University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚBEV/

Course name: Activating forms of biology teaching

AFV/15

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.

Prerequisities: 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.: Demonštračné 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	В	С	D	Е	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. RNDr. Peter Kollár, DrSc. Guaranteeprof. PhDr. Ol'ga Orosová,

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚFV/ Co

Course name: Astrophysics

ASFU/15

Course type, scope and the method:

Course type: Lecture

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

Course method: present

Number of credits: 3

Recommended semester/trimester of the course: 3.

Course level: II.

Prerequisities:

Conditions for course completion:

Test within the curriculum presented during the course; seminar essay.

Oral exam with preparation; 3 questions within the curriculum presented during the course.

Learning outcomes:

Become acquainted with basic knowledge about the structure and evolution of the universe.

Brief outline of the course:

The stars, their basic properties, structure and evolution. Structure and distribution of matter in the universe. Cosmological theories, formation, evolution and future of the universe.

Recommended literature:

- 1. Carroll, B. W., Ostlie, D. A., An Introduction to Modern Astrophysics, Addison-Wesley Publishing Company, Reading, Massachusetts, 1996;
- 2. Contopoulos, D. Kotsakis, Cosmology, the structure and evolution of the Universe, Springer, 1984;
- 3. Narlikar, J.V., An Introduction to Cosmology, Cambridge University Press, Cambridge, 2002;
- 4. Pasachoff, J.M., Filippenko, A., The Cosmos: Astronomy in the New Millennium, Cambridge University Press, 2013;

Course language:

Slovak, English

Course assessment

Total number of assessed students: 4

A	В	С	D	Е	FX
100.0	0.0	0.0	0.0	0.0	0.0

Provides: doc. RNDr. Rudolf Gális, PhD.

Date of last modification: 21.02.2017

Approved: Guaranteeprof. RNDr. Peter Kollár, DrSc.Guaranteeprof. PhDr. Ol'ga Orosová,

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚBEV/

Course name: Biology and Didactics of Biology

BDB/14

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.

Prerequisities: 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	В	С	D	Е	FX
21.93	31.58	27.19	14.04	5.26	0.0

Provides:

Date of last modification: 24.02.2017

Approved: Guaranteeprof. RNDr. Peter Kollár, DrSc. Guaranteeprof. PhDr. Ol'ga Orosová,

COURSE INFORMATION LETTER University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: ÚBEV/ Course name: Biology and Didactics of Biology **BDB/15** 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. Prerequisities: 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 В \mathbf{C} Е FX Α D

Provides:

37.04

Date of last modification: 24.02.2017

Approved: Guaranteeprof. RNDr. Peter Kollár, DrSc. Guaranteeprof. PhDr. Ol'ga Orosová,

3.7

0.0

0.0

18.52

CSc.Guaranteedoc. RNDr. Katarína Kimáková, CSc.

40.74

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚFV/ Cours

DEJ1/99

Course name: History of Physics

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: I., II.

Prerequisities:

Conditions for course completion:

written test and thesis

exam

Learning outcomes:

Basic facts in the history of physics.

Brief outline of the course:

Evolution of knowledge before Galileo. Evolution of physics within the mechanical picture of the world. Evolution and limits of classical physics, phase of breakthrough in physics. Origin and evolution of the theory of relativity. Quantum physics and prospects of further evolution of physics and their application. Contemporary state of physical research and its application in technology, natural sciences and philosophy. Position of physics in our society.

Recommended literature:

- 1. R.Zajac, J.Chrapan: Dejiny fyziky, skriptá, MFF UK, Bratislava, 1982.
- 2. V.Malíšek: Co víte o dějinách fyziky, Horizont, Praha, 1986.
- 3. I.Kraus, Fyzika v kulturních dějinách Evropy, Starověk a středověk, Nakladatelství ČVUT, Praha, 2006.
- 4. A.I.Abramov: Istoria jadernoj fiziky, KomKniga, Moskva, 2006.
- 5. L.I.Ponomarev: Pod znakom kvanta, Fizmatlit, Moskva, 2006.
- 6. I.Kraus, Fyzika v kulturních dějinách Evropy, Od Leonarda ke Goethovi, Nakladatelství ČVUT, Praha, 2007.
- 7. I.Kraus, Fyzika od Thaléta k Newtonovi, Academia, Praha, 2007.
- 8. I.Štoll, Dějiny fyziky, Prometheus, Praha, 2009.
- 9. www-pages.
- 10.Brandt S., The harvest of a century, Discoveries of modern physics in 100 episodes, Oxford, 2009.

Course language:

Course assessment

Total number of assessed students: 22

A	В	С	D	Е	FX
81.82	9.09	9.09	0.0	0.0	0.0

Provides: prof. RNDr. Stanislav Vokál, DrSc.

Date of last modification: 20.02.2017

Approved: Guaranteeprof. RNDr. Peter Kollár, DrSc.Guaranteeprof. PhDr. Ol'ga Orosová,

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚFV/

Course name: Selected Demonstration Experiments

DEX/15

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.

Prerequisities:

Conditions for course completion:

Seminar work – a project dealing with hands-on experiments and their role in Physics teachig. Oral examination

Learning outcomes:

The goal of the course is to develop pedagogic skills and creativity of further Physics teachers through non-traditional physical experiments.

Brief outline of the course:

The aim of the lecture is to show a lot of non-traditional physical experiments which can help students understand physical phenomena and find their connection with everyday life. The experiments are mainly hands-on ones which can be performed with simple tools and don't require any special equipment. The experiments are carried out by students themselves. Through these experiments students are able to gain practical skills, develop experimental habits and verify their theoretical knowledge.

Recommended literature:

- 1. Onderová Ľ.:Netradičné experimenty vo vyučovaní fyziky, MC Prešov,2002
- 2. Lorbeer, G.L., Nelsonová, L.W.: Fyzikální pokusy pro děti, Portál, Praha, 1998
- 3. Kostič, Ž.: Medzi hrou a fyzikou, Alfa, Bratislava, 1971
- 4. Kireš, M., Onderová, Ľ.: Fyzika každodenného života v experimentoch a úlohách, JSMF Bratislava 2001, ISBN 80-7097-446-X
- 5. http://physedu.science.upjs.sk/sis/fyzika/experimenty/index.htm

Course language:

Slovak

Course assessment

Total number of assessed students: 2

A	В	C	D	Е	FX
100.0	0.0	0.0	0.0	0.0	0.0

Provides: PaedDr. Iveta Štefančínová, Ph.D.

Date of last modification: 23.02.2017

Approved: Guaranteeprof. RNDr. Peter Kollár, DrSc.Guaranteeprof. PhDr. Ol'ga Orosová, CSc.Guaranteedoc. RNDr. Katarína Kimáková, CSc.

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚFV/ **Course name:** Didactics of Physics I

DF1a/15

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.

Prerequisities:

Conditions for course completion:

teaching plan for two lessons 10p micro teaching activities 20p educational project 20p answering questions during the course 10p end-of course oral examination 40p

Learning outcomes:

Knowledge and skills in the field of Physics education, overview about the problems of Physics education, basic skills necessary to prepare and quide educational activities, school experiments, problem solving and to use modern media for physics education.

Brief outline of the course:

Within the Didactics of Physics subject the core problems of physics education are introduced and case studies of their solving are interpreted. Strategies on design and implementation of educational activities, their evaluation and the use of modern media are introduced and corresponding skills are trained.

Recommended literature:

- 1.J. Janovič a kol.: Didaktika fyziky, MFF UK Bratislava, 1990
- 2.J. Janovič a kol.: Vybrané kapitoly didaktiky fyziky, MFF UK Bratislava, 1999
- 3.E. Kašpar a kol.: Didaktika fyziky, SPN Praha, 1978
- 4.E. Mechlová: Didaktika fyziky 1, 2, PdF Ostrava, 1989
- 5.J. Fenclová: Úvod do teórie a metodológie didaktiky fyziky, SPN Praha, 1982

Primary school textbooks for Physics

actuall didactic publications

Course language:

Slovak, English

Course assessment

Total number of assessed students: 9

A	В	С	D	Е	FX
55.56	44.44	0.0	0.0	0.0	0.0

Provides: doc. RNDr. Marián Kireš, PhD., PaedDr. Iveta Štefančínová, Ph.D.

Date of last modification: 23.02.2017

Approved: Guaranteeprof. RNDr. Peter Kollár, DrSc.Guaranteeprof. PhDr. Ol'ga Orosová,

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚFV/ | Course name: Didactics of Physics II

DF1b/15

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.

Prerequisities: ÚFV/DF1a/15

Conditions for course completion:

teaching plan for two lessons 10p micro teaching activities 20p educational project 20p answering questions during the course 10p end-of course oral examination 40p

Learning outcomes:

knowledge and skills in the field of Physics education, overview about the problems of Physics education, basic skills necessary to prepare and quide educational activities, school experiments, problem solving and to use modern media for physics education

Brief outline of the course:

- 1. Didactic methods, forms and tools in physics education
- 2. Graphs in education
- 3. Control, evaluation and assessment of students results,
- 4. Tests
- 5. Everyday physics and its application in education
- 6. Computer based measurements:
- 7. Using of Internet and multimedia in education
- 8. IBSE
- 9. Informal activities to support physics education
- 10. Life long learning, science teacher training
- 11. 12. Semestral project presentation

Recommended literature:

- 1.J. Janovič a kol.: Didaktika fyziky, MFF UK Bratislava, 1990
- 2.J. Janovič a kol.: Vybrané kapitoly didaktiky fyziky, MFF UK Bratislava, 1999
- 3.E. Kašpar a kol.: Didaktika fyziky, SPN Praha, 1978
- 4.E. Mechlová: Didaktika fyziky 1, 2, PdF Ostrava, 1989
- 5.J. Fenclová: Úvod do teórie a metodológie didaktiky fyziky, SPN Praha, 1982
- 6. Vachek, J. a kol.: Fyzika pre 1. ročník gymnázia. SPN, Bratislava, 1984.
- 7. Svoboda, E. a kol. Fyzika pre 2. ročník gymnázia. SPN, Bratislava, 1985.
- 8. Lepil, O. a kol.: Fyzika pre 3. ročník gymnázia. SPN, Bratislava, 1986.

