CONTENT

1. Activating forms of biology teaching	3
2. Astrophysics	
3. Biology and Didactics of Biology	7
4. Bullying, Violence and Their Prevention	9
5. Child and Adolescent Sociology	
6. Class Management	12
7. Conservation Biology	
8. Continuous Practice Teaching I	14
9. Continuous Practice Teaching II	15
10. Continuous practice teaching I	16
11. Continuous practice teaching II	
12. Creating Text Teaching Aids	18
13. Culture of Spoken Discourse	
14. Dendrology	
15. Developmental Psychology for Teachers	
16. Didactics of Physics I.	
17. Didactics of Physics II	
18. Didactics of biology	
19. Diploma Project I	
20. Diploma Project II	
21. Diploma Project II	
22. Diploma Project III	
23. Diploma Project III	
24. Diploma Thesis and its Defence	
25. Diploma Thesis and its Defense	
26. Diploma project I	
27. Drug Addiction Prevention in Educational Practice	
28. Educational Counselling.	
29. Essentials of Special Education	
30. Ethology	
31. Evolúcia človeka	
32. Experiential Education	
33. General Microbiology	
34. Geology	
35. Geology and nature protection education	
36. Health Psychology	
37. History of Biology Seminar	
38. Immunology	
39. Informatics in Biology	
40. Introduction into Psychology of Religion	
41. Introduction to Ecology	
42. Introduction to Research Methodoly in Education and Psychology	
43. Modern Didactical Technology	
44. Modern Physics from Didactics Point of View	
45. Pedagogical Communication.	
46. Pedagogical Diagnostics	
47. Pedagogy	
48 Pedagogy and Psychology	75

49. Physical Problems	78
50. Physics and Didactics of Physics	80
51. Phytogeography	82
52. Problem and Aggressive Behaviour of Pupils. Etiology, Prevention and Intervention	84
53. Professional Ethics for Teachers and School Counsellors	86
54. Psychology and Educational Psychology	88
55. Psychology of Creativity and Working with Gifted Students in Teacher Practice	90
56. Reading Literacy in Educational Process	92
57. Scheduled practice teaching.	93
58. Scheduled practice teaching.	95
59. School Computer-Based Physical Laboratory	96
60. School Physical Experiments I	98
61. School Physical Experiments II	100
62. School experiments and observations	102
63. Selected Demonstration Experiments.	104
64. Selected General Physics Problems I	106
65. Selected General Physics Problems II	108
66. Slovak Language for Teachers	110
67. Solid State Physics	112
68. Student Scientific Conference	114
69. Supervised Teaching Practice	115
70. Teaching Methodology and Pedagogy	116
71. The Art of Aiding by Verbal Exchange	117
72. Zoogeography	119

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 ECTS 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 of pedagogical skills with new teaching methods resulting from educational and scientific projects solved at the Department of Biology Didactics. Involvement in projects and practical training of innovative 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

Kireš, M. [et al.] .Bádateľské aktivity v prírodovednom vzdelávaní [Inquiry activities in science education] časť A. - 1. vyd. - Bratislava : Štátny pedagogický ústav, 2016. - 128 s. - Projekt: Establish 244749 ; Sails 2890085. - ISBN 9788081181559

Standards and biology textbooks for Slovak lower and upper secondary schools (ISCED 2, ISCED 3)

Study materials of the internal course published in Moodle https://lms.upjs.sk/login/index.php

Course language:

Notes:

Course assessment

Total number of assessed students: 28

A	В	С	D	Е	FX
60.71	21.43	17.86	0.0	0.0	0.0

Provides: PaedDr. Andrea Lešková, PhD., Mgr. Zuzana Boberová, PhD.

Date of last modification: 16.12.2021

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

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚFV/ | Course name: Astrophysics

ASFU/22

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 ECTS credits: 2

Recommended semester/trimester of the course: 3.

Course level: II.

Prerequisities:

Conditions for course completion:

To successfully complete the course, the student must demonstrate sufficient understanding of the basic knowledge of the structure and evolution of the universe. Knowledge of the basic properties of stars and methods of their determination, the structure, evolution and energy sources of stars, the structure of matter in the universe and its evolution is required. The condition for obtaining credits is passing a written or oral exam, preparation, and presentation of a semester essay. The credit evaluation of the course considers the following student workload: direct teaching (1 credit) and assessment (1 credits). The minimum threshold for completing the course is to obtain at least 50% of the total score, using the following rating scale: A (90-100%), B (80-89%), C (70-79%), D (60-69%), E (50-59%), Fx (0-49%).

Learning outcomes:

After completing the lectures, the student will master the basic knowledge about the properties of stars and methods of their determination, structure, evolution and energy sources of stars, the structure of matter in the universe and its evolution. It will also have sufficient physical knowledge and mathematical apparatus to enable independent solving of a various tasks related to astrophysical research.

Brief outline of the course:

- 1. Basic properties of stars and methods of their determination: radiation flux, apparent and absolute magnitude, distances of stars, colors of stars.
- 2. Temperature of stars, black body radiation, spectra of atoms and molecules, non-thermal radiation.
- 3. Spectral classifications, luminosity classes, HR diagram, masses of stars.
- 4. Structure of stars: basic equations of stellar structure, transfer of energy by radiation and convection, production of energy in stars, fusion reactions.
- 5. Evolution of stars: interstellar matter and formation of stars and stellar systems, Jeans' criterion, protostars.
- 6. Evolution of stars: main sequence stars, giants, final stages of star evolution white dwarfs, neutron stars and black holes.
- 7. Distribution of matter in the universe: Milky Way, its structure, dynamics, and evolution, types of galaxies, quasars, intergalactic matter, local group of galaxies.

- 8. Clusters and super-clusters of galaxies, large-scale structure of the universe, dark matter, and dark energy.
- 9. Evolution of the universe: historical development of views on the universe, Olberson's paradox, gravitational paradox, Cosmological principle.
- 10. Isotropicity and homogeneity of the universe, relic radiation, expansion of the universe. Steady state theory.
- 11. Relativistic cosmology: cosmological solutions of Einstein's equations, models of the universe and their properties, theory of the expanding universe, the Big Bang, the age of the universe.
- 12. Origin of the universe: the initial stages of the expansion of the universe, inflationary expansion and nucleogenesis, the formation of galaxies and galaxy clusters.

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. Pasachoff, J.M., Filippenko, A., The Cosmos: Astronomy in the New Millennium, Cambridge University Press, 2013;
- 4. Vanýsek, V., Základy astronomie a astrofyziky, Academia, Praha, 1980;
- 5. Čeman, R., Pittich, E., Vesmír 1 Slnečná sústava, MAPA Slovakia, Bratislava, 2002;
- 6. Čeman, R., Pittich, E., Vesmír 2 Hviezdy Galaxie, MAPA Slovakia, Bratislava, 2003;

Course language:

Slovak, English

Notes:

Course assessment

Total number of assessed students: 28

A	В	С	D	Е	FX
64.29	32.14	3.57	0.0	0.0	0.0

Provides: doc. RNDr. Rudolf Gális, PhD.

Date of last modification: 06.09.2022

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

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚBEV/ | Course name: Biology and Didactics of Biology

BDB/22

Course type, scope and the method:

Course type:

Recommended course-load (hours):

Per week: Per study period: Course method: present

Number of ECTS credits: 2

Recommended semester/trimester of the course:

Course level: II.

Prerequisities: ÚBEV/VEK1/03 and (ÚBEV/VMK/22 or ÚBEV/MKVU/15) and ÚBEV/DIB1/03

Conditions for course completion:

State exams in the subject of biology and didactics of biology are held in the form of an oral exam. The student has to demonstrate professional knowledge of the drawn topic and present it in a broader context. Each topic is assigned a didactic problem, which is to explain and apply to the teaching of the content at the secondary (secondary) or primary (primary) school level (marked).

Learning outcomes:

Graduates will gain the ability to teach biology at lower and upper secondary education.

Brief outline of the course:

Wider context of general ecology and biology of multicellular organisms and microorganisms. Didactic elements of teaching biology and their application to specific didactic problems and given content at the level of primary and secondary school.

Strategies and trends in teaching biology and examples of their application in school practice.

Recommended literature:

Current school documents in the Slovak Republic.

Other sources are listed in the recommended literature of profile subjects, which are followed by a state exam.

Course language:

SK

Notes:

Course assessment

Total number of assessed students: 24

A	В	С	D	Е	FX
33.33	37.5	20.83	8.33	0.0	0.0

Provides:

Date of last modification: 13.05.2022

Approved: prof. PhDr. Ol'ga Orosová, CSc., prof. RNDr. Peter Kollár, DrSc., prof. RNDr. Ľubomír Kováč, CSc.

	COURSE INFORMATION LETTER
University: P. J. Šafá	rik University in Košice
Faculty: Faculty of S	Science
Course ID: KPPaPZ/SNP/09	Course name: Bullying, Violence and Their Prevention
Course type, scope a Course type: Practi Recommended cou Per week: 2 Per stu Course method: pro Number of ECTS cr	ce rse-load (hours): idy period: 28 esent
Recommended seme	ester/trimester of the course: 1., 3.
Course level: II.	
Prerequisities:	
Active participation Seminar work - 40% Seminar work 2 - 40 Learning outcomes: The student will acc	in seminars. Detailed information will be given. - 20%
of prevention. With implementation of pr	nin the seminars, students will develop professional skills through the revention activities. At the same time, their sensitivity to the issue of bullying to actively address it during their pedagogical practice will increase.
environment). Manification role of teacher, school level of school, class activities used in the	c. Characteristics of actors of bullying (personality, characteristics of family festations and possible causes of bullying. Bullying as a group process. The ol and parent in solving bullying. Possibilities of prevention of bullying at the individuals. Primary, secondary and tertiary prevention. Socio-psychological prevention of bullying.
2001 Jánošová a kol. Psyc	ature: canování. Cesta k zastavení epidemie šikanování ve školách. Portál, Praha, hologie školní šikany. Grada, Praha, 2016 a šikana mezi dětmi. Portál, Praha, 1995

Course language:

Notes:

Course assessm	Course assessment						
Total number of assessed students: 214							
Α	FX						
85.51	13.08	0.93	0.47	0.0	0.0		

Provides: doc. Mgr. Mária Bačíková, PhD.

Date of last modification: 24.06.2022

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

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 ECTS 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:

Notes:

Course assessment

Total number of assessed students: 968

A	В	С	D	Е	FX
50.21	29.13	14.98	3.62	1.55	0.52

Provides: doc. Mgr. Alexander Onufrák, PhD.

Date of last modification: 29.06.2022

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

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 ECTS 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: **Notes:** Course assessment Total number of assessed students: 572 C Α В D Ε FX 53.85 34.79 8.39 1.57 0.52 0.87

Provides: doc. PaedDr. Renáta Orosová, PhD.

Date of last modification: 12.03.2024

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

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 ECTS credits: 3

Recommended semester/trimester of the course: 1.

Course level: I., II.

Prerequisities:

Conditions for course completion:

Mandatory participation in lectures, completion of two semestral written examinations, oral 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:

Notes:

Course assessment

Total number of assessed students: 800

A	В	С	D	Е	FX
73.63	16.0	6.5	2.75	0.5	0.63

Provides: prof. RNDr. Ľubomír Kováč, CSc.

Date of last modification: 14.12.2021

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

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚFV/ **Course name:** Continuous Practice Teaching I

MPPc/15

Course type, scope and the method:

Course type: Practice

Recommended course-load (hours): Per week: Per study period: 4t

Course method: present

Number of ECTS credits: 2

Recommended semester/trimester of the course: 3.

Course level: II.

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

Notes:

Course assessment

Total number of assessed students: 31

abs	n
100.0	0.0

Provides: doc. RNDr. Jozef Hanč, PhD.

Date of last modification: 03.05.2015

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

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚFV/ | 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 ECTS 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

Notes:

Course assessment

Total number of assessed students: 27

abs	n
100.0	0.0

Provides: doc. RNDr. Jozef Hanč, PhD.

Date of last modification: 03.05.2015

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

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: ÚBEV/ Course name: Continuous practice teaching I MPPc/15 Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: Per study period: 4t Course method: present **Number of ECTS credits: 2 Recommended semester/trimester of the course:** 3. Course level: II. Prerequisities: ÚBEV/MPPb/15 **Conditions for course completion: Learning outcomes: Brief outline of the course: Recommended literature:** Course language: **Notes:** Course assessment Total number of assessed students: 301 abs n 100.0 0.0 **Provides:** Date of last modification: 16.12.2021 Approved: prof. PhDr. Ol'ga Orosová, CSc., prof. RNDr. Peter Kollár, DrSc., prof. RNDr. Ľubomír Kováč, CSc.

