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University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: CJP/ Course name: Academic English

PFAJAKA/07

Course type, scope and the method:

Course type: Practice

Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: combined, present

Number of ECTS credits: 2

Recommended semester/trimester of the course:

Course level: I., II., N

Prerequisities:

Conditions for course completion:

Combined method of teaching (classroom/distance)

Active classroom participation, assignments handed in on time, 2 absences tolerated

1 test (10th week), no retake. (in classroom, in case of distance learning due to worsened epidemiological situation – online)

Presentation on chosen topic (in case of distance learning - online thorugh MS Teams)

Final evaluation- average assessment of test (40%), essay (30%) and presentation (30%).

Grading scale: A 93-100%, B 86-92%, C 79-85%, D 72-78%, E 65-71%, FX 64% and less

Learning outcomes:

Brief outline of the course:

Recommended literature:

Seal B.: Academic Encounters, CUP, 2002

T. Armer: Cambridge English for Scientists, CUP 2011

M. McCarthy M., O'Dell F. - Academic Vocabulary in Use, CUP 2008

Zemach, D.E, Rumisek, L.A: Academic Writing, Macmillan 2005

Olsen, A.: Active Vocabulary, Pearson, 2013

www.bbclearningenglish.com

Cambridge Academic Content Dictionary, CUP, 2009

Course language:

English language, level B2 according to CEFR.

Notes:

Course assessment

Total number of assessed students: 379

A	В	С	D	Е	FX
33.77	22.16	15.3	10.03	6.6	12.14

Provides: Mgr. Viktória Mária Slovenská

Date of last modification: 17.09.2020

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

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: ÚCHV/ Course name: Aktivizujúce metódy výučby chémie AMCU/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:** 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: 29 C Α В D Ε FX 100.0 0.0 0.0 0.00.0 0.0

Provides: doc. RNDr. Mária Ganajová, CSc., RNDr. Ivana Sotáková, Ph.D.

Date of last modification: 03.05.2015

Approved: prof. RNDr. Peter Kollár, DrSc., doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Ol'ga

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚFV/ | Course name: Astrophysics

ASFU/15

Course type, scope and the method:

Course type: Lecture

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

Course method: present

Number of ECTS credits: 3

Recommended semester/trimester of the course: 3.

Course level: II.

Prerequisities:

Conditions for course completion:

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

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

Learning outcomes:

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

Brief outline of the course:

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

Recommended literature:

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

Course language:

Slovak, English

Notes:

Course assessment

Total number of assessed students: 10

A	В	С	D	Е	FX
90.0	10.0	0.0	0.0	0.0	0.0

Provides: doc. RNDr. Rudolf Gális, PhD.

Date of last modification: 26.09.2017

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

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚCHV/ C

Course name: Basic Toxicology

ZTOX/04

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.

Course level: II.

Prerequisities:

Conditions for course completion:

Learning outcomes:

Goal of the course is to provide the students with a knowledge of types of toxic substances and their metabolism, safe and handling of toxic substances.

Brief outline of the course:

Historical aspects, types of toxic substances, types of exposure, dose-response relationship. Disposition of toxic compounds (absorption, distribution, excretion of toxic compounds). Metabolism of toxic compounds. Drugs as toxic substances, food additives and contaminants, environmental pollutans. Statement of chemistry laboratory policy. Safe and handling of toxic substances.

Recommended literature:

G. F. Fuhrman: Allgemeine Toxikologie fuer Chemiker, Teubner Verlag, Stutgart 1984.

V. E. Forbes, T. L. Forbe: Ecotoxicology in Theory and Practice, Chapman&Hall, London 1994.

J. A. Timbrell: Introduction to Toxicology, Taylor&Francis, London 1994.

Course language:

Notes:

Course assessment

Total number of assessed students: 320

Α	В	С	D	Е	FX
21.25	27.5	25.0	17.5	7.5	1.25

Provides: RNDr. Miroslava Matiková Maľarová, PhD.

Date of last modification: 03.05.2015

Approved: prof. RNDr. Peter Kollár, DrSc., doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Oľga

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚCHV/ Course

Course name: Biotechnology

BTC/03

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: 5

Recommended semester/trimester of the course: 2.

Course level: II.

Prerequisities:

Conditions for course completion:

test

Learning outcomes:

Students obtained the knowledge of basic biotechnological processes and their applications in agriculture, industry, food production and medicine.