- 9. Pišút, J. a kol.: Fyzika pre 4. ročník gymnázia. SPN, Bratislava, 1987.
- 10. Scholtz, E., Kireš, M.: Fyzika Kinematika pre osemročné gymnáziá, SPN, Bratislava, 2001, 104 strán, ISBN 80-08-02848-3
- 11.Blaško, M., Gajdušek, J., Kireš, M., Onderová, Ľ.: Molekulová fyzika a termodynamika pre osemročné gymnáziá, SPN, Bratislava, 2004, 120 strán, ISBN 80-10-00008-6
- 12. Scholtz, E., Kireš, M.: Fyzika Dynamika pre osemročné gymnáziá, SPN, Bratislava, 2007, 231 strán, ISBN 80-10-00013-2

School textbooks for Physics education at upper secondary level

Course language:

Slovak, English

Course assessment

Total number of assessed students: 5

A	В	С	D	Е	FX
100.0	0.0	0.0	0.0	0.0	0.0

Provides: doc. RNDr. Marián Kireš, PhD., PaedDr. Iveta Štefančínová, Ph.D.

Date of last modification: 23.02.2017

Approved: Guaranteeprof. RNDr. Peter Kollár, DrSc.Guaranteeprof. PhDr. Ol'ga Orosová,

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: ÚBEV/ Course name: Geology and nature protection education **DGO/17** 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. Prerequisities: 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	В	С	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. RNDr. Peter Kollár, DrSc. Guaranteeprof. PhDr. Ol'ga Orosová,

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚBEV/ | Course name: Didactics of biology

DIB1/03

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: IL

Prerequisities: 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 učit 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 aktivizačných 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 pre 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	В	С	D	Е	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. RNDr. Peter Kollár, DrSc.Guaranteeprof. PhDr. Ol'ga Orosová,

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: ÚBEV/ Course name: Diploma Thesis and its Defence DPOU/14 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. Prerequisities: 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 В C D Е FX Α

Provides:

47.46

Date of last modification: 24.02.2017

Approved: Guaranteeprof. RNDr. Peter Kollár, DrSc. Guaranteeprof. PhDr. Ol'ga Orosová,

1.69

1.69

1.69

11.86

CSc.Guaranteedoc. RNDr. Katarína Kimáková, CSc.

35.59

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚFV/

Course name: Diploma Thesis and its Defence

DPOU/14

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.

Prerequisities:

Conditions for course completion:

Preparation and submission of diploma thesis in printed and electronic form.

Presentation of diploma thesis results and its defence in front of examination board.

Learning outcomes:

Knowledge and skills connected with selected problem analysis and presentation of diploma thesis results in front of experts.

Brief outline of the course:

Preparation and submission of diploma thesis to central registration system.

Printed version for reviewing.

Presentation of diploma thesis results and answers to the questions of reviewrs.

Discussion on the content of diploma thesis and answers to the questions of examination board members.

Recommended literature:

Course language:

Course assessment

Total number of assessed students: 15

A	В	С	D	Е	FX
73.33	13.33	13.33	0.0	0.0	0.0

Provides:

Date of last modification: 23.02.2017

Approved: Guaranteeprof. RNDr. Peter Kollár, DrSc.Guaranteeprof. PhDr. Ol'ga Orosová,

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: ÚFV/ Course name: Diploma Project I **DPP1/14** 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. **Prerequisities: Conditions for course completion:** regular consultations with diploma thesis supervisor about the progress of diploma project development, design of investigation plan Learning outcomes: Student has studied the theoretical background, formulates research questions, has designed investigation plan, has presented first results, eventually. **Brief outline of the course:** Development of diploma project **Recommended literature:** Recommended literature that is included in the diploma thesis assignments Regulations for diploma thesis preparation template for diploma thesis Course language: Slovak Course assessment Total number of assessed students: 10 abs n 100 0 0.0**Provides:**

Approved: Guaranteeprof. RNDr. Peter Kollár, DrSc.Guaranteeprof. PhDr. Ol'ga Orosová,

Date of last modification: 24.02.2017

University: P. J. Šafá	rik University in Košice	· · · · · · · · · · · · · · · · · · ·			
Faculty: Faculty of S	cience				
Course ID: ÚBEV/ DPP1/14					
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	rse-load (hours): y period:				
Number of credits: 1					
Recommended seme	ster/trimester of the course	: 1.			
Course level: II.					
Prerequisities:					
Conditions for cours	e completion:				
Learning outcomes:					
Brief outline of the c	ourse:				
Recommended litera	iture:				
Course language:					
Course assessment Total number of asses	ssed students: 68				
	abs n				
100.0 0.0					
Provides:					
Date of last modifica	tion: 24.02.2017				
	eprof. RNDr. Peter Kollár, D NDr. Katarína Kimáková, C	rSc.Guaranteeprof. PhDr. Ol'ga Orosová, Sc.			

II DIĞC	11 TT : ', ' TZ V'				
University: P. J. Safa	rik University in Košice				
Faculty: Faculty of S	cience				
Course ID: ÚBEV/ DPP2/14					
Course type, scope a	nd the method:				
Course type: Recommended cou	rse-load (hours):				
Per week: Per stud					
Course method: pre	· -				
Number of credits: 2					
Recommended seme	ster/trimester of the cou	rse: 2.			
Course level: II.					
Prerequisities: ÚBE	V/DPP1/14				
Conditions for cours	e completion:				
Learning outcomes:					
Brief outline of the c	ourse:				
Recommended litera	iture:				
Course language:					
Course assessment Total number of asse	ssed students: 67				
	abs	n			
100.0 0.0					
Provides:					
Date of last modifica	tion: 24.02.2017				
	eprof. RNDr. Peter Kollár NDr. Katarína Kimáková,	, DrSc.Guaranteeprof. PhDr. Ol'ga Orosová, CSc.			

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: ÚFV/ Course name: Diploma Project II DPP2/14 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. **Prerequisities: Conditions for course completion:** regular consultaions with diploma thesis supervisor about the progress of diploma project development and about the investigation regular consultations study of available resources connected with the diploma thesis assignments first results **Learning outcomes:** Student understands the methods of investigation and he gains first results. **Brief outline of the course:** Work on the diploma project with regard to the assignemnts of the diploma thesis **Recommended literature:** Recommended literature that is included in the diploma thesis assignments Regulations for diploma thesis preparation template for diploma thesis Course language: Slovak Course assessment Total number of assessed students: 10 abs n 100.0 0.0 **Provides:**

Approved: Guaranteeprof. RNDr. Peter Kollár, DrSc. Guaranteeprof. PhDr. Ol'ga Orosová,

Date of last modification: 24.02.2017

University: P. J. Šafá	rik University in Košice						
Faculty: Faculty of S	cience						
Course ID: ÚBEV/ DPP3/14							
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pre	rse-load (hours): ly period:						
Number of credits: 2							
Recommended seme	ster/trimester of the cour	se: 3.					
Course level: II.							
Prerequisities: ÚBE	V/DPP2/14 or ÚBEV/DP2b	/03					
Conditions for cours	e completion:						
Learning outcomes:							
Brief outline of the c	ourse:						
Recommended litera	iture:						
Course language:							
Course assessment Total number of asse	ssed students: 60						
	abs n						
100.0 0.0							
Provides:							
Date of last modifica	tion: 24.02.2017						
	eprof. RNDr. Peter Kollár, NDr. Katarína Kimáková, (OrSc.Guaranteeprof. PhDr. Ol'ga Orosová, CSc.					

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: ÚFV/ Course name: Diploma Project III DPP3/14 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: IL **Prerequisities: Conditions for course completion:** regular consultations with diploma thesis supervisor about the progress of diploma project development and about the project results **Learning outcomes:** Student has enough knowledge to prepare a theoretical part of the diploma thesis and for practical part based on the problem analysis and drawing conclusions. **Brief outline of the course:** Work on the project with regard to the diploma thesis assignments **Recommended literature:** Recommended literature that is included in the diploma thesis assignments Regulations for diploma thesis preparation template for diploma thesis Course language: Slovak Course assessment Total number of assessed students: 15 abs n

Approved: Guaranteeprof. RNDr. Peter Kollár, DrSc.Guaranteeprof. PhDr. Ol'ga Orosová,

0.0

100 0

CSc.Guaranteedoc. RNDr. Katarína Kimáková, CSc.

Date of last modification: 24.02.2017

Provides:

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚBEV/ | Course name: Ethology

ETO1/03

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.

Prerequisities:

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. Einfuhrung 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	В	С	D	Е	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. RNDr. Peter Kollár, DrSc.Guaranteeprof. PhDr. Ol'ga Orosová,

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚFV/ | Course name: School Computer-Based Physical Laboratory

FEP1/15

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: 3.

Course level: II.

Prerequisities:

Conditions for course completion:

The final assessment is based on the sum of partial results

Test 30 points

active participation 10 points

project (development of mathematical model, videomeasurement and physical experiment) 60 points

Learning outcomes:

After the course student gains an overview about the possible use of digital technologies to support active learning in physics. He gains skills to use and develop activities on measuring data with the help of datalogging, measuring on videorecordings and picture and modeling physical processes. Student is able to implement such activities in physics 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, measurement from the picture and modeling tools. Mathematical modeling is based on dynamical modeling of physical phenomena. Within the course students carry out computer-based experiments, videomeasurements and measurement on the picture and create corresponding models. The activities involve selected topics of secondary school physics. 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: 7

A	В	С	D	Е	FX
100.0	0.0	0.0	0.0	0.0	0.0

Provides: doc. RNDr. Zuzana Ješková, PhD.

