

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice					
Faculty: Faculty of Science					
Course ID: ÚBEV/AFV/15		Course name: Activating forms of biology teaching			
Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: present					
Number of credits: 2					
Recommended semester/trimester of the course: 3.					
Course level: II.					
Prerequisites: ÚBEV/DIB1/03					
Conditions for course completion: Colloquium - presentation of seminar work.					
Learning outcomes: Extension skills of new teaching methods and selected practical activities.					
Brief outline of the course: Teacher and student - partners in learning. The development of science skills through IBSE (Inquiry based science education). New approaches to formative and summative assessment in IBSE. New educational technologies supporting IBSE. Different ways of working with text when learning biology. Project management and cooperative methods for biology lessons. Presentation of seminar work.					
Recommended literature: Kimáková, K.: Úvod do štúdia didaktiky biológie, elektronický študijný text, 2008 Kimáková, K., Švecová, M.: Teorie a praxe zařazení školních projektů ve výuce přírodopisu a biologie, Karolinum Praha 2001 Hudáková, A., Kimáková, K.: Demonstračné pokusy a pozorovania z biológie rastlín, UPJŠ Košice 2005 Periodical publications for teaching biology. Internal materials and methodics on Moodle: https://lms.upjs.sk/login/index.php . Existing curriculum standards and biology textbooks for elementary and secondary schools Existing curriculum standards and biology textbooks for elementary and secondary schools					
Course language:					
Course assessment Total number of assessed students: 5					
A	B	C	D	E	FX
0.0	40.0	60.0	0.0	0.0	0.0
Provides: PaedDr. Andrea Lešková, PhD., Mgr. Zuzana Boberová, PhD.					
Date of last modification: 24.02.2017					
Approved: Guaranteeprof. PhDr. Oľga Orosová, CSc. Guaranteeprof. RNDr. Jozef Doboš, CSc. Guaranteedoc. RNDr. Katarína Kimáková, CSc.					

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice					
Faculty: Faculty of Science					
Course ID: ÚMV/ AIM/10		Course name: Application of ICT into mathematics teaching			
Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: present					
Number of credits: 2					
Recommended semester/trimester of the course: 3.					
Course level: II.					
Prerequisites: ÚMV/DDMa/14					
Conditions for course completion: two tests elaborated on the computer, solving problems from worksheets final project					
Learning outcomes: To learn students standard work procedures with the basic types of mathematical software systems and to provide examples and ideas on the possibility of using these software systems in mathematics teaching. To develop the knowledge and skills of students to use investigation and modelling in the digital environment for mathematical problems solving. Develop creative and evaluation abilities of students allow to prepare mathematics lessons with effective and meaningful use of modern technologies.					
Brief outline of the course: Possibilities of using numerical and graphical tools of spreadsheet to solve mathematical problems. Use of dynamic geometry systems in solving geometry problems, examples of their use in the implementation of constructivist approaches to mathematics teaching. Mathematical modelling and solving of problems in a CAS environment. The use of modern IT for active acquisition of knowledge in mathematics teaching.					
Recommended literature: M. Černochová et al.: Využití počítače při vyučování, Portál, 1998. S. Lukáč: Multimédiá a počítačom podporované učenie sa v matematike, PF UPJŠ Košice 2001. J. Vaníček: Počítačové kognitivní technologie ve výuce geometrie. Univerzita Karlova v Praze, 2009. Journals MFI, MIF a Obzory matematiky, fyziky a informatiky.					
Course language: Slovak					
Course assessment Total number of assessed students: 193					
A	B	C	D	E	FX
39.38	29.02	14.51	10.36	6.74	0.0

Provides: doc. RNDr. Stanislav Lukáč, PhD.
Date of last modification: 22.02.2017
Approved: Guaranteeprof. PhDr. Oľga Orosová, CSc. Guaranteeprof. RNDr. Jozef Doboš, CSc. Guaranteedoc. RNDr. Katarína Kimáková, CSc.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice					
Faculty: Faculty of Science					
Course ID: ÚMV/ATA/14		Course name: Algebra and theoretical arithmetic			
Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per week: 3 / 1 Per study period: 42 / 14 Course method: present					
Number of credits: 4					
Recommended semester/trimester of the course: 3.					
Course level: II.					
Prerequisites:					
Conditions for course completion: It is based on the results of written and oral exam.					
Learning outcomes: Obtain knowledge about sets N, Z, Q and R, about their axiomatic building-up, the operations and the orderings on them.					
Brief outline of the course: Sets of numbers N, Z, Q a R, their axiomatic building, operations and ordering.					
Recommended literature: J. Blažek a kol.: Algebra a teoretická aritmetika I. díl. SPN, Praha 1983 K. Hruša: Elementární aritmetika. Přírodovědecké vydavatelství, Praha 1953 W. Sierpinski: Arytmetyka teoretyczna. PWN, Varšava 1966 T. Šalát a kol.: Algebra a teoretická aritmetika (2). Alfa, Bratislava - SNTL Praha 1986					
Course language: Slovak					
Course assessment Total number of assessed students: 45					
A	B	C	D	E	FX
51.11	22.22	11.11	13.33	2.22	0.0
Provides: doc. RNDr. Matúš Harminec, CSc.					
Date of last modification: 22.02.2017					
Approved: Guaranteeprof. PhDr. Oľga Orosová, CSc. Guaranteeprof. RNDr. Jozef Doboš, CSc. Guaranteedoc. RNDr. Katarína Kimáková, CSc.					

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice					
Faculty: Faculty of Science					
Course ID: ÚBEV/ BDB/15		Course name: Biology and Didactics of Biology			
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present					
Number of credits: 1					
Recommended semester/trimester of the course:					
Course level: II.					
Prerequisites: ÚBEV/MKVU/15 and ÚBEV/VEK1/03 and ÚBEV/DIB1/03					
Conditions for course completion:					
Learning outcomes:					
Brief outline of the course:					
Recommended literature:					
Course language:					
Course assessment Total number of assessed students: 27					
A	B	C	D	E	FX
37.04	40.74	18.52	3.7	0.0	0.0
Provides:					
Date of last modification: 24.02.2017					
Approved: Guaranteeprof. PhDr. Oľga Orosová, CSc. Guaranteeprof. RNDr. Jozef Doboš, CSc. Guaranteedoc. RNDr. Katarína Kimáková, CSc.					

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice					
Faculty: Faculty of Science					
Course ID: ÚBEV/BDB/14		Course name: Biology and Didactics of Biology			
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present					
Number of credits: 1					
Recommended semester/trimester of the course:					
Course level: II.					
Prerequisites: ÚBEV/DIB1/03 and (ÚBEV/FG1/03 or ÚBEV/ZOG1/03) and (ÚBEV/ZOM/04 or ÚBEV/ZO1/04 or ÚBEV/ZOO1/11 or ÚBEV/BO1/03 or ÚBEV/BOT1/03)					
Conditions for course completion:					
Learning outcomes:					
Brief outline of the course:					
Recommended literature:					
Course language:					
Course assessment Total number of assessed students: 114					
A	B	C	D	E	FX
21.93	31.58	27.19	14.04	5.26	0.0
Provides:					
Date of last modification: 24.02.2017					
Approved: Guaranteeprof. PhDr. Oľga Orosová, CSc. Guaranteeprof. RNDr. Jozef Doboš, CSc. Guaranteedoc. RNDr. Katarína Kimáková, CSc.					

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice					
Faculty: Faculty of Science					
Course ID: ÚMV/DDMa/14		Course name: Didactics of mathematics			
Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per week: 2 / 2 Per study period: 28 / 28 Course method: present					
Number of credits: 5					
Recommended semester/trimester of the course: 2.					
Course level: II.					
Prerequisites:					
Conditions for course completion: Continuous assessment - 60% of the total assessment, exam - 40% of the total assessment.					
Learning outcomes: Master the basic principles and methods of teaching of mathematics at primary and secondary schools. Gain knowledge of the various ways of teaching specific topics of school mathematics.					
Brief outline of the course: Subject of Didactics of Mathematics, the development of mathematics and mathematics education. Aims and objectives of mathematics teaching Planning in mathematics teaching Logical and didactical curriculum analysis Determination of learning objectives Didactical principles, methods of mathematics teaching Assessment of learning outcomes, the creation of didactic tests Mathematical problems Construction numeric fields, Theory of elementary functions, synthetic and analytic geometry					
Recommended literature: [1] M.Hejný a kol.: Teorie vyučovania matematiky, SPN Blava 1989, (in slovak) [2] L.Frantíková,K.Hončarivová,O.Kopanev: Didaktika matematiky, UPJŠ 1982 (in slovak) [3] R.Fischer,G.Malle: Človek a matematika, SPN Bratislava 1992 (in slovak) [4] Polya, G.: How to solve it, Princeton University Press, 1957. [5] Hejný, M., Kuřina, F.: Dítě, škola a matematika: Konstruktivistické přístupy k vyučování. Portál, Praha 2001. (in czech)					
Course language: Slovak					
Course assessment Total number of assessed students: 112					
A	B	C	D	E	FX
36.61	39.29	16.07	5.36	2.68	0.0

Provides: doc. RNDr. Dušan Šveda, CSc.
Date of last modification: 22.02.2017
Approved: Guaranteeprof. PhDr. Oľga Orosová, CSc. Guaranteeprof. RNDr. Jozef Doboš, CSc. Guaranteedoc. RNDr. Katarína Kimáková, CSc.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Science	
Course ID: ÚMV/DDMb/14	Course name: Didactics of mathematics
Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per week: 2 / 2 Per study period: 28 / 28 Course method: present	
Number of credits: 4	
Recommended semester/trimester of the course: 3.	
Course level: II.	
Prerequisites: ÚMV/DDMa/14	
Conditions for course completion: Seminar paper - 40% of the total score. Written exam - 40% of the total score. Homework - 20% of the total score. Evaluation A - at least 90% points, evaluation B - at least 80%, evaluation C at least 70%, evaluationD at least 60%, evaluationE rating of at least 50% of the points. Credits shall not be granted to a student who receives less than 50% of the points.	
Learning outcomes: Students become familiar with some mathematical theories of education. They will acquire different teaching methods of selected topics of school mathematics. Become familiar with the potential use of history of mathematics in teaching. Students will be prepared to work in the educational process, focusing on the creative application of knowledge in mathematics.	
Brief outline of the course: Student learning process. Language of mathematics, enactive iconic and symbolic representation. Using history of mathematics in the teaching mathematics. Students' learning difficulties and their possible causes. Teaching mathematical proofs. Combinatorics, probability, statistics. Calculus. Developing mathematical creativity. Motivation.	
Recommended literature: [1] M.Hejný a kol.: Teoria vyučovania matematiky, SPN Blava 1989. [2] Hejný, M., Kuřina, F.: Dítě, škola a matematika: Konstruktivistické přístupy k vyučování. Portál, Praha 2001. [3] Fischer, R., Malle, G.: Človek a matematika, SPN Bratislava 1992. [4] Učebnice a zbierky úloh pre stredné a základné školy.	

Course language:

Slovak

Course assessment

Total number of assessed students: 126

A	B	C	D	E	FX
84.13	10.32	3.97	0.79	0.79	0.0

Provides: RNDr. Ingrid Semanišinová, PhD.**Date of last modification:** 22.02.2017**Approved:** Guaranteeprof. PhDr. Oľga Orosová, CSc. Guaranteeprof. RNDr. Jozef Doboš, CSc. Guaranteedoc. RNDr. Katarína Kimáková, CSc.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Science	
Course ID: ÚMV/ DFR/10	Course name: Differential equations
Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per week: 3 / 1 Per study period: 42 / 14 Course method: present	
Number of credits: 5	
Recommended semester/trimester of the course: 1.	
Course level: I., II.	
Prerequisites:	
Conditions for course completion: Continuous assessment is taken the form of two tests during the semester. Final evaluation is given by continuous assessment (40%), written and oral part of the exam (30% and 30%).	
Learning outcomes: Theory of differential equations is one of the fundamental areas of mathematical analysis. It has numerous applications in various fields of science and technology. The main objective of this course is to familiarize students with the basics of the theory of ordinary differential equations and their systems, and methods for solving certain types of differential equations and systems. We consider them as possible mathematical models of real situations.	
Brief outline of the course: Basic concepts. Elementary methods for solving and applications of the first order differential equations. The existence and uniqueness of solutions to Cauchy problem for differential equations of the first order, the n-th order and for differential systems. The relationship between differential equations of the n-th order and systems. Linear differential equations of the n-th order and linear differential systems - the local and global theorem on the existence and uniqueness of solutions to Cauchy problem, basic properties of solutions, fundamental system of solutions, structure of general solution, Lagrange method of variation of constants, linear differential equations and systems with constant coefficients. Reduction of the order of differential equations. Euler differential equations. Elimination method for solving the systems of differential equations.	
Recommended literature: 1. L. Kluvánek, I. Mišík, M. Švec: Matematika II, SVTL, Bratislava, 1961 (in Slovak). 2. J. Eliaš, J. Horváth, J. Kajan: Zbierka úloh z vyššej matematiky 3, Alfa, Bratislava, 1980 (in Slovak). 3. S. J. Farlow: An introduction to differential equations and their applications, Dover Publications, New York, 2006. 4. W. Kohler, L. Johnson: Elementary differential equations with boundary value problems, Pearson Education, Boston, 2006. 5. M. Tenenbaum: Ordinary differential equations, Dover Publications, New York, 1985. 6. J. C. Robinson: An introduction to ordinary differential equations, Cambridge University Press, Cambridge, 2004.	

