes. Analyze an reflect on one's own teaching process, identify areas for improvement, and enhance the teaching Present specific proposals for improving the teaching process, including the rationalization of the time and content structure of teaching Present specific proposals for improving the teaching process, including the use of new technologie and innovative pedagogical approaches. Competencies Completencies that consider the specifics of higher education. Critically reflect on	Course type: Lectur Recommended cour Per week: Per stud	re rse-load (hours): ly period: 28s
Course level: III. Prerequisities: Conditions for course completion: 1. Development of a teaching diary—100% 2. Compulsory active participation and attendance in accordance with the Study Regulations. Learning outcomes: After completing the course, the student will acquire knowledge, skills, and competencies, i.e., wi be able to: Knowledge Define and apply basic didactic principles, methods, forms, and tools in the teaching process of university-level professional subjects. Identify and specify educational procedures of a universit teacher aimed at effective teaching management, pedagogical diagnostics, and assessment of learning outcomes. Recognize different approaches to pedagogical evaluation and their impact o improving the quality of the educational process at the university level. Skills Implement effective educational methods and techniques into the teaching of professional subjects tailored to the needs of university students. Conduct pedagogical diagnostics, assess student of professional subjects, including the rationalization of the time and content structure of teaching Present specific proposals for improving the teaching process, including the use of new technologie and innovative pedagogical approaches. Competencies Confidently and effectively manage the teaching of university subjects, applying educationa competencies that consider the specifics of higher education. Critically reflect on one's on professional subjects of higher education. Critically reflect on one's on prove teaching outcomes of students to improve teaching methods an professional subjects. Competencies Confidently and effectively manage the teaching of university subjects, applying educational competencies that consider the specifics of higher education. Critically reflect on one's on professional Confidently and effectively manage the teaching of university subjects applying Competencies Confidently and the learning outcomes of students to improve teaching Confidently and Confidently and Confidently and Confidently and Confide		
Prerequisities: Conditions for course completion: 1. Development of a teaching diary—100% 2. Compulsory active participation and attendance in accordance with the Study Regulations. Learning outcomes: After completing the course, the student will acquire knowledge, skills, and competencies, i.e., wi be able to: Knowledge Define and apply basic didactic principles, methods, forms, and tools in the teaching process of university-level professional subjects. Identify and specify educational procedures of a universit teacher aimed at effective teaching management, pedagogical diagnostics, and assessment of learning outcomes. Recognize different approaches to pedagogical evaluation and their impact o improving the quality of the educational process at the university level. Skills Implement effective educational methods and techniques into the teaching of professional subjects: tailored to the needs of university students. Conduct pedagogical diagnostics, assess student progress, and apply appropriate evaluation methods to improve learning outcomes. Analyze an reflect on one's own teaching process, identify areas for improvement, and enhance the teaching Present specific proposals for improving the teaching process, including the use of new technologie and innovative pedagogical approaches. Competencies Confidently and effectively manage the teaching of university subjects, applying educationar competencies that consider the specifics of higher education. Critically reflect on one's ow pedagogical practice and the learning outcomes of students to improve teaching methods an competencies to a consider the specifics of higher education. Critically reflect on one's ow pedagogical practice and the learning outcomes of students to improve teaching methods an	Recommended seme	ster/trimester of the course:
Conditions for course completion: 1. Development of a teaching diary—100% 2. Compulsory active participation and attendance in accordance with the Study Regulations. Learning outcomes: After completing the course, the student will acquire knowledge, skills, and competencies, i.e., wi be able to: Knowledge Define and apply basic didactic principles, methods, forms, and tools in the teaching process of university-level professional subjects. Identify and specify educational procedures of a universit teacher aimed at effective teaching management, pedagogical diagnostics, and assessment of learning outcomes. Recognize different approaches to pedagogical evaluation and their impact o improving the quality of the educational process at the university level. Skills Implement effective educational methods and techniques into the teaching of professional subjects tailored to the needs of university students. Conduct pedagogical diagnostics, assess student progress, and apply appropriate evaluation methods to improve learning outcomes. Analyze an reflect on one's own teaching process, identify areas for improvement, and enhance the teaching of professional subjects, including the teaching process, including the use of new technologie and innovative pedagogical approaches. Competencies Confidently and effectively manage the teaching of university subjects, applying educationa competencies that consider the specifics of higher education. Critically reflect on one's ow pedagogical practice and the learning outcomes of students to improve teaching methods an	Course level: III.	
 Development of a teaching diary—100% Compulsory active participation and attendance in accordance with the Study Regulations. Learning outcomes: After completing the course, the student will acquire knowledge, skills, and competencies, i.e., will be able to: Knowledge Define and apply basic didactic principles, methods, forms, and tools in the teaching process of university-level professional subjects. Identify and specify educational procedures of a universit teacher aimed at effective teaching management, pedagogical diagnostics, and assessment of improving the quality of the educational process at the university level. Skills Implement effective educational methods and techniques into the teaching of professional subjects tailored to the needs of university students. Conduct pedagogical diagnostics, assess student progress, and apply appropriate evaluation methods to improve learning outcomes. Analyze an reflect on one's own teaching process, identify areas for improvement, and enhance the teaching Present specific proposals for improving the teaching process, including the use of new technologie and innovative pedagogical approaches. Competencies Confidently and effectively manage the teaching of university subjects, applying educational competencies that consider the specifics of higher education. Critically reflect on one's ow pedagogical practice and the learning outcomes of students to improve teaching methods an 	Prerequisities:	
After completing the course, the student will acquire knowledge, skills, and competencies, i.e., will be able to: Knowledge Define and apply basic didactic principles, methods, forms, and tools in the teaching process of university-level professional subjects. Identify and specify educational procedures of a universit teacher aimed at effective teaching management, pedagogical diagnostics, and assessment of learning outcomes. Recognize different approaches to pedagogical evaluation and their impact of improving the quality of the educational process at the university level. Skills Implement effective educational methods and techniques into the teaching of professional subjects tailored to the needs of university students. Conduct pedagogical diagnostics, assess student progress, and apply appropriate evaluation methods to improve learning outcomes. Analyze an reflect on one's own teaching process, identify areas for improvement, and enhance the teaching Present specific proposals for improving the teaching process, including the use of new technologie and innovative pedagogical approaches. Competencies Confidently and effectively manage the teaching of university subjects, applying educational competencies that consider the specifics of higher education. Critically reflect on one's ow pedagogical practice and the learning outcomes of students to improve teaching methods an	1. Development of a	teaching diary—100%
optimize the teaching process, aiming to increase the engagement and success of university students Brief outline of the course:	be able to: Knowledge Define and apply bas university-level profe teacher aimed at eff learning outcomes. R improving the quality Skills Implement effective of tailored to the needs progress, and apply a reflect on one's own of professional subject Present specific prope and innovative pedag Competencies Confidently and effect competencies that competencies that competencies achieve a higher quality optimize the teaching	sic didactic principles, methods, forms, and tools in the teaching process of essional subjects. Identify and specify educational procedures of a university fective teaching management, pedagogical diagnostics, and assessment of tecognize different approaches to pedagogical evaluation and their impact of y of the educational process at the university level. educational methods and techniques into the teaching of professional subjects s of university students. Conduct pedagogical diagnostics, assess students appropriate evaluation methods to improve learning outcomes. Analyze and teaching process, identify areas for improvement, and enhance the teaching ets, including the rationalization of the time and content structure of teaching posals for improving the teaching process, including the use of new technologies gogical approaches. eetively manage the teaching of university subjects, applying educationa onsider the specifics of higher education. Critically reflect on one's own and the learning outcomes of students to improve teaching methods and ity of the educational process. Apply innovative solutions to streamline and process, aiming to increase the engagement and success of university students

The personality of a university teacher. Teaching styles. Student in university education. Student learning styles. Possibilities of adapting teaching styles and student learning styles. University teacher–student interaction and communication in the teaching process. Pedagogical competencies

of a university teacher. Didactic analysis of the curriculum; teaching materials and textbooks. Forms of university teaching. Methods of university teaching. Verification methods and student assessment. Creation of a didactic test. Designing university teaching process. University teacher self-reflection.