Brief outline of the course:

Classification of biotechnology, disciplines and subjects which are involved with biotechnology. The fermentation processes, types of bioreactors, impellers, principles of microbial growth, media and substrates for fermentation processes. The bioremediation, production and application of biogas, in-vessel composting. Micro-organisms used to preparation amino acids, their fermentation preparation, isolation and possible uses. The methods of classical Plant Biotechnology. Ethanol fermentation, spirits, production of wine and beer. The biological filters, nutrient removal and the membrane bioreactors. Antibiotics.

Recommended literature:

E.M.T. El-Mansi et al. ,Fermentation microbiology ang biotechnology,second edition, 2007

Y.H. Hui, Food biochemistry & food processing, Blackwell Publishing 2006

J.E. Smith, Biotechnology, Cambridge university press 2009

Course language:

Notes:

Course assessment

Total number of assessed students: 105

A	В	С	D	Е	FX
48.57	20.95	17.14	7.62	5.71	0.0

Provides: RNDr. Danica Sabolová, PhD.

Date of last modification: 03.05.2015

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

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚCHV/

Course name: Chemical Engineering

ZCVU/04

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: 2., 4.

Course level: I., II., III.

Prerequisities:

Conditions for course completion:

Learning outcomes:

Brief outline of the course:

General and Inorganic Engineering; Mineral raw materials; Raw materials processing, transport and holding; Chemical reactors; Chemical metallurgy – Fe, Al, Cu working; Inorganic acids manufacture (H2SO4, HNO3, HCl, HF, H3PO4); Industrial electrochemistry; Industrial fertilizers; Silicate industry – cement manufacture, ceramics; Petrochemistry

Recommended literature:

Course language:

Notes:

Course assessment

Total number of assessed students: 15

A	В	С	D	Е	FX	N	P
13.33	60.0	20.0	6.67	0.0	0.0	0.0	0.0

Provides: doc. RNDr. Zuzana Vargová, Ph.D.

Date of last modification: 23.02.2018

Approved: prof. RNDr. Peter Kollár, DrSc., doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Oľga

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: ÚCHV/ Course name: Chemical Excursion CHE2/03 Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: Per study period: 1t Course method: present **Number of ECTS credits: 4 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: 88 \mathbf{C} Α В D Ε FX 94.32 5.68 0.0 0.0 0.0 0.0

Provides: doc. RNDr. Zuzana Vargová, Ph.D.

Date of last modification: 03.05.2015

Approved: prof. RNDr. Peter Kollár, DrSc., doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Ol'ga

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚCHV/ | Course name: Chemistry and Didactics of Chemistry I

MSSU1/14

Course type, scope and the method:

Course type:

Recommended course-load (hours):

Per week: Per study period: Course method: present

Number of ECTS credits: 1

Recommended semester/trimester of the course:

Course level: II.

Prerequisities: ÚCHV/VKAU/04,ÚCHV/DCH2/15

Conditions for course completion:

Learning outcomes:

Brief outline of the course:

Recommended literature:

Course language:

Notes:

Course assessment

Total number of assessed students: 87

Α	В	С	D	Е	FX
56.32	27.59	14.94	1.15	0.0	0.0

Provides:

Date of last modification: 03.05.2015

Approved: prof. RNDr. Peter Kollár, DrSc., doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Ol'ga

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚCHV/ Course name: Chemistry and Didactics of Chemistry II

MSSU2/14

Course type, scope and the method:

Course type:

Recommended course-load (hours):

Per week: Per study period: Course method: present

Number of ECTS credits: 1

Recommended semester/trimester of the course:

Course level: II.

Prerequisities: ÚCHV/VKOCH/03,ÚCHV/DCH2/15

Conditions for course completion:

Learning outcomes:

Brief outline of the course:

Recommended literature:

Course language:

Notes:

Course assessment

Total number of assessed students: 36

Α	В	С	D	Е	FX
80.56	11.11	5.56	2.78	0.0	0.0

Provides:

Date of last modification: 03.05.2015

Approved: prof. RNDr. Peter Kollár, DrSc., doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Ol'ga

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:**

Notes:

Course assessment

Course language:

Total number of assessed students: 867

A	В	С	D	Е	FX
49.83	29.87	15.34	3.34	1.27	0.35

Provides: Mgr. Alexander Onufrák, PhD.

Date of last modification: 21.09.2020

Approved: prof. RNDr. Peter Kollár, DrSc., doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Ol'ga

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: 499

A	В	С	D	Е	FX
53.91	33.87	9.02	1.6	0.6	1.0

Provides: PaedDr. Renáta Orosová, PhD.