7. J. Polking, A. Boggess, D. Arnold: Differential equations, Prentice Hall (Pearson), Upper Saddle River, 2006.

Course language:

Slovak

Course assessment

Total number of assessed students: 438

A	B	C	D	E	FX
17.35	12.1	20.55	17.58	25.8	6.62

Provides: Mgr. Jozef Kiseľák, PhD.

Date of last modification: 22.02.2017

Approved: Guaranteeprof. PhDr. Oľga Orosová, CSc. Guaranteeprof. RNDr. Jozef Doboš, CSc. Guaranteedoc. RNDr. Katarína Kimáková, CSc.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice					
Faculty: Faculty of Science					
Course ID: ÚMV/ DGE/10		Course name: Dynamic geometry			
Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per week: 1 / 2 Per study period: 14 / 28 Course method: present					
Number of credits: 3					
Recommended semester/trimester of the course: 3.					
Course level: II.					
Prerequisites:					
Conditions for course completion: test using a computer, didactic project and final exam					
Learning outcomes: To acquire commands and the concept of dynamic constructions in the program Geogebra and Cabri 3D. To learn to use a dynamic geometry environment for experimentation with geometric objects and their attributes and the investigation of invariant properties of geometric figures and relationships between objects in triangles, quadrilaterals, and conics basic solid figures.					
Brief outline of the course: Constructions and exploration of the properties of triangles, quadrilaterals, circles, and their use in solving construction tasks. Menelaus' theorem, Ceva's theorem, Varignon's theorem, Ptolemy's theorem, cyclic and tangential quadrilaterals, the centre point of polygons. The use of transformations in solving tasks. Constructions of conics and their use in solving problems. Mathematical modeling and exploration of functional dependencies, solving problems for searching of extremes. The cross positions of linear geometric shapes in space, cuts of solid figures, intersection lines and solid figures. Analysis of the possibilities of using dynamic geometry environment to support active learning of mathematics.					
Recommended literature: 1. Vaniček, J.: Počítačové kognitivní technologie ve výuce geometrie. Univerzita Karlova v Praze, 2009. 2. King, J., Schattschneider, D.: Geometry Turned On! Dynamic Software in Learning, Teaching, and Research. The Mathematical Association of America, 1997. 3. De Villiers, M., D.: Rethinking proof with the Geometer's Sketchpad. Key Curriculum Press, 2003.					
Course language: Slovak					
Course assessment Total number of assessed students: 23					
A	B	C	D	E	FX
56.52	34.78	4.35	4.35	0.0	0.0

Provides: doc. RNDr. Stanislav Lukáč, PhD.
Date of last modification: 22.02.2017
Approved: Guaranteeprof. PhDr. Oľga Orosová, CSc. Guaranteeprof. RNDr. Jozef Doboš, CSc. Guaranteedoc. RNDr. Katarína Kimáková, CSc.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice					
Faculty: Faculty of Science					
Course ID: ÚBEV/DGO/17		Course name: Geology and nature protection education			
Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: present					
Number of credits: 2					
Recommended semester/trimester of the course: 3.					
Course level: II.					
Prerequisites: ÚBEV/DIB1/03 and ÚGE/GEB/12					
Conditions for course completion:					
Learning outcomes:					
Brief outline of the course:					
Recommended literature:					
Course language:					
Course assessment Total number of assessed students: 0					
A	B	C	D	E	FX
0.0	0.0	0.0	0.0	0.0	0.0
Provides: PaedDr. Andrea Lešková, PhD.					
Date of last modification: 24.02.2017					
Approved: Guaranteeprof. PhDr. Oľga Orosová, CSc. Guaranteeprof. RNDr. Jozef Doboš, CSc. Guaranteedoc. RNDr. Katarína Kimáková, CSc.					

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Science	
Course ID: ÚBEV/ DIB1/03	Course name: Didactics of biology
Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per week: 2 / 3 Per study period: 28 / 42 Course method: present	
Number of credits: 6	
Recommended semester/trimester of the course: 2.	
Course level: II.	
Prerequisites: KPPaPZ/PPgU/15 or KPE/DPP/14 or KPE/PDU/15	
Conditions for course completion: Continuous assessment of tasks, which students prepared and submitted. Oral exam	
Learning outcomes: Meet specific subjects teaching biology in high school and an elementary school. Learn and apply didactic knowledges in the topics of the biology curriculum with respect of psychological principles of learning. Selected biology teaching methods and technologies.	
Brief outline of the course: - The aims of biological education in Slovakia, basic documents. - Analysis of the curriculum and the formulation of educational objectives. - EUR framework, phases of learning. - Teaching strategies and methods in biology teaching. - Concept learning. - Problem solving and higher-order questions. - Inquiry based science education. - The importance of reflection. - Verification of biological knowledge and skills. Assessment and classification. - Educational aspects of biology teaching, development of critical thinking skills and key competences. - Teaching aids for biology, the role of ICT. - The school garden. - History of biology teaching. Various concepts of biology teaching abroad.	
Recommended literature: Kimáková, K.: Úvod do štúdia didaktiky biológie, elektronický študijný text, 2008 Periodical publications for teaching biology. Internal study materials in Moodle https://lms.upjs.sk/login/index.php Existing curriculum standards and biology textbooks for elementary and secondary schools Fišer, R.: Učíme deti myslet a učiť se. Praha: Portál, 2011. 176 s. ISBN 978-80262-0043-7 Gavora, P.: Akí sú moji žiaci. (Pedagogická diagnostika žiaka). Nitra: ENIGMA, 2011. 216 s. ISBN 978-80-89132-91-1	

Karnsová, M.: Jak budovat dobrý vztah mezi učitelem a žákem. Praha: Portál, 1995. 151 s. ISBN 80-7178-032-4
 Kotrba, T., Lacina, L.: Praktické využití aktivizačních metod ve výuce. Brno: Společnost pro odbornou literaturu, 2007. 188 s. ISBN 978-80-87029-12-1
 Kyriacou, Ch.: Klíčové dovednosti učitele. Praha: Portál, 1996. 153 s. ISBN 80-7178-022-7
 Petty, G.: Moderní vyučování. Praha: Portál, 2013. 380 s. ISBN 80-7178-070-7
 Silberman, M.: 101 Metod pro aktivní výcvik a vyučování. Praha: Portál, 1997. 312 s. ISBN: 80-7178-124-X

Course language:

Course assessment

Total number of assessed students: 494

A	B	C	D	E	FX
46.96	30.97	17.61	4.45	0.0	0.0

Provides: doc. RNDr. Katarína Kimáková, CSc., PaedDr. Andrea Lešková, PhD., Mgr. Zuzana Boberová, PhD.

Date of last modification: 24.02.2017

Approved: Guaranteeprof. PhD. Ol'ga Orosová, CSc. Guaranteeprof. RNDr. Jozef Doboš, CSc. Guaranteedoc. RNDr. Katarína Kimáková, CSc.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice					
Faculty: Faculty of Science					
Course ID: ÚBEV/DPOU/14		Course name: Diploma Thesis and its Defence			
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present					
Number of credits: 15					
Recommended semester/trimester of the course:					
Course level: II.					
Prerequisites: ÚBEV/DPP3/14					
Conditions for course completion:					
Learning outcomes:					
Brief outline of the course:					
Recommended literature:					
Course language:					
Course assessment Total number of assessed students: 59					
A	B	C	D	E	FX
47.46	35.59	11.86	1.69	1.69	1.69
Provides:					
Date of last modification: 24.02.2017					
Approved: Guaranteeprof. PhDr. Oľga Orosová, CSc. Guaranteeprof. RNDr. Jozef Doboš, CSc. Guaranteedoc. RNDr. Katarína Kimáková, CSc.					

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Science	
Course ID: ÚBEV/ DPP1/14	Course name: Diploma Project I
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present	
Number of credits: 1	
Recommended semester/trimester of the course: 1.	
Course level: II.	
Prerequisites:	
Conditions for course completion:	
Learning outcomes:	
Brief outline of the course:	
Recommended literature:	
Course language:	
Course assessment Total number of assessed students: 68	
abs	n
100.0	0.0
Provides:	
Date of last modification: 24.02.2017	
Approved: Guaranteeprof. PhDr. Oľga Orosová, CSc. Guaranteeprof. RNDr. Jozef Doboš, CSc. Guaranteedoc. RNDr. Katarína Kimáková, CSc.	

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Science	
Course ID: ÚBEV/ DPP2/14	Course name: Diploma Project II
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present	
Number of credits: 2	
Recommended semester/trimester of the course: 2.	
Course level: II.	
Prerequisites: ÚBEV/DPP1/14	
Conditions for course completion:	
Learning outcomes:	
Brief outline of the course:	
Recommended literature:	
Course language:	
Course assessment Total number of assessed students: 67	
abs	n
100.0	0.0
Provides:	
Date of last modification: 24.02.2017	
Approved: Guaranteeprof. PhDr. Oľga Orosová, CSc. Guaranteeprof. RNDr. Jozef Doboš, CSc. Guaranteedoc. RNDr. Katarína Kimáková, CSc.	

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Science	
Course ID: ÚMV/ DPP2a/14	Course name: Diploma Project I
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present	
Number of credits: 1	
Recommended semester/trimester of the course: 1.	
Course level: II.	
Prerequisites:	
Conditions for course completion:	
Learning outcomes:	
Brief outline of the course:	
Recommended literature:	
Course language: Slovak	
Course assessment Total number of assessed students: 81	
abs	n
100.0	0.0
Provides: doc. RNDr. Dušan Šveda, CSc.	
Date of last modification: 22.02.2017	
Approved: Guaranteeprof. PhDr. Oľga Orosová, CSc. Guaranteeprof. RNDr. Jozef Doboš, CSc. Guaranteedoc. RNDr. Katarína Kimáková, CSc.	

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Science	
Course ID: ÚMV/ DPP2b/14	Course name: Diploma Project II
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present	
Number of credits: 2	
Recommended semester/trimester of the course: 2.	
Course level: II.	
Prerequisites: ÚMV/DPP2a/14	
Conditions for course completion:	
Learning outcomes:	
Brief outline of the course:	
Recommended literature:	
Course language: Slovak	
Course assessment Total number of assessed students: 82	
abs	n
98.78	1.22
Provides: prof. RNDr. Jozef Doboš, CSc.	
Date of last modification: 22.02.2017	
Approved: Guaranteeprof. PhDr. Oľga Orosová, CSc. Guaranteeprof. RNDr. Jozef Doboš, CSc. Guaranteeprof. RNDr. Katarína Kimáková, CSc.	

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Science	
Course ID: ÚMV/ DPP2c/14	Course name: Diploma Project III
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present	
Number of credits: 2	
Recommended semester/trimester of the course: 3.	
Course level: II.	
Prerequisites: ÚMV/DPP2b/14	
Conditions for course completion:	
Learning outcomes:	
Brief outline of the course:	
Recommended literature:	
Course language: Slovak	
Course assessment Total number of assessed students: 66	
abs	n
100.0	0.0
Provides:	
Date of last modification: 22.02.2017	
Approved: Guaranteeprof. PhDr. Oľga Orosová, CSc. Guaranteeprof. RNDr. Jozef Doboš, CSc. Guaranteedoc. RNDr. Katarína Kimáková, CSc.	

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Science	
Course ID: ÚBEV/ DPP3/14	Course name: Diploma Project III
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present	
Number of credits: 2	
Recommended semester/trimester of the course: 3.	
Course level: II.	
Prerequisites: ÚBEV/DPP2/14 or ÚBEV/DP2b/03	
Conditions for course completion:	
Learning outcomes:	
Brief outline of the course:	
Recommended literature:	
Course language:	
Course assessment Total number of assessed students: 60	
abs	n
100.0	0.0
Provides:	
Date of last modification: 24.02.2017	
Approved: Guaranteeprof. PhDr. Oľga Orosová, CSc. Guaranteeprof. RNDr. Jozef Doboš, CSc. Guaranteedoc. RNDr. Katarína Kimáková, CSc.	