Recommended literature:

Beránek, J. (2023). Moderní pedagogické metody a přístupy. Praha: Portál.

Fiala, M. (2023). Didaktika a metodika v současné škole. Praha: Grada Publishing.

Kováč, M. (2023). Vzdelávanie v 21. storočí: Inovatívne prístupy a metódy. Nitra: Vydavateľstvo UKF v Nitre.

Koudelka, J. (2023). Moderní didaktika a její aplikace. Praha: Karolinum.

Křížová, M., & Šebová, P. (2023). Vzdělávání učitelů: Teoretické a praktické přístupy. Praha: Triton.

Kučerová, M. (2023). Vzdělávání učitelů a profesionální rozvoj. Praha: Triton.

Mocová, M., & Lázňovská, M. (2023). Pedagogika a jej aplikácie v praxi. Bratislava:

Vydavateľstvo Spolku slovenských pedagogických pracovníkov.

Novák, J., & Pol, M. (2024). Pedagogické výzkumy a inovace ve vzdělávání. Praha: Portál.

Sikora, J. (2022). Didaktika a metodika vzdelávania: Nové výzvy a trendy. Bratislava:

Vydavateľstvo Univerzity Komenského v Bratislave.

Škoda, J. (2022). Efektivní výuka: Praktické strategie a metody. Praha: Grada Publishing. Švec, J. (2023). Didaktika a školní politika: Teorie a praxe. Praha: Grada Publishing. Vojtová, K. (2024). Diferenciace a inkluze ve vzdělávání. Praha: Wolters Kluwer.

Course language:

slovak

Notes:

Course assessment Total number of assessed studen	ts: 121	
abs	n	neabs
98.35	0.0	1.65
Provides: doc. PaedDr. Renáta C	Prosová, PhD.	
Date of last modification: 14.09	.2024	
Approved: prof. RNDr. Jozef Do	oboš, CSc.	

University: P. J. Šaf	árik University in Koši	ce
Faculty: Faculty of	Science	
Course ID: ÚMV/ ODP/14	Course name: PhD	thesis defence
Course type, scope Course type: Recommended cou Per week: Per stu Course method: pr	ırse-load (hours): dy period:	
Number of ECTS c	redits: 30	
Recommended sem	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:		
Notes:		
Course assessment Total number of ass	essed students: 38	
	Ν	Р
	0.0	100.0
Provides:		
Date of last modific	ation: 07.12.2021	
Approved: prof. RN	Dr. Jozef Doboš, CSc.	

	arik University in Košice	
Faculty: Faculty of S	Science	
Course ID: ÚMV/ POP/22	Course name: Popularisat	ion of science
Course type, scope a Course type: Recommended cou Per week: Per stue Course method: pr	rse-load (hours): dy period:	
Number of ECTS cr	redits: 5	
Recommended sem	ester/trimester of the cours	e:
Course level: III.		
Prerequisities:		
Conditions for cour	se completion:	
Learning outcomes: Demonstrated ability communication, iden professional knowled	y to present science to the ntify the target group and a	lay public, use interactive methods of scientific dapt the communication language to the level of arouse interest and motivate specific target groups
Learning outcomes: Demonstrated ability communication, iden professional knowled	y to present science to the ntify the target group and ad dge. A PhD student is able to entific work, but also in the	lay public, use interactive methods of scientific dapt the communication language to the level of arouse interest and motivate specific target groups
Learning outcomes: Demonstrated ability communication, iden professional knowled in the field of his sci	y to present science to the ntify the target group and ad dge. A PhD student is able to entific work, but also in the course:	lay public, use interactive methods of scientific dapt the communication language to the level of arouse interest and motivate specific target groups
Learning outcomes: Demonstrated ability communication, iden professional knowled in the field of his sci Brief outline of the	y to present science to the ntify the target group and ad dge. A PhD student is able to entific work, but also in the course:	lay public, use interactive methods of scientific dapt the communication language to the level of arouse interest and motivate specific target groups
Learning outcomes: Demonstrated ability communication, iden professional knowled in the field of his sci Brief outline of the Recommended liter	y to present science to the ntify the target group and ad dge. A PhD student is able to entific work, but also in the course:	lay public, use interactive methods of scientific dapt the communication language to the level of arouse interest and motivate specific target groups
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Learning outcomes: Demonstrated ability communication, iden professional knowled in the field of his sci Brief outline of the Recommended liter Course language: Notes: Course assessment	y to present science to the ntify the target group and ad dge. A PhD student is able to entific work, but also in the course: ature:	lay public, use interactive methods of scientific dapt the communication language to the level of arouse interest and motivate specific target groups
Learning outcomes: Demonstrated ability communication, iden professional knowled in the field of his sci Brief outline of the Recommended liter Course language: Notes: Course assessment	y to present science to the ntify the target group and ad dge. A PhD student is able to entific work, but also in the course: ature:	lay public, use interactive methods of scientific dapt the communication language to the level of arouse interest and motivate specific target groups wider context of science.
Learning outcomes: Demonstrated ability communication, iden professional knowled in the field of his sci Brief outline of the Recommended liter Course language: Notes: Course assessment	y to present science to the ntify the target group and ad dge. A PhD student is able to entific work, but also in the course: ature: essed students: 0 abs	lay public, use interactive methods of scientific dapt the communication language to the level of arouse interest and motivate specific target groups wider context of science. n
Learning outcomes: Demonstrated ability communication, iden professional knowled in the field of his sci Brief outline of the of Recommended liter Course language: Notes: Course assessment Total number of asse	y to present science to the ntify the target group and ad dge. A PhD student is able to entific work, but also in the course: ature: essed students: 0 abs 0.0	lay public, use interactive methods of scientific dapt the communication language to the level of arouse interest and motivate specific target groups wider context of science. n