Page: 16

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: ÚBEV/ 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 ECTS credits: 2** Recommended semester/trimester of the course: 4. Course level: II. Prerequisities: ÚBEV/MPPc/15 **Conditions for course completion: Learning outcomes: Brief outline of the course: Recommended literature:** Course language: **Notes:** Course assessment Total number of assessed students: 276 abs n 100.0 0.0 **Provides:** Date of last modification: 16.12.2021 Approved: prof. PhDr. Ol'ga Orosová, CSc., prof. RNDr. Peter Kollár, DrSc., prof. RNDr. Ľubomír Kováč, CSc.

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 ECTS 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: **Notes:** Course assessment Total number of assessed students: 229 C Α В D Ε FX 57.64 30.13 8.73 2.62 0.87 0.0

Provides: doc. PaedDr. Renáta Orosová, PhD.

Date of last modification: 12.03.2024

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

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 ECTS 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: **Notes:** Course assessment Total number of assessed students: 0 C В E FX A D 0.0 0.0 0.0 0.0 0.0 0.0 Provides: PhDr. Iveta Bónová, PhD. Date of last modification: 24.06.2022

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

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚBEV/ | Course name: Dendrology

DNR/06

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 ECTS credits: 5

Recommended semester/trimester of the course: 2.

Course level: II.

Prerequisities:

Conditions for course completion:

1. Attending lectures is optional, participation in exercises is mandatory. 2. During the exercises, it is necessary to master the recognition of selected trees and shrubs in their various phenological phases according to significant identifying features (buds, bark, shape of leaves and flowers, habitus) and some species-specific features (cork wings, thorns, prominent pubescence, distinctive color of shoots in winter, etc.). 3. Within the framework of forest tree seed production, it is necessary to master the identification of fruits and seeds of selected taxa of woody plants.

Learning outcomes:

Brief outline of the course:

1. Summary of basic terms within the subject Dendrology. 2. Individual variability of woody plants (morphological, biochemical, biological, technical forms). 3. Geographic variability of woody plants (climate type, edaphotype). 4. Individual ecological requirements of woody plants with a basic overview of taxa (woody plants in shade and sunny conditions, oceanic and continental climate). 5. Special communities of woody plants, their characteristics and overview of the most important taxa. Pioneer woody plants, melioration woody plants, woody plants in ravines and scree, forest-steppe woody plants, floodplain woody plants, peatland woody plants and woody plants of upper forest border. 6. Saving the gene pool of forest trees (generative and clone seed orchards, selected trees and stands). 7. Selected chapters from the seed production of forest trees (external and internal factors of seed production, methods of collecting and technology of seed processing and its subsequent storage). 8. Selected chapters from forest tree seed production (seed lifespan, short-term and long-term seed storage, germination ability and germination process, methods of pre-sowing seed preparation). 9. Introduction of woody plants - definition of the term, phases of introduction. Benefits of introduction and possible environmental risks. 10. Invasive trees, overview and characteristics of the most important taxa. Ecological, economic and health consequences of invasions. 11. The most important dendrological objects in Slovakia (Mlyňany Arboretum, Borová hora Arboretum, Kysihýbel Arboretum, Topoľčianky Castle Park). 12. Introduction to arboriculture, protection and care of trees growing outside the forest. The exercises are aimed at practical recognizing the most important coniferous and deciduous both native and introduced trees. During the summer semester, dealing with woody plants in the winter (in a sterile state), the specific characteristics of woody plants (general habitus of the wood, buds, thorns, specific color of the surface of the branch, pubescence, cork lamellas, etc.). During the growing season, recognizing the shape of the leaves and flowers..

Recommended literature:

Course language:

Notes:

Course assessment

Total number of assessed students: 82

A	В	С	D	Е	FX
71.95	13.41	7.32	7.32	0.0	0.0

Provides: Ing. Peter Kelbel, Dr.

Date of last modification: 19.07.2022

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

	COURSE INFORMATION LETTER
University: P. J. Šafá	rik University in Košice
Faculty: Faculty of S	cience
Course ID: KPPaPZ/VPU/17	Course name: Developmental Psychology for Teachers
Course type, scope a Course type: Practic Recommended cour Per week: 2 Per stu Course method: pre	ce rse-load (hours): dy period: 28 esent
Number of ECTS cr	
	ster/trimester of the course: 1.
Course level: II.	
Prerequisities:	
Conditions for cours Evaluation of particip of seminar work,	se completion: pation in teaching, continuous evaluation of activity in seminars, evaluation
characterize the norr school age and adoles published in foreign the topics covered. T	nderstand the principles of developmental psychology, and will be able to m in separate developmental stages with a specific focus on the period of scence. As part of the seminar work, a students will process current knowledge journals. They will have a knowledge about the current social discourse on the graduate will be able to consider various aspects of the possible influence s on the development of piupils and apply the knowledge of developmental actice of the teacher.
Socialization in sepa in the period of sch development. Applic - communication wi	ourse: actors of development, cognitive development, personality development. rate developmental stages (family, peers, school). Specifics of development aool age, in pubescence and adolescence. Parents and their role in child ration of knowledge of developmental psychology in the teacher's practice of the students in different developmental stages, creating a teacher-student opect to the development needs of the student.
Říčan, P. Cesta živote Thorová, K. Vývojov Macek, P. Adolescene Matějček, Z rôzne Bačíková, M. Psycho	jová psychologie. Portál, Praha 2000 em. Portál, Praha, 2004. rá psychologie. Portál, Praha, 2015. ce. Praha: Portál, 2003
Course language:	

Notes:

Course assessment					
Total number of assessed students: 109					
Α	В	С	D	Е	FX
77.98	15.6	3.67	2.75	0.0	0.0

Provides: doc. Mgr. Mária Bačíková, PhD.

Date of last modification: 24.06.2022

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

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

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

DF1/22

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 ECTS credits: 4

Recommended semester/trimester of the course: 2.

Course level: II.

Prerequisities:

Conditions for course completion:

semester work:

elaborated online assignments in lms.upjs.sk

analysis of model methodologies

elaboration and presentation of own educational activity

oral examination:

clarification of two topics from subject didactics

clarification of the thematic unit

presentation of model methodology

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:

e- version of schoolbook Physics for lower secondary school

Course language:

Slovak, English

Notes:

Course assessment

Total number of assessed students: 27

A	В	С	D	Е	FX
66.67	29.63	3.7	0.0	0.0	0.0

Page: 24

Provides: doc. RNDr. Marián Kireš, PhD., RNDr. Katarína Kozelková, PhD.

Date of last modification: 07.09.2021

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

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

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

DF2/22

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 ECTS credits: 4

Recommended semester/trimester of the course: 3.

Course level: II.

Prerequisities: ÚFV/DF1/22

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

Notes:

Course assessment

Total number of assessed students: 27

A	В	С	D	Е	FX
77.78	11.11	7.41	0.0	0.0	3.7

Provides: doc. RNDr. Marián Kireš, PhD., RNDr. Katarína Kozelková, PhD.

Date of last modification: 07.09.2021

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

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 ECTS credits: 6

Recommended semester/trimester of the course: 2.

Course level: II.

Prerequisities: KPPaPZ/PPgU/15 or KPE/DPP/14 or KPE/PDU/15

Conditions for course completion:

It is a profiling subject with compulsory participation in exercises. The activity at the output of the lecture, the developed and continuously submitted solutions to assignments from the exercises and the final project according to the assignment at the beginning of the semester are evaluated. The final exam is oral. The share of the grade from the evaluated activities on the final grade: 10% - Average points for completed assignments (min. 8 points/item) is counted as the value of the grade A for an average of 9-10 b. as B for average 8-9 b. For a lower average value after correction: average 7-8 b. = C, 6-7 b. = D, 5-6 b. = E. 10% - Output at the lecture. 20% - semester project (evaluation is part of the evaluation form). 60% - the result of the final oral exam. Conversion of points to a grade: A 95 - 100 B 85 - 94 C 65 - 84 D 55 - 64 E 50 - 54 FX 0 - 49 The resulting grade is calculated as a weighted average according to the standard value of classification grades A to E.

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:

- 1 Didactics of biology in the system of sciences
- 2 Domains of biology education
- 3 Biology standards
- 4 Curriculum and textbooks in SR
- 5 Biological sciences
- 6 Complex of didactic tools of biology
- 7 Hands-on education as an educational concept
- 8 Teaching organization forms
- 9 Lesson preparation
- 10 Principles of knowledge
- 11 Formative and summative evaluation in biology
- 12 Biological educational strategies
- 13 Teaching aids of biology
- 14 School garden and the environment corner at school

15 Biological excursion

16 Working with talents and biological competitions for students

Recommended literature:

Katarína Kimáková Sprievodca didaktikou biológie, 2022 Šafárik press UPJŠ v Košiciach https://unibook.upjs.sk/img/cms/2022/sprievodca-didaktikou-biologie.pdf

Ganajová, M. a kol. Formatívne hodnotenie vo výučbe prírodných vied, matematiky a informatiky. Košice: Univerzita Pavla Jozefa Šafárika v Košiciach, 2021. ISBN 9788081529733. Ganajová a kol. Formatívne hodnotenie a jeho implementácia do výučby prírodných vied, matematiky a informatiky. Bratislava: Wolters Kluwer SR, 2022. Školstvo. ISBN 9788057104834.

Samuel Kai Wah Chu · Rebecca B. Reynolds, Nicole J. Tavares · Michele Notari, Celina Wing Yi Lee 21st Century Skills Development Through Inquiry Based Learning From Theory to Practice, Springer 2017 https://link.springer.com/content/pdf/10.1007/978-981-10-2481-8.pdf

Kimáková, K.: Úvod do štúdia didaktiky biológie, elektronický študijný text, 2008

Kireš, M., Ješková, Z., Ganajová, M, Kimáková K.. Bádateľské aktivity v prírodovednom vzdelávaní, ŠPÚ 2016

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:

SK, EN

Notes:

Course assessment

Total number of assessed students: 660

A	В	С	D	Е	FX
52.73	29.24	14.39	3.48	0.15	0.0

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

Date of last modification: 12.02.2024

Approved: prof. PhDr. Ol'ga Orosová, CSc., prof. RNDr. Peter Kollár, DrSc., prof. RNDr. Ľubomír Kováč, CSc.

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: ÚFV/ Course name: Diploma Project I DDP1/22 Course type, scope and the method: **Course type: Recommended course-load (hours):** Per week: Per study period: Course method: present **Number of ECTS credits: 2 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 Notes: Course assessment Total number of assessed students: 2 abs n 100.0 0.0 **Provides:** Date of last modification: 15.02.2022

Ľubomír Kováč, CSc.

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

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: ÚFV/ Course name: Diploma Project II **DDP2/22** Course type, scope and the method: **Course type:** Recommended course-load (hours): Per week: Per study period: Course method: present **Number of ECTS credits: 3 Recommended semester/trimester of the course:** 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 **Notes:** Course assessment Total number of assessed students: 2 abs n 100.0 0.0 **Provides:** Date of last modification: 15.02.2022 Approved: prof. PhDr. Ol'ga Orosová, CSc., prof. RNDr. Peter Kollár, DrSc., prof. RNDr.