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice					
Faculty: Faculty of Science					
Course ID: ÚMV/ DPU/14		Course name: Magister Thesis and its Defense			
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present					
Number of credits: 15					
Recommended semester/trimester of the course:					
Course level: II.					
Prerequisites:					
Conditions for course completion:					
Learning outcomes:					
Brief outline of the course:					
Recommended literature:					
Course language: Slovak					
Course assessment Total number of assessed students: 13					
A	B	C	D	E	FX
84.62	15.38	0.0	0.0	0.0	0.0
Provides:					
Date of last modification: 22.02.2017					
Approved: Guaranteeprof. PhDr. Oľga Orosová, CSc. Guaranteeprof. RNDr. Jozef Doboš, CSc. Guaranteedoc. RNDr. Katarína Kimáková, CSc.					

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice					
Faculty: Faculty of Science					
Course ID: ÚBEV/ ETO1/03		Course name: Ethology			
Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per week: 2 / 2 Per study period: 28 / 28 Course method: present					
Number of credits: 6					
Recommended semester/trimester of the course: 1., 3.					
Course level: II.					
Prerequisites:					
Conditions for course completion: Recognition. Written examination.					
Learning outcomes: To teach the students to know and to be aware of the importance of the behavioural aspect in biological sciences					
Brief outline of the course: History and development of ethology. Ethological methods. The innate forms of behaviour. The simplest forms of learning – conditioning and instrumental learning. Higher form of learning. Social behaviour. Sexual behaviour. Play behaviour. Biological rhythms. Orientation in space and animal migrations. Communication systems of animals. Emotions. Aggression in animal and human behaviour. Abnormal forms of behaviour					
Recommended literature: Franck, D.: Verhaltensbiologie. Einführung in die Ethologie. Georg Thieme-Verlag, 1993 Manning, A., Dawkins, M. S.: An introduction to animal behaviour. Cambridge University Press, 1992					
Course language:					
Course assessment Total number of assessed students: 889					
A	B	C	D	E	FX
39.37	24.75	26.32	7.54	1.91	0.11
Provides: RNDr. Igor Majláth, PhD., RNDr. Natália Pipová, PhD., RNDr. Terézia Kisková, PhD.					
Date of last modification: 24.02.2017					
Approved: Guaranteeprof. PhDr. Oľga Orosová, CSc.Guaranteeprof. RNDr. Jozef Doboš, CSc.Guaranteedoc. RNDr. Katarína Kimáková, CSc.					

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Science	
Course ID: ÚFV/ FEP1/07	Course name: Microcomputer Based Science Laboratory
Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per week: 1 / 2 Per study period: 14 / 28 Course method: present	
Number of credits: 4	
Recommended semester/trimester of the course:	
Course level: II.	
Prerequisites:	
Conditions for course completion: test 30 points active participation 10 points project (development of mathematical model, videomeasurement and physical experiment) 60 points The final assessment is based on the sum of partial results	
Learning outcomes: After the course student gains an overview about the possible use of digital technologies to support active learning in science. He gains skills to use and develop activities on measuring data with the help of datalogging, measuring on picture and viderecording and modeling natural processes. Student is able to implement such activities in science teaching to support active learning and conceptual understanding.	
Brief outline of the course: The aim of the course is to present the use of digital technologies to enhance active learning in science with the help of datalogging, videomeasurement and modeling tools. Mathematical modeling is based on dynamical modeling of natural phenomena. Within the course students carry out computer-based experiments, videomeasurements and measurement on picture and create corresponding models. The activities involve selected topics of secondary schools science. The emphasize is put on the methods of implementation of the activities with regard to active students ' learning.	
Recommended literature: [1]Koubek, V., Pecen, I.: Fyzikálne experimenty a modely v školskom mikropočítačom podporovanom laboratóriu, Univerzita Komenského, Bratislava, 1999 [2]Príručka COACH [3] http://physedu.science.upjs.sk/sis/fyzika/experimenty/index.htm	
Course language: Slovak	
Course assessment Total number of assessed students: 34	

A	B	C	D	E	FX
44.12	44.12	11.76	0.0	0.0	0.0
Provides: doc. RNDr. Zuzana Ješková, PhD.					
Date of last modification: 23.02.2017					
Approved: Guaranteeprof. PhDr. Oľga Orosová, CSc. Guaranteeprof. RNDr. Jozef Doboš, CSc. Guaranteedoc. RNDr. Katarína Kimáková, CSc.					

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice					
Faculty: Faculty of Science					
Course ID: ÚBEV/FG1/03		Course name: Phytogeography			
Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per week: 2 / 1 Per study period: 28 / 14 Course method: present					
Number of credits: 5					
Recommended semester/trimester of the course: 1., 3.					
Course level: I., II.					
Prerequisites:					
Conditions for course completion: Written work. Exam.					
Learning outcomes: To obtain theoretical and practical knowledge from phytogeography.					
Brief outline of the course: History of phytogeography. Plants and environment. Chorology, area, area disjunctions, relics, endemites, vicariancy, floral elements. Main course of florogenesis since paleozoic to quaternary ages. Postglacial evolution of Slovak vegetation. Regional phytogeography of Earth. Vegetation geography: from tropical rainforests to tundras. Changes of earth vegetation and their study. Geographical origin of cultivated plants. Practices: Fieldworks. Preparing of maps. Phytogeographical division of Slovakia. Students seminar works on phytogeography.					
Recommended literature: Hendrych R.: Fytografie. - SPN, Praha 1984. Brown J. H., Lomolino M. V.: Biogeography. - Sinauer Associates, Sunderland, 1998.					
Course language:					
Course assessment Total number of assessed students: 324					
A	B	C	D	E	FX
39.81	21.91	21.3	8.33	7.72	0.93
Provides: prof. RNDr. Pavol Mártonfi, PhD., Mgr. Vladislav Kolarčík, PhD.					
Date of last modification: 24.02.2017					
Approved: Guaranteeprof. PhDr. Oľga Orosová, CSc.Guaranteeprof. RNDr. Jozef Doboš, CSc.Guaranteedoc. RNDr. Katarína Kimáková, CSc.					

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice					
Faculty: Faculty of Science					
Course ID: ÚGE/ GEB/12		Course name: Geology and petrography			
Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per week: 3 / 2 Per study period: 42 / 28 Course method: present					
Number of credits: 6					
Recommended semester/trimester of the course: 2.					
Course level: II.					
Prerequisites:					
Conditions for course completion:					
Learning outcomes:					
Brief outline of the course:					
Recommended literature:					
Course language:					
Course assessment Total number of assessed students: 824					
A	B	C	D	E	FX
10.68	20.27	32.65	22.94	9.95	3.52
Provides: Ing. Katarína Bónová, PhD.					
Date of last modification: 23.02.2017					
Approved: Guaranteeprof. PhDr. Oľga Orosová, CSc. Guaranteeprof. RNDr. Jozef Doboš, CSc. Guaranteedoc. RNDr. Katarína Kimáková, CSc.					

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice					
Faculty: Faculty of Science					
Course ID: ÚMV/ GEO2b/10		Course name: Geometry II			
Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per week: 3 / 2 Per study period: 42 / 28 Course method: present					
Number of credits: 6					
Recommended semester/trimester of the course: 1.					
Course level: II.					
Prerequisites:					
Conditions for course completion:					
Learning outcomes: To obtain knowledge about affine, isometric, and similarity transformations and their properties.					
Brief outline of the course: 1. Quadric surfaces (circular and general quadric surfaces) 2. Affine transformations (associated transformation, matrix representation, affinities, fixed points and lines, pseudo-reflections) 3. Isometric transformations (matrix representation, isometries, classification in the plane, composition of reflections) 4. Similarity transformations (matrix representation, similarities, homothety, composition of homotheties) 5. Geometry of circles (the power of a point with respect to a circle, radical axis of two circles, pencils of circles)					
Recommended literature: 1. M. Sekanina et al, Geometry 2, SPN, 1988 (in slovak). 2. O. Šedivý et al, Geometry 2, SPN, 1987 (in slovak). 3. H.S.M. Coxeter, Introduction to geometry, Wiley, 1989. 4. J.T. Smith, Methods of geometry, Wiley, 2000.					
Course language: Slovak					
Course assessment Total number of assessed students: 391					
A	B	C	D	E	FX
10.74	11.51	19.95	19.18	22.51	16.11
Provides: RNDr. Igor Fabrici, Dr. rer. nat., RNDr. Lucia Janičková					
Date of last modification: 22.02.2017					
Approved: Guaranteeprof. PhDr. Oľga Orosová, CSc.Guaranteeprof. RNDr. Jozef Doboš, CSc.Guaranteedoc. RNDr. Katarína Kimáková, CSc.					

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice					
Faculty: Faculty of Science					
Course ID: ÚMV/ GEO2c/10		Course name: Geometry III			
Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per week: 2 / 1 Per study period: 28 / 14 Course method: present					
Number of credits: 4					
Recommended semester/trimester of the course: 2.					
Course level: II.					
Prerequisites: ÚMV/GEO2b/10					
Conditions for course completion:					
Learning outcomes: A new look on the classical geometric results.					
Brief outline of the course: 1. Points and lines connected with a triangle (Menelaus's theorem, Ceva's theorem, points of interest, the incircle and excircles, pedal triangles, Euler line, nine-point circle) 2. Properties of circles (the power of a point with respect to a circle, radical axis of two circles, Simson lines, Ptolemy's theorem, Morley's theorem) 3. Collinearity and concurrence (quadrangles, Varignon's parallelogram, cyclic quadrangles, Brahmagupta's formula, Napoleon triangles) 4. Focal properties of regular conics (Dandelin spheres, tangents and directrix of a regular conic) 5. Inversion with respect to a circle (basic properties, composition of inversions and homotheties)					
Recommended literature: 1. H.S.M. Coxeter, S.L. Greitzer, Geometry revisited, MAA, 1967. 2. R.A. Johnson, Advanced Euclidean geometry, Dover Publ., 2007. 3. A.V. Akopyan, A.A. Zaslavsky, Geometry of conics, AMS, 2007. 4. D.A. Brannan, M.F. Esplen, J.J. Gray, Geometry, Cambridge Univ. Press, 2007.					
Course language: Slovak					
Course assessment Total number of assessed students: 80					
A	B	C	D	E	FX
22.5	30.0	28.75	7.5	11.25	0.0
Provides: RNDr. Igor Fabrici, Dr. rer. nat.					
Date of last modification: 22.02.2017					
Approved: Guaranteeprof. PhDr. Oľga Orosová, CSc.Guaranteeprof. RNDr. Jozef Doboš, CSc.Guaranteedoc. RNDr. Katarína Kimáková, CSc.					

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice					
Faculty: Faculty of Science					
Course ID: ÚBEV/IMU1/03		Course name: Immunology			
Course type, scope and the method: Course type: Lecture Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: present					
Number of credits: 3					
Recommended semester/trimester of the course: 1.					
Course level: II.					
Prerequisites:					
Conditions for course completion: Recognition. Oral examination.					
Learning outcomes: This course introduces the students to the basic concepts of immunology as well as highlights the role and importance of immunology in various human diseases. The aim of Immunology lessons is the presentation of the organization and function of the immune system, as well as the comprehension of complex molecular and cellular interactions during the induction of immune responses.					
Brief outline of the course: Basic immunology: Lymphatic System Anatomy, The Innate Immune System, The Induced Responses of Innate Immunity, The Adaptive Immune Response, Antigens and Antibodies, Antigen Recognition by B-cell and T-cell Receptors, Antigen Presentation to T-lymphocytes, Complement, Clinical immunology: Allergy and other Hypersensitivities, Autoimmunity and Transplantation, Tumor Immunology, Disorders of The Immune System.					
Recommended literature: Janeway Ch. A., Travers P., Walport M., Schlomchik M.: Immunobiology. Garland Science, 2004 Murphy, K. (2012): Janeway's Immunobiology. 8th ed. Garland Science Delves, P.J. et al. (2011): Roitt's essential immunology 12th ed Wiley-Blackwell					
Course language:					
Course assessment Total number of assessed students: 834					
A	B	C	D	E	FX
38.25	24.22	25.54	7.07	1.56	3.36
Provides: RNDr. Vlasta Demečková, PhD.					
Date of last modification: 24.02.2017					
Approved: Guaranteeprof. PhDr. Oľga Orosová, CSc. Guaranteeprof. RNDr. Jozef Doboš, CSc. Guaranteedoc. RNDr. Katarína Kimáková, CSc.					