	rik University in Košice	
Faculty: Faculty of S	Science	
Course ID: ÚMV/ VYS/22	Course name: Presentation	n of results in seminar
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pro	rse-load (hours): ly period:	
Number of ECTS cr	edits: 5	
Recommended seme	ester/trimester of the cours	se:
Course level: III.		
Prerequisities:		
Conditions for cours Presentation at the se	-	
Learning outcomes:		the student demonstrates the chility to identify
By actively particip evaluate, and apply demonstrates the abi and applying them c an innovative way, a research results by ac	ating in the seminar, the F correct scientific methods of lity to reflect on a specific ritically. Demonstrates com as well as generating new of dequate means and through	ThD student demonstrates the ability to identify, or research methodology in his field of study. He scientific problem by using the latest approaches petence in using existing theories and concepts in original scientific knowledge and communicating Slovak or a foreign language.
By actively particip evaluate, and apply demonstrates the abi and applying them c an innovative way, a research results by ac Brief outline of the c	ating in the seminar, the F correct scientific methods of lity to reflect on a specific ritically. Demonstrates com as well as generating new of dequate means and through course:	or research methodology in his field of study. He scientific problem by using the latest approaches petence in using existing theories and concepts in original scientific knowledge and communicating
By actively particip evaluate, and apply demonstrates the abi and applying them c an innovative way, a research results by ac Brief outline of the o Recommended liter	ating in the seminar, the F correct scientific methods of lity to reflect on a specific ritically. Demonstrates com as well as generating new of dequate means and through course:	or research methodology in his field of study. He scientific problem by using the latest approaches petence in using existing theories and concepts in original scientific knowledge and communicating
By actively particip evaluate, and apply demonstrates the abi and applying them c an innovative way, a research results by ac Brief outline of the o Recommended liters Course language:	ating in the seminar, the F correct scientific methods of lity to reflect on a specific ritically. Demonstrates com as well as generating new of dequate means and through course:	or research methodology in his field of study. He scientific problem by using the latest approaches petence in using existing theories and concepts in original scientific knowledge and communicating
By actively particip evaluate, and apply demonstrates the abi and applying them c an innovative way, a research results by ac Brief outline of the o Recommended liter	ating in the seminar, the F correct scientific methods of lity to reflect on a specific ritically. Demonstrates com as well as generating new of dequate means and through course: ature:	or research methodology in his field of study. He scientific problem by using the latest approaches petence in using existing theories and concepts in original scientific knowledge and communicating
By actively particip evaluate, and apply demonstrates the abi and applying them c an innovative way, a research results by ac Brief outline of the o Recommended liters Course language: Notes:	ating in the seminar, the F correct scientific methods of lity to reflect on a specific ritically. Demonstrates com as well as generating new of dequate means and through course: ature:	or research methodology in his field of study. He scientific problem by using the latest approaches petence in using existing theories and concepts in original scientific knowledge and communicating
By actively particip evaluate, and apply demonstrates the abi and applying them c an innovative way, a research results by ac Brief outline of the o Recommended liters Course language: Notes:	ating in the seminar, the F correct scientific methods of lity to reflect on a specific ritically. Demonstrates com as well as generating new of dequate means and through course: ature:	by research methodology in his field of study. He scientific problem by using the latest approaches petence in using existing theories and concepts in original scientific knowledge and communicating Slovak or a foreign language.
By actively particip evaluate, and apply demonstrates the abi and applying them c an innovative way, a research results by ac Brief outline of the o Recommended liters Course language: Notes:	ating in the seminar, the F correct scientific methods of lity to reflect on a specific ritically. Demonstrates com as well as generating new of dequate means and through course: ature:	n
By actively particip evaluate, and apply demonstrates the abi and applying them c an innovative way, a research results by ac Brief outline of the o Recommended liters Course language: Notes: Course assessment Total number of asse	ating in the seminar, the F correct scientific methods of lity to reflect on a specific ritically. Demonstrates com as well as generating new of dequate means and through course: ature: essed students: 54 abs 100.0	n

-	rik University in Košice	
Faculty: Faculty of S	cience	
Course ID: ÚMV/ ZRIG/22	Course name: Principal in	vestigator of an internal grant (VVGS)
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pro	rse-load (hours): ly period:	
Number of ECTS cr	edits: 10	
Recommended seme	ester/trimester of the cours	e:
Course level: III.		
Prerequisities:		
Conditions for cours Principal investigator	se completion: r of an internal grant (VVGS	5)
problem within the in their time schedule, the internal VVGS g established procedure the PhD student acqu	ternal grant system at UPJŠ. measurable outputs and ade grant acquires the ability to e, to be responsible for achie	cess a successful application for his own research Acquires skills with the design of research stages, equate distribution of funds. The very solution of implement the project intention according to the eving the set outputs. As a responsible researcher, management, its administration, and presentation
of results.	×	
of results. Brief outline of the c	course:	
Brief outline of the c		
Brief outline of the o Recommended litera		
Brief outline of the o Recommended litera Course language:	ature:	
Brief outline of the of Recommended liters Course language: Notes: Course assessment	ature:	n
Brief outline of the of Recommended litera Course language: Notes: Course assessment	ature: ssed students: 9	n 0.0
Brief outline of the of Recommended litera Course language: Notes: Course assessment	ature: ssed students: 9 abs	
Brief outline of the of Recommended litera Course language: Notes: Course assessment Total number of asse	ature: ssed students: 9 abs 100.0	

	COURSE INFORMATION LETTER
University: P. J. Šafá	árik University in Košice
Faculty: Faculty of S	Science
Course ID: KPPaPZ/PsVU/17	Course name: Psychology for University Lecturers
Course type, scope a Course type: Lectu Recommended cou Per week: Per stud Course method: dis	re irse-load (hours): dy period: 28s
Number of ECTS cr	redits: 5
Recommended seme	ester/trimester of the course:
Course level: III.	
Prerequisities:	
Learning outcomes: After completing the summarize and explae motivation psychology health psychology. T for the professional, to create and implement and develop the con- the application of p	tiput, its analysis as of the course are listed in the electronic bulletin board of the course. The course, students will gain knowledge that allows them to understand, ain selected psychological knowledge from cognitive psychology, emotion and gy, personality psychology, developmental, social, educational psychology and they will acquire skills to apply the above psychological knowledge necessary competent performance of university teaching practice of doctoral students the teaching of a professional topic with applied psychological knowledge mpetences to create and implement teaching of a professional topic with sychological knowledge, as well as to evaluate their performance and the classmates in the form of constructive feedback.
The content of the corpsychology of emotion psychology and hear interactive, experient of independence, act in the teaching processocial and competent student relationship of	ourse is based on selected psychological knowledge of cognitive psychology, ons and motivation, personality psychology, developmental, social, educational alth psychology. Teaching is realized by a combination of lectures with tial methods, discussion, open communication with mutual respect, support tivity and motivation of students. Syllabus: University teacher and his work ess with a focus on: teachers in relation to themselves (cognitive, personal, cies in the use of methods), in relation to students and as part of the teacher- on the basis of selected areas of cognitive psychology, psychology of emotions elopmental 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, 20 Čáp, J., Mareš, J.: Psychologie pro Vágnerová, M.: Školní poradenská	učitele. Praha: Portál 2007.	raha: Karolínum 2005.
Course language: slovak		
Notes:		
Course assessment Total number of assessed students:	87	
abs	n	neabs
98.85	0.0	1.15
Provides: PhDr. Anna Janovská, Ph	nD.	
Date of last modification: 02.12.20)24	
Approved: prof. RNDr. Jozef Dobo	oš, CSc.	