Date of last modification: 12.02.2021

Approved: prof. RNDr. Peter Kollár, DrSc., doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Ol'ga

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

PFAJKKA/07

Course type, scope and the method:

Course type: Practice

Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: combined, present

Number of ECTS credits: 2

Recommended semester/trimester of the course:

Course level: I., II., N

Prerequisities:

Conditions for course completion:

Active participation in class and completed homework assignments. Students are allowed to miss two classes at the most.

Online teaching (MS Teams), in case of an improved epidemiological situation = on-site teaching. 2 credit tests (presumably in weeks 6/7 and 12/13) and a short oral presentation in English.

The tests will be taken online (MS Teams) during online teaching and in class in case of on-site classes.

The presentation will be sent to the course instructor as a video recording.

Final evaluation consists of the scores obtained for the 2 tests (70%) and the presentation (30%). Final grade will be calculated as follows: A 93-100 %, B 86-92%, C 79-85%, D 72-78%, E 65-71%, FX 64 % and less.

Learning outcomes:

Uplatnenie a aktívne používanie svojich teoretických vedomostí v praktických komunikačných situáciách. Zdokonalenie jazykových vedomostí a zručností študenta, rečovej, pragmatickej a vecnej kompetencie, predovšetkým zlepšujú komunikáciu, schopnosť prijímať a formulovať výpovede, efektívne vyjadrovať svoje myšlienky ako aj orientovať sa v obsahovom pláne výpovede. Precvičovanie rečových intencií kontaktných (napr. pozdravy, oslovenia, pozvanie, oslovenie), informatívnych (napr. získavanie a podávanie informácií, vyjadrenie priestorových a časových vzťahov), regulačných (napr. prosba, poďakovanie, zákaz, pochvala, súhlas, nesúhlas) a hodnotiacich (napr. vyjadrenie vlastného názoru, stanoviska, želania, emócií). Výsledkom budovania praktickej jazykovej kompetencie majú byť vedomosti a zručnosti zodpovedajúce požiadavkám a kritériám dokumentu Spoločný európsky referenčný rámec pre vyučovanie jazykov.

Brief outline of the course:

Rodina, jej formy a problémy

Vyjadrovanie pocitov a dojmov

Dom, bývanie a budúcnosť

Formy a dialekty v anglickom jazyku

Život v meste a na vidieku

Kolokácie a idiomy, zaužívané slovné spojenia

Prázdniny a sviatky vo svete

Životné prostredie a ekológia

Výnimky zo slovosledu

Frázové slovesá a ich použitie

Charakteristiky neformálneho diškurzu

Recommended literature:

www.bbclearningenglish.com

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

Misztal M.: Thematic Vocabulary. SPN, 1998.

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

Principal, 2008.

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

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

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

Course language:

English language, B2 level according to CEFR

Notes:

Course assessment

Total number of assessed students: 241

A	В	С	D	Е	FX
38.59	22.41	19.5	9.54	6.64	3.32

Provides: Mgr. Barbara Mitríková

Date of last modification: 11.02.2021

Approved: prof. RNDr. Peter Kollár, DrSc., doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Ol'ga

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: CJP/ Co

Course name: Communicative Grammar in English

PFAJGA/07

Course type, scope and the method:

Course type: Practice

Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: combined, present

Number of ECTS credits: 2

Recommended semester/trimester of the course:

Course level: I., II., N

Prerequisities:

Conditions for course completion:

Active classroom participation (max. 2x90 min. absences tolerated). 2 test (5th/6th and 12/13th week), no retake. Final evaluation- average assessment of tests. Grading scale: A 93-100%, B 86-92%, C 79-85%, D 72-78%, E 65-71%, FX 64% and less.

Learning outcomes:

Brief outline of the course:

Recommended literature:

Vince M.: Macmillan Grammar in Context, Macmillan, 2008 McCarthy, O'Dell: English Vocabulary in Use, CUP, 1994

C. Oxengen, C. Latham-Koenig: New English File Advanced, Oxford 2010

Misztal M.: Thematic Vocabulary, Fragment, 1998

www.bbclearningenglish.com

ted.com/talks

Course language:

Notes:

Course assessment

Total number of assessed students: 406

A	В	С	D	Е	FX
39.66	18.97	16.75	8.62	5.91	10.1

Provides: Mgr. Lenka Klimčáková

Date of last modification: 14.09.2019

Approved: prof. RNDr. Peter Kollár, DrSc., doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Oľga

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: KGER/ Co

Course name: Communicative Grammar in German Language

NJKG/07

Course type, scope and the method:

Course type: Practice

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

Course method: present

Number of ECTS credits: 2

Recommended semester/trimester of the course:

Course level: I., II.