Date of last modification: 23.02.2017

Approved: Guaranteeprof. RNDr. Peter Kollár, DrSc.Guaranteeprof. PhDr. Ol'ga Orosová,

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚFV/ | Course name: Microcomputer Based Science Laboratory

FEP1/07

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.

Prerequisities:

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	В	С	D	Е	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. RNDr. Peter Kollár, DrSc.Guaranteeprof. PhDr. Ol'ga Orosová,

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚBEV/ Co

Course name: Phytogeography

FG1/03

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.

Prerequisities:

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.: Fytogeografie. - 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	В	C	D	Е	FX
39.81	21.91	21.3	8.33	7.72	0.93

Provides: prof. RNDr. Pavol Mártonfi, PhD., Mgr. Vladislav Kolarčik, PhD.

Date of last modification: 24.02.2017

Approved: Guaranteeprof. RNDr. Peter Kollár, DrSc.Guaranteeprof. PhDr. Ol'ga Orosová,

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚFV/ Cou

Course name: Solid State Physics

FKS/15

Course type, scope and the method:

Course type: Lecture

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

Course method: present

Number of credits: 3

Recommended semester/trimester of the course: 1.

Course level: II.

Prerequisities:

Conditions for course completion:

oral examination

Learning outcomes:

A general introductory course in solid state physics and material science.

Brief outline of the course:

Crystal structures and methods of structure analysis. Defects in crystalline solids. Chemical bonding in solids. Thermal properties of crystal lattice. "Free" electrons in metals. The electronic band structure of solids. Transport phenomena in metals and semiconductors. Superconductivity and superfluidity. Magnetic properties of solids. New problems of condensed matter physics.

Recommended literature:

H. Ibach, H. Lüth: Solid-State Physics. Springer - Verlag, Berlin, 1993.

Ch. Kittel: Introduction to Solid State Physics. John Wiley & Sons, Inc. 1976.

Course language:

Course assessment

Total number of assessed students: 6

A	В	С	D	Е	FX
50.0	33.33	16.67	0.0	0.0	0.0

Provides: Dr.h.c. prof. RNDr. Alexander Feher, DrSc., prof. RNDr. Peter Kollár, DrSc., prof. Ing. Martin Orendáč, CSc.

Date of last modification: 24.02.2017

Approved: Guaranteeprof. RNDr. Peter Kollár, DrSc.Guaranteeprof. PhDr. Ol'ga Orosová,

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

| Course ID: ÚFV/ | Course nam

FPK1/15

Course name: Phase Transitions and Critical Phenomena

Course type, scope and the method:

Course type: Lecture

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

Course method: present

Number of credits: 3

Recommended semester/trimester of the course: 2.

Course level: II.

Prerequisities:

Conditions for course completion:

Grade

Learning outcomes:

To acquaint students with based problems of the phase transitions and critical phenomena.

Brief outline of the course:

Thermodynamics of phase transitions. Classification of phase transitions. Critical phenomena, universality. Microscopic models of the magnetic phase transitions. Ising model in one and two dimensions. Mean field theory of the Ising model. Landau theory of phase transitions.

Recommended literature:

- 1. Stanley H.G.: Introduction to Phase Transitions and Critical Phenomena, Clarendon Press Oxford, Oxford, 1971.
- 2. Reichl L.E.: A Modern Course in Statistical Physics, University of Texas Press, Austin, 1980.
- 3. Plischke M., Bergersen B.: Equilibrium Statistical Physics, World Scientific, Singapore, 1994.
- 4. Kadanoff L.P.: Statistical Physics, Statistics, Dynamics and Renormalization, World Scientific, Singapore, 2000.

Course language:

Slovak

Course assessment

Total number of assessed students: 44

A	В	С	D	Е	FX
72.73	9.09	4.55	6.82	6.82	0.0

Provides: prof. RNDr. Andrej Bobák, DrSc.

Date of last modification: 21.02.2017

Approved: Guaranteeprof. RNDr. Peter Kollár, DrSc.Guaranteeprof. PhDr. Ol'ga Orosová,

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚFV/ Course name: P

FYU1/15

Course name: Physical Problems

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: 1.

Course level: II.

Prerequisities:

Conditions for course completion:

On- line set of problems for self solving is avialable for students. One task is define for each seminar for testing of student preparation. Production and presentation of three own problems is necessary.

problem solving 40 p

obtained problem 10 p

own problems 10 p

oral examination 40 p

Final:

A 100-90 B 89-80 C 79-70 D 69-60 E 59-50 F 49-0

Learning outcomes:

Students will be ready for using of problem solving strategies at lower and upper secondary school levels. Clasical problems are studied in more details from different pont of view (students knowledge anmd skills, technologies, motivation, computer modelling and measuremets).

Brief outline of the course:

Methods of problem solving are presented and trained. The sets of typical problems are analysed. Uding of modelling and real experiments is discussed.

Recommended literature:

- 1.Baláž, P.: Zbierka úloh z fyziky, SPN Bratislava, 1971
- 2.Bartuška,K: Postup při řešení fyzikálních úloh, Sbírka řešených úloh z fyziky pro střední školy
- I, Praha, Prometheus, 1997, s. 5-10.
- 3. Halpern, A.: 3000 solved problems in Physics, McGraw-Hill, Inc., USA, 1988
- 4. Janovič, J., Koubek, V. Pecen, I.: Vybrané kapitoly z didaktiky fyziky. Bratislava, UK, 1999,
- 5. Jurčová, M., Dohňanská, J., Pišút, J., Velmovská, K.: Didaktika fyziky rozvíjanie tvorivosti žiakov a študentov. Bratislava, UK, 2001,
- 6.Kružík, M.: Sbírka úloh z fyziky pro žáky strědních škol, SPN, Praha, 1984
- 7. Lindner, H.: Riešené úlohy z fyziky, Alfa, Bratislava, 1973
- 8.Linhart, J. (1976): In: Volf, I.: Metodika řešení úloh ve výuce fyziky na základní škole. Hradec Králové, MAFY, 1998,
- 9. Pietrasiński, Z. (1964): In: Volf, I.: Metodika řešení úloh ve výuce fyziky na základní škole. Hradec Králové, MAFY, 1998,

- 10. Scholtz, E., Kireš, M.: Fyzika kinematika pre gymnázia s osemročným štúdiom. Bratislava, SPN, 2001,
- 11. Šedivý, P., Volf, I.: Dopravní kinematika a grafy. Hradec Králové, MAFY, 1998.
- 12. Volf, I. (1975): In: Bednařík, M., Lepil, O.: Netradiční typy fyzikálních úloh. Praha, PROMETHEUS, 1995,
- 13. Volf,I.: Jak řešit úlohy fyzikální olympiády, XXIII. Ročník soutěze fyzikální olympiády ve školním roce 1981/82, Praha, SPN, 1981,
- 14. Volf,I.: Metodika řešení úloh ve výuce fyziky na základní škole. Hradec Králové, MAFY, 1998.
- 15. Halpern, A.: 3000 solved problems in Physics, McGraw-Hill, Inc., USA, 1988
- 16.http://kekule.science.upjs.sk/fyzika
- 17.http://physedu.science.upjs.sk

Course language:

Slovak, English

Course assessment

Total number of assessed students: 8

A	В	С	D	Е	FX
100.0	0.0	0.0	0.0	0.0	0.0

Provides: doc. RNDr. Marián Kireš, PhD., doc. RNDr. Zuzana Ješková, PhD.

Date of last modification: 23.02.2017

Approved: Guaranteeprof. RNDr. Peter Kollár, DrSc.Guaranteeprof. PhDr. Ol'ga Orosová, CSc.Guaranteedoc. RNDr. Katarína Kimáková, CSc.

COURSE INFORMATION LETTER University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: ÚGE/ Course name: Geology and petrography **GEB/12** 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. **Prerequisities: Conditions for course completion: Learning outcomes: Brief outline of the course: Recommended literature:** Course language: Course assessment Total number of assessed students: 824 В \mathbf{C} D Е FX Α

Provides: Ing. Katarína Bónová, PhD.

10.68

Date of last modification: 23.02.2017

Approved: Guaranteeprof. RNDr. Peter Kollár, DrSc. Guaranteeprof. PhDr. Ol'ga Orosová,

22.94

9.95

3.52

32.65

CSc.Guaranteedoc. RNDr. Katarína Kimáková, CSc.

20.27

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚBEV/ | Course name: Immunology

IMU1/03

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.

Prerequisities:

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): Jeneway'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	В	С	D	Е	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. RNDr. Peter Kollár, DrSc.Guaranteeprof. PhDr. Ol'ga Orosová,

University: P. J. Šafárik University in Košice Faculty: Faculty of Science **Course ID:** Course name: Culture of Spoken Discourse KSSFaK/ KJPUAP/15 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. **Prerequisities: Conditions for course completion: Learning outcomes: Brief outline of the course: Recommended literature:** Course language: **Course assessment** Total number of assessed students: 0 Α В \mathbf{C} D Е 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. RNDr. Peter Kollár, DrSc. Guaranteeprof. PhDr. Ol'ga Orosová,

University: P. J. Šafá	rik University in Košice	
Faculty: Faculty of S	cience	
Course ID: ÚTVŠ/ KP/12	Course name: Survival Co	Durse
Course type, scope a Course type: Practic Recommended cou Per week: Per stud Course method: pre	ce rse-load (hours): ly period: 36s	
Number of credits: 2	2	
Recommended seme	ster/trimester of the cours	e:
Course level: I., II.		
Prerequisities:		
Conditions for cours	se completion:	
Learning outcomes:		
Brief outline of the c	ourse:	
Recommended litera	nture:	
Course language:		
Course assessment Total number of asse	ssed students: 329	
	abs	n
	47.11	52.89
Provides: MUDr. Pet	er Dombrovský, Mgr. Mare	k Valanský
Date of last modifica	ation: 23.02.2017	
••	eprof. RNDr. Peter Kollár, I NDr. Katarína Kimáková, C	DrSc.Guaranteeprof. PhDr. Ol'ga Orosová,

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID:

Course name: Professional Ethics for Teachers and School Counsellors

KPPaPZ/KPE/

EPU/15

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.