Easthern East 14 CC		
Faculty: Faculty of S	Science	
Course ID: ÚMV/ Q1SA/22	Course name: Q1 journal	as co-author
Course type, scope a Course type: Recommended cou Per week: Per stue Course method: pr	ırse-load (hours): dy period:	
Number of ECTS cr	redits: 30	
Recommended sem	ester/trimester of the cours	e:
Course level: III.		
Prerequisities:		
Conditions for cour Publication accepted	se completion: I in a journal of category Q1	as co-author.
degree of ability to ic		co-author, the PhD student demonstrates a high prrect scientific methods or research methodology.
applying them critica an innovative way, a according to the high	e ability to reflect on a scien ally. He demonstrates the con- as well as to generate new or nest qualitative and ethical sta	tific problem by using the latest approaches and mpetence to use existing theories and concepts in ginal scientific knowledge, which he can publish ndards of the field. The PhD student demonstrates viewers' suggestions, to finalize his own ideas.
applying them critica an innovative way, a according to the high	e ability to reflect on a scien ally. He demonstrates the con- is well as to generate new or nest qualitative and ethical sta- ly evaluate and respond to re	tific problem by using the latest approaches and mpetence to use existing theories and concepts in ginal scientific knowledge, which he can publish ndards of the field. The PhD student demonstrates
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	rik University in Košice	
Faculty: Faculty of S	Science	
Course ID: ÚMV/ Q11A/22	Course name: Q1 journal	as first or corresponding author
Course type, scope a Course type: Recommended cou Per week: Per stuc Course method: pro	rse-load (hours): ly period:	
Number of ECTS cr	edits: 40	
Recommended seme	ester/trimester of the cours	e:
Course level: III.		
Prerequisities:		
Conditions for cours Publication accepted		as first or corresponding author.
		e first of corresponding author, the PhD student
demonstrates a high or research methodo the latest approaches theories and concepts which he can publish	degree of ability to identify logy. He demonstrates the a and applying them critically is in an innovative way, as wel h according to the highest q trates the ability to critically	e first or corresponding author, the PhD student y, evaluate, and apply correct scientific methods bility to reflect on a scientific problem by using y. He demonstrates the competence to use existing l as to generate new original scientific knowledge, ualitative and ethical standards of the field. The y evaluate and respond to reviewers' suggestions,
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demonstrates a high or research methodo the latest approaches theories and concepts which he can publish PhD student demons to finalize his own id Brief outline of the o Recommended liters Course language: Notes: Course assessment	degree of ability to identify logy. He demonstrates the a and applying them critically s in an innovative way, as wel h according to the highest q trates the ability to critically leas. course: ature:	y, evaluate, and apply correct scientific methods bility to reflect on a scientific problem by using the demonstrates the competence to use existing l as to generate new original scientific knowledge, ualitative and ethical standards of the field. The
demonstrates a high or research methodo the latest approaches theories and concepts which he can publish PhD student demons to finalize his own id Brief outline of the o Recommended liters Course language: Notes: Course assessment	degree of ability to identify logy. He demonstrates the a and applying them critically is in an innovative way, as wel h according to the highest q strates the ability to critically leas. course: ature:	y, evaluate, and apply correct scientific methods bility to reflect on a scientific problem by using y. He demonstrates the competence to use existing l as to generate new original scientific knowledge, ualitative and ethical standards of the field. The y evaluate and respond to reviewers' suggestions,
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Faculty: Faculty of S		
racuity. Faculty of S	Science	
Course ID: ÚMV/ Q2SA/22	Course name: Q2 journal	as co-author
Course type, scope a Course type: Recommended cou Per week: Per stuc Course method: pro	rse-load (hours): ly period:	
Number of ECTS cr	redits: 20	
Recommended seme	ester/trimester of the cours	e:
Course level: III.		
Prerequisities:		
Conditions for cour Publication accepted	se completion: in a journal of category Q2	as co-author.
He demonstrates the		prrect scientific methods or research methodology. tific problem by using the latest approaches and
an innovative way, a according to the high the ability to critical	s well as to generate new or est qualitative and ethical sta y evaluate and respond to re	mpetence to use existing theories and concepts in iginal scientific knowledge, which he can publish indards of the field. The PhD student demonstrates eviewers' suggestions, to finalize his own ideas.
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University: P. J. Šafárik University in Košice		
Faculty: Faculty of S	Science	
Course ID: ÚMV/ Q21A/22	Course name: Q2 journal	as first or corresponding author
Course type, scope a Course type: Recommended cou Per week: Per stuc Course method: pr	irse-load (hours): dy period:	
Number of ECTS cr	redits: 30	
Recommended seme	ester/trimester of the cours	e:
Course level: III.		
Prerequisities:		
Conditions for cour Publication accepted		as first or corresponding author.
		c mst or corresponding aution, the rind student
demonstrates a high or research methodo the latest approaches theories and concepts which he can publis	degree of ability to identify logy. He demonstrates the a and applying them critically is in an innovative way, as wel h according to the highest q strates the ability to critically	e first or corresponding author, the PhD student y, evaluate, and apply correct scientific methods bility to reflect on a scientific problem by using y. He demonstrates the competence to use existing l as to generate new original scientific knowledge, qualitative and ethical standards of the field. The y evaluate and respond to reviewers' suggestions,
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demonstrates a high or research methodo the latest approaches theories and concepts which he can publis PhD student demons to finalize his own ic Brief outline of the o Recommended liter: Course language: Notes: Course assessment Total number of asse	degree of ability to identify ology. He demonstrates the a s and applying them critically s in an innovative way, as wel h according to the highest q strates the ability to critically deas. course: ature: essed students: 1 abs 100.0	y, evaluate, and apply correct scientific methods bility to reflect on a scientific problem by using y. He demonstrates the competence to use existing l as to generate new original scientific knowledge, qualitative and ethical standards of the field. The y evaluate and respond to reviewers' suggestions, n

Faculty: Faculty of 9	rik University in Košice	
Faculty: Faculty of S	cience	
Course ID: ÚMV/ Q3SA/22Course name: Q3 journal as co-author		
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pro	rse-load (hours): ly period:	
Number of ECTS cr	edits: 15	
Recommended seme	ster/trimester of the cours	e:
Course level: III.		
Prerequisities:		
Conditions for cours Publication accepted	se completion: in a journal of category Q3	as co-author.
degree of ability to id He demonstrates the	entify, evaluate, and apply co ability to reflect on a scien	co-author, the PhD student demonstrates a high prrect scientific methods or research methodology. tific problem by using the latest approaches and
according to the high	s well as to generate new ori est qualitative and ethical sta	mpetence to use existing theories and concepts in ginal scientific knowledge, which he can publish ndards of the field. The PhD student demonstrates viewers' suggestions, to finalize his own ideas.
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according to the high the ability to criticall Brief outline of the o Recommended litera Course language: Notes: Course assessment	s well as to generate new ori est qualitative and ethical sta y evaluate and respond to re course:	ginal scientific knowledge, which he can publish ndards of the field. The PhD student demonstrates
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according to the high the ability to criticall Brief outline of the o Recommended litera Course language: Notes: Course assessment	s well as to generate new ori est qualitative and ethical sta y evaluate and respond to re course: ature: ssed students: 1 abs	ginal scientific knowledge, which he can publish ndards of the field. The PhD student demonstrates viewers' suggestions, to finalize his own ideas.
according to the high the ability to criticall Brief outline of the c Recommended litera Course language: Notes: Course assessment Total number of asse	s well as to generate new ori est qualitative and ethical sta y evaluate and respond to re course: ature: ssed students: 1 abs 100.0	ginal scientific knowledge, which he can publish ndards of the field. The PhD student demonstrates viewers' suggestions, to finalize his own ideas.

University: P. J. Šafa	árik University in Košice	
Faculty: Faculty of S	Science	
Course ID: ÚMV/ Q31A/22	Course name: Q3 journal	as first or corresponding author
Course type, scope a Course type: Recommended cou Per week: Per stue Course method: pr	rse-load (hours): dy period:	
Number of ECTS cr	redits: 25	
Recommended sem	ester/trimester of the cour	se:
Course level: III.		
Prerequisities:		
Conditions for cour Publication accepted	1	as first or corresponding author
demonstrates a high or research methodo the latest approaches theories and concept which he can publis	degree of ability to identify logy. He demonstrates the and applying them criticall is in an innovative way, as we h according to the highest strates the ability to criticall	he first or corresponding author, the PhD student by, evaluate, and apply correct scientific methods ability to reflect on a scientific problem by using y. He demonstrates the competence to use existing ll as to generate new original scientific knowledge, qualitative and ethical standards of the field. The y evaluate and respond to reviewers' suggestions,
Brief outline of the	course:	
Recommended liter	ature:	
Course language:		
Notes:		
Course assessment Total number of assessed students: 0		
	abs n	
0.0 0.0		
Provides:	0.0	0.0
Provides: Date of last modific		0.0