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice					
Faculty: Faculty of Science					
Course ID: KSSFaK/ KJPUAP/15		Course name: Culture of Spoken Discourse			
Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per week: 1 / 1 Per study period: 14 / 14 Course method: present					
Number of credits: 2					
Recommended semester/trimester of the course: 1.					
Course level: II.					
Prerequisites:					
Conditions for course completion:					
Learning outcomes:					
Brief outline of the course:					
Recommended literature:					
Course language:					
Course assessment Total number of assessed students: 0					
A	B	C	D	E	FX
0.0	0.0	0.0	0.0	0.0	0.0
Provides: PhDr. Iveta Bónová, PhD.					
Date of last modification: 18.02.2017					
Approved: Guaranteeprof. PhDr. Oľga Orosová, CSc. Guaranteeprof. RNDr. Jozef Doboš, CSc. Guaranteedoc. RNDr. Katarína Kimáková, CSc.					

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Science	
Course ID: ÚTVŠ/ KP/12	Course name: Survival Course
Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: Per study period: 36s Course method: present	
Number of credits: 2	
Recommended semester/trimester of the course:	
Course level: I., II.	
Prerequisites:	
Conditions for course completion:	
Learning outcomes:	
Brief outline of the course:	
Recommended literature:	
Course language:	
Course assessment Total number of assessed students: 329	
abs	n
47.11	52.89
Provides: MUDr. Peter Dombrovský, Mgr. Marek Valanský	
Date of last modification: 23.02.2017	
Approved: Guaranteeprof. PhDr. Oľga Orosová, CSc. Guaranteeprof. RNDr. Jozef Doboš, CSc. Guaranteedoc. RNDr. Katarína Kimáková, CSc.	

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice					
Faculty: Faculty of Science					
Course ID: KPPaPZ/KPE/ EPU/15		Course name: Professional Ethics for Teachers and School Counsellors			
Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: present					
Number of credits: 2					
Recommended semester/trimester of the course: 2., 4.					
Course level: II.					
Prerequisites:					
Conditions for course completion:					
Learning outcomes:					
Brief outline of the course:					
Recommended literature:					
Course language:					
Course assessment Total number of assessed students: 217					
A	B	C	D	E	FX
93.09	5.99	0.92	0.0	0.0	0.0
Provides: Mgr. Lucia Hricová, PhD.					
Date of last modification: 16.02.2017					
Approved: Guaranteeprof. PhDr. Oľga Orosová, CSc. Guaranteeprof. RNDr. Jozef Doboš, CSc. Guaranteedoc. RNDr. Katarína Kimáková, CSc.					

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Science	
Course ID: ÚTVŠ/ LKSp/13	Course name: Summer Course-Rafting of TISA River
Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: Per study period: 36s Course method: present	
Number of credits: 2	
Recommended semester/trimester of the course:	
Course level: I., II.	
Prerequisites:	
Conditions for course completion:	
Learning outcomes:	
Brief outline of the course:	
Recommended literature:	
Course language:	
Course assessment Total number of assessed students: 126	
abs	n
45.24	54.76
Provides: Mgr. Peter Bakalár, PhD.	
Date of last modification: 23.02.2017	
Approved: Guaranteeprof. PhDr. Oľga Orosová, CSc. Guaranteeprof. RNDr. Jozef Doboš, CSc. Guaranteedoc. RNDr. Katarína Kimáková, CSc.	

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice					
Faculty: Faculty of Science					
Course ID: ÚMV/ MDM/14		Course name: Mathematics and didactics of mathematics			
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present					
Number of credits: 1					
Recommended semester/trimester of the course:					
Course level: II.					
Prerequisites: ÚMV/GEO2b/10 and ÚMV/DDMa/14 and ÚMV/DDMb/14 and ((ÚMV/ GEO2c/10 and ÚMV/ATA/14) or (ÚMV/GEO2c/10 and ÚMV/PSTb/10) or (ÚMV/GEO2c/10 and ÚMV/DFR/10) or (ÚMV/ATA/14 and ÚMV/PSTb/10) or (ÚMV/ATA/14 and ÚMV/DFR/10) or (ÚMV/PSTb/10 and ÚMV/DFR/10))					
Conditions for course completion: Acquiring the required number of credits in the structure defined by the study plan.					
Learning outcomes: Evaluation of student's competences with respect to the profile of the graduate.					
Brief outline of the course:					
Recommended literature:					
Course language: Slovak					
Course assessment Total number of assessed students: 48					
A	B	C	D	E	FX
31.25	25.0	20.83	18.75	4.17	0.0
Provides:					
Date of last modification: 22.02.2017					
Approved: Guaranteeprof. PhDr. Oľga Orosová, CSc. Guaranteeprof. RNDr. Jozef Doboš, CSc. Guaranteedoc. RNDr. Katarína Kimáková, CSc.					

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Science	
Course ID: ÚFV/ MDT06/15	Course name: Modern Didactical Technics
Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: present	
Number of credits: 2	
Recommended semester/trimester of the course: 2.	
Course level: II.	
Prerequisites:	
Conditions for course completion: All assignments must be uploaded and accepted by teacher. Active participation at seminar with minimum 80% participation.	
Learning outcomes: Student graduated from subject will be able: - recognise basic tools for teaching activities, - to use all types of actual tools in science education, - to design and realise educational activities by using modern technologies.	
Brief outline of the course: 1. Digital teacher's workspace` 2. Digital imaging 3. Digital image processing 4. Digital audio processing 5. Digital video processing 6. Web cam and videoconferencing systems 7. Interactive didactical system (wideboard, voting system) 8. Computer based measurements 9. Digital technologies in everyday life	
Recommended literature: 1. Kireš, M. et al.: Modern didactical technics in teacher practice, Košice: Elfa, 2010, ISBN 788080861353 2. actual information from web sites related to didactical technologies, 3. catalogues of teaching tools, 3. actual articles about modern trends in science education.	
Course language: Slovak, English	
Course assessment Total number of assessed students: 41	

A	B	C	D	E	FX
29.27	48.78	12.2	4.88	4.88	0.0
Provides: doc. RNDr. Jozef Hanč, PhD.					
Date of last modification: 23.02.2017					
Approved: Guaranteeprof. PhDr. Oľga Orosová, CSc. Guaranteeprof. RNDr. Jozef Doboš, CSc. Guaranteedoc. RNDr. Katarína Kimáková, CSc.					

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice					
Faculty: Faculty of Science					
Course ID: ÚBEV/ MKVU/15		Course name: Mikrobiológia a základy virológie			
Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per week: 2 / 2 Per study period: 28 / 28 Course method: present					
Number of credits: 5					
Recommended semester/trimester of the course: 3.					
Course level: II.					
Prerequisites:					
Conditions for course completion: Attendance of practicals (at least 90%), 2 written examinations during semester, final oral examination					
Learning outcomes: Students will obtain a basic informations on viruses, prokaryotic and eukaryotic microorganisms, their cytology, physiology, genetics, ecology, classification, and importance . Information on basic methods for studying microorganisms will be provided.					
Brief outline of the course: Viruses, prokaryotic and eukaryotic microorganisms, their cytology, physiology, genetics, ecology, classification. The importance of microorganisms for humans and environment.					
Recommended literature:					
Course language:					
Course assessment Total number of assessed students: 1187					
A	B	C	D	E	FX
22.33	11.63	17.02	20.47	23.76	4.8
Provides: doc. RNDr. Peter Pristaš, CSc., RNDr. Mariana Kolesárová, PhD., RNDr. Lenka Maliničová, PhD.					
Date of last modification: 24.02.2017					
Approved: Guaranteeprof. PhDr. Oľga Orosová, CSc.Guaranteeprof. RNDr. Jozef Doboš, CSc.Guaranteedoc. RNDr. Katarína Kimáková, CSc.					

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Science	
Course ID: KPE/MPPa/15	Course name: Supervised Teaching Practice
Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: Per study period: 36s Course method: present	
Number of credits: 2	
Recommended semester/trimester of the course: 1.	
Course level: II.	
Prerequisites:	
Conditions for course completion:	
Learning outcomes:	
Brief outline of the course:	
Recommended literature:	
Course language:	
Course assessment Total number of assessed students: 613	
abs	n
99.84	0.16
Provides: doc. PhDr. Beata Gajdošová, PhD., PaedDr. Renáta Orosová, PhD., Mgr. Katarína Petříková, PhD.	
Date of last modification: 07.02.2017	
Approved: Guaranteeprof. PhDr. Oľga Orosová, CSc. Guaranteeprof. RNDr. Jozef Doboš, CSc. Guaranteedoc. RNDr. Katarína Kimáková, CSc.	

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Science	
Course ID: ÚBEV/MPPb/15	Course name: Scheduled practice teaching
Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: Per study period: 36s Course method: present	
Number of credits: 1	
Recommended semester/trimester of the course: 2.	
Course level: II.	
Prerequisites: KPE/MPPa/15 and KPE/PDU/15 and (KPPaPZ/PaSPP/09 or KPPaPZ/PPgU/15)	
Conditions for course completion: During the practice student observe 11 biology lessons and leads one own biology hour under the guidance of a teacher trainer. Confirmation of classroom visits. Written assessment from the teacher trainer.	
Learning outcomes: Students acquire knowledge by observing the practical application of teaching skills for teaching the subject of biology and getting to know the organization of school work. Introduction into practical implementation of biology lesson.	
Brief outline of the course: Students observe the process of teaching biology at primary and secondary school and analyzed it with teacher trainer. Practice takes place continuously during the course of the semester. Practice is scheduled once a week at the time of first to third lesson in schools. The first two hours observation/teaching, the third hour analysing process under the guidance of a teacher trainer.	
Recommended literature: Current biology textbooks for primary and secondary schools in Slovakia.	
Course language:	
Course assessment Total number of assessed students: 379	
abs	n
99.47	0.53
Provides:	
Date of last modification: 24.02.2017	
Approved: Guaranteeprof. PhDr. Oľga Orosová, CSc. Guaranteeprof. RNDr. Jozef Doboš, CSc. Guaranteedoc. RNDr. Katarína Kimáková, CSc.	

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Science	
Course ID: ÚBEV/MPPc/15	Course name: Continuous practice teaching I
Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: Per study period: 4t Course method: present	
Number of credits: 2	
Recommended semester/trimester of the course: 3.	
Course level: II.	
Prerequisites: ÚBEV/MPPb/03 or ÚBEV/MPPb/15	
Conditions for course completion:	
Learning outcomes:	
Brief outline of the course:	
Recommended literature:	
Course language:	
Course assessment Total number of assessed students: 102	
abs	n
100.0	0.0
Provides:	
Date of last modification: 24.02.2017	
Approved: Guaranteeprof. PhDr. Oľga Orosová, CSc. Guaranteeprof. RNDr. Jozef Doboš, CSc. Guaranteedoc. RNDr. Katarína Kimáková, CSc.	

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Science	
Course ID: ÚBEV/MPPd/15	Course name: Continuous practice teaching II
Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: Per study period: 6t Course method: present	
Number of credits: 2	
Recommended semester/trimester of the course: 4.	
Course level: II.	
Prerequisites: ÚBEV/MPPc/15	
Conditions for course completion:	
Learning outcomes:	
Brief outline of the course:	
Recommended literature:	
Course language:	
Course assessment Total number of assessed students: 76	
abs	n
100.0	0.0
Provides: PaedDr. Andrea Lešková, PhD.	
Date of last modification: 24.02.2017	
Approved: Guaranteeprof. PhDr. Oľga Orosová, CSc. Guaranteeprof. RNDr. Jozef Doboš, CSc. Guaranteedoc. RNDr. Katarína Kimáková, CSc.	

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice					
Faculty: Faculty of Science					
Course ID: KPE/MT/09		Course name: Class Management			
Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: present					
Number of credits: 2					
Recommended semester/trimester of the course: 2.					
Course level: II.					
Prerequisites:					
Conditions for course completion:					
Learning outcomes:					
Brief outline of the course:					
Recommended literature:					
Course language:					
Course assessment Total number of assessed students: 455					
A	B	C	D	E	FX
54.07	32.97	9.67	1.54	0.66	1.1
Provides: PaedDr. Renáta Orosová, PhD.					
Date of last modification: 07.02.2017					
Approved: Guaranteeprof. PhDr. Oľga Orosová, CSc. Guaranteeprof. RNDr. Jozef Doboš, CSc. Guaranteedoc. RNDr. Katarína Kimáková, CSc.					

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice					
Faculty: Faculty of Science					
Course ID: KGER/ NJKG/07		Course name: Communicative Grammar in German Language			
Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: present					
Number of credits: 2					
Recommended semester/trimester of the course:					
Course level: I., II.					
Prerequisites:					
Conditions for course completion:					
Learning outcomes:					
Brief outline of the course:					
Recommended literature:					
Course language:					
Course assessment Total number of assessed students: 47					
A	B	C	D	E	FX
53.19	12.77	10.64	4.26	10.64	8.51
Provides: PaedDr. Ingrid Puchalová, PhD.					
Date of last modification: 20.02.2017					
Approved: Guaranteeprof. PhDr. Oľga Orosová, CSc. Guaranteeprof. RNDr. Jozef Doboš, CSc. Guaranteedoc. RNDr. Katarína Kimáková, CSc.					