Prerequisities:

Conditions for course completion:

Learning outcomes:

Brief outline of the course:

Recommended literature:

Course language:

Notes:

Course assessment

Total number of assessed students: 54

Α	В	С	D	Е	FX
59.26	11.11	9.26	3.7	9.26	7.41

Provides: Mgr. Blanka Jenčíková

Date of last modification: 03.05.2015

Approved: prof. RNDr. Peter Kollár, DrSc., doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Ol'ga

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: 15

abs	n
100.0	0.0

Provides: doc. RNDr. Jozef Hanč, PhD.

Date of last modification: 03.05.2015

Approved: prof. RNDr. Peter Kollár, DrSc., doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Oľga

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: IL

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: 9

abs	n
100.0	0.0

Provides: doc. RNDr. Jozef Hanč, PhD.

Date of last modification: 03.05.2015

Approved: prof. RNDr. Peter Kollár, DrSc., doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Ol'ga

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: ÚCHV/ 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: ÚCHV/MPPb/15 and leboÚCHV/MPPb/03 **Conditions for course completion: Learning outcomes: Brief outline of the course: Recommended literature:** Course language: **Notes:** Course assessment Total number of assessed students: 108 abs n 100.0 0.0 Provides: RNDr. Ivana Sotáková, Ph.D., doc. RNDr. Mária Ganajová, CSc. Date of last modification: 03.05.2015 Approved: prof. RNDr. Peter Kollár, DrSc., doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Ol'ga Orosová, CSc.

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: ÚCHV/ 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: ÚCHV/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: 78 abs n 100.0 0.0 Provides: RNDr. Ivana Sotáková, Ph.D., doc. RNDr. Mária Ganajová, CSc. Date of last modification: 03.05.2015 Approved: prof. RNDr. Peter Kollár, DrSc., doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Ol'ga Orosová, CSc.

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: ÚCHV/ **Course name:** Cosmetic chemistry KC/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: 4 Recommended semester/trimester of the course:** 3. Course level: IL **Prerequisities: Conditions for course completion:** Seminar report on the selected subjects of cosmetic chemistry and its oral presentation connected with discussion. Terminal examination by oral form. **Learning outcomes:** The basic chemical ingredients in cosmetic products, their isolation from natural sources. The construction of some interesting groups of the organic structures and their application in cosmetic industry. **Brief outline of the course:** Skin and its components. The chemistry of lipids. Lipids, their classification (triacylglycerols, glycerophospholipids and sfingophoslipids), liposomes as transport systems. Fatty acids and alcohols, natural and synthetic waxes. Surfactants, their classification. Antioxidants. Dyes, their classification, organic and inorganic dyes, natural and synthetic. Biological active compounds (amino acids, peptides, proteins hydroxy acids, vitamins, polysaccharides) as the cosmetic ingredients. The chemistry of fragrances. Compounds derived from shikimic acid and mevalonic acid, their biosynthesis, Synthetic fragrances and their construction. Recommended literature: 1. S. V. Bhat, B. A. Nagasampagi, M. Sivakumar: Chemistry of Natural Products, Springer Narosa 2005, ISBN 81-7319-481-5. 2. G. Ohloff: Scent and Fragrances, Springer-Verlag Berlín Heidelberg 1994, ISBN 3-540-57108-6. 3. D. H. Pybus, CH. S. Sell: The chemistry of fragrances, Royal Society of Chemistry 1999, ISBN 0-8540-528-7. 4. J. McMurry: Organic chemistry, Brooks/Cole, a Thomson Learning Company 2004, Sixth Eddition, ISBN 0534389996.

Course language:

Notes:

Course assessment Total number of assessed students: 86						
A	В	С	D	Е	FX	
79.07	15.12	4.65	1.16	0.0	0.0	

Provides: doc. RNDr. Miroslava Martinková, PhD.

Date of last modification: 06.02.2020

Approved: prof. RNDr. Peter Kollár, DrSc., doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Oľga Orosová, 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: 139 C Α В D Ε FX

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

10.07

Date of last modification: 12.02.2021

30.94

Approved: prof. RNDr. Peter Kollár, DrSc., doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Ol'ga

4.32

1.44

0.0

Orosová, CSc.