Prerequisities:

Conditions for course completion:

Learning outcomes:

Brief outline of the course:

Recommended literature:

Course language:

Course assessment

Total number of assessed students: 217

A	В	С	D	Е	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. RNDr. Peter Kollár, DrSc. Guaranteeprof. PhDr. Ol'ga Orosová,

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of S	cience		
Course ID: ÚTVŠ/ LKSp/13	VŠ/ Course name: Summer Course-Rafting of TISA River		
Course type, scope a Course type: Practic Recommended courser week: Per stud Course method: pre	ce rse-load (hours): ly period: 36s		
Number of credits: 2	2		
Recommended seme	ster/trimester of the cours	e:	
Course level: I., II.			
Prerequisities:			
Conditions for cours	se completion:		
Learning outcomes:			
Brief outline of the c	ourse:		
Recommended litera	iture:		
Course language:			
Course assessment Total number of asse	ssed students: 126		
	abs	n	
	45.24	54.76	
Provides: Mgr. Peter	Bakalár, PhD.		
Date of last modifica	ation: 23.02.2017		
	eprof. RNDr. Peter Kollár, D NDr. Katarína Kimáková, C	rSc.Guaranteeprof. PhDr. Ol'ga Orosová, Sc.	

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚFV/ Course name: Modern Didactical Technics

MDT06/15

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.

Prerequisities:

Conditions for course completion:

All assignments must be uploaded and accepted be 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 actuall tools in science education,
- to design and realise educational activities by using modern technologies.

Brief outline of the course:

- 1. Didigital 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. actuall information from web sites related to didactical technologies,
- 3. catalogues of teaching tools,
- 3. actuall articles about modern trends in science education.

Course language:

Slovak, English

Course assessment

Total number of assessed students: 41

A	В	С	D	Е	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. RNDr. Peter Kollár, DrSc.Guaranteeprof. PhDr. Ol'ga Orosová,

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚFV/ Cou

Course name: Modern Physics from Didactics Point of View

MFDF/15

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: 1.

Course level: II.

Prerequisities:

Conditions for course completion:

Active participation; completing reading assignments; realization of a chosen modern physics project with a practical application.

Exam and defending own project

Learning outcomes:

- 1. Achieving better conceptual understanding and getting an integrated view on fundamental ideas of contemprorary modern physics, which every future physicist and physics teacher should have. Emphasis is not on abstract mathematical methods, but on using most recent knowledge and tools of Physics Education Research computer modeling of physical phenomena and employing only elementary algebra and calculus.
- 2. Getting physical intuition and experience dealing with practical applications of modern physics.

Brief outline of the course:

- 1. Fundamental ideas of modern mechanics: symmetry, event, worldline, spacetime diagram, principle of least action, conservation laws; practical applications.
- 2. Fundamental ideas of relativity: principle of relativity, space-time interval, conservation of momenergy, metrics, principle of maximal aging; practical applications.
- 3. Fundamental ideas of quantum mechanics: probability amplitude, principle of democracy of histories, rules for amplitudes, propagator, Schrödinger's equation, stationary state, Feynman's diagrams; practical applications.

Recommended literature:

- 1. Moore, T. A, Six Ideas That Shaped Physics Unit C and Q, 2nd ed., Mc Graw Hill, Boston, 2003
- 2. Feynman, R.P., QED The Strange theory of Light and Matter, Princeton University Press, Princeton, 1985
- 3. Hey, A., Walters, P., New Quantum Universe, Cambridge University Press, 2003
- 4. Taylor, E. F, Wheeler, J. A., Space-time Physics-Introduction to Special Relativity, 2nd ed., W.H. Freeman and Company, New York, 1992
- 5. Thorne, K. S., Black Holes and Time Warps, W.W. Norton, New York, 1995
- 6. Relevant resources from recent journal literature (American Journal of Physics, European Journal of Physics, Scientific American...)

Course language:

Slovak

Course assessment

Total number of assessed students: 3

A	В	С	D	Е	FX
33.33	33.33	33.33	0.0	0.0	0.0

Provides: doc. RNDr. Jozef Hanč, PhD.

Date of last modification: 23.02.2017

Approved: Guaranteeprof. RNDr. Peter Kollár, DrSc.Guaranteeprof. PhDr. Oľga Orosová,

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚBEV/ Co

Course name: Mikrobiológia a základy virológie

MKVU/15

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.

Prerequisities:

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	В	С	D	Е	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. RNDr. Peter Kollár, DrSc.Guaranteeprof. PhDr. Ol'ga Orosová, CSc.Guaranteedoc. RNDr. Katarína Kimáková, CSc.

University: P. J. Šafá	University: P. J. Šafárik University in Košice			
Faculty: Faculty of S	cience			
Course ID: KPE/ MPPa/15	Course name: Supervised Teaching Practice			
Course type, scope a Course type: Practic Recommended cour Per week: Per stud Course method: pre	ce rse-load (hours): ly period: 36s			
Number of credits: 2	2			
Recommended seme	ester/trimester of the cours	e: 1.		
Course level: II.				
Prerequisities:				
Conditions for cours	se completion:			
Learning outcomes:				
Brief outline of the c	course:			
Recommended litera	nture:			
Course language:				
Course assessment Total number of asse	ssed students: 613			
	abs	n		
	99.84 0.16			
Provides: doc. PhDr. Beata Gajdošová, PhD., PaedDr. Renáta Orosová, PhD., Mgr. Katarína Petríková, PhD.				
Date of last modifica	ntion: 07.02.2017			
	eprof. RNDr. Peter Kollár, D NDr. Katarína Kimáková, C	OrSc.Guaranteeprof. PhDr. Ol'ga Orosová, Sc.		

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚBEV/ Co

Course name: Scheduled practice teaching

MPPb/15

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.

Prerequisities: 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. RNDr. Peter Kollár, DrSc.Guaranteeprof. PhDr. Ol'ga Orosová,

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚFV/

Course name: Scheduled practice teaching

MPPb/15

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: IL

Prerequisities: KPE/MPPa/15 and KPE/PDU/15 and (KPPaPZ/PaSPP/09 or KPPaPZ/PPgU/15)

Conditions for course completion:

Student observes 11 physics lessons and leads one own physics lesson under the guidance of a teacher trainer. Confirmation of classroom visits. Written assessment made by teacher trainer.

Learning outcomes:

Students acquire knowledge by observing the practical applications of teaching skills for teaching the subject of physics and getting known about the organization of school work. Studneets gain first experience with teaching the subject of physics.

Brief outline of the course:

Students observe the process of teaching physics at lower and upper secondary schools and analyze it with teacher trainer. Practice takes place continuously durin the course of the semester. Practice is scheduled once a week at the time of the first to third lesson at schools. The first two lessons are observation/teaching, the third lesson - analysing the teaching process under the guidance of the teacher trainer.

Recommended literature:

Course language:

Slovak

Course assessment

Total number of assessed students: 61

abs	n
100.0	0.0

Provides: doc. RNDr. Jozef Hanč, PhD.

Date of last modification: 23.02.2017

Approved: Guaranteeprof. RNDr. Peter Kollár, DrSc. Guaranteeprof. PhDr. Ol'ga Orosová,

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚFV/ Course n

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: IL

Prerequisities: ÚFV/MPPb/15

Conditions for course completion:

Confirmed list of sittings in on classes and teaching as a confirmation of attendance in the required extent of 6 lessons of sitting in on classes and 18 physics lessons taught by student. Lesson records and written preparation for the lessons.

Learning outcomes:

Student gains under the guidance of teacher trainer practical teaching skills within the subject of Physics.

Brief outline of the course:

Sitting in on classes, teaching physics lessons by student, consulted with teacher trainer, analysis of observed and taught lessons.

Recommended literature:

Textbooks for lower and upper secondary school physics

Course language:

Slovak

Course assessment

Total number of assessed students: 8

abs	n
100.0	0.0

Provides: doc. RNDr. Jozef Hanč, PhD.

Date of last modification: 23.02.2017

Approved: Guaranteeprof. RNDr. Peter Kollár, DrSc.Guaranteeprof. PhDr. Ol'ga Orosová,

University: P. J. Šafár	rik University in Košice	
Faculty: Faculty of S	cience	
Course ID: ÚBEV/ MPPc/15	Course name: Continuou	s practice teaching I
Course type, scope a Course type: Practic Recommended cour Per week: Per stud Course method: pre	ce rse-load (hours): y period: 4t	
Number of credits: 2		
Recommended seme	ster/trimester of the cour	se: 3.
Course level: II.		
Prerequisities: ÚBEV	//MPPb/03 or ÚBEV/MPP	b/15
Conditions for cours	e completion:	
Learning outcomes:		
Brief outline of the c	ourse:	
Recommended litera	ture:	
Course language:		
Course assessment Total number of asses	ssed students: 102	
	abs	n
100.0 0.0		
Provides:		
Date of last modifica	tion: 24.02.2017	
Approved: Guarantee	eprof. RNDr. Peter Kollár,	OrSc.Guaranteeprof. PhDr. Ol'ga Orosová,

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of S	cience		
Course ID: ÚBEV/ Course name: Continuous practice teaching II MPPd/15			
Course type, scope a Course type: Practic Recommended cou Per week: Per stud Course method: pre	ce rse-load (hours): ly period: 6t		
Number of credits: 2	2		
Recommended seme	ester/trimester of the cours	e: 4.	
Course level: II.			
Prerequisities: ÚBE	V/MPPc/15		
Conditions for cours	se completion:		
Learning outcomes:			
Brief outline of the c	course:		
Recommended litera	nture:		
Course language:			
Course assessment Total number of asse	ssed students: 76		
	abs	n	
100.0 0.0			
Provides: PaedDr. At	ndrea Lešková, PhD.		
Date of last modifica	ation: 24.02.2017		
Approved: Guarante	eprof. RNDr. Peter Kollár, I	PrSc.Guaranteeprof. PhDr. Ol'ga Orosová,	

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚFV/ Co

Course name: Continuous Practice Teaching II

MPPd/15

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.