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice					
Faculty: Faculty of Science					
Course ID: ÚBEV/ OPR/12		Course name: Conservation Biology			
Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per week: 2 / 0 Per study period: 28 / 0 Course method: present					
Number of credits: 3					
Recommended semester/trimester of the course: 1.					
Course level: I., II.					
Prerequisites:					
Conditions for course completion: Examination.					
Learning outcomes: The main goal of the subject is to introduce term biodiversity, principal threats and conservation of species, populations, communities and ecosystems.					
Brief outline of the course: Fundamental and origin of conservation biology. Different levels of biodiversity, biodiversity hotspots on Earth. Economic value of biodiversity as the principal argument of nature conservation. Factors leading to biodiversity threats. Extinctions and problems of small populations. Conservation of populations and species, conservation programs and strategies. Classification and management of protected areas, conservation outside the protected areas. Sustainable development, education to conservation of nature.					
Recommended literature: Primack R.B., 2010: Essentials of conservation biology. Sinauer Associates, 1-603					
Course language:					
Course assessment Total number of assessed students: 559					
A	B	C	D	E	FX
75.49	13.6	7.69	2.15	0.36	0.72
Provides: doc. RNDr. Ľubomír Kováč, CSc.					
Date of last modification: 24.02.2017					
Approved: Guaranteeprof. PhDr. Oľga Orosová, CSc. Guaranteeprof. RNDr. Jozef Doboš, CSc. Guaranteedoc. RNDr. Katarína Kimáková, CSc.					

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice					
Faculty: Faculty of Science					
Course ID: KPPaPZ/PASZ/17		Course name: Problémové a agresívne správanie žiakov. Etiológia, prevencia a intervencia.			
Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: present					
Number of credits: 2					
Recommended semester/trimester of the course: 2.					
Course level: II.					
Prerequisites:					
Conditions for course completion:					
Learning outcomes:					
Brief outline of the course:					
Recommended literature:					
Course language:					
Course assessment Total number of assessed students: 17					
A	B	C	D	E	FX
100.0	0.0	0.0	0.0	0.0	0.0
Provides: PhDr. Anna Janovská, PhD.					
Date of last modification: 25.05.2017					
Approved: Guaranteeprof. PhDr. Oľga Orosová, CSc. Guaranteeprof. RNDr. Jozef Doboš, CSc. Guaranteedoc. RNDr. Katarína Kimáková, CSc.					

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice					
Faculty: Faculty of Science					
Course ID: KPE/ PDD/17		Course name: Pedagogical Diagnostics			
Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: present					
Number of credits: 2					
Recommended semester/trimester of the course: 2.					
Course level: II.					
Prerequisites:					
Conditions for course completion:					
Learning outcomes:					
Brief outline of the course:					
Recommended literature:					
Course language:					
Course assessment Total number of assessed students: 7					
A	B	C	D	E	FX
100.0	0.0	0.0	0.0	0.0	0.0
Provides: PaedDr. Renáta Orosová, PhD., Mgr. Lucia Diheneščíková, PhD.					
Date of last modification: 13.06.2017					
Approved: Guaranteeprof. PhDr. Oľga Orosová, CSc. Guaranteeprof. RNDr. Jozef Doboš, CSc. Guaranteedoc. RNDr. Katarína Kimáková, CSc.					

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice					
Faculty: Faculty of Science					
Course ID: KPE/ PDK/17		Course name: Pedagogical Communication			
Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: present					
Number of credits: 2					
Recommended semester/trimester of the course: 1.					
Course level: II.					
Prerequisites:					
Conditions for course completion:					
Learning outcomes:					
Brief outline of the course:					
Recommended literature:					
Course language:					
Course assessment Total number of assessed students: 8					
A	B	C	D	E	FX
75.0	25.0	0.0	0.0	0.0	0.0
Provides: Mgr. Katarína Petriková, PhD.					
Date of last modification: 13.06.2017					
Approved: Guaranteeprof. PhDr. Oľga Orosová, CSc. Guaranteeprof. RNDr. Jozef Doboš, CSc. Guaranteedoc. RNDr. Katarína Kimáková, CSc.					

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice					
Faculty: Faculty of Science					
Course ID: KPE/ PDU/15		Course name: Teaching Methodology and Pedagogy			
Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per week: 2 / 2 Per study period: 28 / 28 Course method: present					
Number of credits: 5					
Recommended semester/trimester of the course: 1.					
Course level: II.					
Prerequisites:					
Conditions for course completion:					
Learning outcomes:					
Brief outline of the course:					
Recommended literature:					
Course language:					
Course assessment Total number of assessed students: 1275					
A	B	C	D	E	FX
11.76	25.8	26.2	20.08	8.71	7.45
Provides: PaedDr. Renáta Orosová, PhD., Mgr. Katarína Petriková, PhD., Mgr. Lucia Diheneščíková, PhD.					
Date of last modification: 07.02.2017					
Approved: Guaranteeprof. PhDr. Oľga Orosová, CSc. Guaranteeprof. RNDr. Jozef Doboš, CSc. Guaranteedoc. RNDr. Katarína Kimáková, CSc.					

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice					
Faculty: Faculty of Science					
Course ID: CJP/ PFAJAKA/07		Course name: Academic English			
Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: combined, present					
Number of credits: 2					
Recommended semester/trimester of the course:					
Course level: I., II., N					
Prerequisites:					
Conditions for course completion: Active classroom participation, 2 absences tolerated (4x45 min.) tolerated. 2 tests (5th/6th week and 12th/13th week), no retake. Minipresentation on chosen topic. Final evaluation- average assessment of tests and presentation. Grading scale: A 93-100%, B 86-92%, C 79-85%, D 72-78%, E 65-71%, FX 64% and less					
Learning outcomes:					
Brief outline of the course:					
Recommended literature: Seal B.: Academic Encounters, CUP, 2002 T. Armer :Cambridge English for Scientists, CUP 2011 M. McCarthy M., O'Dell F. - Academic Vocabulary in Use, CUP 2008 Zemach, D.E, Rumisek, L.A: Academic Writing, Macmillan 2005 Olsen, A. : Active Vocabulary, Pearson, 2013 www.bbclearningenglish.com Cambridge Academic Content Dictionary, CUP, 2009					
Course language: English language, level B2 according to CEFR.					
Course assessment Total number of assessed students: 334					
A	B	C	D	E	FX
29.94	23.65	16.17	11.08	7.49	11.68
Provides: PaedDr. Gabriela Bednáriková					
Date of last modification: 21.02.2017					
Approved: Guaranteeprof. PhDr. Oľga Orosová, CSc.Guaranteeprof. RNDr. Jozef Doboš, CSc.Guaranteedoc. RNDr. Katarína Kimáková, CSc.					

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice					
Faculty: Faculty of Science					
Course ID: CJP/ PFAJGA/07		Course name: Communicative Grammar in English			
Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: combined, present					
Number of credits: 2					
Recommended semester/trimester of the course:					
Course level: I., II., N					
Prerequisites:					
Conditions for course completion: Active classroom participation (max. 2x90 min. absences tolerated). 2 test (5th/6th and 12/13th week), no retake. Final evaluation- average assessment of tests. Grading scale: A 93-100%, B 86-92%, C 79-85%, D 72-78%, E 65-71%, FX 64% and less.					
Learning outcomes:					
Brief outline of the course:					
Recommended literature: Misztal M.: Thematic Vocabulary, Fragment, 1998 McCarthy, O'Dell: English Vocabulary in Use, 1994 Alexander L.G.: Longman English Grammar, Longman, 1988 Jones I. - Communicative Grammar Practice, CUP, 1992 Vince M.: Macmillan Grammar in Context, Macmillan, 2008 www.bbclearningenglish.com Gráf T., Peters S.: Time to practise, Polyglot, 2007					
Course language:					
Course assessment Total number of assessed students: 389					
A	B	C	D	E	FX
39.33	18.25	16.97	9.0	6.17	10.28
Provides: PaedDr. Gabriela Bednáriková, Mgr. Barbara Mitříková					
Date of last modification: 21.02.2017					
Approved: Guaranteeprof. PhDr. Oľga Orosová, CSc. Guaranteeprof. RNDr. Jozef Doboš, CSc. Guaranteedoc. RNDr. Katarína Kimáková, CSc.					

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Science	
Course ID: CJP/ PFAJKKA/07	Course name: Communicative Competence in English
Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: combined, present	
Number of credits: 2	
Recommended semester/trimester of the course:	
Course level: I., II., N	
Prerequisites:	
Conditions for course completion: Active participation in class and completed homework assignments. Students are allowed to miss two classes at the most. 2 credit tests (presumably in weeks 6/7 and 12/13) and short academic presentations in English on selected topics. Final grade will be calculated as follows: A 93-100 %, B 86-92%, C 79-85%, D 72-78%, E 65-71%, FX 64 % and less.	
Learning outcomes: Uplatnenie a aktívne používanie svojich teoretických vedomostí v praktických komunikačných situáciách. Zdokonalenie jazykových vedomostí a zručností študenta, rečovej, pragmatickej a vecnej kompetencie, predovšetkým zlepšujú komunikáciu, schopnosť prijímať a formulovať výpovede, efektívne vyjadrovať svoje myšlienky ako aj orientovať sa v obsahovom pláne výpovede. Precvičovanie rečových intencií kontaktných (napr. pozdravy, oslovenia, pozvanie, oslovenie), informatívnych (napr. získavanie a podávanie informácií, vyjadrenie priestorových a časových vzťahov), regulačných (napr. prosba, poďakovanie, zákaz, pochvala, súhlas, nesúhlas) a hodnotiacich (napr. vyjadrenie vlastného názoru, stanoviska, želania, emócií). Výsledkom budovania praktickej jazykovej kompetencie majú byť vedomosti a zručnosti zodpovedajúce požiadavkám a kritériám dokumentu Spoločný európsky referenčný rámec pre vyučovanie jazykov.	
Brief outline of the course: Rodina, jej formy a problémy Vyjadrovanie pocitov a dojmov Dom, bývanie a budúcnosť Formy a dialekty v anglickom jazyku Život v meste a na vidieku Kolokácie a idiomy, zaužívané slovné spojenia Prázdniny a sviatky vo svete Životné prostredie a ekológia Výnimky zo slovosledu Frázové slovesá a ich použitie Charakteristiky neformálneho diškurzu	

Recommended literature:

www.bbclearningenglish.com

McCarthy M., O'Dell F.: English Vocabulary in Use, Upper-Intermediate. CUP, 1994.

Misztal M.: Thematic Vocabulary. SPN, 1998.

Fictumova J., Ceccarelli J., Long T.: Angličtina, konverzace pro pokročilé. Barrister and Principal, 2008.

Peters S., Gráf T.: Time to practise. Polyglot, 2007.

Jones L.: Communicative Grammar Practice. CUP, 1985.

Alexander L.G.: Longman English Grammar. Longman, 1988.

Course language:

English language, B2 level according to CEFR

Course assessment

Total number of assessed students: 211

A	B	C	D	E	FX
36.02	21.33	20.38	10.9	7.58	3.79

Provides: Mgr. Barbara Mitříková

Date of last modification: 21.02.2017

Approved: Guaranteeprof. PhDr. Ol'ga Orosová, CSc. Guaranteeprof. RNDr. Jozef Doboš, CSc. Guaranteedoc. RNDr. Katarína Kimáková, CSc.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice					
Faculty: Faculty of Science					
Course ID: KPE/PPD/15		Course name: Pedagogy and Psychology			
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present					
Number of credits: 1					
Recommended semester/trimester of the course:					
Course level: II.					
Prerequisites: KPE/PDU/15 and KPPaPZ/PPgU/15					
Conditions for course completion:					
Learning outcomes:					
Brief outline of the course:					
Recommended literature:					
Course language:					
Course assessment Total number of assessed students: 279					
A	B	C	D	E	FX
27.24	24.73	27.96	15.41	4.3	0.36
Provides:					
Date of last modification: 07.02.2017					
Approved: Guaranteeprof. PhDr. Oľga Orosová, CSc. Guaranteeprof. RNDr. Jozef Doboš, CSc. Guaranteedoc. RNDr. Katarína Kimáková, CSc.					