53.24

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: 03.05.2015

Approved: prof. RNDr. Peter Kollár, DrSc., doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Ol'ga

	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
Number of ECTS cr	edits: 2
Recommended seme	ster/trimester of the course: 1.
Course level: II.	
Prerequisities:	
Conditions for cours Evaluation of particip of seminar work,	e completion: pation in teaching, continuous evaluation of activity in seminars, evaluation
characterize the norm school age and adoles published in foreign the topics covered. To	nderstand the principles of developmental psychology, and will be able to me 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 influences 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 alool age, in pubescence and adolescence. Parents and their role in child ation of knowledge of developmental psychology in the teacher's practice th students in different developmental stages, creating a teacher-student beet to the development needs of the student.
Říčan, P. Cesta živote Thorová, K. Vývojov	jová psychologie. Portál, Praha 2000 em. Portál, Praha, 2004. rá psychologie. Portál, Praha, 2015. ce. Praha: Portál, 2003

Course language:

Notes:

Course assessm	Course assessment						
Total number of assessed students: 44							
Α	В	С	D	Е	FX		
65.91	22.73	4.55	6.82	0.0	0.0		

Provides: Mgr. Mária Bačíková, PhD.

Date of last modification: 17.02.2021

Approved: prof. RNDr. Peter Kollár, DrSc., doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Ol'ga

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: ÚFV/ Course name: Didactics of Physics I DF1a/15 Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per week: 2 / 2 Per study period: 28 / 28 Course method: present **Number of ECTS credits: 4 Recommended semester/trimester of the course:** 2. Course level: II. **Prerequisities: Conditions for course completion:** teaching plan for two lessons 10p micro teaching activities 20p educational project 20p answering questions during the course 10p end-of course oral examination 40p Learning outcomes: Knowledge and skills in the field of Physics education, overview about the problems of Physics education, basic skills necessary to prepare and quide educational activities, school experiments, problem solving and to use modern media for physics education. Brief outline of the course: Within the Didactics of Physics subject the core problems of physics education are introduced and case studies of their solving are interpreted. Strategies on design and implementation of educational activities, their evaluation and the use of modern media are introduced and corresponding skills are trained. **Recommended literature:** 1.J. Janovič a kol.: Didaktika fyziky, MFF UK Bratislava, 1990 2.J. Janovič a kol.: Vybrané kapitoly didaktiky fyziky, MFF UK Bratislava, 1999 3.E. Kašpar a kol.: Didaktika fyziky, SPN Praha, 1978 4.E. Mechlová: Didaktika fyziky 1, 2, PdF Ostrava, 1989 5.J. Fenclová: Úvod do teórie a metodológie didaktiky fyziky, SPN Praha, 1982 Primary school textbooks for Physics actuall didactic publications Course language:

Slovak, English

Notes:

Course assessment						
Total number of assessed students: 13						
A	В	С	D	Е	FX	
46.15	53.85	0.0	0.0	0.0	0.0	

Provides:

Date of last modification: 28.03.2020

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

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

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

DF1b/15

Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours):

Per week: 2 / 2 Per study period: 28 / 28

Course method: present

Number of ECTS credits: 4

Recommended semester/trimester of the course: 3.

Course level: II.

Prerequisities: ÚFV/DF1a/15

Conditions for course completion:

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

Learning outcomes:

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

Brief outline of the course:

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

Recommended literature:

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

8. Lepil, O. a kol.: Fyzika pre 3. ročník gymnázia. SPN, Bratislava, 1986.

9. Pišút, J. a kol.: Fyzika pre 4. ročník gymnázia. SPN, Bratislava, 1987.

10. Scholtz, E., Kireš, M.: Fyzika - Kinematika pre osemročné gymnáziá, SPN, Bratislava, 2001, 104 strán, ISBN 80-08-02848-3

11.Blaško, M., Gajdušek, J., Kireš, M., Onderová, Ľ.: Molekulová fyzika a termodynamika pre osemročné gymnáziá, SPN, Bratislava, 2004, 120 strán, ISBN 80-10-00008-6

12. Scholtz, E., Kireš, M.: Fyzika - Dynamika pre osemročné gymnáziá, SPN, Bratislava, 2007, 231 strán, ISBN 80-10-00013-2

School textbooks for Physics education at upper secondary level

Course language:

Slovak, English

Notes:

Course assessment

Total number of assessed students: 12

A	В	С	D	Е	FX
83.33	16.67	0.0	0.0	0.0	0.0

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

Date of last modification: 03.05.2015

Approved: prof. RNDr. Peter Kollár, DrSc., doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Oľga Orosová, CSc.