	árik University in Košice	
Faculty: Faculty of S	Science	
Course ID: ÚMV/ Q4SA/22	Course name: Q4 journ	al as co-author
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pr	irse-load (hours): dy period:	
Number of ECTS ci	redits: 10	
Recommended sem	ester/trimester of the cou	irse:
Course level: III.		
Prerequisities:		
Conditions for cour Publication accepted	se completion: l in a journal of category (Q4 as co-author.
Learning outcomes:		
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identify, evaluate, and the ability to reflect critically. He demon way, as well as to get the highest qualitative to critically evaluate Brief outline of the Recommended liter	ad apply correct scientific to a scientific problem strates the competence to enerate new original scient we and ethical standards of and respond to reviewers course: ature:	methods or research methodology. He demonstrates by using the latest approaches and applying them use existing theories and concepts in an innovative tific knowledge, which he can publish according to f the field. The PhD student demonstrates the ability
identify, evaluate, and the ability to reflect critically. He demon way, as well as to get the highest qualitative to critically evaluate Brief outline of the of Recommended liter Course language: Notes: Course assessment	ad apply correct scientific to a scientific problem strates the competence to enerate new original scient we and ethical standards of and respond to reviewers course: ature:	methods or research methodology. He demonstrates by using the latest approaches and applying them use existing theories and concepts in an innovative tific knowledge, which he can publish according to f the field. The PhD student demonstrates the ability
identify, evaluate, and the ability to reflect critically. He demon way, as well as to get the highest qualitative to critically evaluate Brief outline of the of Recommended liter Course language: Notes: Course assessment	ad apply correct scientific to a scientific problem strates the competence to enerate new original scient we and ethical standards of and respond to reviewers course: ature: essed students: 0	methods or research methodology. He demonstrates by using the latest approaches and applying them use existing theories and concepts in an innovative tific knowledge, which he can publish according to f the field. The PhD student demonstrates the ability 'suggestions, to finalize his own ideas.
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Faculty: Faculty of S	University: P. J. Šafárik University in Košice		
Faculty: Faculty of Science			
Course ID: ÚMV/ Q41A/22Course name: Q4 journal as first or corresponding author			
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: 20		
Recommended seme	ester/trimester of the cours	e:	
Course level: III.			
Prerequisities:			
Conditions for cours Publication accepted		as first or corresponding author.	
demonstrates a high or research methodo the latest approaches theories and concepts	degree of ability to identify logy. He demonstrates the a and applying them critically	e first or corresponding author, the PhD student y, evaluate, and apply correct scientific methods bility to reflect on a scientific problem by using y. He demonstrates the competence to use existing	
PhD student demons to finalize his own id	h according to the highest q trates the ability to critically leas.	l as to generate new original scientific knowledge, ualitative and ethical standards of the field. The v evaluate and respond to reviewers' suggestions,	
PhD student demons	h according to the highest q trates the ability to critically leas.	ualitative and ethical standards of the field. The	
PhD student demons to finalize his own id Brief outline of the c Recommended litera	h according to the highest q trates the ability to critically leas.	ualitative and ethical standards of the field. The	
PhD student demons to finalize his own id Brief outline of the c	h according to the highest q trates the ability to critically leas.	ualitative and ethical standards of the field. The	
PhD student demons to finalize his own id Brief outline of the c Recommended litera	h according to the highest q trates the ability to critically leas.	ualitative and ethical standards of the field. The	
PhD student demons to finalize his own id Brief outline of the c Recommended litera Course language:	h according to the highest q trates the ability to critically leas. course: ature:	ualitative and ethical standards of the field. The	
PhD student demons to finalize his own id Brief outline of the c Recommended litera Course language: Notes: Course assessment	h according to the highest q trates the ability to critically leas. course: ature:	ualitative and ethical standards of the field. The	
PhD student demons to finalize his own id Brief outline of the c Recommended litera Course language: Notes: Course assessment	h according to the highest q trates the ability to critically leas. course: ature: ssed students: 2	ualitative and ethical standards of the field. The veluate and respond to reviewers' suggestions,	
PhD student demons to finalize his own id Brief outline of the c Recommended litera Course language: Notes: Course assessment	h according to the highest q trates the ability to critically leas. course: ature: ssed students: 2 abs	n	
PhD student demons to finalize his own id Brief outline of the of Recommended litera Course language: Notes: Course assessment Total number of asse	h according to the highest q trates the ability to critically leas. course: ature: ssed students: 2 abs 100.0	n	

	COURSE INFORMATION LETTER
University: P. J. Šafán	rik University in Košice
Faculty: Faculty of S	cience
Course ID: ÚMV/ dVPM/15	Course name: Research approach to mathematics education
Course type, scope a Course type: Lectur Recommended cour Per week: 3 Per stu Course method: pre	re rse-load (hours): dy period: 42
Number of ECTS cro	edits: 6
Recommended seme	ster/trimester of the course: 1., 3.
Course level: III.	
Prerequisities:	
implement a research skills for scientific w	research approach to mathematics teaching. Gain an overview of ways to approach to the teaching of mathematics and methods of developing students' work. Ability to plan the application of a research approach to the teaching tical topics and to describe the preparation of appropriate teaching aids for
education. Gain pract	principles and procedures in applying the research approach to mathematics ical experience with the creation of methodological and teaching materials for s at primary and secondary schools.
education. Case studies of the us Structure of competer	ourse: IBSE method and the possibilities of its implementation in mathematics se of research methods in teaching specific mathematical topics. ncies for scientific work from the perspective of the student / pupil. digital technologies in the application of research approaches to the teaching
Hejný, M., Novotná, Karlova v Praze, 200 De Villiers, M., D.: R Press, 2003.	ve školské matematice, Ružomberok, 2006. J., Stehlíková, N.: Dvacet pět kapitol z didaktiky matematiky, Univerzita 4. Rethinking proof with The Geometer's Sketchpad. Key Curriculum umne ladená koncepcia prírodovedného vzdelávania. Pedagogická fakulta
Course language: Slovak or English	

Notes:

Course assessment	
Total number of assessed students: 5	
Ν	Р
0.0	100.0
Provides: doc. RNDr. Dušan Šveda, CSc., doc. R	NDr. Stanislav Lukáč, PhD.
Date of last modification: 12.01.2022	
Approved: prof. RNDr. Jozef Doboš, CSc.	

University: P. J. Šafá	rik University in Košice	
Faculty: Faculty of S	cience	
Course ID: ÚMV/ Course name: SCI or SCOPUS citation SCI/22		
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	rse-load (hours): y period:	
Number of ECTS cr	edits: 8	
Recommended seme	ster/trimester of the cours	se:
Course level: III.		
Prerequisities:		
Conditions for cours Obtained citation reg	e completion: istered in SCI or Scopus.	
researched field, base problem in such a wa source demonstrates contribution to scient	ed on the ability to formulay that generates new know the competence to commission the high	very well-founded scientific knowledge in the late research questions, to reflect on a scientific vledge. At the same time, a citation in an indexed nunicate new knowledge, which is a significant est expert level.
Brief outline of the c	ourse:	
Recommended litera	iture:	
Course language:		
Notes:		
Course assessment Total number of asses	ssed students: 3	
	abs n	
	100.0	0.0
Provides:		
Provides: Date of last modifica	tion: 08.11.2022	

University: P. J. Šafa	árik University in Košice	
Faculty: Faculty of S	Science	
Course ID: ÚMV/ dPRZ/12	Course name: Scientific p	publication in peer-reviewed proceedings
Course type, scope a Course type: Recommended cou Per week: Per stue Course method: pr	urse-load (hours): dy period: resent	
Number of ECTS ci		
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	ature:	
Course language:		
Notes:		
Course assessment Total number of asse	essed students: 31	
abs n		
	100.0 0.0	
Provides:		·
Date of last modific	ation:	
Approved: prof. RN	Dr. Jozef Doboš, CSc.	

University: P. J. Šaf	árik University in Košice	
Faculty: Faculty of	Science	
Course ID: ÚMV/ dPCR/12	Course name: Scientific Reviews or Zentralblatt M	publication registered in the database Math.
Course type, scope Course type: Recommended cou Per week: Per stu Course method: pr	urse-load (hours): dy period: resent	
Number of ECTS c		
	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:		
Notes:		
Course assessment Total number of asse	essed students: 9	
abs n		
	100.0 0.0	
Provides:		
Date of last modific	ation:	
Approved: prof. RN	Dr. Jozef Doboš, CSc.	

University: P. J. Šafa	árik University in Košice	
Faculty: Faculty of S	Science	
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 stue Course method: pr	urse-load (hours): dy period: resent	
Number of ECTS c		
	ester/trimester of the cou	rse:
Course level: III.		
Prerequisities:		
Conditions for cour	se completion:	
Learning outcomes	:	
Brief outline of the	course:	
Recommended liter	ature:	
Course language:		
Notes:		
Course assessment Total number of asse	essed students: 5	
abs n		
	100.0 0.0	
Provides:		· · · · · · · · · · · · · · · · · · ·
Date of last modific	ation:	
Approved: prof. RN	Dr. Jozef Doboš, CSc.	