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice					
Faculty: Faculty of Science					
Course ID: Dek. PF UPJŠ/PPZ/13		Course name: Personality Development and Key Competences for Success on a Labour Market			
Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: Per study period: 14s Course method: present					
Number of credits: 2					
Recommended semester/trimester of the course:					
Course level: II.					
Prerequisites:					
Conditions for course completion:					
Learning outcomes:					
Brief outline of the course:					
Recommended literature:					
Course language:					
Course assessment Total number of assessed students: 39					
A	B	C	D	E	FX
100.0	0.0	0.0	0.0	0.0	0.0
Provides: RNDr. Peter Stefányi, PhD.					
Date of last modification: 13.02.2017					
Approved: Guaranteeprof. PhDr. Oľga Orosová, CSc. Guaranteeprof. RNDr. Jozef Doboš, CSc. Guaranteedoc. RNDr. Katarína Kimáková, CSc.					

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice					
Faculty: Faculty of Science					
Course ID: KPPaPZ/PPgU/15		Course name: Psychology and Educational Psychology			
Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per week: 2 / 2 Per study period: 28 / 28 Course method: present					
Number of credits: 5					
Recommended semester/trimester of the course: 1.					
Course level: II.					
Prerequisites:					
Conditions for course completion:					
Learning outcomes:					
Brief outline of the course:					
Recommended literature:					
Course language:					
Course assessment Total number of assessed students: 1199					
A	B	C	D	E	FX
10.51	18.93	22.85	22.52	21.93	3.25
Provides: prof. PhDr. Oľga Orosová, CSc., Mgr. Lucia Hricová, PhD., PhDr. Anna Janovská, PhD.					
Date of last modification: 16.02.2017					
Approved: Guaranteeprof. PhDr. Oľga Orosová, CSc. Guaranteeprof. RNDr. Jozef Doboš, CSc. Guaranteedoc. RNDr. Katarína Kimáková, CSc.					

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice					
Faculty: Faculty of Science					
Course ID: ÚMV/ PSTb/10		Course name: Probability and statistics II			
Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per week: 2 / 2 Per study period: 28 / 28 Course method: present					
Number of credits: 5					
Recommended semester/trimester of the course: 1.					
Course level: I., II.					
Prerequisites:					
Conditions for course completion: To obtain at least 50% in two written tests during the semester. Total evaluation based on written tests and oral exam.					
Learning outcomes: Student should obtain the knowledge about basic statistical methods and the ability to apply theoretical knowledge in practical problems solving.					
Brief outline of the course: Random vectors, their distributions and characteristics. Joint and marginal distributions. Correlation and regression, properties of correlation coefficient. Random sample, sampling distributions and characteristics. Some important statistics and their distributions. Point estimators and their properties. Maximum likelihood method. Interval estimates, confidence interval construction. Testing of statistical hypothesis, critical region, level of significance. Methods for searching optimal critical regions. Some important parametric and nonparametric tests.					
Recommended literature: 1. Skřivánková V.: Pravdepodobnosť v príkladoch, UPJŠ, Košice, 2006 (in Slovak) 2. Skřivánková V.-Hančová M.: Štatistika v príkladoch, UPJŠ, Košice, 2005 (in Slovak) 3. CASELLA, G., BERGER, R., Statistical Inference, 2nd ed., Duxbury Press, 2002 4. DeGroot, M. H., Schervish, M. J.: Probability and Statistics, 4th ed., Pearson, Boston, 2012 5. Utts, J.M., Heckard, R.F.: Mind od Statistics, 5th ed., Thomson Brooks/Cole, 2014 6. Anděl J.: Základy matematické statistiky, MatfyzPress, Praha, 2011 (in Czech)					
Course language: Slovak					
Course assessment Total number of assessed students: 170					
A	B	C	D	E	FX
20.0	20.59	18.24	24.12	11.18	5.88
Provides: RNDr. Martina Hančová, PhD.					
Date of last modification: 22.02.2017					

Approved: Guaranteeprof. PhDr. Oľga Orosová, CSc. Guaranteeprof. RNDr. Jozef Doboš,
CSc. Guaranteeprof. RNDr. Katarína Kimáková, CSc.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice					
Faculty: Faculty of Science					
Course ID: KPPaPZ/PTPN/17		Course name: Psychológia tvorivosti a práca s nadanými v práci učiteľa			
Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: present					
Number of credits: 2					
Recommended semester/trimester of the course: 2.					
Course level: II.					
Prerequisites:					
Conditions for course completion:					
Learning outcomes:					
Brief outline of the course:					
Recommended literature:					
Course language:					
Course assessment Total number of assessed students: 3					
A	B	C	D	E	FX
100.0	0.0	0.0	0.0	0.0	0.0
Provides: Mgr. Lucia Hricová, PhD.					
Date of last modification: 25.05.2017					
Approved: Guaranteeprof. PhDr. Oľga Orosová, CSc. Guaranteeprof. RNDr. Jozef Doboš, CSc. Guaranteedoc. RNDr. Katarína Kimáková, CSc.					

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice					
Faculty: Faculty of Science					
Course ID: KPPaPZ/PUDU/15		Course name: Drug Addiction Prevention in Educational Practice			
Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per week: 2 / 1 Per study period: 28 / 14 Course method: present					
Number of credits: 4					
Recommended semester/trimester of the course: 1., 3.					
Course level: II.					
Prerequisites:					
Conditions for course completion:					
Learning outcomes:					
Brief outline of the course:					
Recommended literature:					
Course language:					
Course assessment Total number of assessed students: 204					
A	B	C	D	E	FX
46.57	42.65	9.8	0.98	0.0	0.0
Provides: prof. PhDr. Oľga Orosová, CSc., Mgr. Marta Kulanová, PhD., Mgr. Marcela Štefaňáková, Mgr. Bohuš Hajduch					
Date of last modification: 16.02.2017					
Approved: Guaranteeprof. PhDr. Oľga Orosová, CSc. Guaranteeprof. RNDr. Jozef Doboš, CSc. Guaranteedoc. RNDr. Katarína Kimáková, CSc.					

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice					
Faculty: Faculty of Science					
Course ID: KPPaPZ/PsZ/15		Course name: Psychology of Health			
Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: present					
Number of credits: 2					
Recommended semester/trimester of the course: 3.					
Course level: II.					
Prerequisites:					
Conditions for course completion:					
Learning outcomes:					
Brief outline of the course:					
Recommended literature:					
Course language:					
Course assessment Total number of assessed students: 50					
A	B	C	D	E	FX
100.0	0.0	0.0	0.0	0.0	0.0
Provides: Mgr. Jozef Benka, PhD. et PhD.					
Date of last modification: 16.02.2017					
Approved: Guaranteeprof. PhDr. Oľga Orosová, CSc. Guaranteeprof. RNDr. Jozef Doboš, CSc. Guaranteedoc. RNDr. Katarína Kimáková, CSc.					

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice					
Faculty: Faculty of Science					
Course ID: KPO/SDaM/15		Course name: Child and Adolescent Sociology			
Course type, scope and the method: Course type: Lecture Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: present					
Number of credits: 2					
Recommended semester/trimester of the course: 3.					
Course level: II.					
Prerequisites:					
Conditions for course completion:					
Learning outcomes:					
Brief outline of the course:					
Recommended literature:					
Course language:					
Course assessment Total number of assessed students: 831					
A	B	C	D	E	FX
49.94	29.6	15.4	3.37	1.32	0.36
Provides: Mgr. Alexander Onufrák, PhD.					
Date of last modification: 17.02.2017					
Approved: Guaranteeprof. PhDr. Oľga Orosová, CSc. Guaranteeprof. RNDr. Jozef Doboš, CSc. Guaranteedoc. RNDr. Katarína Kimáková, CSc.					

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice					
Faculty: Faculty of Science					
Course ID: ÚMV/ SHM/10		Course name: Seminar on history of mathematics			
Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: present					
Number of credits: 2					
Recommended semester/trimester of the course: 2.					
Course level: I., II.					
Prerequisites:					
Conditions for course completion: Homework, presentation on the chosen topic during the seminar. More than 91 points - evaluation of A. 81-90 points - evaluation of B. 71-80 points - rating C. 61-70 points - evaluation of D. 51-60 points - evaluation of E. Less than 50 points - FX evaluation.					
Learning outcomes: Students get an overview of the history of the development of certain mathematical disciplines and selected terms and about parallel between phylogenesis and ontogenesis of mathematical thinking.					
Brief outline of the course: Mathematics in Early Civilizations. Greek Mathematics. Mathematics in the Near and Far East (Arabia, China, India). Medieval European Mathematics. The Renaissance of Mathematics. The Beginning of Modern Mathematics.					
Recommended literature: Burton, D. M.: The History of Mathematics: An Introduction. McGraw–Hill, 2007. Devlin, K.: Jazyk matematiky. Dokořán, 2002 (in czech) Kolman, A.: Dejiny matematiky ve starověku. Academia, Praha, 1968 (in slovak) Juškevič, A. P.: Dejiny matematiky ve středověku. Academia, Praha 1977 (in slovak) Znáň, Š. a kol.: Pohľad do dejín matematiky. Alfa, Bratislava, 1986 (in slovak) Konforovič, A.G.: Významné matematické úlohy, SPN Praha, 1989 (in slovak)					
Course language: Slovak					
Course assessment Total number of assessed students: 138					
A	B	C	D	E	FX
79.71	7.25	7.25	2.9	2.9	0.0

Provides: RNDr. Ingrid Semanišínová, PhD.
Date of last modification: 22.02.2017
Approved: Guaranteeprof. PhDr. Oľga Orosová, CSc. Guaranteeprof. RNDr. Jozef Doboš, CSc. Guaranteedoc. RNDr. Katarína Kimáková, CSc.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice					
Faculty: Faculty of Science					
Course ID: KPPaPZ/SNP/09		Course name: Mobbing, Violence and Their Prevention			
Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: present					
Number of credits: 2					
Recommended semester/trimester of the course:					
Course level: II.					
Prerequisites:					
Conditions for course completion:					
Learning outcomes:					
Brief outline of the course:					
Recommended literature:					
Course language:					
Course assessment Total number of assessed students: 83					
A	B	C	D	E	FX
80.72	18.07	1.2	0.0	0.0	0.0
Provides: Mgr. Mária Bačíková, PhD.					
Date of last modification: 16.02.2017					
Approved: Guaranteeprof. PhDr. Oľga Orosová, CSc. Guaranteeprof. RNDr. Jozef Doboš, CSc. Guaranteedoc. RNDr. Katarína Kimáková, CSc.					

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice					
Faculty: Faculty of Science					
Course ID: ÚBEV/ SPP/08		Course name: School experiments and observations			
Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: present					
Number of credits: 2					
Recommended semester/trimester of the course: 3.					
Course level: II.					
Prerequisites:					
Conditions for course completion: Realisation of didactic analysis after conducted experiments and observations.					
Learning outcomes: Preparing students for the implementation of biological school experiments and observations.					
Brief outline of the course: The course is aimed at training and application skills that are necessary for the implementation of experiments and observations in the classroom. It helps students develop theoretical knowledge in practical work during training and familiarizes them with didactic methods in demonstrating the biological observation and educational experiments. It focuses on the possibilities of applying these methods in the various stages of a teaching unit.					
Recommended literature: HUDÁKOVÁ, A., KIMÁKOVÁ, K. 2005. Demonštračné pokusy a pozorovania z biológie rastlín. Košice: UPJŠ; Prírodovedecká fakulta, 84 s. ISBN 80-7097-610-1. Internal study materials in Moodle https://lms.upjs.sk/login/index.php					
Course language:					
Course assessment Total number of assessed students: 64					
A	B	C	D	E	FX
64.06	20.31	12.5	3.13	0.0	0.0
Provides: PaedDr. Andrea Lešková, PhD., Mgr. Zuzana Boberová, PhD.					
Date of last modification: 24.02.2017					
Approved: Guaranteeprof. PhDr. Oľga Orosová, CSc. Guaranteeprof. RNDr. Jozef Doboš, CSc. Guaranteedoc. RNDr. Katarína Kimáková, CSc.					

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice					
Faculty: Faculty of Science					
Course ID: ÚMV/SSM/15		Course name: Seminar on school mathematics			
Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: present					
Number of credits: 2					
Recommended semester/trimester of the course: 2.					
Course level: II.					
Prerequisites:					
Conditions for course completion: During the semester will be 3 written exams. Evaluation A - at least 90% of the points, evaluation B - at least 80%, evaluation C at least 70%, evaluation D at least 60%, evaluation E rating of at least 50% of the points. Credits shall not be granted to a student who receives less than 50% of the points.					
Learning outcomes: Students become familiar with the tasks, methods of problem solving, solving strategies and with specific problems of teaching mathematics at primary and secondary schools.					
Brief outline of the course: Basic knowledge of school mathematics. Number theory tasks, tasks to optimize, word problems.					
Recommended literature: Hecht, T., Sklenáriková, Z., Metódy riešenia matematických úloh, Bratislava, SPN, 1992. Hecht, T. a kol., Matematika pre 1.-4. ročník gymnázií a SOŠ, OrbisPictusIstropolitana, Bratislava 1999-2002. Krantz, S.G., Techniques of Problem Solving, AMS, 1997. Larson, L.C., Metódy riešenia matematických problémov, Bratislava, Alfa, 1990.					
Course language: Slovak					
Course assessment Total number of assessed students: 112					
A	B	C	D	E	FX
41.96	24.11	11.61	10.71	11.61	0.0
Provides: doc. RNDr. Matúš Harminec, CSc.					
Date of last modification: 22.02.2017					
Approved: Guaranteeprof. PhDr. Oľga Orosová, CSc. Guaranteeprof. RNDr. Jozef Doboš, CSc. Guaranteeprof. RNDr. Katarína Kimáková, CSc.					