Prerequisities: ÚFV/MPPc/15

Conditions for course completion:

Confirmed list of sittings in on classes and teaching as a confirmation of attendance in the required extent of 8 lessons of sitting in on classes and 30 physics lessons taught by student. Lesson records and written preparation for the lessons.

Learning outcomes:

Student gains under the guidance of teacher trainer practical teaching skills within the subject of Physics.

Brief outline of the course:

Sitting in on classes, teaching physics lessons by student, consulted with teacher trainer, analysis of observed and taught lessons.

Recommended literature:

Textbooks for lower and upper secondary school physics

Course language:

Slovak

Course assessment

Total number of assessed students: 4

abs	n
100.0	0.0

Provides: doc. RNDr. Jozef Hanč, PhD.

Date of last modification: 23.02.2017

Approved: Guaranteeprof. RNDr. Peter Kollár, DrSc.Guaranteeprof. PhDr. Ol'ga Orosová,

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚFV/

Course name: Physics and Didactics of Physics

MSSU/15

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.

Prerequisities: (ÚFV/DF1a/15 and ÚFV/FKS/15 and ÚFV/SJF1/15 and ÚFV/DF1b/15 and ÚFV/ASFU/15)

Conditions for course completion:

The graduate has knowledge of physics in wider context. He is able to implement and apply knowledge of physics into education. He is able to apply knowledge of theory of education to selected physical content.

Learning outcomes:

Competencies in accordance with the graduate profile.

Brief outline of the course:

The graduate has knowledge of physics in wider context. He is able to implement and apply knowledge of physics content into education. He is able to apply knowledge of theory of education to selected physical content.

Physics:

Selected problems of Solid state physics, Subnuclear physics and Astrophysics.

Didactics of physics:

State educational curriculum ISCED 2,3-Physics. Development of scientific literacy. Physical experiment. Active learning, inquiry-based education in physics. Formative and summative assessment. Talented students and informal education. Analysis of lower and upper secondary teaching units.

Recommended literature:

Course language:

Slovak

Course assessment

Total number of assessed students: 4

A	В	С	D	Е	FX
75.0	25.0	0.0	0.0	0.0	0.0

Provides:

Date of last modification: 24.02.2017

Approved: Guaranteeprof. RNDr. Peter Kollár, DrSc.Guaranteeprof. PhDr. Ol'ga Orosová, CSc.Guaranteedoc. RNDr. Katarína Kimáková, CSc.

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: KPE/ Course name: Class Management MT/09 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. **Prerequisities: Conditions for course completion: Learning outcomes: Brief outline of the course: Recommended literature:** Course language: Course assessment Total number of assessed students: 455 В \mathbf{C} D E FX Α

Provides: PaedDr. Renáta Orosová, PhD.

32.97

Date of last modification: 07.02.2017

54.07

Approved: Guaranteeprof. RNDr. Peter Kollár, DrSc. Guaranteeprof. PhDr. Ol'ga Orosová,

1.54

0.66

1.1

9.67

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: KGER/

Course name: Communicative Grammar in German Language

NJKG/07

Course type, scope and the method:

Course type: Practice

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

Course method: present

Number of credits: 2

Recommended semester/trimester of the course:

Course level: I., II.

Prerequisities:

Conditions for course completion:

Learning outcomes:

Brief outline of the course:

Recommended literature:

Course language:

Course assessment

Total number of assessed students: 47

A	В	С	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. RNDr. Peter Kollár, DrSc. Guaranteeprof. PhDr. Ol'ga Orosová,

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚBEV/

Course name: Conservation Biology

OPR/12

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.

Prerequisities:

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

Α	В	С	D	Е	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. RNDr. Peter Kollár, DrSc.Guaranteeprof. PhDr. Ol'ga Orosová,

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID:

Course name: Problémové a agresívne správanie žiakov. Etiológia,

KPPaPZ/PASZ/17

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.

Prerequisities:

Conditions for course completion:

Learning outcomes:

Brief outline of the course:

Recommended literature:

Course language:

Course assessment

Total number of assessed students: 17

A	В	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. RNDr. Peter Kollár, DrSc. Guaranteeprof. PhDr. Ol'ga Orosová,

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: KPE/ Course name: Pedagogical Diagnostics **PDD/17** 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. **Prerequisities: Conditions for course completion: Learning outcomes: Brief outline of the course: Recommended literature:** Course language: Course assessment Total number of assessed students: 7 В \mathbf{C} D Е FX Α 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. RNDr. Peter Kollár, DrSc. Guaranteeprof. PhDr. Ol'ga Orosová,

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: KPE/ Course name: Pedagogical Communication **PDK/17** 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. **Prerequisities: Conditions for course completion: Learning outcomes: Brief outline of the course: Recommended literature:** Course language: Course assessment Total number of assessed students: 8 В \mathbf{C} D Е FX Α 75.0 25.0 0.0 0.0 0.0 0.0 Provides: Mgr. Katarína Petríková, PhD.

Date of last modification: 13.06.2017

Approved: Guaranteeprof. RNDr. Peter Kollár, DrSc. Guaranteeprof. PhDr. Ol'ga Orosová,

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: KPE/ Course name: Teaching Methodology and Pedagogy
PDU/15

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.

Prerequisities:

Conditions for course completion:

Learning outcomes:

Brief outline of the course:

Recommended literature:

Course language:

Course assessment

Total number of assessed students: 1275

A	В	С	D	E	FX
11.76	25.8	26.2	20.08	8.71	7.45

Provides: PaedDr. Renáta Orosová, PhD., Mgr. Katarína Petríková, PhD., Mgr. Lucia Diheneščíková, PhD.

Date of last modification: 07.02.2017

Approved: Guaranteeprof. RNDr. Peter Kollár, DrSc.Guaranteeprof. PhDr. Ol'ga Orosová,

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: CJP/

Course name: Academic English

PFAJAKA/07

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

Prerequisities:

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	В	С	D	Е	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. RNDr. Peter Kollár, DrSc.Guaranteeprof. PhDr. Ol'ga Orosová,

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: CJP/

Course name: Communicative Grammar in English

PFAJGA/07

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

Prerequisities:

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	В	С	D	E	FX
39.33	18.25	16.97	9.0	6.17	10.28

Provides: PaedDr. Gabriela Bednáriková, Mgr. Barbara Mitríková

Date of last modification: 21.02.2017

Approved: Guaranteeprof. RNDr. Peter Kollár, DrSc.Guaranteeprof. PhDr. Ol'ga Orosová,

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

Prerequisities:

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	В	С	D	Е	FX
36.02	21.33	20.38	10.9	7.58	3.79

Provides: Mgr. Barbara Mitríková

Date of last modification: 21.02.2017

Approved: Guaranteeprof. RNDr. Peter Kollár, DrSc.Guaranteeprof. PhDr. Ol'ga Orosová,

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: KPE/ Course name: Pedagogy and Psychology **PPD/15** 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. Prerequisities: 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 В \mathbf{C} D Е FX Α 27.24 24.73 27.96 15.41 0.36 4.3

Provides:

Date of last modification: 07.02.2017

Approved: Guaranteeprof. RNDr. Peter Kollár, DrSc. Guaranteeprof. PhDr. Ol'ga Orosová,

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: Dek. PF

Course name: Personality Development and Key Competences for Success

UPJŠ/PPZ/13

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.

Prerequisities:

Conditions for course completion:

Learning outcomes:

Brief outline of the course:

Recommended literature:

Course language:

Course assessment

Total number of assessed students: 39

A	В	С	D	Е	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. RNDr. Peter Kollár, DrSc. Guaranteeprof. PhDr. Ol'ga Orosová,

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID:

Course name: Psychology and Educational Psychology

KPPaPZ/PPgU/15

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.

Prerequisities:

Conditions for course completion:

Learning outcomes:

Brief outline of the course:

Recommended literature:

Course language:

Course assessment

Total number of assessed students: 1199

Α	В	С	D	Е	FX
10.51	18.93	22.85	22.52	21.93	3.25

Provides: prof. PhDr. Ol'ga Orosová, CSc., Mgr. Lucia Hricová, PhD., PhDr. Anna Janovská, PhD.

Date of last modification: 16.02.2017

Approved: Guaranteeprof. RNDr. Peter Kollár, DrSc.Guaranteeprof. PhDr. Ol'ga Orosová,

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚFV/ Co

Course name: School Physical Experiments I

PSP1a/05

Course type, scope and the method:

Course type: Practice

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

Course method: present

Number of credits: 2

Recommended semester/trimester of the course: 1.

Course level: II.

Prerequisities:

Conditions for course completion:

continuous written tests being active in practises final oral examination

Learning outcomes:

To gain basic skills with demonstration and physics interpretation of school physics experiments belonging to the subject matter in Physics classes at basic schools and high schools. To become familiar with didactic procedures related to using school experiments in different phases of the educational process.

Brief outline of the course:

The practices are aimed at practical realization and physics interpretation of school demonstration experiments from selected topics of the physics subject matter for basic-school and high-school pupils. The emphasis is on familiarizing with teaching aids and didactic devices used in performing school physics experiments and on getting basic skills with their utilization in physics teaching.