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚCHV/

Course name: Didaktika chémie I

DCH1/15

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: 2.

Course level: II.

Prerequisities: ÚCHV/SPC1a/03

Conditions for course completion:

Learning outcomes:

Brief outline of the course:

Recommended literature:

Course language:

Notes:

Course assessment

Total number of assessed students: 87

A	В	С	D	Е	FX
70.11	17.24	10.34	1.15	1.15	0.0

Provides: doc. RNDr. Mária Ganajová, CSc., RNDr. Ivana Sotáková, Ph.D.

Date of last modification: 03.05.2015

Approved: prof. RNDr. Peter Kollár, DrSc., doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Ol'ga

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚCHV/ C

Course name: Didaktika chémie II

DCH2/15

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: ÚCHV/DCH1/15

Conditions for course completion:

Learning outcomes:

Brief outline of the course:

Recommended literature:

Course language:

Notes:

Course assessment

Total number of assessed students: 108

A	В	С	D	Е	FX
77.78	13.89	6.48	1.85	0.0	0.0

Provides: doc. RNDr. Mária Ganajová, CSc., RNDr. Ivana Sotáková, Ph.D.

Date of last modification: 03.05.2015

Approved: prof. RNDr. Peter Kollár, DrSc., doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Ol'ga

Orosová, CSc.

Page: 36

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: ÚCHV/ Course name: Digitálne technológie vo výučbe chémie DTCU/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:** 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: 10 C Α В D Ε FX 100.0 0.0 0.0 0.00.0 0.0

Provides: doc. RNDr. Mária Ganajová, CSc., RNDr. Ivana Sotáková, Ph.D.

Date of last modification: 03.05.2015

Approved: prof. RNDr. Peter Kollár, DrSc., doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Ol'ga

University: P. J. Šafá	rik University in Košio	ce
Faculty: Faculty of S	cience	
Course ID: ÚCHV/ DPP1/14	Course name: Diplo	ma Project I
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	rse-load (hours): ly period:	
Number of ECTS cr	edits: 1	
Recommended seme	ster/trimester of the	course: 1.
Course level: II.		
Prerequisities:		
Conditions for cours	e completion:	
Learning outcomes:		
Brief outline of the c	ourse:	
Recommended litera	iture:	
Course language:		
Notes:		
Course assessment Total number of asse	ssed students: 61	
	abs	n
	100.0	0.0
Provides:		
Date of last modifica	tion: 03.05.2015	
Approved: prof. RNI Orosová, CSc.	Dr. Peter Kollár, DrSc.	, doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Oľga

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: ÚFV/ Course name: Diploma Project I **DPP1/14** Course type, scope and the method: **Course type: Recommended course-load (hours):** Per week: Per study period: Course method: present **Number of ECTS credits: 1 Recommended semester/trimester of the course:** 1. Course level: II. **Prerequisities: Conditions for course completion:** regular consultations with diploma thesis supervisor about the progress of diploma project development, design of investigation plan **Learning outcomes:** Student has studied the theoretical background, formulates research questions, has designed investigation plan, has presented first results, eventually. **Brief outline of the course:** Development of diploma project **Recommended literature:** Recommended literature that is included in the diploma thesis assignments Regulations for diploma thesis preparation template for diploma thesis Course language: Slovak Notes: Course assessment Total number of assessed students: 10 abs n 100.0 0.0 **Provides:** Date of last modification: 03.05.2015

Orosová, CSc.

Approved: prof. RNDr. Peter Kollár, DrSc., doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Ol'ga

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: ÚFV/ Course name: Diploma Project II DPP2/14 Course type, scope and the method: **Course type:** Recommended course-load (hours): Per week: Per study period: Course method: present **Number of ECTS credits: 2 Recommended semester/trimester of the course:** 2. Course level: II. **Prerequisities: Conditions for course completion:** regular consultaions with diploma thesis supervisor about the progress of diploma project development and about the investigation regular consultations study of available resources connected with the diploma thesis assignments first results **Learning outcomes:** Student understands the methods of investigation and he gains first results. **Brief outline of the course:** Work on the diploma project with regard to the assignemnts of the diploma thesis **Recommended literature:** Recommended literature that is included in the diploma thesis assignments Regulations for diploma thesis preparation template for diploma thesis Course language: Slovak **Notes: Course assessment** Total number of assessed students: 10 abs n 100.0 0.0 **Provides:** Date of last modification: 03.05.2015

Approved: prof. RNDr. Peter Kollár, DrSc., doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Ol'ga