University: P. J. Šaf	ărik University in Košice	2
Faculty: Faculty of	Science	
Course ID: ÚMV/ dPCW/12	Course name: Scienti Science or Scopus	fic publication registered in the database Web of
Course type, scope Course type: Recommended cou Per week: Per stu Course method: p	urse-load (hours): dy period: resent	
Number of ECTS c		
	ester/trimester of the c	ourse:
Course level: III.		
Prerequisities:		
Conditions for cour	rse completion:	
Learning outcomes	:	
Brief outline of the	course:	
Recommended liter	ature:	
Course language:		
Notes:		
Course assessment Total number of ass	essed students: 69	
	abs	n
	100.0	0.0
Provides:		
Date of last modific	cation:	
Approved: prof. RN	Dr. Jozef Doboš, CSc.	

University: P. J. Šafa	arik University in Košice	
Faculty: Faculty of S	Science	
Course ID: ÚMV/ VPZ/22	Course name: Scientific w	ork after sending to the editorial office
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pr	rse-load (hours): dy period:	
Number of ECTS cr	redits: 5	
Recommended sem	ester/trimester of the cours	e:
Course level: III.		
Prerequisities:		
Conditions for cour Scientific work after	se completion: being sent to the editorial of	ffice as an author/co-author.
demonstrates a high or research methodo the latest approaches theories and concepts which he can publis	degree of ability to identify logy. He demonstrates the a and applying them critically s in an innovative way, as wel h according to the highest q	fic journal as an author/co-author, the PhD student y, evaluate, and apply correct scientific methods bility to reflect on a scientific problem by using y. He demonstrates the competence to use existing l as to generate new original scientific knowledge, ualitative and ethical standards of the field. The e his own ideas in a structured form.
Brief outline of the	course:	
Recommended liter	ature:	
Course language:		
Notes:		
Course assessment Total number of asse	essed students: 8	
	essed students: 8 abs	n
		n 0.0
	abs	
Total number of asse	abs 100.0	

University: P. J. Šafá	rik University in Košice	
Faculty: Faculty of S	Science	
Course ID: ÚMV/ dVDM/10	Course name: Selected topics in didactics of mathematics	
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 ECTS cr	redits: 6	

Recommended semester/trimester of the course: 4.

Course level: III.

Prerequisities:

Conditions for course completion:

Seminar work and its presentation at the seminar – development of a proposal for the methodology of self research and literature review with the aim to place the research in the national and global context.

Learning outcomes:

The graduate of the course will compile literature review, which is related to the topic of the dissertation. This research will help him/her to orient himself/herself

- in the current research in didactics of mathematics on national and international level in order to be able to include self research to these contexts.

- in the different research methods used in the didactics of mathematics, so that he/she will be able to choose methods for his/her own research appropriately.

Brief outline of the course:

The course deals with various research methods used in didactic of mathematics, important topics in mathematics teacher education, as teaching and learning big ideas in mathematics, models of mathematics teacher knowledge (MKT – Mathematics Teacher Knowledge, MTSK – Mathematics Teacher Specialized Knowledge) and recognized theories of mathematics teaching and learning such as Realistic mathematics education, Theory of didactical situations in mathematics, Van Hiele's theory of geometric thinking, etc. The aim of the course is to deepen knowledge and acquire research skills in the didactics of mathematics.

Recommended literature:

Ball, D. L., Thames, M. H., & Phelps, G. Content knowledge for teaching: what makes it special? Journal of Teacher Education, 59, 389-407, 2008

Bishop, A.J. et al. (eds.), International Handbook of Mathematics Education 1/2, Kluwer Academic Publishers,1996

Bishop, A.J. (ed.). Second International Handbook of Mathematics Education 1/2, Kluwer Academic Publishers, 2003

Brousseau, Guy, Novotná, Jarmila a Sarrazy, Bernard. Didactic contract. In: Lerman, Stephen (ed.), Encyclopedia of Mathematics Education, 153-159, Springer, 2014.

Carrillo, J., Climent, N., Montes, M., Contreras, L., Flores-Medrano, E., Escudero-Ávila, D. . . . Muñoz-Catalán, M. C. et al. The mathematics teacher's specialised knowledge (MTSK) model. Research in Mathematics Education, 20, 236–253, 2018 Hejný, M. a kol. Teórie vyučovania matematiky 2. Bratislava: SPN, 1991 Hejný, M. a Kuřina, F. Dítě škola matematika. Praha: Portál, 2009 Hejný, M.; Novotná, J.; Stehlíková, N. Dvacet pět kapitol z didaktiky matematiky. Praha: PedF UK, 2004 Kaiser, G., Presmeg, N.: Compendium for Early Career Researchers in Mathematics Education, Springer, 2019 Miles, M. B., Huberman, A. M., Saldana, J.: Qualitative Data Analysis. SAGE Publications, Inc., 2014 Polya, G. How to solve it. Princeton University Press, 1945 Sriraman, B. English, L.: Theories of Mathematics Education, Springer, 2010 Strauss, A., Corbinová, J. Základy kvalitativního výzkumu. Postupy a techniky zakotvené teorie, Brno: 1999 Vondrová N., Rendl, M. a kol. Kritická místa matematiky základní školy v řešení žáků. Praha: Karolinum, 2016 **Course language:** Slovak Notes: **Course assessment** Total number of assessed students: 20 Р Ν 0.0 100.0 **Provides:** doc. RNDr. Dušan Šveda, CSc., doc. RNDr. Ingrid Semanišinová, PhD. Date of last modification: 09.02.2022 Approved: prof. RNDr. Jozef Doboš, CSc.

Faculty: Faculty of Science

Course ID: Dek. PF	Course name: Spring School for PhD Students
UPJŠ/JSD/14	

Course type, scope and the method: Course type: Lecture Recommended course-load (hours): Per week: Per study period: 4d

Course method: distance, present

Number of ECTS credits: 2

Recommended semester/trimester of the course:

Course level: III.

Prerequisities:

Conditions for course completion:

Active participation in the Spring School of PhD students of UPJŠ.

Learning outcomes:

By actively participating in the Spring School of PhD Students of UPJŠ, the PhD student demonstrates a high level of ability to process the issues of his dissertation for a multidisciplinary audience with an emphasis on clarifying the motivation, scientific problem, processing methodology and own contribution to the solution of the selected topic. The PhD student demonstrates the ability to professionally discuss various research topics, present his own positions and accept a plurality of opinions. Demonstrates the ability to communicate research results to a wider professional audience with adequate means and through the Slovak language.

Brief outline of the course:

1. Interdisciplinary lectures from the fields of medicine, natural sciences, law, public affairs, humanities. Lecturers - top foreign or national experts from the mentioned fields.

2. Scientific lectures in sections created within related disciplines. Lecturers - top experts from UPJŠ from the mentioned fields.

3. Scientific contributions of PhD students in sections of related fields.

4. Panel discussions on the issue of PhD studies and current trends in the development of scientific disciplines at UPJŠ.

Recommended literature:

Proceedings of the Spring School of Doctoral Students.

Course language:

Notes:

Course assessment

Total number of assessed students: 202

abs	n
100.0	0.0

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

Date of last modification: 08.11.2022

Approved: prof. RNDr. Jozef Doboš, CSc.