Recommended literature:

- 1.Kašpar, E., Vachek, J.: Pokusy z fyziky na středních školách, I.díl, SPN Praha, 1967
- 2.Koubek, V. a kol.: Školské pokusy z fyziky, SPN Bratislava, 1992
- 3.http://physedu.science.upjs.sk/sis/fyzika/experimenty/index.htm

Course language:

Slovak

Course assessment

Total number of assessed students: 68

A	В	С	D	Е	FX
44.12	22.06	19.12	7.35	4.41	2.94

Provides: doc. RNDr. Zuzana Ješková, PhD., doc. RNDr. Marián Kireš, PhD., PaedDr. Iveta Štefančínová, Ph.D.

Date of last modification: 23.02.2017

Approved: Guaranteeprof. RNDr. Peter Kollár, DrSc.Guaranteeprof. PhDr. Ol'ga Orosová, CSc.Guaranteedoc. RNDr. Katarína Kimáková, CSc.

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚFV/

Course name: School Physical Experiments II

PSP1b/04

Course type, scope and the method:

Course type: Practice

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

Course method: present

Number of credits: 2

Recommended semester/trimester of the course: 2.

Course level: II.

Prerequisities:

Conditions for course completion:

continuous written tests being active in practises

final oral examination

Learning outcomes:

Students should gain knowledge and broaden skills necessary for understanding methods, techniques and physical interpretations of all types of school physical experiments that are parts of the subject matter in physics classes at basic and high schools.

Brief outline of the course:

The practises are aimed at practical realization and physics interpretation of school demonstration experiments from selected topics of the physics subject matter for basic- and high-school pupils and their convenient incorporation into educational process. The emphasis is on familiarizing with teaching aids and didactic devices used in performing school physics experiments and on extending skills with their utilization in physics teaching.

Recommended literature:

- 1. Onderová, Ľ., Kireš, M., Ješková, Z., Degro, J.: Praktikum školských pokusov z fyziky II., PF UPJŠ
- 2.Kašpar, E., Vachek, J.: Pokusy z fyziky na středních školách, I. díl, SPN Praha, 1967
- 3. Žouželka, J., Fuka, J.: Pokusy z fyziky na středních školách, II. díl, SPN Praha, 1971
- 4.http://physedu.science.upjs.sk/sis/fyzika/experimenty/index.htm

Course language:

Slovak

Course assessment

Total number of assessed students: 64

A	В	С	D	Е	FX
51.56	10.94	29.69	4.69	1.56	1.56

Provides: doc. RNDr. Zuzana Ješková, PhD., doc. RNDr. Marián Kireš, PhD., PaedDr. Iveta Štefančínová. Ph.D.

Date of last modification: 23.02.2017

Approved: Guaranteeprof. RNDr. Peter Kollár, DrSc.Guaranteeprof. PhDr. Ol'ga Orosová,

COURSE INFORMATION LETTER University: P. J. Šafárik University in Košice Faculty: Faculty of Science **Course ID:** Course name: Psychológia tvorivosti a práca s nadanými v práci učiteľa KPPaPZ/PTPN/17 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. **Prerequisities: Conditions for course completion: Learning outcomes: Brief outline of the course: Recommended literature:** Course language: Course assessment Total number of assessed students: 3 В \mathbf{C} D Е FX Α 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. RNDr. Peter Kollár, DrSc. Guaranteeprof. PhDr. Ol'ga Orosová,

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID:

Course name: Drug Addiction Prevention in Educational Practice

KPPaPZ/PUDU/15

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.

Prerequisities:

Conditions for course completion:

Learning outcomes:

Brief outline of the course:

Recommended literature:

Course language:

Course assessment

Total number of assessed students: 204

A	В	С	D	Е	FX
46.57	42.65	9.8	0.98	0.0	0.0

Provides: prof. PhDr. Ol'ga Orosová, CSc., Mgr. Marta Kulanová, PhD., Mgr. Marcela

Štefaňáková, Mgr. Bohuš Hajduch

Date of last modification: 16.02.2017

Approved: Guaranteeprof. RNDr. Peter Kollár, DrSc. Guaranteeprof. PhDr. Ol'ga Orosová,

University: P. J. Šafárik University in Košice Faculty: Faculty of Science **Course ID:** Course name: Psychology of Health KPPaPZ/PsZ/15 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. **Prerequisities: Conditions for course completion: Learning outcomes: Brief outline of the course: Recommended literature:** Course language: Course assessment Total number of assessed students: 50 В \mathbf{C} D Ε FX Α 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. RNDr. Peter Kollár, DrSc. Guaranteeprof. PhDr. Ol'ga Orosová,

COURSE INFORMATION LETTER University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: KPO/ Course name: Child and Adolescent Sociology SDaM/15 Course type, scope and the method: Course type: Lecture **Recommended course-load (hours):** Per week: 2 Per study period: 28 Course method: present Number of credits: 2 Recommended semester/trimester of the course: 3. Course level: II. **Prerequisities: Conditions for course completion: Learning outcomes: Brief outline of the course: Recommended literature:** Course language: Course assessment Total number of assessed students: 831 В \mathbf{C} D Ε FX Α

Provides: Mgr. Alexander Onufrák, PhD.

29.6

Date of last modification: 17.02.2017

49.94

Approved: Guaranteeprof. RNDr. Peter Kollár, DrSc. Guaranteeprof. PhDr. Ol'ga Orosová,

3.37

0.36

1.32

15.4

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚFV/ | **Course name:** Subnuclear Physics

SJF1/15

Course type, scope and the method:

Course type: Lecture

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

Course method: present

Number of credits: 2

Recommended semester/trimester of the course: 2.

Course level: II.

Prerequisities:

Conditions for course completion:

written test and thesis

exam

Learning outcomes:

Preview of basic characteristics and classification of elementary particles, their structures, theoretical description and experimental technique.

Brief outline of the course:

Historical introduction to the particle physics. The forces in nature. Elementary and composite particles. Classification of particles. Symmetrics and conservation laws. Standard model.

Recommended literature:

- 1. Close F.: The Cosmic Onion Quarks and the Nature of the Universe, Oxford, 1990.
- 2. Hajko V. and team of authors, Physics in experiments, Bratislava, 1997.
- 3. Kapitonov I.M., Vvedenije v fiziku jadra i chastic (Russian), Moscow, 2004.
- 4. Brandt S., The harvest of a century, Discoveries of modern physics in 100 episodes, Oxford, 2009.

Course language:

Slovak

Course assessment

Total number of assessed students: 31

A	В	С	D	Е	FX
32.26	0.0	6.45	25.81	25.81	9.68

Provides: prof. RNDr. Stanislav Vokál, DrSc.

Date of last modification: 20.02.2017

Approved: Guaranteeprof. RNDr. Peter Kollár, DrSc.Guaranteeprof. PhDr. Ol'ga Orosová,

University: P. J. Šafárik University in Košice Faculty: Faculty of Science **Course ID:** Course name: Mobbing, Violence and Their Prevention KPPaPZ/SNP/09 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. **Prerequisities: Conditions for course completion: Learning outcomes: Brief outline of the course: Recommended literature:** Course language: Course assessment Total number of assessed students: 83 В C D Ε FX Α 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. RNDr. Peter Kollár, DrSc. Guaranteeprof. PhDr. Ol'ga Orosová,

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚBEV/

Course name: School experiments and observations

SPP/08

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.

Prerequisities:

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	В	С	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. RNDr. Peter Kollár, DrSc.Guaranteeprof. PhDr. Ol'ga Orosová,

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: ÚBEV/ Course name: Student Scientific Conference SVK/01 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. **Prerequisities: Conditions for course completion: Learning outcomes: Brief outline of the course: Recommended literature:** Course language: **Course assessment** Total number of assessed students: 230 В \mathbf{C} D Ε FX Α 100.0 0.0 0.0 0.0 0.0 0.0 **Provides:** Date of last modification: 24.02.2017

Approved: Guaranteeprof. RNDr. Peter Kollár, DrSc.Guaranteeprof. PhDr. Ol'ga Orosová,

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚFV/

Course name: Student Scientific Conference

SVKD/04

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: II.

Prerequisities:

Conditions for course completion:

presentation of results of studnets' research work at Students' scientific conference

Learning outcomes:

Student gains experience and skills in processing and presentation of results of his research work.

Brief outline of the course:

Presentation of results of studnets' research work at Students' scientific conference.

Recommended literature:

Based on the recommendations of supervisor

Course language:

Slovak

Course assessment

Total number of assessed students: 45

A	В	С	D	E	FX
100.0	0.0	0.0	0.0	0.0	0.0

Provides:

Date of last modification: 23.02.2017

Approved: Guaranteeprof. RNDr. Peter Kollár, DrSc.Guaranteeprof. PhDr. Ol'ga Orosová,

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚFV/

Course name: Special Theory of Relativity

TRS/15

Course type, scope and the method:

Course type: Lecture

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

Course method: present

Number of credits: 2

Recommended semester/trimester of the course: 3.

Course level: II.

Prerequisities:

Conditions for course completion:

Learning outcomes:

To acquaint students with principles of a special theory of relativity.

Brief outline of the course:

Galilean transformations and Galilean principle of relativity. Ether's hypothesis. Michelson experiment. Einstein's principles of the special theory of relativity. Lorentz transformation and its physical consequences. Interval and light cone. Proper time. Minkowski's space-time. Mathematical apparatus of special relativity. Relativistic electrodynamics. Relativistic mechanics.

Recommended literature:

- 1. Greiner W.: Classical Mechanics-Point Particles and Relativity, Springer-Verlag, New York, 2004.
- 2. Goldstein H., Poole Ch., Safko J.: Classical Mechanics, Addison Wesley, San Francisco, 2002.
- 3. Landau L.D., Lifsic E.M.: The Classical Theory of Fields, Pergamon Press, Oxford, 1975.