University: P. J. Šafárik University in Košice						
Faculty: Faculty of S	cience					
Course ID: ÚCHV/ DPP2/14	Course ID: ÚCHV/ Course name: Diploma Project II DPP2/14					
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pre	rse-load (hours): ly period:					
Number of ECTS cr	edits: 2					
Recommended seme	ster/trimester of the cours	e: 2.				
Course level: II.						
Prerequisities:						
Conditions for cours	se completion:					
Learning outcomes:						
Brief outline of the c	ourse:					
Recommended litera	nture:					
Course language:						
Notes:						
Course assessment Total number of asse	ssed students: 53					
	abs	n				
100.0 0.0						
Provides:						
Date of last modifica	Date of last modification: 03.05.2015					
Approved: prof. RNI Orosová, CSc.	Dr. Peter Kollár, DrSc., doc.	RNDr. Mária Ganajová, CSc., prof. PhDr. Oľga				

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: ÚCHV/ Course name: Diploma Project III DPP3/14 Course type, scope and the method: **Course type:** Recommended course-load (hours): Per week: Per study period: Course method: present **Number of 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: 66 abs n 100.0 0.0 **Provides:** Date of last modification: 03.05.2015 Approved: prof. RNDr. Peter Kollár, DrSc., doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Ol'ga Orosová, CSc.

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: ÚFV/ Course name: Diploma Project III DPP3/14 Course type, scope and the method: **Course type: Recommended course-load (hours):** Per week: Per study period: Course method: present **Number of ECTS credits: 2** Recommended semester/trimester of the course: 3. Course level: II. **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: 18 abs n 100.0 0.0 **Provides:**

Approved: prof. RNDr. Peter Kollár, DrSc., doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Ol'ga

Date of last modification: 03.05.2015

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚFV/ Course name: Diploma Thesis and its Defence

DPOU/14

Course type, scope and the method:

Course type:

Recommended course-load (hours):

Per week: Per study period: Course method: present

Number of ECTS credits: 15

Recommended semester/trimester of the course:

Course level: IL

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: 18

A	В	С	D	E	FX
77.78	11.11	11.11	0.0	0.0	0.0

Provides:

Date of last modification: 03.05.2015

Approved: prof. RNDr. Peter Kollár, DrSc., doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Ol'ga

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚCHV/ Course nam

DPOU/14

Course name: Diploma Thesis and its Defence

Course type, scope and the method:

Course type:

Recommended course-load (hours):

Per week: Per study period: Course method: present

Number of ECTS credits: 15

Recommended semester/trimester of the course:

Course level: II.

Prerequisities: ÚCHV/DPP3/14

Conditions for course completion:

Learning outcomes:

Brief outline of the course:

Recommended literature:

Course language:

Notes:

Course assessment

Total number of assessed students: 62

A	В	С	D	Е	FX
79.03	17.74	3.23	0.0	0.0	0.0

Provides:

Date of last modification: 03.05.2015

Approved: prof. RNDr. Peter Kollár, DrSc., doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Ol'ga

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: ÚCHV/ Course name: Diplomový seminár z chémie pre XCH DSU1a/10 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: 8 abs n 100.0 0.0 Provides: doc. RNDr. Mária Ganajová, CSc. Date of last modification: 03.05.2015 Approved: prof. RNDr. Peter Kollár, DrSc., doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Ol'ga Orosová, CSc.

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: ÚCHV/ Course name: Diplomový seminár z chémie pre XCH DSU1b/10 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: Learning outcomes: Brief outline of the course: Recommended literature:** Course language: **Notes:** Course assessment Total number of assessed students: 6 abs n 100.0 0.0 Provides: doc. RNDr. Mária Ganajová, CSc. Date of last modification: 03.05.2015 Approved: prof. RNDr. Peter Kollár, DrSc., doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Ol'ga Orosová, CSc.