	COURSE INFORMATION LETTER					
University: P. J. Šafá	rik University in Košice					
Faculty: Faculty of Science						
Course ID: ÚBEV/ DPP2/22	1 3					
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present						
Number of ECTS cr	edits: 3					
Recommended seme	ster/trimester of the cours	e: 2.				
Course level: II.						
Prerequisities:						
Regular acquaintance	Conditions for course completion: Regular acquaintance of the supervisor with the research process, regular consultations, study of the literature on the topic, first results and, if necessary, modification of the project.					
Learning outcomes: The student practically manages the necessary methodology and obtained the first results. He reports on them at the seminar of the department, where the assignment of the diploma thesis is announced.						
Brief outline of the course: Data collection to verify hypotheses, study of current literature.						
Recommended literature: Recommended professional literature on a specific topic of the diploma thesis is a part of the diploma thesis assignment. Methodological guideline 14/2009-R of 27 August 2009 on the requisites of final theses, their bibliographic registration, control of originality, storage and access, including annexes; Decree of the Ministry of Education of the Slovak Republic of 15 March 2010 no. MŠSR-5 / 2010-071 on the model of the cover and title page of the final, rigorous and habilitation thesis and the format of the exchange of data on the final, rigorous and habilitation thesis; Directive no. 1/2011 on the basic requirements of final theses, rigorous theses and habilitation theses, their publication and making available during their preservation and control of originality valid for Pavel Jozef Šafárik University in Košice and its components; Supplement no. 1 and no. 2 to Directive no. 1/2011 Template for the creation of ZP in dot and dotx format on the CRZP website (Central Register of Final Theses)						
Course language:						
Notes:						
Course assessment Total number of assessed students: 22						
	abs	n				

0.0

100.0

Provides:

Date of last modification: 13.05.2022

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

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: ÚFV/ Course name: Diploma Project III DDP3/22 Course type, scope and the method: **Course type: Recommended course-load (hours):** Per week: Per study period: Course method: present **Number of ECTS credits: 3** Recommended semester/trimester of the course: 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 Notes: Course assessment Total number of assessed students: 5 abs n 100.0 0.0 **Provides:** Date of last modification: 15.02.2022

Page: 34

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

	COURSE IN ORMATION LETTER
University: P. J. Šafár	rik University in Košice
Faculty: Faculty of So	cience
Course ID: ÚBEV/ DPP3/22	Course name: Diploma Project III
Course type, scope and Course type: Recommended course recommended course method: pre	rse-load (hours): y period:
Number of ECTS cre	
Recommended semes	ster/trimester of the course: 3.
Course level: II.	
Prerequisities:	
	e completion: s on the progress and results of the project with the thesis supervisor. inar on a diploma project with preliminary results.
aids. He has the data t	d the obtained data and / or verified the created methodological materials or to process the theoretical part of his thesis and to confirm / refute hypotheses sions. He begins to formulate the text of his diploma thesis and continues to information.
Brief outline of the co	
diploma thesis assignate requisites of final these access, including annual 15 March 2010 no. Marigorous and habilitation thesis theses and habilitation and control of original Supplement no. 1 and dotx format on the CF	sional literature on a specific topic of the diploma thesis is a part of the ment. Methodological guideline 14/2009-R of 27 August 2009 on the sees, their bibliographic registration, control of originality, storage and exes; Decree of the Ministry of Education of the Slovak Republic of SSR-5 / 2010-071 on the model of the cover and title page of the final, ion thesis and the format of the exchange of data on the final, rigorous in theses, their publication and making available during their preservation lity valid for Pavel Jozef Šafárik University in Košice and its components; no. 2 to Directive no. 1/2011 Template for the creation of ZP in dot and RZP website (Central Register of Final Theses)
Course language: SK, EN	

Notes:

Course assessment				
Total number of assessed students: 40				
abs	n			
100.0	0.0			
Provides:				
Date of last modification: 13.05.2022				
Approved: prof. PhDr. Ol'ga Orosová, CSc., prof. RNDr. Peter Kollár, DrSc., prof. RNDr. Ľubomír Kováč, CSc.				

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚFV/ Cour

Course name: Diploma Thesis and its Defence

DPOU/22

Course type, scope and the method:

Course type:

Recommended course-load (hours):

Per week: Per study period: Course method: present

Number of ECTS credits: 14

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:

Notes:

Course assessment

Total number of assessed students: 3

A	В	С	D	Е	FX
66.67	33.33	0.0	0.0	0.0	0.0

Provides:

Date of last modification: 15.02.2022

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

Ľubomír Kováč, CSc.

Page: 37

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚBEV/ | Course name: Diploma Thesis and its Defense

ODP/22

Course type, scope and the method:

Course type:

Recommended course-load (hours):

Per week: Per study period: Course method: present

Number of ECTS credits: 14

Recommended semester/trimester of the course:

Course level: II.

Prerequisities: ÚBEV/DPP3/22

Conditions for course completion:

The diploma thesis is the result of the student's own creative work. It must not show elements of academic fraud and must meet the criteria of good research practice defined in the Rector's Decision no. 21/2021, which lays down the rules for assessing plagiarism at Pavel Jozef Šafárik University in Košice and its components. Fulfillment of the criteria is verified mainly in the training process and in the process of job defense. Failure to do so is grounds for disciplinary action.

Learning outcomes:

With the diploma thesis the student demonstrates mastery of extended theory and professional terminology of the field of study, acquisition of knowledge, skills and competences in accordance with the declared profile of the graduate of the study program, as well as the ability to apply them in an original way. The student demonstrates the ability of independent professional work in terms of content, formal and ethical. Further details of the diploma thesis are determined by Directive no. 1/2011 on the basic requirements of final theses and the Study Regulations of UPJŠ in Košice for the 1st, 2nd and joint 1st and 2nd degree.

Brief outline of the course:

Preparation and submission of the diploma thesis to the CRZP.

Submission of the printed version to the opponent.

Presentation of work results and answers to opponents' questions.

Qualified discussion on the topic with the commission for master's state final exams.

Recommended literature:

Listed in the approved thesis assignment.

Course language:

Notes:

Course assessment

Total number of assessed students: 15

A	В	С	D	Е	FX
86.67	13.33	0.0	0.0	0.0	0.0

Page: 38

Provides:

Date of last modification: 13.05.2022

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

	COURSE INFORMATION LETTER
University: P. J. Šafár	ik University in Košice
Faculty: Faculty of So	cience
Course ID: ÚBEV/ DPP1/22	Course name: Diploma project I
Course type, scope and Course type: Recommended course recommended course method: pre	rse-load (hours): y period:
Number of ECTS cre	edits: 2
Recommended semes	ster/trimester of the course: 1.
Course level: II.	
Prerequisities:	
research plan. Active	e completion: of the supervisor with the progress on the agreed tasks. Submission of a participation in seminars organized for diploma projects implemented at the topic of the project and the assignment of the diploma thesis are listed.
questions and has a re the diploma project at on a topic listed at Al	rered the theoretical preparation for the assigned topic, formulates research esearch plan, or the first preliminary results. The student can also implement a workplace outside the UPJŠ under the guidance of an expert from practice, PU ÚBEV PF UPJŠ in Košice. He also has a job consultant at ÚBEV, he is tion with experts in electronic and face-to-face form.
Brief outline of the co	ourse: on, study of literature, preparation of materials for hypothesis testing.
diploma thesis assignt requisites of final thes access, including anno 15 March 2010 no. M rigorous and habilitat and habilitation thesis theses and habilitation and control of origina Supplement no. 1 and dotx format on the CF	sional literature on a specific topic of the diploma thesis is a part of the ment. Methodological guideline 14/2009-R of 27 August 2009 on the ses, their bibliographic registration, control of originality, storage and exes; Decree of the Ministry of Education of the Slovak Republic of SSR-5 / 2010-071 on the model of the cover and title page of the final, ion thesis and the format of the exchange of data on the final, rigorous in theses, their publication and making available during their preservation lity valid for Pavel Jozef Šafárik University in Košice and its components; no. 2 to Directive no. 1/2011 Template for the creation of ZP in dot and RZP website (Central Register of Final Theses)
Course language:	

Notes: SK, EN

Course assessment Total number of assessed students: 32	
abs	n
100.0	0.0
Provides:	
Date of last modification: 13.05.2022	
Approved: prof. PhDr. Ol'ga Orosová, CSc., pro Ľubomír Kováč, CSc.	of. RNDr. Peter Kollár, DrSc., prof. RNDr.

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 ECTS credits: 4

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

Course level: II.

Prerequisities:

Conditions for course completion:

1st part of the semester evaluation: active participation in the training part (30p). 2nd part of the semester evaluation: active participation in workshops (20p) 3rd part of the semester evaluation - preparation (10p) and implementation (10p) of block activities (20p, minimum 11 points). 4th part of the evaluation - written knowledge exam (20p, minimum 11 points). In total, students can get 90p and the final grade is as follows: 90 - 82: A 81 - 73: B 72 - 66: C 65 - 59: D 58 - 54: E 53 and less: FX. Detailed information in the electronic bulletin board of the course in AIS2. The teaching of the subject will be realized by a combined method.

Learning outcomes:

The student understands principals of research data based prevention of risk behavior, can describe and explain the determinants of risk behavior as well as protective and risk factors for substance use. Understands and adequately interprets the theory explaining the background of substance and non-substance addictions.

The student is also able to state and classify the types and forms of prevention, strategies and approaches in prevention, can distinguish effective strategies from ineffective ones.

The student is able to apply the learned rules, procedures and competencies for the work of a teacher in the field of drug use prevention, as well as the acquired professional skills for the work of a teacher and prevention coordinator at school.

Brief outline of the course:

Psychological, pedagogical-psychological, medical and legal-forensic aspects of substance use prevention

Prevention of substance use based on risk and resilience

Primary, secondary and tertiary prevention of substance use

Universal, selective and indicated prevention of substance use

Effective substance prevention strategies based on research data

Preparation and implementation of components of effective substance use prevention programs

Recommended literature:

Orosová, O. a kol. (2012). Základy prevencie užívania drog a problematického používania internetu v školskej praxi. Košice: UPJŠ.

Sloboda, Z., & Bukoski, J. (Eds.). (2006). Handbook of Drug Abuse Prevention: Theory, Science, and Practice. New York: Springer.

National and international scientific journals.

Course language:

slovak

Notes:

Course assessment

Total number of assessed students: 419

A	В	С	D	Е	FX
50.84	41.29	7.16	0.72	0.0	0.0

Provides: prof. PhDr. Ol'ga Orosová, CSc., Mgr. Lucia Barbierik, PhD., Mgr. Viera Čurová, PhD., Mgr. Janka Liptáková

Date of last modification: 24.06.2022

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

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 ECTS 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:**

Notes:

Course assessment

Course language:

Total number of assessed students: 233

A	В	С	D	Е	FX
73.82	16.31	6.44	2.58	0.86	0.0

Provides: PhDr. Anna Janovská, PhD.

Date of last modification: 24.06.2022

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

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 ECTS 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:

Notes:

Course assessment

Total number of assessed students: 700

A	В	С	D	Е	FX
56.14	24.14	11.14	5.14	2.71	0.71

Provides: PaedDr. Michal Novocký, PhD.

Date of last modification: 12.03.2024

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

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 ECTS credits: 6

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

Course level: II.

Prerequisities:

Conditions for course completion:

Fulfilled conditions for the exercises Successfully completed oral exam

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

DRICKMER, L.C., VESSEY, S.H., MEIKLE, D. Animal Behavior: mechanisms, ecology, evolution. 4th ed. Dubuque: Wm. C. Brown Publishers, 1996.

Internet

Course language:

Notes:

Course assessment

Total number of assessed students: 1119

A	В	С	D	Е	FX
42.98	24.4	22.97	7.95	1.61	0.09

Provides: RNDr. Igor Majláth, PhD., RNDr. Natália Pipová, PhD.

Date of last modification: 22.09.2023

Approved: prof. PhDr. Ol'ga Orosová, CSc., prof. RNDr. Peter Kollár, DrSc., prof. RNDr. Ľubomír Kováč, CSc.

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: CIB/ Course name: Evolúcia človeka EVČ/21 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 ECTS 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: **Notes:** Course assessment Total number of assessed students: 0 \mathbf{C} Α В D Е FX 0.0 0.0 0.0 0.0 0.0 0.0 Provides: doc. RNDr. Martin Kundrát, PhD. Date of last modification: 09.02.2021

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

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 ECTS 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:

Notes:

Course assessment

Total number of assessed students: 410

A	В	С	D	Е	FX
44.63	37.8	13.66	3.66	0.24	0.0

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

Date of last modification: 12.03.2024

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

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚBEV/ | Course name: General Microbiology

VMK/22

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 ECTS credits: 4

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 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:

Notes:

Course assessment

Total number of assessed students: 235

A	В	С	D	Е	FX
62.55	20.85	11.49	4.26	0.85	0.0

Provides: doc. RNDr. Peter Pristaš, CSc., RNDr. Mária Piknová, PhD., RNDr. Mariana

Kolesárová, PhD., RNDr. Lenka Maliničová, PhD.

Date of last modification: 16.12.2021

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

Ľubomír Kováč, CSc.

Page: 50

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: ÚGE/ Course name: Geology GEOB/22 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 ECTS 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: **Notes:** Course assessment Total number of assessed students: 304 C Α В D Е FX 26.97 32.89 27.3 9.87 2.96 0.0

Provides: doc. Ing. Katarína Bónová, PhD.