Course language:

Slovak

Course assessment

Total number of assessed students: 42

l	A	В	С	D	Е	FX
	33.33	40.48	9.52	9.52	7.14	0.0

Provides: prof. RNDr. Andrej Bobák, DrSc.

Date of last modification: 21.02.2017

Approved: Guaranteeprof. RNDr. Peter Kollár, DrSc.Guaranteeprof. PhDr. Ol'ga Orosová,

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: KPE/ **Course name:** Creating Text Teaching Aids TTUP/15 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. **Prerequisities: Conditions for course completion: Learning outcomes: Brief outline of the course: Recommended literature:** Course language: Course assessment

Total number of assessed students: 103

Α	В	С	D	Е	FX
48.54	33.98	10.68	4.85	1.94	0.0

Provides: PaedDr. Renáta Orosová, PhD., Mgr. Katarína Petríková, PhD.

Date of last modification: 07.02.2017

Approved: Guaranteeprof. RNDr. Peter Kollár, DrSc. Guaranteeprof. PhDr. Ol'ga Orosová,

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚTVŠ/ Co

Course name: Sports Activities I.

TVa/11

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.

Prerequisities:

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 Potočníková, 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. RNDr. Peter Kollár, DrSc.Guaranteeprof. PhDr. Ol'ga Orosová,

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚTVŠ/

Course name: Sports Activities II.

TVb/11

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.

Prerequisities:

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 Potočníková, 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. RNDr. Peter Kollár, DrSc.Guaranteeprof. PhDr. Ol'ga Orosová,

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚTVŠ/ Cou

Course name: Sports Activities III.

TVc/11

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.

Prerequisities:

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 Potočníková, 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. RNDr. Peter Kollár, DrSc.Guaranteeprof. PhDr. Ol'ga Orosová,

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚTVŠ/

Course name: Sports Activities IV.

TVd/11

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.

Prerequisities:

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 Potočníková, 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. RNDr. Peter Kollár, DrSc.Guaranteeprof. PhDr. Oľga Orosová,

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course name: Úvod do psychológie náboženstva **Course ID:** KPPaPZ/UPN/17 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. **Prerequisities: Conditions for course completion: Learning outcomes: Brief outline of the course: Recommended literature:** Course language: Course assessment Total number of assessed students: 0 В \mathbf{C} D Ε FX Α 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. RNDr. Peter Kollár, DrSc. Guaranteeprof. PhDr. Ol'ga Orosová,

COURSE INFORMATION LETTER University: P. J. Šafárik University in Košice Faculty: Faculty of Science **Course ID:** Course name: The Art of Aiding by Verbal Exchange KPPaPZ/UPR/15 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. **Prerequisities: Conditions for course completion: Learning outcomes: Brief outline of the course: Recommended literature:** Course language: Course assessment Total number of assessed students: 82

A	В	С	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. RNDr. Peter Kollár, DrSc. Guaranteeprof. PhDr. Ol'ga Orosová,

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚFV/ | Course name: General Biophysics II

VBF2/15

Course type, scope and the method:

Course type: Lecture

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

Course method: present

Number of credits: 3

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

Course level: II.

Prerequisities:

Conditions for course completion:

Exam

Learning outcomes:

To provide information about the object, significance and role of biophysics in science. The main emphasis will be given on the understanding of the principles determining the structure and function of the most important biological structures (nucleis acids, proteins, biomembranes) as well as on the thermodynamics and kinetics of selected chemical and biophysical processes.

Brief outline of the course:

The definition of biophysics and its role in the science. Intra- and inter-molecular interactions in biological systems. Function and structure of the important biomacromolecules (nucleic acids, proteins, biomembranes, sugars). Conformational transitions in biopolymers: helix-coil transition in DNA, denaturation of proteins, phase transitions in biomembranes.

Thermodynamics of biological processes. Gibbs energy and chemical equilibrium, chemical potential, binding constants of the ligand-macromolecule intractions, cooperativity of the binding between biological important molecules, membrane potential.

Kinetics of the chemical and biophysical processes. The principles of chemical kinetics, enzymatic reactions, inhibition of the enzymes, membrane transport, introduction to the pharmacokinetics.

Cell biophysics. The basic bioenergetic processes, oxidative phosphorylation, photosynthesis. Mechanisms of regulations and control processes in cells-the basic principles.

Medicinal biophysics. Biophysical principles of selected diagnostic and therapeutical methods. Radiation and environmental biophysics. The influence of physico-chemical factors of the environment on the living systems.

Recommended literature:

- 1. M. B. Jackson, Molecular and cellular biophysics, Cambridge University Press, 2006.
- 2. M. Daune, Molecular biophysics-Structures in motion, Oxford University Press, 2004.
- 3. R. Glaser, Biophysics, Springer Verlag, 2001.
- 4. M.V. Volkenštein, Biofizika, Nauka, Moskva 1988.
- 5. W.Hoppe and W. Lohmann, Biophysics, Springer Verlag, 1988.
- 6. K.E.van Holde, W.C. Johnson and P. Shing Ho, Principles of

physical biochemistry, Simon and Schuster, Prentice Hall, 1998. 7. D.G. Nichols and S.J. Ferguson, Bioenergetics 3, Academic Press, Elsevier Science Ltd., 2002.

Course language:

Slovak

Course assessment

Total number of assessed students: 9

A	В	С	D	Е	FX
22.22	44.44	11.11	11.11	11.11	0.0

Provides: doc. Mgr. Daniel Jancura, PhD.

Date of last modification: 24.02.2017

Approved: Guaranteeprof. RNDr. Peter Kollár, DrSc.Guaranteeprof. PhDr. Ol'ga Orosová,

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚBEV/ Co

Course name: Introduction to Ecology

VEK1/03

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.

Prerequisities:

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	В	С	D	Е	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. RNDr. Peter Kollár, DrSc. Guaranteeprof. PhDr. Ol'ga Orosová,

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚFV/ Course na

VMV1/15

Course name: Using Multimedia in Education

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: 3.

Course level: II.

Prerequisities:

Conditions for course completion:

9. moduls assignments: 45 points

presentation and discussion about the project 55 points A 100-90 B 89-80 C 79-70 D 69-60 E 59-50 F 49-0

Learning outcomes:

Studenat will have overview and skills in field of using multimedia in education.

Brief outline of the course:

- 1. Computer graphics as visualisation tools
- 2. Preparation and using of graphic elements
- 3. Computer animation
- 4. Digital audio and educational activities
- 5. Educational video
- 6. Interactive multimedia
- 7. Videotechnologies in education
- 8. Computer based school laboratory
- 9. Interactove acitvites in multimedia classroom
- 10. Educational project creation
- 11. Educational project creation
- 12. Project presentation

Recommended literature:

- 1. Kireš, M., Šnajder Ľ., Kalakay, R.: Multimédiá pre učiteľa, Asociácia projektu Infovek, UIPŠ Bratislava 2002, 96 strán, 400 ks, ISBN 80-7098-317-5
- 2. Kireš, M. a kol.: IKT pre učiteľa fyziky, Asociácia projektu Infovek, UIPŠ Bratislava 2002, 79 strán, 400 ks, ISBN 80-7098-316-7
- 3. Šnajder, Ľ., Kireš, M.: Práca s multimédiami pre stredné školy, tematický zošit, SPN Bratislava, 2005, 48 strán, 1. vydanie: ISBN 80-10-00422-7, 2006, 1.vydanie maďarská jazyková mutácia: ISBN 80-10-01031-6, 2007, 2.vydanie: ISBN 978-80-10-01224-4

Course language:

Slovak, English

Course assessment

Total number of assessed students: 0					
A	В	С	D	Е	FX
0.0	0.0	0.0	0.0	0.0	0.0

Provides: doc. RNDr. Marián Kireš, PhD.

Date of last modification: 23.02.2017

Approved: Guaranteeprof. RNDr. Peter Kollár, DrSc.Guaranteeprof. PhDr. Ol'ga Orosová,

University: P. J. Šafárik University in Košice Faculty: Faculty of Science **Course ID:** Course name: Educational Counselling KPPaPZ/VP/09 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. **Prerequisities: Conditions for course completion: Learning outcomes: Brief outline of the course: Recommended literature:** Course language:

Course assessment

Total number of assessed students: 119

Α	В	C	D	Е	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. RNDr. Peter Kollár, DrSc. Guaranteeprof. PhDr. Ol'ga Orosová,

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚFV/ | Course name: Selected General Physics Problems I

VPF1/15

Course type, scope and the method:

Course type: Lecture

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

Course method: present

Number of credits: 3

Recommended semester/trimester of the course: 2.

Course level: II.

Prerequisities:

Conditions for course completion:

1. writing exam 20 points

2. writing exam 20 points

self examples 30 bodov

semestral presentation 30 bodov

A 100-90 B 89-80 C 79-70 D 69-60 E 59-50 F 49-0

Learning outcomes:

Physics interpretation of everyday phenomena can help with deeper understanding of physics problems.

Brief outline of the course:

- 1. Kinematics and dynamics
- 2. Hydrostatics and hydrodynamics
- 3. Surface properties of liquids
- 4. Thermics and Thermodynamics
- 5. Thermics and Thermodynamics II
- 6. Electrostatics
- 7. Electric field
- 8. Magnetic field
- 9. Mechanical oscillations, resonance, waves
- 10. Acoustics
- 11. Ray Optics
- 12. Wave Optics
- 13. Student assignments presentation

Recommended literature:

- 1. Nahodil, J.: Fyzika v bežnom živote, Prometheus, Praha, 1996
- 2. Tulčinskyj, : Zbierka kvalitatívnych úloh z fyziky, SPN, Bratislava, 1990
- 3.Kašpar, E.: Problémové vyučovanie a problémové úlohy, SPN, Praha1982
- 4. Feynman, R.P.: Feynmanove prednášky z fyziky 1-5, Alfa, 1985
- 5. Landau, Kitajgorodskij: Fyzika pre každého, Alfa 1972
- 6.Lange, V.: To chee vtip!, Alfa, Bratislava, 1988
- 7.http://kekule.science.upjs.sk/fyzika

8.http://physedu.science.upjs.sk						
Course language: Slovak, English						
Course assessment						
Total number of assessed students: 6						
A	В	С	D	E	FX	

0.0

0.0

0.0

Provides: doc. RNDr. Marián Kireš, PhD.