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice					
Faculty: Faculty of Science					
Course ID: ÚMV/ SVK/10		Course name: Students scientific conference			
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present					
Number of credits: 4					
Recommended semester/trimester of the course:					
Course level: I., II.					
Prerequisites:					
Conditions for course completion:					
Learning outcomes: Individual scientific work of students. Publishing of obtained results in a written form and as a public presentation.					
Brief outline of the course:					
Recommended literature: With respect to the research problematics (article in journals, books).					
Course language: Slovak or English					
Course assessment Total number of assessed students: 79					
A	B	C	D	E	FX
98.73	1.27	0.0	0.0	0.0	0.0
Provides:					
Date of last modification: 22.02.2017					
Approved: Guaranteeprof. PhDr. Oľga Orosová, CSc. Guaranteeprof. RNDr. Jozef Doboš, CSc. Guaranteedoc. RNDr. Katarína Kimáková, CSc.					

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice					
Faculty: Faculty of Science					
Course ID: ÚBEV/ SVK/01		Course name: Student Scientific Conference			
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present					
Number of credits: 4					
Recommended semester/trimester of the course: 2.					
Course level: I., II.					
Prerequisites:					
Conditions for course completion:					
Learning outcomes:					
Brief outline of the course:					
Recommended literature:					
Course language:					
Course assessment Total number of assessed students: 230					
A	B	C	D	E	FX
100.0	0.0	0.0	0.0	0.0	0.0
Provides:					
Date of last modification: 24.02.2017					
Approved: Guaranteeprof. PhDr. Oľga Orosová, CSc. Guaranteeprof. RNDr. Jozef Doboš, CSc. Guaranteedoc. RNDr. Katarína Kimáková, CSc.					

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice					
Faculty: Faculty of Science					
Course ID: KPE/ TTUP/15		Course name: Creating Text Teaching Aids			
Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: present					
Number of credits: 2					
Recommended semester/trimester of the course: 2.					
Course level: II.					
Prerequisites:					
Conditions for course completion:					
Learning outcomes:					
Brief outline of the course:					
Recommended literature:					
Course language:					
Course assessment Total number of assessed students: 103					
A	B	C	D	E	FX
48.54	33.98	10.68	4.85	1.94	0.0
Provides: PaedDr. Renáta Orosová, PhD., Mgr. Katarína Petříková, PhD.					
Date of last modification: 07.02.2017					
Approved: Guaranteeprof. PhDr. Oľga Orosová, CSc. Guaranteeprof. RNDr. Jozef Doboš, CSc. Guaranteedoc. RNDr. Katarína Kimáková, CSc.					

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice							
Faculty: Faculty of Science							
Course ID: ÚTVŠ/ TVa/11		Course name: Sports Activities I.					
Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: present							
Number of credits: 2							
Recommended semester/trimester of the course: 1.							
Course level: I., I.II., II.							
Prerequisites:							
Conditions for course completion:							
Learning outcomes:							
Brief outline of the course:							
Recommended literature:							
Course language:							
Course assessment Total number of assessed students: 10457							
abs	abs-A	abs-B	abs-C	abs-D	abs-E	n	neabs
88.25	0.0	0.0	0.0	0.0	0.02	7.81	3.92
Provides: Mgr. Peter Bakalár, PhD., Mgr. Dana Dračková, PhD., Mgr. Agata Horbacz, PhD., Mgr. Dávid Kaško, Mgr. Zuzana Küchelová, PhD., PaedDr. Jana Potočnicková, PhD., doc. PaedDr. Ivan Uher, PhD., Mgr. Marek Valanský, prof. RNDr. Stanislav Vokál, DrSc., Mgr. Aurel Zelko, PhD., Mgr. Marcel Čurgali, doc. PhDr. Ivan Šulc, CSc.							
Date of last modification: 23.02.2017							
Approved: Guaranteeprof. PhDr. Oľga Orosová, CSc. Guaranteeprof. RNDr. Jozef Doboš, CSc. Guaranteeprof. RNDr. Katarína Kimáková, CSc.							

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice							
Faculty: Faculty of Science							
Course ID: ÚTVŠ/ TVb/11		Course name: Sports Activities II.					
Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: present							
Number of credits: 2							
Recommended semester/trimester of the course: 2.							
Course level: I., I.II., II.							
Prerequisites:							
Conditions for course completion:							
Learning outcomes:							
Brief outline of the course:							
Recommended literature:							
Course language:							
Course assessment Total number of assessed students: 9779							
abs	abs-A	abs-B	abs-C	abs-D	abs-E	n	neabs
85.09	0.61	0.02	0.0	0.0	0.02	10.36	3.9
Provides: Mgr. Peter Bakalár, PhD., Mgr. Dana Dračková, PhD., Mgr. Agata Horbacz, PhD., Mgr. Dávid Kaško, Mgr. Zuzana Küchelová, PhD., PaedDr. Jana Potočnicková, PhD., doc. PaedDr. Ivan Uher, PhD., Mgr. Marek Valanský, prof. RNDr. Stanislav Vokál, DrSc., Mgr. Aurel Zelko, PhD., Mgr. Marcel Čurgali, doc. PhDr. Ivan Šulc, CSc.							
Date of last modification: 23.02.2017							
Approved: Guaranteeprof. PhDr. Oľga Orosová, CSc. Guaranteeprof. RNDr. Jozef Doboš, CSc. Guaranteeprof. RNDr. Katarína Kimáková, CSc.							

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice							
Faculty: Faculty of Science							
Course ID: ÚTVŠ/ TVc/11		Course name: Sports Activities III.					
Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: present							
Number of credits: 2							
Recommended semester/trimester of the course: 3.							
Course level: I., I.II., II.							
Prerequisites:							
Conditions for course completion:							
Learning outcomes:							
Brief outline of the course:							
Recommended literature:							
Course language:							
Course assessment Total number of assessed students: 6188							
abs	abs-A	abs-B	abs-C	abs-D	abs-E	n	neabs
89.66	0.03	0.0	0.0	0.0	0.0	4.36	5.95
Provides: PaedDr. Jana Potočnicková, PhD., Mgr. Marcel Čurgali, Mgr. Peter Bakalár, PhD., Mgr. Dana Dračková, PhD., Mgr. Agata Horbacz, PhD., Mgr. Dávid Kaško, Mgr. Zuzana Küchelová, PhD., doc. PaedDr. Ivan Uher, PhD., Mgr. Marek Valanský, prof. RNDr. Stanislav Vokál, DrSc., Mgr. Aurel Zelko, PhD., doc. PhDr. Ivan Šulc, CSc.							
Date of last modification: 23.02.2017							
Approved: Guaranteeprof. PhDr. Oľga Orosová, CSc. Guaranteeprof. RNDr. Jozef Doboš, CSc. Guaranteeprof. RNDr. Katarína Kimáková, CSc.							

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice							
Faculty: Faculty of Science							
Course ID: ÚTVŠ/ TVd/11		Course name: Sports Activities IV.					
Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: present							
Number of credits: 2							
Recommended semester/trimester of the course: 4.							
Course level: I., I.II., II.							
Prerequisites:							
Conditions for course completion:							
Learning outcomes:							
Brief outline of the course:							
Recommended literature:							
Course language:							
Course assessment Total number of assessed students: 4644							
abs	abs-A	abs-B	abs-C	abs-D	abs-E	n	neabs
85.66	0.32	0.04	0.0	0.0	0.0	6.61	7.36
Provides: Mgr. Marcel Čurgali, Mgr. Peter Bakalár, PhD., Mgr. Dana Dračková, PhD., Mgr. Agata Horbacz, PhD., Mgr. Dávid Kaško, Mgr. Zuzana Küchelová, PhD., PaedDr. Jana Potočnicková, PhD., doc. PaedDr. Ivan Uher, PhD., Mgr. Marek Valanský, prof. RNDr. Stanislav Vokál, DrSc., Mgr. Aurel Zelko, PhD., doc. PhDr. Ivan Šulc, CSc.							
Date of last modification: 23.02.2017							
Approved: Guaranteeprof. PhDr. Oľga Orosová, CSc. Guaranteeprof. RNDr. Jozef Doboš, CSc. Guaranteeprof. RNDr. Katarína Kimáková, CSc.							

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice					
Faculty: Faculty of Science					
Course ID: KPPaPZ/UPN/17		Course name: Úvod do psychológie náboženstva			
Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: present					
Number of credits: 2					
Recommended semester/trimester of the course: 2.					
Course level: II.					
Prerequisites:					
Conditions for course completion:					
Learning outcomes:					
Brief outline of the course:					
Recommended literature:					
Course language:					
Course assessment Total number of assessed students: 0					
A	B	C	D	E	FX
0.0	0.0	0.0	0.0	0.0	0.0
Provides: Mgr. Jozef Benka, PhD. et PhD.					
Date of last modification: 25.05.2017					
Approved: Guaranteeprof. PhDr. Oľga Orosová, CSc. Guaranteeprof. RNDr. Jozef Doboš, CSc. Guaranteedoc. RNDr. Katarína Kimáková, CSc.					

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice					
Faculty: Faculty of Science					
Course ID: KPPaPZ/UPR/15		Course name: The Art of Aiding by Verbal Exchange			
Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: present					
Number of credits: 2					
Recommended semester/trimester of the course: 2.					
Course level: II.					
Prerequisites:					
Conditions for course completion:					
Learning outcomes:					
Brief outline of the course:					
Recommended literature:					
Course language:					
Course assessment Total number of assessed students: 82					
A	B	C	D	E	FX
92.68	2.44	3.66	1.22	0.0	0.0
Provides: Mgr. Ondrej Kalina, PhD.					
Date of last modification: 16.02.2017					
Approved: Guaranteeprof. PhDr. Oľga Orosová, CSc. Guaranteeprof. RNDr. Jozef Doboš, CSc. Guaranteedoc. RNDr. Katarína Kimáková, CSc.					

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice					
Faculty: Faculty of Science					
Course ID: ÚBEV/VEK1/03		Course name: Introduction to Ecology			
Course type, scope and the method: Course type: Lecture Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: present					
Number of credits: 3					
Recommended semester/trimester of the course: 1.					
Course level: I., II.					
Prerequisites:					
Conditions for course completion:					
Learning outcomes: Fundamental parameters and relations in ecological science.					
Brief outline of the course: Ecological factors and relations in environment (air, water, soil); influence of ecological factors on individuals (morphological adaptations, behavioral reactions); populations and communities; ecosystems (impact assessment); conservation and biodiversity.					
Recommended literature: Begon, M., Harper, J. L., Townsend, C. L.: Ecology: individuals, populations, and communities. Blackwell Sci. Publ., 1990					
Course language:					
Course assessment Total number of assessed students: 1461					
A	B	C	D	E	FX
19.78	15.54	24.44	18.34	12.66	9.24
Provides: prof. RNDr. Igor Hudec, CSc.					
Date of last modification: 24.02.2017					
Approved: Guaranteeprof. PhDr. Oľga Orosová, CSc.Guaranteeprof. RNDr. Jozef Doboš, CSc.Guaranteedoc. RNDr. Katarína Kimáková, CSc.					

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice					
Faculty: Faculty of Science					
Course ID: ÚMV/ VMA/10		Course name: Selected topics on mathematical analysis			
Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per week: 2 / 1 Per study period: 28 / 14 Course method: present					
Number of credits: 3					
Recommended semester/trimester of the course: 2.					
Course level: II.					
Prerequisites:					
Conditions for course completion: Final evaluation is given by continuous assessment.					
Learning outcomes: Extend knowledge of improper integrals, properties of integrals dependent on a parameter, TBA					
Brief outline of the course: 1. Improper Riemann integral: definition, computation, existence criterions. 2. Riemann integrals dependent on a parameter: basic properties of proper and improper parametric integral (continuity, integrability, differentiability). 3. TBA					
Recommended literature: 1. Kluvánek, L. Mišík, M. Švec, Matematika II; SVTL, Bratislava, 1959. 2. J.C. Bowman, Honours Calculus, Math.117/118, University of A. Edmond, Canada, 2010. 3. S. Lang, Undergraduate Analysis, Springer, 1997.					
Course language: Slovak					
Course assessment Total number of assessed students: 57					
A	B	C	D	E	FX
17.54	5.26	29.82	17.54	24.56	5.26
Provides: Mgr. Jozef Kiseľák, PhD., doc. RNDr. Ondrej Hutník, PhD.					
Date of last modification: 22.02.2017					
Approved: Guaranteeprof. PhDr. Oľga Orosová, CSc. Guaranteeprof. RNDr. Jozef Doboš, CSc. Guaranteedoc. RNDr. Katarína Kimáková, CSc.					