Date of last modification: 30.10.2021

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

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 ECTS credits: 2

Recommended semester/trimester of the course: 3.

Course level: II.

Prerequisities: ÚBEV/DIB1/03

Conditions for course completion:

Active participation in exercises. The preparation and presentation of a self-planned school experiment and its didactic commentary at the end of the course are evaluated.

Learning outcomes:

Graduates of the course will gain practical experience with the implementation of school experiments and modeling of geological processes and phenomena. At the same time, they will learn the procedures of student research focused on the issue of environmental components and the need for nature protection using digital technologies.

Graduates will be able to choose a suitable form for the interpretation of geological and ecological curriculum and

methods

Brief outline of the course:

Components of the environment in SEP - Specifics of didactics of geology - Environmental education in biology as part of a cross-cutting theme - Elaboration of thematic units focused on the inanimate

nature and ecology in biology textbooks - Motivation of students to protect nature - Research topics for students' work - Modeling of phenomena and processes in the environment - Active involvement pupils in nature protection - Pupils' environmental projects - Educational walks and excursions

Recommended literature:

Course language:

Notes:

Course assessment

Total number of assessed students: 29

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

Provides: RNDr. Ivana Slepáková, PhD.

Date of last modification: 05.04.2023

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

	COURSE INFORMATION LETTER
University: P. J. Šafá	rik University in Košice
Faculty: Faculty of S	cience
Course ID: KPPaPZ/PsZ/15	Course name: Health Psychology
Course type, scope a Course type: Practic Recommended cour Per week: 2 Per stu Course method: pre	ce rse-load (hours): dy period: 28 esent
Number of ECTS cr	
	ster/trimester of the course: 3.
Course level: II.	
Prerequisities:	
Conditions for cours Active participation i	e completion: n seminars, preparation and presentation of seminar work, final evaluation
Psychology as well a of individuals and so psychology, will be f	e is to provide students with the latest knowledge and background of Health s forms of its application in order to improve the mental and physical health ociety. The graduate of the course will understand the principles of health familiar with the current social discourse on the topics covered. The student equired knowledge in school practice.
2. Mental health and 3. Physiological aspe 4. Stress. Coping, res 5. Psychosomatic dis 6. Social support and 7. Burnout syndrome 8. The meaning of lif 9. Health-related behavior	Definition of health. Bio-psycho-social model of health. quality of life, well being. cts of mental health, lifestyle ilience. eases, placebo. its importance for health.
Recommended litera	iture:
Křivohlavý, J.: Psych Kebza, V.: Psychosoc Křivohlavý, J.: Psych Sarafino, E.P.: Health Taylor, E.: Health Psy Vollrath M.E.: Handb	piologie zdraví. Praha: Portál, 2001 piální determinanty zdraví. Praha: Academia, 2005 piologie nemoci. Praha: Grada, 2002 prespector Praha: Grada, 2002 prespector Praha: Grada, 2002 prespector Praha: Academia, 2005 proposition Praha: Academia, 2006 proposition Praha: Academia,
Course language:	

Notes:

Course assessment							
Total number of assessed students: 118							
Α	В	С	D	Е	FX		
100.0	0.0	0.0	0.0	0.0	0.0		

Provides: doc. Mgr. Mária Bačíková, PhD.

Date of last modification: 22.06.2022

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

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚBEV/ | Course name: History of Biology Seminar

SBD/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 ECTS credits: 3

Recommended semester/trimester of the course: 1.

Course level: I., II.

Prerequisities:

Conditions for course completion:

Learning outcomes:

Introduction to history of science, especially biology

Brief outline of the course:

Introduction to history of biology (and related scientific areas) from ancient times, through middle ages to present.

Recommended literature:

Magner, L.N. (2002) A history of the life sciences. Marcel Dekker, Inc.

Course language:

Notes:

Course assessment

Total number of assessed students: 487

A	В	С	D	Е	FX
97.54	2.26	0.21	0.0	0.0	0.0

Provides: prof. RNDr. Martin Bačkor, DrSc.

Date of last modification: 03.05.2015

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

Ľubomír Kováč, CSc.

Page: 56

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 ECTS 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:

Notes:

Course assessment

Total number of assessed students: 1054

A	В	С	D	Е	FX
39.75	23.81	23.72	7.12	1.99	3.61

Provides: RNDr. Vlasta Demečková, PhD., univerzitná docentka

Date of last modification: 22.09.2023

Approved: prof. PhDr. Ol'ga Orosová, CSc., prof. RNDr. Peter Kollár, DrSc., prof. RNDr. Ľubomír Kováč, CSc.

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚBEV/ | **Course name:** Informatics in Biology

IB/22

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 ECTS credits: 2

Recommended semester/trimester of the course: 3.

Course level: II.

Prerequisities:

Conditions for course completion:

Elaboration of an evaluated assignment for each of the three thematic units: image analysis, modeling, databases.

Learning outcomes:

The graduate of the course will be ready to teach the optional course Informatics in Natural Sciences and Mathematics at the secondary school.

Brief outline of the course:

Imaging methods in biology (analysis of digital image of biological objects, detection of the number of particles (eg blood cells), measurement of lengths and areas, processing of acquired data)

Modeling (coaching modeling and working with ready-made Python programs: spread of infection, impact of vaccination, cell culture growth, tumor growth, forest development, predator prey relationship)

Biological databases (working with big data, data filtering, animal migration monitoring, species identification applications)

Recommended literature:

Kimáková, K. Mišianiková, A. Andrejková G.: Informatika v prírodných vedách a matematike, Zošit biológia, Centrum vedecko-technických informácií SR, Bratislava 2020, ISBN:

978-80-89965-72-4 EAN: 9788089965724

Course language:

Notes:

Course assessment

Total number of assessed students: 10

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

Provides: RNDr. Anna Mišianiková, PhD., doc. RNDr. Katarína Kimáková, CSc.

Date of last modification: 13.05.2022

Approved: prof. PhDr. Ol'ga Orosová, CSc., prof. RNDr. Peter Kollár, DrSc., prof. RNDr. Ľubomír Kováč, CSc.

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: Course name: Introdu

KPPaPZ/UPN/17

Course name: Introduction into Psychology of Religion

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 ECTS credits: 2

Recommended semester/trimester of the course: 2.

Course level: II.

Prerequisities:

Conditions for course completion:

The assessment is based on the interim evaluation. The subject will be taught in both present and distance format. Up-to-date information concerning the subject for the given academic year can be found on the electronic board of the subject in the Academic information system of the UPJŠ.

Learning outcomes:

The student wil acquire a basic overview of the origin and current state of knowledge in the field of research and application the psychology of religion. He/she will be able to described, explaine, and evaluate this knowledge. The student will be able to apply the acquired knowledge in the basic orientation in the field, and develop critical thinking and will be able to apply and integrate already acquired knowledge from other (psychological) distributions

Brief outline of the course:

- 1. History of psychology of religion in national and world context
- 2. Psychological perspective on religion and religious experience
- 3. Psychology of religion in an interdisciplinary context
- 4. Basic approaches to psychological interpretation and selected views
- 5. Different types of religious experience
- 6. Psychological view of religion from a biodromal perspective
- 7. Spirituality versus religiosity in a postmodern society
- 8. Coping in the context of religiosity
- 9. Psychotherapy and religion, pastoral psychology

Recommended literature:

Eliade, M. (1994). Posvátné a profánní. Praha: Česká křesťanská akademie.

Eliade, M. (1995). Dějiny náboženského myšlení 1. Praha: Oikoymenh.

Freud, S. (1999). Nutkavá jednání a náboženské úkony. In Freud, S., Spisy z let 1906–1909.

Praha: Psychoanalytické nakladatelství.

Fromm, E. (2003). Psychoanalýza a náboženství. Praha: Aurora

Erikson, E. (1996). Mladý muž Luther: studie psychoanalytická a historická. Praha:

Psychoanalytické nakladatelství.

James, W. (1930). Druhy náboženské zkušenosti. Praha: Melantrich.

Jung, C. G. (1993). Analytická psychologie: Její teorie a praxe. Praha: Academia.

Křivohlavý, J. (2000). Pastorální péče. Praha: Oliva

Pargament, K. (1997), Psychology of religion and coping,

Říčan, P. (2007). Psychologie náboženství a spirituality. Praha: Portál.

Říčan P. (2002), Psychologie náboženství, Portál, Praha,

Stríženec, M. (2001) Súčasná psychológia náboženstva

Course language:

Notes:

Course assessment

Total number of assessed students: 77

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

Provides: Mgr. Jozef Benka, PhD.

Date of last modification: 24.06.2022

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

University: P. J. Šafá	rik University in Košice
Faculty: Faculty of S	cience
Course ID: ÚBEV/ VEK1/03	Course name: Introduction to Ecology
Course type, scope a Course type: Lectur Recommended cour Per week: 3 Per stu Course method: pre	re rse-load (hours): dy period: 42
Number of ECTS cr	edits: 3
Recommended seme	ster/trimester of the course: 1.
Course level: I., II.	
Prerequisities:	
Conditions for cours oral examination	e completion:
1 -	eters and relations in ecological science. Abiotic, biotic and anthropogenic and terrestrial/soil environment. Autecology, Demecology and Synecology. re Protection.
on individuals (morp ecosystems (impact a 1. Basic ecological to water). 3. Air envir pollutants, organisms properties physical a saprobity, aquatic o profile, humus layer of Populations, struct quantitative communications	nd relations in environment (air, water, soil); influence of ecological factors phological adaptations, behavioral reactions); populations and communities; assessment); conservation and biodiversity. The erms. 2. Characterisation of the basic ecological factors (light, temperature, conment (composition of atmosphere, physical and chemical factors, air and their adaptations in air environment). 4. Aquatic environment (water and chemical factors, gases in water, water pollutants, eutrophication and arganisms). 5. Soil environment (physical and chemical properties, soil , soil pollutants, soil organisms and their adaptations). 6. Characterization eture and ppuatin dynamics. 7. Biocenoses and biotops. 8. Qualitative and nity characteristics. 9. Ecosystems. 10. Biomes and their characteristics, ors affecting biodiversity, Species-Area relationships. 12. Biodiversity
Recommended litera Begon, M., Harper, J Blackwell Sci. Publ.,	. L., Townsend, C. L.: Ecology: individuals, populations, and communities.
Course language:	

Notes:

Course assessment							
Total number of assessed students: 1825							
Α	В	С	D	Е	FX		
20.99	17.64	24.93	17.21	11.73	7.51		

Provides: RNDr. Natália Raschmanová, PhD., doc. RNDr. Marcel Uhrin, PhD., univerzitný profesor

Date of last modification: 16.03.2023

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

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: Course name: Introduction to Research Methodoly in Education and

KPPaPZ/ZMPPV/15 | Psychology

Course type, scope and the method: Course type: Lecture / Practice

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

Course method: present

Number of ECTS credits: 4

Recommended semester/trimester of the course: 2.

Course level: II.

Prerequisities: KPPaPZ/PPgU/15 and KPE/PDU/15

Conditions for course completion:

- active participation in seminars, presentation of assignments in groups, final exam

Learning outcomes:

The graduate of the course will gain information about the research methodology, will understand the basic methods of pedagogical and psychological research that can be used in the practice of the teacher. Within the seminars, students will develop professional skills through their own demonstration of a specific research method. The graduate of the course will be able to carry out simple scientific research, present the results of research and read the results of the latest research in the field of pedagogy and psychology.

Brief outline of the course:

Research in pedagogy and psychology. Scientific research, scientific thinking. Parts of a research project. Research planning. Topic selection, research problem formulation. Types of research plans. Hypothesis, variables, operationalization. Ethical issues of scientific research. Experiment (experiment problems, control of variables in the experiment). Experimental plans, quasi-experiment. Reliability and validity of research. Research sample, methods of sample selection. Data collection techniques - questionnaire, interview, sociometry, semantic differential, observation, tests. Introduction to qualitative methodology. Possibilities of quantitative data processing. How to write a scientific article, presentation, poster, qualification work. Interpretation of findings, integration of findings into context.

Recommended literature:

Bačíková, M., Janovská, A., Orosová, O. Základy metodológie pedagogicko-psychologického výskumu. 2.doplnené vydanie. Šafárik Press, 2019. dostupné online: https://unibook.upjs.sk/img/cms/2019/FF/zaklady-metodologie-ped-psych-vyskumu-2-vyd-web.pdf

Gavora, P.: Úvod do pedagogického výskumu. Bratislava, UK 1999.