0.0

Date of last modification: 23.02.2017

100.0

Approved: Guaranteeprof. RNDr. Peter Kollár, DrSc.Guaranteeprof. PhDr. Ol'ga Orosová,

0.0

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚFV/ | Course name: Selected General Physics Problems II

VPF2/15

Course type, scope and the method:

Course type: Lecture

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

Course method: present

Number of credits: 3

Recommended semester/trimester of the course: 3.

Course level: II.

Prerequisities:

Conditions for course completion:

presentation of selected problem 30 p

writing exam 70 p

A 100-90 B 89-80 C 79-70 D 69-60 E 59-50 F 49-0

Learning outcomes:

Everyday phenomena are used for deeper and conceptual understanding of physics problem.

Brief outline of the course:

- 1.Mechanics
- Coriolisova force
- •How Swing works
- •Bicycle
- •Tides
- •Inertia
- 2. Hydromechanics
- Archimedes screw
- •Water flow
- •Archimedes principle in Action
- 3.Kapilarity
- •Water in plant
- •Kapilár hysteresis
- •Bubbles and soap
- •Floating on water surface
- 4. Acoustic
- •Signal production
- •Human voice
- Space acoustic
- •Home ciname
- 5.Optics
- •Sight
- Opticalillusions
- Space imaging

- •Atmospheric acoustic
- 6.Probléms IYPT
- Magnetohydrodynamics
- •Bulbs
- •Falling spring
- •Ship movement
- •Thermal exchange
- 7.Differenct problems
- Sonoluminiscence
- •Ice pick
- •Kelvin water droplet
- •Water stain
- 8. Student work presentation

Recommended literature:

- 1. Walker, J.: The Flying Circus of Physics with answers, John Wiley &Sons, 2005
- 2. Gnädig, P., Honyek, G., Riley, K.: 200 Puzzling Physics Problems with Hints and Solutions, Cambridge University Press, 2001
- 3. Stepans, J.: Targeting Studnets 'Misconceptions, Showboard, 2003
- 4. Swartz, C.: Back of the Envelope Physics, The John Hopkins Uni. Press, Baltimore, 2003
- 5. Nahodil, J.: Fyzika v bežnom živote, Prometheus, Praha, 1996
- 6. Tulčinskyj, : Zbierka kvalitatívnych úloh z fyziky, SPN, Bratislava, 1990
- 7. Kašpar, E.: Problémové vyučovanie a problémové úlohy, SPN, Praha1982
- 8. Feynman, R.P.: Feynmanove prednášky z fyziky 1-5, Alfa, 1985
- 9. Landau, Kitajgorodskij: Fyzika pre každého, Alfa 1972
- 10. Lange, V.: To chee vtip!, Alfa, Bratislava, 1988 actual articles

Course language:

Slovak, English

Course assessment

Total number of assessed students: 4

A	В	С	D	Е	FX
100.0	0.0	0.0	0.0	0.0	0.0

Provides: doc. RNDr. Marián Kireš, PhD.

Date of last modification: 23.02.2017

Approved: Guaranteeprof. RNDr. Peter Kollár, DrSc.Guaranteeprof. PhDr. Ol'ga Orosová,

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚFV/ Course name: S

VPSP/04

Course name: School Physics Experiments III

Course type, scope and the method:

Course type: Practice

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

Course method: present

Number of credits: 3

Recommended semester/trimester of the course: 3.

Course level: II.

Prerequisities:

Conditions for course completion:

continuous written tests active work in practises final oral examination

Learning outcomes:

The students gain skills and competencies to the own and effective organisation and solving of experimental tasks, use of activities enhanced by digital technologies for physics teaching at lower and upper secondary level.

Brief outline of the course:

The practices are aimed at practical realization and physics interpretation of different forms of selected school demonstration. The emphasis is on creative utilization of teaching aids and didactic devices and computer-aided experiments.

Recommended literature:

Šucha, J.: Metodická príručka pre rozkladný transformátor, Učebné pomôcky B.Bystrica, 1973 Demkanin, P. a kol. Počítačom podporované prírodovedné laboratórium, FMFI UK Bratislava, 2006, ISBN:80-89186-10-6

Ješková, Z., a kol. Využitie informačných a komunikačných technológií v predmete Fyzika pre stredné školy : učebný materiál - modul 3. - 1. vyd. - Košice : Elfa, 2010. - 242 s., ISBN 978-80-8086-146-9

Duľa, I. a kol. Využitie informačných a komunikačných technológií v predmete Fyzika pre základné školy : učebný materiál - modul 3. - 1. vyd. - Košice : Elfa, 2010. - 240 s., ISBN 978-80-8086-154-4

Ješková, Z., Degro, J., Onderová, Ľ.: Počítačom podporovaná výučba fyziky, PF UPJŠ, Košice, ISBN 80 - 7097 - 451 -6

http://physedu.science.upjs.sk/sis/fyzika/experimenty/index.htm

Course language:

Slovak

Course assessment

Total number of assessed students: 2

A	В	С	D	Е	FX
0.0	100.0	0.0	0.0	0.0	0.0

Provides: doc. RNDr. Zuzana Ješková, PhD., doc. RNDr. Marián Kireš, PhD., RNDr. Ľudmila Onderová, PhD.

Date of last modification: 23.02.2017

Approved: Guaranteeprof. RNDr. Peter Kollár, DrSc.Guaranteeprof. PhDr. Ol'ga Orosová, CSc.Guaranteedoc. RNDr. Katarína Kimáková, CSc.

COURSE INFORMATION LETTER University: P. J. Šafárik University in Košice Faculty: Faculty of Science **Course ID:** Course name: Vývinová psychológia pre učiteľov KPPaPZ/VPU/17 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. **Prerequisities: Conditions for course completion: Learning outcomes: Brief outline of the course: Recommended literature:** Course language: Course assessment Total number of assessed students: 13

A	В	C	D	Е	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. RNDr. Peter Kollár, DrSc. Guaranteeprof. PhDr. Ol'ga Orosová,

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID:

Course name: Slovak Language for Teachers

KSSFaK/VSJU/15

Course type, scope and the method:

Course type: Lecture

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

Course method: present

Number of credits: 2

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

Course level: II.

Prerequisities:

Conditions for course completion:

Learning outcomes:

Brief outline of the course:

Recommended literature:

Course language:

Course assessment

Total number of assessed students: 40

A	В	С	D	Е	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. RNDr. Peter Kollár, DrSc. Guaranteeprof. PhDr. Ol'ga Orosová,

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: Course name: The Fundamentals of Pedagogico-Psychological Research

KPPaPZ/ZMPPV/15 | 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.

Prerequisities: 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	В	С	D	Е	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. RNDr. Peter Kollár, DrSc. Guaranteeprof. PhDr. Ol'ga Orosová,

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚBEV/ | Course na

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.

Prerequisities:

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

Α	В	С	D	Е	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. RNDr. Peter Kollár, DrSc.Guaranteeprof. PhDr. Ol'ga Orosová,

COURSE INFORMATION LETTER University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: KPE/ Course name: Essentials of Special Education ZSP/15 Course type, scope and the method: Course type: Lecture **Recommended course-load (hours):** Per week: 2 Per study period: 28 Course method: present Number of credits: 2 Recommended semester/trimester of the course: 3. Course level: II. **Prerequisities: Conditions for course completion: Learning outcomes: Brief outline of the course: Recommended literature:** Course language: Course assessment Total number of assessed students: 194 В \mathbf{C} D E FX Α

35.05 18.56 36.08

Date of last modification: 07.02.2017

Provides: Mgr. Lucia Diheneščíková, PhD.

Approved: Guaranteeprof. RNDr. Peter Kollár, DrSc. Guaranteeprof. PhDr. Ol'ga Orosová,

8.25

2.06

0.0

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: KPE/ Course name: Experiential Education ZZP/12 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. **Prerequisities: Conditions for course completion: Learning outcomes: Brief outline of the course: Recommended literature:** Course language: Course assessment

Total number of assessed students: 143

Α	В	С	D	Е	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. RNDr. Peter Kollár, DrSc. Guaranteeprof. PhDr. Ol'ga Orosová,

University: P. J. Šafá	rik University in Košice				
Faculty: Faculty of S	cience				
Course ID: ÚTVŠ/ ÚTVŠ/CM/13					
Course type, scope a Course type: Practic Recommended cour Per week: Per stud Course method: pre	ce rse-load (hours): ly period: 36s				
Number of credits: 2					
Recommended seme	ster/trimester of the cours	2:			
Course level: I., II.					
Prerequisities:					
Conditions for cours	e completion:				
Learning outcomes:					
Brief outline of the c	ourse:				
Recommended litera	iture:				
Course language:					
Course assessment Total number of asses	ssed students: 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. RNDr. Peter Kollár, DrSc.Guaranteeprof. PhDr. Ol'ga Orosová, CSc.Guaranteedoc. RNDr. Katarína Kimáková, CSc.					

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.		
Prerequisities:		
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 Hajdučeková, PhD.		
Date of last modification: 18.02.2017		
Approved: Guaranteeprof. RNDr. Peter Kollár, DrSc.Guaranteeprof. PhDr. Oľga Orosová, CSc.Guaranteedoc. RNDr. Katarína Kimáková, CSc.		