	COURSE INFORMATION LETTER
University: P. J. Šafá	rik University in Košice
Faculty: Faculty of S	cience
Course ID: ÚMV/ dSMD/10	Course name: Statistical methods for data analysis
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	edits: 6
Recommended seme	ester/trimester of the course: 2., 4.
Course level: III.	
Prerequisities:	
Conditions for course 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 	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. (2 weeks) rrelation analysis. Relationships between quantitative variables. ests and contingency tables. Relationships between qualitative variables. s. Parametric testing methods. (2 weeks)
7. Analysis of varian8. Nonparametric me	

- 7.
- 8. Nonparametric methods of testing.

9. Quantitative oriented research, research methods - observation, scaling, questionnaire, interview.

10. Validity and reliability of research instruments.

Recommended literature:

1. Utts, J.M., Heckard, R.F. (2021), Mind od Statistics, 6th ed., Thomson Brooks/Cole

- 2. Peck, R., Short, T. (2019), Statistics: Learning from Data, 2nd ed., Cengage Learning
- 3. Box, G.E.P., Hunter J.S., Hunter W.G. (2005), Statistics for Experimenters: Design,

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

4. Fox, J., (2017), Using the R Commander, Taylor&Francis

- 5. Gavora, P. (2001) Úvod do pedagogického výskumu, UK Bratislava (in Slovak)
- 6. Burke Johnson, R., Christensen, L.B. (2019), Educational Research: Quantitative, Qualitative, and Mixed Approaches, 7th ed., Sage Publications, Inc

Course language:

Slovak

Notes:		
Course assessment Total number of assessed students: 37		
N	Р	
0.0	100.0	
Provides: doc. RNDr. Martina Hančová, PhD.		
Date of last modification: 13.09.2021		
Approved: prof. RNDr. Jozef Doboš, CSc.		

University: P. J. Šafá	rik University in Košice	
Faculty: Faculty of S	cience	
Course ID: ÚMV/ VPSV/22	Course name: Supervision	n of student scientific 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	edits: 8	
Recommended seme	ster/trimester of the cours	e:
Course level: III.		
Prerequisities:		
Conditions for cours Supervision of Stude	se completion: nt's Scientific Activity	
scientifically based k and approaches. Dem solution, as well as to	nowledge in the field of stud constrates the ability to critic	OČ, the PhD student demonstrates broad and y, as well as knowledge of a wide range of methods ally assess a professional problem and its proposed pose another solution. He applies knowledge and is own field.
Brief outline of the c	course:	
Recommended litera	ature:	
Course language:		
Notes:		
	ssed students: 0	
Notes: Course assessment	ssed students: 0 abs	n
Notes: Course assessment		n 0.0
Notes: Course assessment	abs	
Notes: Course assessment Total number of asse	abs 0.0	

	árik University in Koši	
Faculty: Faculty of S	Science	
Course ID: ÚMV/ PPC1/22	Course name: Teach	ing activities 1 h/s
Course type, scope Course type: Recommended cou Per week: Per stu Course method: pr	ırse-load (hours): dy period:	
Number of ECTS c	redits: 2	
Recommended sem	ester/trimester of the	course:
Course level: III.		
Prerequisities:		
Conditions for cour Direct teaching activ	1	
Learning outcomes		dont domonstrates the shility to transfer and integrate
Through pedagogica knowledge from hi right techniques and learning outcomes. in accordance with a communication and	al activity, the PhD stu s own field of study d strategies of study gr He is capable of design current trends in higher digital competencies.	indent demonstrates the ability to transfer and integrate into education. He is able to select and apply the roup management, higher education and evaluation of hing and implementing part of the educational process reducation and the requirements placed on the level of
Through pedagogica knowledge from hi right techniques and learning outcomes. in accordance with a communication and Brief outline of the	al activity, the PhD stu s own field of study d strategies of study gr He is capable of design current trends in higher digital competencies.	into education. He is able to select and apply the roup management, higher education and evaluation of ning and implementing part of the educational process
Through pedagogica knowledge from hi right techniques and learning outcomes. The in accordance with a communication and Brief outline of the Recommended liter	al activity, the PhD stu s own field of study d strategies of study gr He is capable of design current trends in higher digital competencies.	into education. He is able to select and apply the roup management, higher education and evaluation of ning and implementing part of the educational process
Through pedagogica knowledge from hi right techniques and learning outcomes. in accordance with a communication and Brief outline of the	al activity, the PhD stu s own field of study d strategies of study gr He is capable of design current trends in higher digital competencies.	into education. He is able to select and apply the roup management, higher education and evaluation of ning and implementing part of the educational process
Through pedagogica knowledge from hi right techniques and learning outcomes. The in accordance with a communication and Brief outline of the Recommended liter Course language:	al activity, the PhD stu s own field of study d strategies of study gr He is capable of design current trends in higher digital competencies. course: rature:	into education. He is able to select and apply the roup management, higher education and evaluation of ning and implementing part of the educational process
Through pedagogica knowledge from hi right techniques and learning outcomes. I in accordance with o communication and Brief outline of the Recommended liter Course language: Notes: Course assessment	al activity, the PhD stu s own field of study d strategies of study gr He is capable of design current trends in higher digital competencies. course: rature:	into education. He is able to select and apply the roup management, higher education and evaluation of ning and implementing part of the educational process
Through pedagogica knowledge from hi right techniques and learning outcomes. I in accordance with o communication and Brief outline of the Recommended liter Course language: Notes: Course assessment	al activity, the PhD stu s own field of study d strategies of study gr He is capable of design current trends in higher digital competencies. course: rature:	into education. He is able to select and apply the roup management, higher education and evaluation of ning and implementing part of the educational process reducation and the requirements placed on the level of
Through pedagogica knowledge from hi right techniques and learning outcomes. I in accordance with o communication and Brief outline of the Recommended liter Course language: Notes: Course assessment	al activity, the PhD stu s own field of study d strategies of study gr He is capable of design current trends in higher digital competencies. course: rature: essed students: 4 abs	n
Through pedagogica knowledge from hi right techniques and learning outcomes. The in accordance with a communication and Brief outline of the Recommended liter Course language: Notes: Course assessment Total number of asset	al activity, the PhD stu s own field of study d strategies of study gr He is capable of design current trends in higher digital competencies. course: rature: essed students: 4 abs 100.0	n