Švec, Š. a kol.: Metodológia vied o výchove. Bratislava, Iris 1998. Turek, I.: K základom pedagogického výskumu. Prešov, KPÚ 1991.

Ferjenčík, J.: Úvod do metodológie psychologického výskumu. Praha, Portál 2000.

http://www.e-metodologia.fedu.uniba.sk/

Course language:

Notes: Course assessment Total number of assessed students: 720 A B C D E FX 19.44 26.81 24.86 19.72 9.03 0.14

Provides: doc. Mgr. Mária Bačíková, PhD., PhDr. Anna Janovská, PhD.

Date of last modification: 24.06.2022

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

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚFV/ | Course name: Modern Didactical Technology

MDT/19

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 ECTS credits: 2

Recommended semester/trimester of the course: 2.

Course level: II.

Prerequisities:

Conditions for course completion:

Summary evaluation based on ongoing assessment:

- 1. Active participation at the seminars (in the contact or online form) with minimum 80% participation.
- 2. Practical ongoing assignments (10) and their defense. At least 50% must be obtained from each assignment elaborated according to assessment criteria.

Learning outcomes:

Student graduated from subject will be able:

- recognize current available digital tools and their parameters for educational activities,
- to use all types of actual digital tools in education of science or humanities,
- to design and realize educational activities by using the modern technologies.

Brief outline of the course:

- 00. Introduction goals and didactic principles
- 01. Modern hybrid classroom in 21st century
- 02. Digital learning spaces in 21st century
- 03. Cloud repositories, services, modern web-browser
- 04. Cloud editors for notes, texts, spreadsheets and presentations
- 05. Digital text (scan, OCR, voice recognition, Kami pdf)
- 06. Digital image and audio (digital recording and editing)
- 07. Interactive E-voting and videoconference systems in education
- 08. Digital collaborative technologies (social e-reader, collaborative whiteboard)
- 09. Virtual and digitally based experiments, digital databases
- 10. Education video (digital recording and editing)
- 11. Smartphone and tablet in classic and blended education
- 12. Teaching tools and digital teacher's workspace

Recommended literature:

- 1. Kireš, M. et al.: Modern didactical technics in teacher practice (in Slovak), Košice: Elfa, 2010
- 2. Redecker, C., & Punie, Y. (2017). European Framework for the Digital Competence of

Educators: DigCompEdu. Luxembourg: Publications Office of the European Union.

- 3. C. R. Tucker, T. Wycoff, J. T. Green, Blended Learning in Action: A Practical Guide Toward Sustainable Change. Thousand Oaks: Corwin Press, 2016.
- 4. D. Bannister, Guidelines on Exploring and Adapting: LEARNING SPACES IN SCHOOLS. Brussels: European Schoolnet, 2017.
- 5. current information from web sites related to didactical technologies, catalogues of teaching tools,

current articles about modern trends in science and humanities education.

Course language:

Slovak, English

Notes:

Course assessment

Total number of assessed students: 99

A	В	С	D	Е	FX
53.54	29.29	12.12	3.03	2.02	0.0

Provides: doc. RNDr. Jozef Hanč, PhD.

Date of last modification: 07.07.2022

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

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚFV/ | 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 ECTS credits: 3

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

Course level: II.

Prerequisities:

Conditions for course completion:

Summary evaluation based on ongoing assessment:

- 1. Practical ongoing assignments (at least 50% needed)
- 3. Active participation during face-to-face contact learning in classical or virtual classroom (3 absences allowed) and during online learning (no absence, uploading all ongoing assignments)

Learning outcomes:

Student should

- 1. Achieve better conceptual understanding and 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. Get physical intuition and experience dealing with practical applications of modern physics.

Brief outline of the course:

- 01.-05. Fundamental ideas of modern mechanics: scales, symmetry, event, worldline, spacetime diagram, principle of least action, conservation laws; practical applications.
- 06.-09. Fundamental ideas of relativity: principle of relativity, space-time interval, conservation of momenergy, metrics, principle of maximal aging; practical applications.
- 10.-13. 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, Unit Q, Unit R, 3trd ed., Mc Graw Hill, Boston, 2017
- 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. Taylor, Wheeler, Bertschinger, Exploring Black Holes Introduction to General relativity, 2nd ed., 2018, https://archive.org/details/exploringblackholes
- 6. Thorne, K. S., Black Holes and Time Warps, W.W. Norton, New York, 1995
- 7. Relevant resources from recent journal literature (American Journal of Physics, European Journal of Physics, Scientific American...)

Course language:

Slovak

Notes:

Course assessment

Total number of assessed students: 5

Total hamber of appended statemen.							
A	В	С	D	Е	FX		
40.0	40.0	20.0	0.0	0.0	0.0		

Provides: doc. RNDr. Jozef Hanč, PhD.

Date of last modification: 27.01.2022

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

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 ECTS 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: **Notes:** Course assessment Total number of assessed students: 179 C Α В D Е FX 75.98 22.35 1.68 0.0 0.0 0.0 Provides: Mgr. Katarína Petríková, PhD. Date of last modification: 12.03.2024

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

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 ECTS 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: **Notes:** Course assessment Total number of assessed students: 86 C Α В D Е FX 83.72 11.63 4.65 0.0 0.0 0.0 Provides: Mgr. Beáta Sakalová

Date of last modification: 12.03.2024

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

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: KPE/

Course name: Pedagogy

PD/22

Course type, scope and the method:

Course type:

Recommended course-load (hours):

Per week: Per study period: Course method: present

Number of ECTS credits: 2

Recommended semester/trimester of the course:

Course level: II.

Prerequisities: KPE/PDU/15

Conditions for course completion:

Obtaining the required number of credits in the prescribed composition by the study plan.

Learning outcomes:

The student is able to demonstrate the acquired competencies in accordance with the profile of the graduate.

Brief outline of the course:

- 1. Pedagogy, basic pedagogical categories, system of pedagogical scientific disciplines.
- 2. Education, pages and functions of education, educational process, self-education.
- 3. Factors of education, educated individual, pedagogue, pedagogical profession, professional competencies.
- 4. School education, family education.
- 5. Educational goals, taxonomy, requirements, classification of educational goals.
- 6. Methods of education.
- 7. Pedagogical principles.
- 8. School system of the Slovak Republic.
- 9. Didactics, basic questions of didactics, current starting points of didactics.
- 10. Objectives of the teaching process, the teacher's work with the objectives of teaching.
- 11. Content of education, basic curriculum, extension curriculum, elements and components of curriculum.
- 12. Assessment in school education, types, functions and criteria of assessment.
- 13. Pedagogical control, methods and forms of pedagogical control.
- 14. Teacher's work planning, written preparation of the teacher for teaching.
- 15. Teaching process, stages of the teaching process and their didactic functions.
- 16. Organizational forms of teaching, lesson, stages, types of lessons.
- 17. Teaching methods, classification, functions, selection of teaching methods.
- 18. Didactic principles of the teaching process.
- 19. Basic pedagogical documents, textbook, functions and structural components of the textbook.
- 20. Current concepts of the teaching process.

Recommended literature:

Čapek, R.: Moderní didaktika. Praha: Grada, 2016.

Dytrtová, R., Krhutová, M. Učitel. Příprava na profesi. Praha: Grada, 2009.

Kalhous, Z. – Obst, O. 2002. Školní didaktika. Praha: Portál, 2002.

Petlák, E.: Kapitoly zo súčasnej didaktiky. Bratislava: IRIS, 2005.

Prucha, J.: Moderní pedagogika. Praha: Portál, 2012.

Turek, I.: Didaktika. Bratislava: Wolters Kluwer, 2014.

Vališová, A., Kasíková, H.: Pedagogika pro učitele. Praha: Grada, 2010.

Zormanová, L.: Obecná didaktika. Praha: Grada, 2014.

Course language:

Notes:

Course assessment

Total number of assessed students: 10

A	В	С	D	Е	FX
10.0	70.0	10.0	10.0	0.0	0.0

Provides:

Date of last modification: 12.03.2024

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

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: KPE/

Course name: Pedagogy and Psychology

PPD/22

Course type, scope and the method:

Course type:

Recommended course-load (hours):

Per week: Per study period: Course method: present

Number of ECTS credits: 2

Recommended semester/trimester of the course:

Course level: II.

Prerequisities: KPE/PDU/15 and KPPaPZ/PPgU/15

Conditions for course completion:

Obtaining the required number of credits in the prescribed composition by the study plan.

Learning outcomes:

The student is able to demonstrate the acquired competencies in accordance with the profile of the graduate.

Brief outline of the course:

Pedagogy: 1. Pedagogy, basic pedagogical categories, system of pedagogical scientific disciplines. 2. Education, pages and functions of education, educational process, self-education.3. Factors of education, educated individual, pedagogue, pedagogical profession, professional competencies.4. School education, family education. 5. Educational goals, taxonomy, requirements, classification of educational goals.6. Methods of education. 7. Pedagogical principles. 8. School system of the Slovak Republic. 9. Didactics, basic questions of didactics, current starting points of didactics. 10. Objectives of the teaching process, the teacher's work with the objectives of teaching.11. Content of education, basic curriculum, extension curriculum, elements and components of curriculum. 12. Assessment in school education, types, functions and criteria of assessment.13. Pedagogical control, methods and forms of pedagogical control.14. Teacher's work planning, written preparation of the teacher for teaching.15. Teaching process, stages of the teaching process and their didactic functions.16. Organizational forms of teaching, lesson, stages, types of lessons.17. Teaching methods, classification, functions, selection of teaching methods. 18. Didactic principles of the teaching process. 19. Basic pedagogical documents, textbook, functions and structural components of the textbook.20. Current concepts of the teaching process.

Psychology: 1.Psychology as a science, goals and subject of psychology in terms of influential psychological directions.2.Pedagogical psychology in teacher training, its subject, function.3.Psychology in school practice: professional forms of control and assistance, psychological examination, counseling process. Crisis intervention. Code of ethics.4.Psychology in school practice: approaches and models of prevention, prevention spectrum, protective and risk factors of risk behavior of schoolchildren in the context of the theory of triadic influence.5.Psychology in school practice: effective strategies for prevention of substance use.6.Psychology of education from from the point of view of psychodynamic approach (Psychoanalysis and Individual Psychology) .7.Psychology of education from the point of

view of humanistic psychology. 8. Psychology of education from the point of view of cognitive psychology.9.Psychology of learning and types of learning supplemented by examples from school practice. / success in the context of individual theories of cognitive development.11. Nutritional peculiarities, school non-success / intelligence in terms of intelligence.12. Memory and developmental peculiarities, school non-success 13. Attention and developmental peculiarities, school non / success peculiarities of individual types of family, educational styles.15.Social relations at school, me modes of cognition of interaction U and Ž. Psychosocial climate of school class and school, methods of cognition, sociometry.16. Social influence: presence of others, interpersonal influences and meaningful understanding of social influence in teacher's work.17. Teacher as a professional, his professional ability, teaching style, attitudes towards students, expectations towards students, coping with stress, burnout syndrome.18. Students: gifted and talented, school failure, non-thriving pupils and failing pupils, pupils' self-efficacy. 19. Types of research plans and their creation (setting goals, hypotheses, variables, selection of research sample) in the context of pedagogical-psychological research. 20. Selected methods of pedagogicalpsychological research - questionnaire, interview, observation and possibilities of their use in school practice.

Recommended literature:

Pedagogika:

Čapek, R.: Moderní didaktika. Praha: Grada, 2016.

Dytrtová, R., Krhutová, M. Učitel. Příprava na profesi. Praha: Grada, 2009.

Kalhous, Z. – Obst, O. 2002. Školní didaktika. Praha: Portál, 2002.

Petlák, E.: Kapitoly zo súčasnej didaktiky. Bratislava: IRIS, 2005.

Prucha, J.: Moderní pedagogika. Praha: Portál, 2012.

Turek, I.: Didaktika. Bratislava: Wolters Kluwer, 2014.

Vališová, A., Kasíková, H.: Pedagogika pro učitele. Praha: Grada, 2010.

Zormanová, L.: Obecná didaktika. Praha: Grada, 2014.

Psychológia:

Mareš, J.: Pedagogická psychologie. Praha: Grada 2013.

Mareš, J., & ČÁP, J.: Psychologie pro učitele. Praha: Portál, 2001.

Džuka, J.: Základy pedagogickej psychológie. Prešov: UK 2003.

Orosová, O. a kol: Psychológia a pedagogická psychológia 1. Košice: UPJŠ, 2005.