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice					
Faculty: Faculty of Science					
Course ID: KPPaPZ/VP/09		Course name: Educational Counselling			
Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: present					
Number of credits: 2					
Recommended semester/trimester of the course: 2.					
Course level: II.					
Prerequisites:					
Conditions for course completion:					
Learning outcomes:					
Brief outline of the course:					
Recommended literature:					
Course language:					
Course assessment Total number of assessed students: 119					
A	B	C	D	E	FX
56.3	26.89	10.08	5.04	1.68	0.0
Provides: PhDr. Anna Janovská, PhD.					
Date of last modification: 16.02.2017					
Approved: Guaranteeprof. PhDr. Oľga Orosová, CSc. Guaranteeprof. RNDr. Jozef Doboš, CSc. Guaranteedoc. RNDr. Katarína Kimáková, CSc.					

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Science	
Course ID: ÚMV/ VPPb/15	Course name: Scheduled practice teaching
Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: Per study period: 36s Course method: present	
Number of credits: 1	
Recommended semester/trimester of the course: 2.	
Course level: II.	
Prerequisites: KPE/MPPa/15 and KPE/PDU/15 and (KPPaPZ/PaSPP/09 or KPPaPZ/PPgU/15)	
Conditions for course completion:	
Learning outcomes: Enable students to gain first practical experience in teaching mathematics to apply theoretical knowledge in specific teaching situations, to develop their teaching skills. To acquaint students with the atmosphere and the organization of school.	
Brief outline of the course:	
Recommended literature:	
Course language: Slovak	
Course assessment Total number of assessed students: 112	
abs	n
100.0	0.0
Provides: doc. RNDr. Dušan Šveda, CSc., RNDr. Ingrid Semanišinová, PhD.	
Date of last modification: 22.02.2017	
Approved: Guaranteeprof. PhD. Oľga Orosová, CSc. Guaranteeprof. RNDr. Jozef Doboš, CSc. Guaranteedoc. RNDr. Katarína Kimáková, CSc.	

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice					
Faculty: Faculty of Science					
Course ID: KPPaPZ/VPU/17		Course name: Vývinová psychológia pre učiteľov			
Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: present					
Number of credits: 2					
Recommended semester/trimester of the course: 1.					
Course level: II.					
Prerequisites:					
Conditions for course completion:					
Learning outcomes:					
Brief outline of the course:					
Recommended literature:					
Course language:					
Course assessment Total number of assessed students: 13					
A	B	C	D	E	FX
38.46	46.15	15.38	0.0	0.0	0.0
Provides: Mgr. Mária Bačíková, PhD.					
Date of last modification: 25.05.2017					
Approved: Guaranteeprof. PhDr. Oľga Orosová, CSc. Guaranteeprof. RNDr. Jozef Doboš, CSc. Guaranteedoc. RNDr. Katarína Kimáková, CSc.					

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice					
Faculty: Faculty of Science					
Course ID: KSSFaK/VSJU/15		Course name: Slovak Language for Teachers			
Course type, scope and the method: Course type: Lecture Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: present					
Number of credits: 2					
Recommended semester/trimester of the course: 1., 3.					
Course level: II.					
Prerequisites:					
Conditions for course completion:					
Learning outcomes:					
Brief outline of the course:					
Recommended literature:					
Course language:					
Course assessment Total number of assessed students: 40					
A	B	C	D	E	FX
12.5	32.5	27.5	20.0	7.5	0.0
Provides: PhDr. Iveta Bónová, PhD., Mgr. Lucia Jasinská, PhD., Mgr. Lena Ivančová, PhD.					
Date of last modification: 18.02.2017					
Approved: Guaranteeprof. PhDr. Oľga Orosová, CSc. Guaranteeprof. RNDr. Jozef Doboš, CSc. Guaranteedoc. RNDr. Katarína Kimáková, CSc.					

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Science	
Course ID: ÚMV/ VSPc/15	Course name: Continuous practice teaching I
Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: Per study period: 4t Course method: present	
Number of credits: 2	
Recommended semester/trimester of the course: 3.	
Course level: II.	
Prerequisites: ÚMV/VPPb/15	
Conditions for course completion:	
Learning outcomes: Enable students to gain first practical experience in teaching mathematics to apply theoretical knowledge in specific teaching situations, to develop their teaching skills. To acquaint students with the atmosphere and the organization of school.	
Brief outline of the course:	
Recommended literature:	
Course language: Slovak	
Course assessment Total number of assessed students: 127	
abs	n
100.0	0.0
Provides: doc. RNDr. Dušan Šveda, CSc., RNDr. Ingrid Semanišínová, PhD.	
Date of last modification: 22.02.2017	
Approved: Guaranteeprof. PhDr. Oľga Orosová, CSc. Guaranteeprof. RNDr. Jozef Doboš, CSc. Guaranteedoc. RNDr. Katarína Kimáková, CSc.	

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Science	
Course ID: ÚMV/VSPd/15	Course name: Continuous practice teaching II
Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: Per study period: 6t Course method: present	
Number of credits: 2	
Recommended semester/trimester of the course: 4.	
Course level: II.	
Prerequisites: ÚMV/VSPc/15	
Conditions for course completion:	
Learning outcomes: Enable students to gain first practical experience in teaching mathematics to apply theoretical knowledge in specific teaching situations, to develop their teaching skills. To acquaint students with the atmosphere and the organization of school.	
Brief outline of the course:	
Recommended literature:	
Course language: Slovak	
Course assessment Total number of assessed students: 116	
abs	n
100.0	0.0
Provides: doc. RNDr. Dušan Šveda, CSc., RNDr. Ingrid Semanišinová, PhD.	
Date of last modification: 22.02.2017	
Approved: Guaranteeprof. PhDr. Oľga Orosová, CSc. Guaranteeprof. RNDr. Jozef Doboš, CSc. Guaranteedoc. RNDr. Katarína Kimáková, CSc.	

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice					
Faculty: Faculty of Science					
Course ID: KPPaPZ/ZMPPV/15		Course name: The Fundamentals of Pedagogico-Psychological Research Methodology			
Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per week: 2 / 2 Per study period: 28 / 28 Course method: present					
Number of credits: 4					
Recommended semester/trimester of the course: 2.					
Course level: II.					
Prerequisites: KPPaPZ/PPgU/15 and KPE/PDU/15					
Conditions for course completion:					
Learning outcomes:					
Brief outline of the course:					
Recommended literature:					
Course language:					
Course assessment Total number of assessed students: 297					
A	B	C	D	E	FX
14.48	24.58	24.92	21.89	13.8	0.34
Provides: Mgr. Mária Bačíková, PhD., PhDr. Anna Janovská, PhD.					
Date of last modification: 16.02.2017					
Approved: Guaranteeprof. PhDr. Oľga Orosová, CSc. Guaranteeprof. RNDr. Jozef Doboš, CSc. Guaranteedoc. RNDr. Katarína Kimáková, CSc.					

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice					
Faculty: Faculty of Science					
Course ID: ÚBEV/ ZOG1/03		Course name: Zoogeography			
Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per week: 2 / 2 Per study period: 28 / 28 Course method: present					
Number of credits: 6					
Recommended semester/trimester of the course: 1., 3.					
Course level: I., II.					
Prerequisites:					
Conditions for course completion: Active participation in seminars. Preparation of oral presentation to selected topic. Semestral written test. Oral examination.					
Learning outcomes: The main goal of the subject is to get knowledge on the basic reasons of recent distribution of the animals on the Earth, zoogeographic regionalization of the Earth's surface and human influence on the faunal distribution in the history.					
Brief outline of the course: This course will review our current understanding of the patterns of animal distribution and the processes that influence distributions of species and their attributes. Zoogeography will integrate information on the historical and current ecology, genetics, and physiology of animals and their interaction with environmental processes (continental drift, climate) in regulating geographic distributions. The course will emphasize descriptive and analytical approaches useful in hypothesis testing in zoogeography and will illustrate applied aspects of zoogeography (e.g. refuge design in conservation).					
Recommended literature: Buchar, J., 1983: Zoogeografie. SPN Praha Darlington, P.J., 1998: Zoogeography: The geographical distribution of animals. Krieger, USA Lomolino M.V., Brown J.H., Riddle B. R., 2005: Biogeography. Sinauer Associates, 1-845 Plesník, P., Zatkalík, F., 1996: Biogeografia. Vysokoškolské skriptá, PríFUK Bratislava					
Course language:					
Course assessment Total number of assessed students: 845					
A	B	C	D	E	FX
23.2	23.55	24.85	18.22	8.17	2.01
Provides: doc. RNDr. Ľubomír Kováč, CSc.					

Date of last modification: 24.02.2017
Approved: Guaranteeprof. PhDr. Oľga Orosová, CSc. Guaranteeprof. RNDr. Jozef Doboš, CSc. Guaranteedoc. RNDr. Katarína Kimáková, CSc.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice					
Faculty: Faculty of Science					
Course ID: KPE/ ZSP/15		Course name: Essentials of Special Education			
Course type, scope and the method: Course type: Lecture Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: present					
Number of credits: 2					
Recommended semester/trimester of the course: 3.					
Course level: II.					
Prerequisites:					
Conditions for course completion:					
Learning outcomes:					
Brief outline of the course:					
Recommended literature:					
Course language:					
Course assessment Total number of assessed students: 194					
A	B	C	D	E	FX
35.05	36.08	18.56	8.25	2.06	0.0
Provides: Mgr. Lucia Diheneščíková, PhD.					
Date of last modification: 07.02.2017					
Approved: Guaranteeprof. PhDr. Oľga Orosová, CSc. Guaranteeprof. RNDr. Jozef Doboš, CSc. Guaranteedoc. RNDr. Katarína Kimáková, CSc.					

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice					
Faculty: Faculty of Science					
Course ID: KPE/ ZZP/12		Course name: Experiential Education			
Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per week: 1 / 2 Per study period: 14 / 28 Course method: present					
Number of credits: 4					
Recommended semester/trimester of the course: 1., 3.					
Course level: II.					
Prerequisites:					
Conditions for course completion:					
Learning outcomes:					
Brief outline of the course:					
Recommended literature:					
Course language:					
Course assessment Total number of assessed students: 143					
A	B	C	D	E	FX
36.36	44.76	16.08	2.8	0.0	0.0
Provides: PaedDr. Renáta Orosová, PhD., prof. Volodymyr Starosta, DrSc.					
Date of last modification: 07.02.2017					
Approved: Guaranteeprof. PhDr. Oľga Orosová, CSc. Guaranteeprof. RNDr. Jozef Doboš, CSc. Guaranteedoc. RNDr. Katarína Kimáková, CSc.					

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Science	
Course ID: ÚTVŠ/ ÚTVŠ/CM/13	Course name: Seaside Aerobic Exercise
Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: Per study period: 36s Course method: present	
Number of credits: 2	
Recommended semester/trimester of the course:	
Course level: I., II.	
Prerequisites:	
Conditions for course completion:	
Learning outcomes:	
Brief outline of the course:	
Recommended literature:	
Course language:	
Course assessment Total number of assessed students: 15	
abs	n
26.67	73.33
Provides: Mgr. Alena Buková, PhD., Mgr. Agata Horbacz, PhD.	
Date of last modification: 23.02.2017	
Approved: Guaranteeprof. PhDr. Oľga Orosová, CSc. Guaranteeprof. RNDr. Jozef Doboš, CSc. Guaranteedoc. RNDr. Katarína Kimáková, CSc.	

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Science	
Course ID: KSSFaK/ ČGUAP/15	Course name: Reading Literacy in Educational Process
Course type, scope and the method: Course type: Lecture Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: present	
Number of credits: 2	
Recommended semester/trimester of the course: 2.	
Course level: II.	
Prerequisites:	
Conditions for course completion:	
Learning outcomes:	
Brief outline of the course:	
Recommended literature:	
Course language:	
Course assessment Total number of assessed students: 18	
abs	n
100.0	0.0
Provides: doc. PaedDr. Ivica Hajdučková, PhD.	
Date of last modification: 18.02.2017	
Approved: Guaranteeprof. PhDr. Oľga Orosová, CSc. Guaranteeprof. RNDr. Jozef Doboš, CSc. Guaranteedoc. RNDr. Katarína Kimáková, CSc.	