	árik University in Košic	
Faculty: Faculty of S	Science	
Course ID: ÚMV/ PPC2/22	Course name: Teach	ing activities 2 h/s
Course type, scope a Course type: Recommended cou Per week: Per stue Course method: pr	ırse-load (hours): dy period:	
Number of ECTS ci	redits: 4	
Recommended seme	ester/trimester of the o	course:
Course level: III.		
Prerequisities:		
Conditions for cour Direct teaching activ	-	
Learning outcomes:		
Through pedagogica knowledge from his right techniques and learning outcomes. I in accordance with c communication and	al activity, the PhD stud s own field of study l strategies of study gro He is capable of design current trends in higher digital competencies.	dent demonstrates the ability to transfer and integrate into education. He is able to select and apply the oup management, higher education and evaluation of ing and implementing part of the educational process education and the requirements placed on the level of
Through pedagogica knowledge from his right techniques and learning outcomes. I in accordance with c communication and Brief outline of the	al activity, the PhD stud s own field of study l strategies of study gro He is capable of design current trends in higher digital competencies.	into education. He is able to select and apply the oup management, higher education and evaluation of ing and implementing part of the educational process
Through pedagogica knowledge from his right techniques and learning outcomes. I in accordance with c communication and Brief outline of the Recommended liter	al activity, the PhD stud s own field of study l strategies of study gro He is capable of design current trends in higher digital competencies.	into education. He is able to select and apply the oup management, higher education and evaluation of ing and implementing part of the educational process
Through pedagogica knowledge from his right techniques and learning outcomes. I in accordance with c communication and Brief outline of the o Recommended liter Course language:	al activity, the PhD stud s own field of study l strategies of study gro He is capable of design current trends in higher digital competencies.	into education. He is able to select and apply the oup management, higher education and evaluation of ing and implementing part of the educational process
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Through pedagogica knowledge from his right techniques and learning outcomes. I in accordance with c communication and Brief outline of the o Recommended liter Course language:	al activity, the PhD stud s own field of study l strategies of study gro He is capable of design current trends in higher digital competencies. course: ature:	into education. He is able to select and apply the oup management, higher education and evaluation of ing and implementing part of the educational process
Through pedagogica knowledge from his right techniques and learning outcomes. I in accordance with c communication and Brief outline of the o Recommended liter Course language: Notes: Course assessment	al activity, the PhD stud s own field of study l strategies of study gro He is capable of design current trends in higher digital competencies. course: ature:	into education. He is able to select and apply the oup management, higher education and evaluation of ing and implementing part of the educational process
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	árik University in Koš	
Faculty: Faculty of S	Science	
Course ID: ÚMV/ PPC3/22	Course name: Teac	hing activities 3 h/s
Course type, scope Course type: Recommended cou Per week: Per stu Course method: pr	ırse-load (hours): dy period:	
Number of ECTS c	redits: 6	
Recommended sem	ester/trimester of the	course:
Course level: III.		
Prerequisities:		
Conditions for cour Direct teaching activ	rse completion: vity 3 semester hours	
Learning outcomes		
Through pedagogica knowledge from hi right techniques and learning outcomes. in accordance with a communication and	al activity, the PhD st is own field of study d strategies of study g He is capable of desig current trends in higher digital competencies.	udent demonstrates the ability to transfer and integrate y into education. He is able to select and apply the group management, higher education and evaluation of gning and implementing part of the educational process er education and the requirements placed on the level of
Through pedagogica knowledge from hi right techniques and learning outcomes. in accordance with a communication and Brief outline of the	al activity, the PhD st is own field of study d strategies of study g He is capable of desig current trends in highe digital competencies.	y into education. He is able to select and apply the group management, higher education and evaluation of gning and implementing part of the educational process
Through pedagogica knowledge from hi right techniques and learning outcomes. The in accordance with a communication and Brief outline of the Recommended liter	al activity, the PhD st is own field of study d strategies of study g He is capable of desig current trends in highe digital competencies.	y into education. He is able to select and apply the group management, higher education and evaluation of gning and implementing part of the educational process
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Through pedagogica knowledge from hi right techniques and learning outcomes. I in accordance with o communication and Brief outline of the Recommended liter Course language: Notes: Course assessment	al activity, the PhD st is own field of study d strategies of study g He is capable of desig current trends in higher digital competencies. course: rature: essed students: 0 abs	n
Through pedagogica knowledge from hi right techniques and learning outcomes. The in accordance with a communication and Brief outline of the Recommended liter Course language: Notes: Course assessment Total number of asset	al activity, the PhD st is own field of study d strategies of study g He is capable of desig current trends in higher digital competencies. course: rature: essed students: 0 abs 0.0	n

Faculty: Faculty of S	árik University in Košio		
racuity. racuity of a	Science		
Course ID: ÚMV/ PPC4/22	Course name: Teaching activities 4 h/s		
Course type, scope a Course type: Recommended cou Per week: Per stue Course method: pr	ırse-load (hours): dy period:		
Number of ECTS c	redits: 8		
Recommended seme	ester/trimester of the	course:	
Course level: III.			
Prerequisities:			
Conditions for cour Direct teaching activ	se completion: vity 4 semester hours		
Through nedgeogies	al activity the PhD ctu	dent demonstrates the ability to transfer and integrate	
knowledge from hi right techniques and learning outcomes. I in accordance with o communication and	s own field of study I strategies of study gr He is capable of desigr current trends in higher digital competencies.	dent demonstrates the ability to transfer and integrate into education. He is able to select and apply the roup management, higher education and evaluation of hing and implementing part of the educational process education and the requirements placed on the level of	
knowledge from hi right techniques and learning outcomes. I in accordance with o communication and Brief outline of the	s own field of study I strategies of study gr He is capable of desigr current trends in higher digital competencies.	into education. He is able to select and apply the roup management, higher education and evaluation of hing and implementing part of the educational process	
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knowledge from hi right techniques and learning outcomes. I in accordance with o communication and Brief outline of the Recommended liter Course language: Notes: Course assessment	s own field of study d strategies of study gr He is capable of design current trends in higher digital competencies. course: ature: essed students: 9 abs	n	
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University: P. J. Šaf	árik University in Košice
Faculty: Faculty of	Science
Course ID: ÚMV/ dTVM/10	Course name: Theory of mathematics education
Course type, scope Course type: Lectu Recommended cou Per week: 3 Per st Course method: pu	ure urse-load (hours): udy period: 42
Number of ECTS c	redits: 6
Recommended sem	ester/trimester of the course: 1.
Course level: III.	
Prerequisities:	
Conditions for cour	rse completion:

Examination

Learning outcomes:

Obtain knowledge about the structure of the process of knowledge in mathematics, the development of mathematical skills, acquire the methodology of quantitative and qualitative research in Mathematics Education.

Brief outline of the course:

Creating definitions in mathematics and teaching mathematics - 2 w. Structure, diagnostics and development of key mathematical competences -2. Phylogeny and ontogeny of teaching topics according to the State Education Programme - equations and inequalities, infinitesimal calculus, combinatorics, probability and statistics - 2. Planimetry, stereometry, analytical geometry. Assessment in mathematics, standards development and didactic tests - 2. Educational Research in Mathematics Education, comparison of quantitative and qualitative research - 3.

Recommended literature:

M.Hejný a kol.: Teória vyučovania matematiky (Teaching mathematics theory), SPN Blava 1989, J.Kopka: Hrozny problému ve školské matematice (Clusters of problems in school mathematics. Ústí nad Labem,1999

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

Notes:

Course assessment			
Total number of assessed students: 19			
Ν	Р		
0.0	100.0		
Provides: doc. RNDr. Dušan Šveda, CSc.			
Date of last modification: 14.09.2021			
Approved: prof. RNDr. Jozef Doboš, CSc.			

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of S	cience		
Course ID: ÚMV/ KZP/22	Course name: Thesis consultant		
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pro	rse-load (hours): ly period:		
Number of ECTS cr	edits: 4		
Recommended seme	ster/trimester of the cou	'se:	
Course level: III.			
Prerequisities:			
Conditions for cours Final thesis consultar	1		
knowledge in the fiel Demonstrates the ab well as to evaluate it the field of pedagogi	d of study, as well as know ility to critically assess a and possibly propose anot cal sciences to his own fie	lent demonstrates broad and scientifically based wedge of a wide range of methods and approaches. professional problem and its proposed solution, as her solution. He applies knowledge and skills from d.	
Brief outline of the o	course:		
Recommended litera	ature:		
Course language:			
Notes:			
Course assessment Total number of asse	ssed students: 10		
	abs	n	
	100.0	0.0	
Provides:			
Date of last modifica	ation: 08.11.2022		

University: P. J. Šafá	rik University in Košio	ce	
Faculty: Faculty of S	Science		
Course ID: ÚMV/ VZP/22	Course name: Thesis supervising		
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pro	rse-load (hours): ly period:		
Number of ECTS cr	edits: 8		
Recommended seme	ester/trimester of the o	course:	
Course level: III.			
Prerequisities:			
Conditions for cour Supervisor of the fin	-		
knowledge in the fie Demonstrates the ab well as to evaluate it the field of pedagogi	ld of study, as well as k ility to critically assess and possibly propose a cal sciences to his own	student demonstrates broad and scientifically based knowledge of a wide range of methods and approaches. s a professional problem and its proposed solution, as another solution. He applies knowledge and skills from a field.	
Brief outline of the o	course:		
Recommended liter	ature:		
Course language:			
Notes:	-		
Course assessment Total number of asse	essed students: 0		
	abs	n	
	0.0	0.0	
Provides:			
Date of last modifica	ation: 08.11.2022		
	Dr. Jozef Doboš, CSc.		