Orosová, O. a kol.: Základy prevencie užívania drog a problematického používania internetu v školskej praxi. Košice: UPJŠ 2012.

Bačíková, M., Janovská, A. (2019) . Základy metodológie pedagogicko-psychologického výskumu. Sprievodca pre študentov učiteľstva. 2. rozšírené vydanie. Šafárik press, Košice.

Gavora, P. a kol. (2010). Elektronická učebnica pedagogického výskumu. Bratislava: Univerzita Komenského, 2010. dostupné online na www. e-metodologia. fedu. uniba. sk.

Vágnerová, M.: Základy psychológie. Praha: Karolinum 2005.

Vágnerová, M.: Vývojová psychológie. Praha: Karolinum 2005.

Vágnerová, M.: Škoní podadenská psychologie pro pedagogy. Praha: Karolinum 2005. Výrost,

J., Slaměník, I.: Sociální psychologie. Praha: Grada 2008.

Výrost, J., Salměník, I.: Aplikovaná sociální psychológie I. Praha: Portál 1998.

Strana: 2

Fontana, D.: Psychologie ve školní praxi. Praha: Portál 1997.

Zelina, M.: Stratégie a metódy rozvoja osobnosti. Bratislava, Iris: 1996.

Křivohlavý, J.: Pozitívni psychologie. Praha: Portál 2004.

Křivohlavý, J.: Psychologie zdraví. Praha: Portál 2003.

Course language:

Page: 76

Notes:								
Course assessment Total number of assessed students: 69								
A	В	С	D	Е	FX			
18.84	34.78	30.43	14.49	1.45	0.0			

Provides:

Date of last modification: 12.03.2024

Approved: prof. PhDr. Ol'ga Orosová, CSc., prof. RNDr. Peter Kollár, DrSc., prof. RNDr. Ľubomír Kováč, CSc.

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚFV/ | **Course name:** Physical Problems

FYU/22

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 ECTS 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

Course language:

Slovak, English

Notes:

Course assessment

Total number of assessed students: 12

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: 15.02.2022

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

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

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

MSSU/22

Course type, scope and the method:

Course type:

Recommended course-load (hours):

Per week: Per study period: Course method: present

Number of ECTS credits: 2

Recommended semester/trimester of the course:

Course level: II.

Prerequisities: ÚFV/DF1/22 and ÚFV/FKS/22 and ÚFV/DF2/22 and ÚFV/ASFU/22

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

Notes:

Course assessment

Total number of assessed students: 6

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

Provides:

Date of last modification: 15.02.2022

Approved: prof. PhDr. Ol'ga Orosová, CSc., prof. RNDr. Peter Kollár, DrSc., prof. RNDr. Ľubomír Kováč, CSc.

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚBEV/ | 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 ECTS credits: 5

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

Course level: I., II.

Prerequisities:

Conditions for course completion:

- 1. Lectures are optional, but highly recommended due to the presentation of otherwise difficult-to-access information and its synthesis.
- 2. In addition to the exam, the student must complete a mandatory 5-hour field trip focusing on the aspects that determine the spread of plants on Earth, solve practical tasks from the topic of the subject and prepare a semester presentation on the given topic, the presentation is defended at a scientific mini-conference.

Learning outcomes:

After completing the subject, the student is oriented in various aspects of phytogeographic issues and can apply the acquired knowledge both in basic research within chorology, historical and regional phytogeography, as well as in the evaluation of world biomes. The practical application of the subject is within the study of geographically and climatically conditioned changes in vegetation, in the assessment of the reduction of biodiversity and the extinction of the natural plant communities of the Earth, and the acquired knowledge can be used in work in environmental protection.

Brief outline of the course:

- 1. History of the subject. Plants and environment. Dynamics of the earth's surface.
- 2. Abiotic and biotic factors of the plant environment.
- 3. Chorology, range, areal disjunctions, relics, endemism, vicarism.
- 4. Elements of flora older and newer approaches.
- 5. Main features of florogenesis. Paleozoic, Mesozoic, Cenozoic.
- 6. Main features of florogenesis. Cenozoic Pleistocene, Holocene.
- 7. Basics of GIS (geographic information systems) and their use in botanical research.
- 8. Postglacial development of vegetation in Slovakia.
- 9. Current changes in terrestrial vegetation and their study, plant invasions.
- 10. Geography of vegetation: from tropical rainforests to tundra I.
- 11. Geography of vegetation: from tropical rainforests to tundra II.
- 12. Geographical origin of cultivated plants.

Seminars and exercises consist of a 5-hour excursion focusing on the connections and conditionality of plant distribution and indoor exercises focusing on an overview of phytogeographical literature, atlases of plant distribution and their importance, types of mapping, types of areas, practical

assessment of floristic elements and types of disjunctions, work with maps of specific taxa throughout Europe. Further: regional phytogeography of the Earth, historical overview of opinions on the phytogeographical (floristic) division of Slovakia. Plant phylogeography. Student presentations of final semester theses (phytogeographical mini-conference).

Recommended literature:

Hendrych R.: Fytogeografie. - SPN, Praha 1984.

Prach K., Štech M., Říha P.: Ekologie a rozšíření biomů na Zemi. - Scientia, Praha 2009.

Krippel E.: Postglaciálny vývoj vegetácie Slovenska. – Veda, vyd. SAV, Bratislava, 1986.

Dahl, E.: The Phytogeography of Northern Europe, - Cambridge University Press, 2007.

Brown J. H., Lomolino M. V.: Biogeography. - Sinauer Associates, Sunderland, 1998.

Myers A. A., Giller P. S.: Analytical Biogeography. - Chapman & Hall, 1990.

Various literature devoted to the geography of vegetation (mainly nature and travel), articles in National Geographic, Živa, Vesmír and other magazines.

Course language:

Notes:

Course assessment

Total number of assessed students: 400

A	В	С	D	Е	FX
38.5	22.25	21.25	8.75	8.5	0.75

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

Date of last modification: 24.07.2022

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

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: Course name: Problem and Aggressive Behaviour of Pupils. Etiology,

KPPaPZ/PASZ/17 | Prevention and Intervention.

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 ECTS credits: 2

Recommended semester/trimester of the course: 2.

Course level: II.

Prerequisities:

Conditions for course completion:

Learning outcomes:

Brief outline of the course:

General principles of mental development as a basis for recognizing mental disorders in children and adolescents. Etiology of mental disorders and developmental disorders in children and adolescents. Definition of aggressive behavior. Concepts of aggression vs. aggressiveness. Theoretical approaches to aggression. Causes and factors of aggressive behavior. Violence at school and in the family. Bullying. Psychology of problem students. Problems resulting from disturbed behavior. Problems arising from group relationships. Adolescent lifestyle issues. Problems resulting from impaired emotional experience. Solving problematic and aggressive behavior in the school environment. School classroom management, group preventive and intervention work with the classroom. Crisis intervention. Work with parents of problem students. Principles of interviewing a parent. Cooperation with other experts. Prevention of aggressive and problematic behavior at school. Classroom and school climate, school prevention programs.

Viac o tomto zdrojovom texteNa získanie ďalších informácií o preklade sa vyžaduje zdrojový text Odoslať spätnú väzbu

Bočné panely

Recommended literature:

Course language:

Notes:

Course assessment

Total number of assessed students: 121

A	В	С	D	Е	FX
79.34	14.88	5.79	0.0	0.0	0.0

Provides: PhDr. Anna Janovská, PhD.

Date of last modification: 24.06.2022

Approved: prof. PhDr. Ol'ga Orosová, CSc., prof. RNDr. Peter Kollár, DrSc., prof. RNDr. Ľubomír Kováč, CSc.

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 ECTS credits: 2

Recommended semester/trimester of the course: 2., 4.

Course level: II.

Prerequisities:

Conditions for course completion:

1. Active participation in seminars (max. 1 absence) - 30p, 2. Preparation for the seminar - 40p, 3. Preparation (description and analysis) of the moral dilemma - 30p. By summing the points obtained during the semester, the student obtains the final evaluation according to the scale: A 87 - 100, B 77 - 86, C 69 - 76, D 61 - 68, E 56 - 60, FX 55 and less. Detailed information in the electronic board of the course in AIS2. The teaching of the subject will be realized by a combined method.

Learning outcomes:

The student will understand the principles of teacher ethics and the ethics of the educational counselor as one of the branch types of professional ethics. The student can theoretically reflect on the ethical and moral issues of the teaching profession and the function of the educational counselor (including the formulation of moral values, principles and standards of the teaching profession and the function of the educational counselor in the form of codes of ethics). He is able to analyze and solve practical moral problems in pedagogical practice, which supports the development of professional skills of students. The student is able to critically evaluate situations with a moral context thanks to the opportunity to discuss moral and ethical issues in an open way.

Brief outline of the course:

Moral emotions (theories of emotion, the center of emotions in the brain, types of emotions and their manifestations)

Development of moral reasoning, cognitive approaches to moral reasoning and their comparison (Piaget, Kohlberg, Gilligan, Eisenberg, Selman, Lind),

Moral behavior (from the point of view of learning theories) and moral (vs. social and emotional) intelligence in the work of a teacher

Possibilities of examining moral behavior and judgment (socio-psychological research of conformity, obedience, aggression and psychodiagnostic approaches to the determination of moral judgment)

Morality and professional ethics in general (ethical principles in helping professions) and codes of ethics

Professional ethics of the teacher and educational counselor (terminology, concepts, main principles of teacher ethics) and teacher ethics codes

Moral dilemmas and ways of solving them, MD of teaching practice

Possibilities of influencing and stimulating moral judgment, use of moral dilemma in education Cheating and other unethical manifestations in the school environment, ethics and etiquette of final exams

Recommended literature:

Ráczová, Babinčák, P. Základy psychológie morálky. Košice : Equilibria, 2009. - 130 s. ISBN 9788070977866 (brož.).

Gluchmanová, M. K niektorým terminologickým otázkam učiteľskej etiky. Pedagogická orientace 2007, č. 2, s. 11–25. ISSN 1211-4669.

Malankievičová, S. Profesijná etika: FF PU. 2008.

Miezgová J., Vargová, D. Etika. SPN Mladé letá 2007.

Remišová A. Dejiny etického myslela v Európe a USA. Bratislava, Kalligram 2008.

Zelina, M. Teória výchovy alebo hľadanie dobra. Bratislava SPN 2010.

Gluchmanová, M. Uplatnenie princípov a hodnôt etiky sociálnych dôsledkov v učiteľskej etike.

Prešov: FF PU,2009. 222 s. ISBN 978-80-555-0042-3

Campbell, E. The Ethical Teacher. Berkshire (England): Open University Press, 2003. 178 s. ISBN 03-3521-219-0.

Course language:

slovak

Notes:

Course assessment

Total number of assessed students: 496

A	В	С	D	Е	FX
96.98	2.62	0.4	0.0	0.0	0.0

Provides: Mgr. Lucia Barbierik, PhD.

Date of last modification: 24.06.2022

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

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 ECTS credits: 5

Recommended semester/trimester of the course: 1.

Course level: II.

Prerequisities:

Conditions for course completion:

Combined method.

Assessment Maximum 50 points during the semester (Three assignments).

Exam entry criteria: Active participation in exercises and at least 35 points obtained during the semester

Continuous assessment (50%) and written examination (50%) / 10 questions.

Final evaluation:

A 87 – 100, B 77 – 86, C 69 – 76, D 61 – 68, E 56 – 60

Electronic board of the course AIS2 - more information and news.

Learning outcomes:

Students will be able to show understanding of the human behaviour in educational situations.

Students will be able to describe, explain and justify possible teachers' decisions by using psychological concepts, principles and theories.

Students will be able to apply the psychological findings in the field of education.

Students will be able to explain how adolescents learn and retain new information, to explain their behaviour in response to educational environment.

Students will be able to explain the desired data-based modification of adolescents' behaviour to bring an all-round development of his personality and school performance, to explain the desired data-based modification of the behaviour of adolescents with educational problems, with disadvantages.

Brief outline of the course:

Introduction: The content of the course is based on current knowledge of psychological disciplines, especially pedagogical and school psychology.

Teaching is realized by a combination of lectures with engaging narrative interpretation and seminars using interactive, experiential methods, discussion and open communication with mutual respect, support of independence, activity and motivation of students.

Syllabus: The subject and goals of psychology and educational psychology. Professional forms of help in school practice.

Implementation of psychological concepts of personality into school practice (Classical and contemporary psychoanalytic theory, Individual psychology, Humanistic psychology, Concept of

creative-humanistic education; Cognitivism and Theory of personal constructs). Social psychology of school and family. Learning and teaching. Health and disease; risk / protective factors with healthy related risk behavior. Psychology of students with behavioral and learning problems. Psychology of students with psychosocial, socio-cultural, health disadvantages. Psychological examination. Consulting process. Crisis intervention. Programs for prevention of risky behavior of schoolchildren.

Recommended literature:

Mareš, J.: Pedagogická psychologie. Praha: Grada 2013.

Mareš, J., & ČÁP, J.: Psychologie pro učitele. Praha: Portál, 2001.

Džuka, J.: Základy pedagogickej psychológie. Prešov: UK 2003.

Orosová, O. a kol: Psychológia a pedagogická psychológia 1. Košice: UPJŠ, 2005.

Orosová, O. a kol.: Základy prevencie užívania drog a problematického používania internetu v školskej praxi. Košice: UPJŠ 2012.

Vágnerová, M.: Základy psychológie. Praha: Karolinum 2005.

Vágnerová, M.: Vývojová psychológie. Praha: Karolinum 2005.

Vágnerová, M.: Škoní podadenská psychologie pro pedagogy. Praha: Karolinum 2005. Výrost,

J., Slaměník, I.: Sociální psychologie. Praha: Grada 2008.

Výrost, J., Salměník, I.: Aplikovaná sociální psychológie I. Praha: Portál 1998.

Fontana, D.: Psychologie ve školní praxi. Praha: Portál 1997.

Zelina, M.: Stratégie a metódy rozvoja osobnosti. Bratislava, Iris: 1996.

Křivohlavý, J.: Pozitívni psychologie. Praha: Portál 2004.

Křivohlavý, J.: Psychologie zdraví. Praha: Portál 2003.

Course language:

slovak

Notes:

Course assessment

Total number of assessed students: 1734

A	В	С	D	Е	FX
11.01	20.13	23.88	22.38	20.18	2.42

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

Date of last modification: 14.09.2023

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

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: Course name: Psychology of Creativity and Working with Gifted Students

KPPaPZ/PTPN/17 in Teacher Practice

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 ECTS credits: 2

Recommended semester/trimester of the course: 2.

Course level: II.

Prerequisities:

Conditions for course completion:

1. active participation in lessons (max. 2 absences) - 30p, 2. own output at the seminar - 40p, 3. seminar work - 30p. By summing the points obtained during the semester, the student obtains the final evaluation according to the given scale: A 87 - 100, B 77 - 86, C 69 - 76, D 61 - 68, E 56 - 60, FX 55 and less. Detailed information in the electronic board of the course in AIS2. The teaching of the subject will be realized by a combined method.

Learning outcomes:

The student understands the basic factors and process of creativity. The student is able to explain the specifics of working with the gifted. He knows the methods of identifying talent and also can apply methods to support creativity and the development of talent in the implementation of creative creativity in education.

Brief outline of the course:

The concept of creativity.

A brief history of the theory of creativity.

Social, psychological and biological factors of creativity.

Cognitive processes in creativity.

Creativity and cognitive style.

Development of creativity.

Talent and giftedness.

Methods of determining creativity and talent.

Methods of developing creativity and talent.

Creativity and talent development programs. Specifics of working with the gifted children.

Recommended literature:

DOČKAL, V. (2006): Inteligencia a tvorivosť, tvorivé nadanie od intelektovej schopnosti po štruktúru osobnosti. In: KUSÁ, D. a kol. EDS. (2006): Zjavná a skrytá tvorivosť. Bratislava: Slovak Academic Press

HŘÍBKOVÁ, L. (2009): Nadání a nadaní. Pedagogicko- psychologické přístupy, modely,

výzkumy a jejich vztah ke školské praxi. Praha: Grada Publishing

DACEY, J.S.- LENNON, K.H. (2000): Kreativita. Praha: Grada

GROSS, M.U.M. (2009): Highly Gifted Young People: Development from Childhood to Adulthood. In: SHAVININA, L. (2009): International Handbook on Giftedness. Part one. Springer

KUSÁ, D. a kol. EDS. (2006): Zjavná a skrytá tvorivosť. Bratislava: Slovak Academic Press KOLKOVÁ, S. (2000): Tvorivosť a jej rozvoj vo voľnočasových aktivitách detí (v školskom klube). Bratislava: Metodické centrum v Bratislave

LOKŠOVÁ, I., - LOKŠA, J.: (2003): Tvořivé vyučování. Praha: Grada

LAZNIBATOVÁ, J. (2004): Špecifiká vývinu a vzdelávania nadaných detí. In: Psychológia a patopsychológia dieťaťa, roč.39, č. 2-3

LAZNIBATOVÁ, J. (2001): Nadané dieťa, jeho vývin, vzdelávanie a podporovanie. Bratislava: Iris

MESÁROŠOVÁ, M. (1998): Nadané deti. Poznávanie a rozvíjanie ich osobnosti. Prešov: Manacon

SZOBIOVÁ, E. (2004): Tvorivosť – Od záhady k poznaniu. Bratislava: Stimul - Centrum informatiky a vzdelávania FIF UK

National and international scientific journlas

Course language:

slovak

Notes:

Course assessment

Total number of assessed students: 80

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

Provides: Mgr. Lucia Barbierik, PhD.

Date of last modification: 24.06.2022

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

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course name: Reading Literacy in Educational Process **Course ID:** KSSFaK/ ČGUAP/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 ECTS 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: **Notes: Course assessment** Total number of assessed students: 44 abs n 100.0 0.0 Provides: doc. PaedDr. Ivica Hajdučeková, PhD. Date of last modification: 15.09.2023 Approved: prof. PhDr. Ol'ga Orosová, CSc., prof. RNDr. Peter Kollár, DrSc., prof. RNDr. Ľubomír Kováč, CSc.

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚBEV/ | 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 ECTS 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:

Notes:

Course assessment

Total number of assessed students: 540

abs	n
99.63	0.37

Provides:

Date of last modification: 16.12.2021

Approved: prof. PhDr. Ol'ga Orosová, CSc., prof. RNDr. Peter Kollár, DrSc., prof. RNDr. Ľubomír Kováč, CSc.

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 ECTS 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:

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

Notes:

Course assessment

Total number of assessed students: 80

abs n 100.0 0.0

Provides: doc. RNDr. Jozef Hanč, PhD.

Date of last modification: 03.05.2015

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

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 ECTS credits: 3

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

Course level: II.

Prerequisities:

Conditions for course completion:

Terms and conditions of assessment during the semester

- -participation in classes in accordance with study regulations and teacher's instructions
- -active participation at seminars and exercises
- -submitting all the assignments in accordance with teacher's instruction
- -realization, presentation and defence of the final assignment

Final assessment:

-based on assessment during the semester

Conditions for successful completion of the course:

- -participation in lessons in accordance with the study regulations and teacher's instructions
- -achieving the level higher than 50 % in assessment during the semester and in final assessment

Learning outcomes:

By the end of the course student gains an overview about the possible use of digital technologies to support active learning in physics implementing methods of inquiry-based science education. 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, conceptual understanding and inquiry skills 'development.

Brief outline of the course:

- 1. Inquiry-based science education (IBSE). Inquiry skills. Digital technologies to enhance IBSE.
- 2. Inquiry teaching and learning in computer-based laboratory. Digital tools for data collection, videomeasruement, modeling and data processing and analysis.
- 3. Data collection in real experiment with the help of sensors.
- 4. Processing and analysis of data gained with the help of sensors.
- 5.Activities on real-time measurements and processing and data analysis implementing IBSE methods
- 6. Videomeasurement. How to measure on videorecording and picture.
- 7. Processing and analysis of data gained from videomeaurement.
- 8. Activities on videomeasurement and processing and data analysis implementing IBSE methods

- 9.Mathematical modeling with the help of computer. Role of computer modeling in science education.
- 10. Activities on computer modeling implementing IBSE methods.
- 11.Inquiry-based science education and methods of assessment.
- 12.Lesson design implementing digital technologies and IBSE methods.

Recommended literature:

Learning by doing the CMA way, available on https://cma-science.nl/ SOKOLOFF, David, THORNTON, Ronald, K.: Interactive Lecture Demonstrations, Wiley , 2006

Course language:

English

Notes:

Course assessment

Total number of assessed students: 17

A	В	С	D	Е	FX
76.47	23.53	0.0	0.0	0.0	0.0

Provides: doc. RNDr. Zuzana Ješková, PhD.

Date of last modification: 15.09.2021

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

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚFV/ | Course name: School Physical Experiments I

PSP1/22

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 ECTS 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

Notes:

Course assessment

Total number of assessed students: 12

A	В	С	D	Е	FX
91.67	8.33	0.0	0.0	0.0	0.0

Provides: RNDr. Katarína Kozelková, PhD.

Date of last modification: 15.02.2022

Approved: prof. PhDr. Ol'ga Orosová, CSc., prof. RNDr. Peter Kollár, DrSc., prof. RNDr. Ľubomír Kováč, CSc.

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚFV/ | Course name: School Physical Experiments II

PSP2/22

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 ECTS credits: 2

Recommended semester/trimester of the course: 2.

Course level: II.

Prerequisities:

Conditions for course completion:

Terms and conditions of assessment during the semester

- -participation in classes in accordance with study regulations and teacher's instructions
- -tests during the semester 50 points
- -active participation 20 points
- -first assessment 15points
- -second assessment 15points

Final assessment:

-based on assessment during the semester

Conditions for successful completion of the course:

- -participation in lessons in accordance with the study regulations and teacher's instructions
- -achieving the level higher than 50 % in assessment during the semester and in final assessment

Learning outcomes:

By the end of the course sudents 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 lowe and upper secondary schools in accordance with the course curricular content

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. The course content involves:

- 1. Oscillations
- 2. Waves and acoustics
- 3. Electrostatics
- 4. Electric current
- 5. Stationar magnetic field
- 6. Non-stationar magnetic field
- 7. Alternating current

8.Optics

Recommended literature:

ONDEROVÁ, Ľudmila, KIREŠ, Marián, JEŠKOVÁ, Zuzana, DEGRO, Ján: Praktikum školských pokusov z fyziky II., PF UPJŠ, Košice, 2004

LEPIL, Oldřich, HOUDEK, Václav, PECHO, Alojz: Fyzika pre 3.ročník gymnázií, SPN, Bratislava, 1998

PIŠÚT, Ján a kol, Fyzika pre 4.ročník gymnázia, SPN, Bratislava, 1987

DEMKANIN, Peter, HORVÁTH, Peter, CHALUPKOVÁ, Soňa, ŠUHAJOVÁ, Zuzana: Fyzika pre 2.ročník gymnázia a 6.ročník gymnázia s osemročným štúdiom, Združenie EDUCO, 2010 DEMKANIN, Peter, HORVÁTHOVÁ, Martina: Fyzika pre 3.ročník gymnázia a 7.ročník gymnázia s osemročným štúdiom, Združenie EDUCO, 2012

Course language:

Slovak

Notes:

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. Zuzana Ješková, PhD.

Date of last modification: 15.02.2022

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

COURSE IN ORMATION BETTER	
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 ECTS credits: 2	
Recommended semester/trimester of the course: 3.	
Course level: II.	
Prerequisities:	
Conditions for course completion: Didactic analysis after conducted experiments and observations. Semester Project Methodo of practical exercize on the chosen topic biology curriculum, presentation and demonstration integrated experiment at the end of the semester.	
Learning outcomes: Teacher preparation, how to carry out biological school experiments and classroom observation.	ions.
Brief outline of the course: The course is aimed at training and application skills that are necessary for the implementation experiments and observations in the classroom. It helps students develop theoretical knowled practical work during training and familiarizes them with didactic methods in demonstrating biological observation and educational experiments. It focuses on the possibilities of applying methods in the various stages of a teaching unit.	lge in
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. UŠÁKOVÁ, K. ČIPKOVÁ, E., NAGYOVÁ, S. GÁLOVÁ, T. 2012, Biológia pre gymnáziá Praktické cvičenia a seminár I, Slovenské pedagogické nakladateľstvo - Mladé letá (Bratislavyd. ISBN: 9788010023905 UŠÁKOVÁ, K. ČIPKOVÁ, E., NAGYOVÁ, S. GÁLOVÁ, T. 2012, Biológia pre gymnáziá Praktické cvičenia a seminár II, Slovenské pedagogické nakladateľstvo - Mladé letá (Bratisla ISBN9788010023912 Internal study materials in Moodle https://lms.upjs.sk/login/index.php Course language:	va) 2. 8:
Slovak	

Notes:

Course assessment						
Total number of assessed students: 106						
Α	В	С	D	Е	FX	
66.98	17.92	12.26	1.89	0.0	0.94	

Provides: PaedDr. Andrea Lešková, PhD.

Date of last modification: 31.05.2021

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

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚFV/ | Course name: Selected Demonstration Experiments

DEX/22

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 ECTS 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

Notes:

Course assessment

Total number of assessed students: 13

	A	В	С	D	Е	FX
7	6.92	7.69	0.0	0.0	0.0	15.38

Page: 104

Provides: doc. RNDr. Marián Kireš, PhD.

Date of last modification: 15.02.2022

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

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 ECTS 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 60 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, Praha 1982
- 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

Notes:

Course assessment

Total number of assessed students: 33

A	В	С	D	Е	FX
81.82	15.15	0.0	0.0	0.0	3.03

Provides: doc. RNDr. Marián Kireš, PhD.

Date of last modification: 28.03.2020

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

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

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

VPF2/22

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 ECTS credits: 2

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

Notes:

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: 15.02.2022

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

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 ECTS credits: 2

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

Course level: II.

Prerequisities:

Conditions for course completion:

Conditions for successful completion of the course:

- a) regular active participation in seminars,
- b) preparation of basic literature and content of lectures,
- c) elaboration of seminar work / creative task,
- d) successful completion of the final test.

Conditions for obtaining the final evaluation: a) seminar work / creative task b) final test (min. 56%) Final evaluation: 100,00 - 92,00% A 91,99 - 83,00% B 82,99 - 74,00 % C 73.99 - 65.00% D 64.99 - 56.00% E 55.99% and less FX

Prerequisites for successful completion of the course are annually updated on the electronic bulletin board in AIS2.

Learning outcomes:

During the final evaluation, the student demonstrates adequate mastery of the content standard of the course, which is defined by the required literature and seminar content, and demonstrates mastery of the performance standard, within which the student is able to practically apply the standard of standard Slovak in oral and written communications. manuals, gain skill in the bibliographic and citation standard. The graduate of the course normatively masters written communication on the basis of current orthographic rules and knows the basic characteristics of the means of expression of the text and functional language style.

Brief outline of the course:

Characteristics of basic terms of general linguistics (language – speech, language functions, the sign character of language, language levels, content and form in language, individual and general aspect of language units) on interdisciplinary background and with the application to Slovak as a national language. Language standard, codification, usus. Basic codification manuals. Application of orthographic rules in practical documents. Sound culture, pronunciation styles. Orthoepic phenomena in vowels and consonants. Application of rhythmic law and its exceptions. Assimilation and its specific features in Slovak. Style, stylization – methods and demonstration of structure of text components.

Recommended literature:

BÓNOVÁ, I. - JASINSKÁ, L.: Jazyková kultúra nielen pre lingvistov. Košice: UPJŠ 2019. 100 s.

FINDRA, J.: Štylistika slovenčiny. Martin: Osveta, 2004.

FINDRA, J.: Štylistika slovenčiny v cvičeniach. Martin: Osveta, 2005.

KRÁĽ, Á.: Pravidlá slovenskej výslovnosti. Martin: Matica slovenská 2006. 423 s.

Krátky slovník slovenského jazyka. Martin: Matica slovenská 2020.

SABOL, J.- SLANČOVÁ, D. - SOKOLOVÁ, M.: Kultúra hovoreného slova. Prešov, FF UPJŠ 1989.

Pravidlá slovenského pravopisu. Bratislava: Veda 2000 (2013).

SABOL, J. – BÓNOVÁ, I. – SOKOLOVÁ, M.: Kultúra hovoreného prejavu. Prešov: FF PU 2006.

SLANČOVÁ, D.: Praktická štylistika. 2., upravené a doplnené vydanie. Prešov: Slovacontact 1996. 178 s. ISBN 80-901417-9-X.

Slovník súčasného slovenského jazyka. Bratislava: Veda 2006.

Slovník súčasného slovenského jazyka. Bratislava: Veda 2011.

Slovník súčasného slovenského jazyka. Bratislava: Veda 2015.

Course language:

Slovak language

Notes:

Course assessment

Total number of assessed students: 150

A	В	C	D	Е	FX
14.0	23.33	32.67	14.67	13.33	2.0

Provides: PhDr. Iveta Bónová, PhD., PhDr. Lucia Jasinská, PhD.

Date of last modification: 24.06.2022

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

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚFV/ | **Course name:** Solid State Physics

FKS/22

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 ECTS credits: 2

Recommended semester/trimester of the course: 1.

Course level: II.

Prerequisities:

Conditions for course completion:

Sucessfull passing the course requires presentation of adequate knowledge of concepts, phenomena and laws from Condensed Matter Physics. Knowledge of structural, mechanic, electric, thermal, transport and magnetic properties of solids and potetail possibilities of their practical applications. The number of credits reflects the extent of the course (2 hours of lectures) and the fact that the contents of the course represents part of state exam in magister degree.

During semester students will prepare two written works on the given topic and they will actively participate in the final debate on the topics which are identical to the content of the lectures. Treshold for for successfull passing the course is 50 % of the sum of obtained scores from the tests and oral exam. Maximal total score from both tests represents 30 % from the total score.

The scale of the total score is defined as follows:

A 100-91%

B 90-81%

C 80-71%

D 70-61%

D /0 01/0

E 60-50%

Fx 49-0%

Learning outcomes:

Sucessfull passing the course will significantly contribute to the expertise of the teacher in physics. Student will learn basic concepts in Condensed matter physics and understand phenomena in solids. He will also learn selected theoretical approaches and used experimental techniques in Condensed matter physics. In addition, he will also be able to interpret simple experimental observations based on quantum-mechanical phenomena.

Brief outline of the course:

- 1.week: Structure of crystals. Amorphous materials. Space and crystal lattice, elementar cell. Bravais lattices and crystallographic systems. Directions and planes in a crystal lattice Miller's indexes. Reciprocal lattice.
- 2. week Methods of structural analysis. Diffraction of X-ray radiation on crystals. Bragg's equation and Laue's condition, relation between them. Ewald's construction for different experimental techniques.

- 3. week: Mechanical properties of solids and perturbations in crystal lattice. Classification of solids according to nature of bonding among elements in crystal lattice. Basic types of bondings (ion, covalent, metal, Van der Walls, hydrogen)
- 4. week: Thermal properties of solids Einstein and Debye theory of specific heat. Eletrical properties of solids.
- 5. week: Sommerfield's theory. Density of electronic states. Influence of temperature on the distribution of free electrons. Fermi Dirac distribution function.
- 6. week: Electron in periodic potential. Energy spectrum of electrons in crystal. Kronig Penney 's model. Effective mass of electron.
- 7. week: Concept of holes. Semiconductors. Electrical conductivity of metals and semiconductors adopting properties of energy spectrum of electrons.
- 8. week: Transport properties in metals and semiconductors Hall effect, magnetoresistance, photoconductivity, contact phenomena, quantum Hall effect.
- 9. week: Macroscopic quantum phenomena: Superconductivity and Superfluidity.
- 10. week: Magnetic properties of solids orbital and spin magnetic moment of atom. Definition of basic magnetic quantities (magnetization, polarization, susceptibility, permeability). Vector model of atom.
- 11. Classification of magnetic materials according to nature of magnetic interactions. Diamagnetic and paramagnetic systems.
- 12 week: Basic properties of ferromagnets. Magnetic hysteresis, coercitive field. Domain structure, physical reasons ledaing to the domain structure.

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:

Slovak, English

Notes:

The course is given in attendance form, if a need arises, online form using MS Teams can be adopted.

Course assessment

Total number of assessed students: 30

A	В	С	D	Е	FX
60.0	26.67	10.0	3.33	0.0	0.0

Provides: prof. RNDr. Peter Kollár, DrSc.

Date of last modification: 19.12.2022

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

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 ECTS credits: 4** Recommended semester/trimester of the course: 2., 4. Course level: I., 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 students' research work at Students' scientific conference. **Recommended literature:** Based on the recommendations of supervisor Course language: Slovak **Notes:** Course assessment Total number of assessed students: 9 abs n 100.0 0.0 **Provides:** Date of last modification: 03.05.2015 Approved: prof. PhDr. Ol'ga Orosová, CSc., prof. RNDr. Peter Kollár, DrSc., prof. RNDr.

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: KPE/ **Course name:** Supervised Teaching Practice MPPa/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 ECTS 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: **Notes:** Course assessment Total number of assessed students: 783 abs n 100.0 0.0 Provides: doc. PhDr. Beata Gajdošová, PhD., doc. PaedDr. Renáta Orosová, PhD., Mgr. Katarína Petríková, PhD. Date of last modification: 12.03.2024 Approved: prof. PhDr. Ol'ga Orosová, CSc., prof. RNDr. Peter Kollár, DrSc., prof. RNDr. Ľubomír Kováč, CSc.

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 ECTS credits: 5** Recommended semester/trimester of the course: 1. Course level: II. **Prerequisities: Conditions for course completion: Learning outcomes: Brief outline of the course:**

Course language:

Recommended literature:

Notes:

Course assessment

Total number of assessed students: 854

A	В	С	D	Е	FX
24.82	28.34	26.35	14.4	5.62	0.47

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

Date of last modification: 12.03.2024

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

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 ECTS credits: 2

Recommended semester/trimester of the course: 2.

Course level: II.

Prerequisities:

Conditions for course completion:

- 1. Active participation in seminars
- 2. Elaboration and presentation of PPT presentation on the assigned topic. Maximum number of points 20; minimum number of points 11.
- 3. Final test in the range of 20 questions from selected chapters and lectures. Maximum number of points 20; minimum number of points 11. The final evaluation (mark) is the sum of points for the presentation and the test. A 40b 37b B 36b 33b C 32b 29b D 28b 25b E 24b 21b FX 20b 0b The evaluation of the course and its subsequent completion will be based on clearly and objectively set requirements, which will be set in advance and will not change. The aim of the assessment is to ensure an objective and fair mapping of the student's knowledge while adhering to all ethical and moral standards. There is no tolerance for students' fraudulent behavior, whether in the teaching process or in the assessment process.

Learning outcomes:

Provide students with basic information about a systemic approach to helping. Train interviewing, clarify orders. Reflect on help options.

The student is able to demonstrate an understanding of the theoretical principles of conducting a helping conversation.

The student is able to describe, explain and evaluate in what context to use which of the selected techniques to help the interview with the individual.

The student is able to use basic selected techniques when working with an individual in the interview process.

The method of teaching the subject will be oriented to the student. Lecturers will be interested in students' needs, expectations and opinions so as to encourage them to think critically by expressing respect and feedback on their opinions and needs.

The content of the curriculum will be based on primary and high-quality sources that will reflect the topicality of the topics so as to ensure the connection of the curriculum with other subjects and also the connection of the curriculum with practice. Students will be expected to take an active approach in lectures and seminars with an emphasis on their independence and responsibility.

Brief outline of the course:

Psychological preparation for conducting an interview. Self-reflection of one's own possibilities, abilities to lead a conversation, to help. Possibilities of helping with conversations from the point of view of selected psychological approaches. Systematic approach to helping. Interview and professional ways to help and control. Objectivist and constructivist framework of conversation in theory and practice. Is it possible to help with control? Opening the interview, negotiating the course, course, ending the interview. Constructivist questions in the interview. Analysis of individual phases of conducting the interview. Reflex team possibilities of help in conversation. Models of reflective teams. Model situations of conducting an interview with an individual. Model situations of conducting an interview with a group. Professional possibilities, advantages and pitfalls of solving problems with an individual, with a group.

Recommended literature:

Course language:

Notes:

Course assessment

Total number of assessed students: 180

A	В	С	D	Е	FX
90.56	2.78	5.0	1.11	0.56	0.0

Provides: Mgr. Ondrej Kalina, PhD.

Date of last modification: 24.06.2022

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

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: ÚBEV/ Course name: Zoogeography ZOG1/03 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 ECTS 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 a selected topic. Completion of two semestral written examinations. 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:

Notes:

Course assessment							
Total number of assessed students: 1017							
Α	В	С	D	Е	FX		
24.98	23.5	23.4	18.68	7.67	1.77		

Provides: prof. RNDr. Ľubomír Kováč, CSc.

Date of last modification: 10.12.2021

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