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:

Students can get a maximum of 90 points for the course: Part 1 of the assessment: participation in the training (30p) - replaces the classic lessons, students choose the date of the training at the introductoryfirst meeting to the course, therefore their participation is necessary. As the training takes place in two days, participation in the entire training is required. If it is impossible to participate in both days of training, the student must change to another date of training, which he will be able to complete. The training takes place partly over the weekend and also outside the school or in the training center in Danišovce (it starts on Thursday evening and ends on Saturday with lunch). The costs of accommodation, meals and travel are paid by the student himself. 2nd part of assessment: workshops (20p) - they replace classic lectures, are held 4 times per semester and for each workshop the student can get 5p (a total of 20p for workshops). Part 3 of the assessment - preparation (10p) and implementation (10p) of block activities in pairs - a total of 20b. Students must send the prepared preparation of the block of activities on the chosen topic for the pair or an individual, which is evaluated with a maximum of 10 points, no later than one week before the date of their training. The preparation should include a clear goal, a description of the selected activities and their goals and justification on the topic, a description of the necessary tools, preparation of questions for discussion as well as activities in stock. The preparation will then be consulted by the lecturers and a possible correction will still be possible. The actual implementation of training activities will be evaluated by a maximum of 10 points, while evaluating the adequacy of selected activities with respect to the selected topic, to fulfill the goal of activities, ability to stimulate group discussion, equal distribution of all members in the group block with other members in the group. The minimum that needs to be achieved from the preparation and implementation of activities is at least 11 points. Part 4 of the assessment - knowledge test (20b). The exam will consist of 5-6 questions related to prevention and the social skills needed in prevention. Students will be able to answer these questions based on the study literature and participation in the training. The minimum number of points required for successful completion of the course in this part of the evaluation is 11 points. In total, students can get 90bp per subject and the final evaluation is as follows: 90 - 82: A 81 - 73: B 72-66: C 65 - 59: D 58 - 54: E 53 and less: FX. Any modifications to the implementation of the course in connection with the current order of the Rector are listed in the electronic board of the course.

Learning outcomes:

To provide students with more detailed information on the psychological aspects of drug prevention through an interesting, engaging explanation of theory and practice. Development of skills for the work of teachers in the field of drug use prevention also thanks to the use of experiential methods in teaching and the possibility of developing professional skills in the work of a teacher and a prevention coordinator at school.

Brief outline of the course:

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.

Course language:

slovak

Notes:

Course assessment

Total number of assessed students: 321

A	В	С	D	Е	FX
50.78	40.19	8.1	0.93	0.0	0.0

Provides: prof. PhDr. Oľga Orosová, CSc., Mgr. Marta Dobrowolska Kulanová, PhD., Mgr. Lucia Barbierik, PhD.

Date of last modification: 16.02.2021

Approved: prof. RNDr. Peter Kollár, DrSc., doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Oľga Orosová, CSc.

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:

Overall rating:

- -Evaluation requirements:
- a) Active work during the whole semester, continuous control of study results in exercises during the teaching part of the semester in the range of maximum 5 points.

Preparation and presentation of a case study on a selected topic - max. 15 points.

A more detailed explanation of the assignment and the work schedule of students will be the subject of an agreement for the 1st exercise of the semester.

a) Presentation and processing of case studies from the school environment in a minimum range of 3 standard pages.

Structure:

- -Introduction
- -Description of the case / problem
- -Suggestions for solutions from the position of an educational consultant.

Maximum number of points per case report: 15

(evaluation: 5 points - presentation, 5 points - introduction and description of the problem, 5 points

- suggestions for solution)
- b) Preparation and presentation of the project on a selected topic number of points for presentation and written processing max. 30

Maximum number of points from the subject: 50

Minimum number required to complete the course: 31

Current modifications of the course are listed in the electronic bulletin board of the course before the beginning of each semester.

Overall rating scale:

30 and less FX

31 - 34 E

35 - 38 D

39 - 42 C

43 - 46 B

47 - 50 A

Learning outcomes:

To provide students with quality and up-to-date information regarding the content of the work of an educational counselor and to introduce them to the issue of educational counseling in the school space. The content and formal aspects of the course are designed to not only expand students' theoretical knowledge and orientation in the organization and legislation on the system of educational counseling in our schools, but also to apply the acquired knowledge in practice. The teaching of the subject is closely connected with the practice, which increases the possibility of employment of the graduate of the subject.

Brief outline of the course:

Educational counseling in the education system, the role and position of the educational counselor in the school.

Cooperation between school and family, the main principles of conducting a counseling interview with the student and the parent.

Issues of school maturity, adaptation to the 1st year of elementary school. Identification of gifted children, possibilities of their education. The role of an educational counselor, cooperation with a psychologist in enrollment and in the first half of the first year of elementary school.

Specific developmental learning disorders, integration of students with SEP learning in primary and secondary school.

ADHD - identification, diagnostics, specifics of children with ADHD in the teaching process, the procedure for solving problems arising from ADHD at school

Autism spectrum disorders, Asperger's syndrome. identification, diagnostics, specifics of children with this type of disorder in the teaching process, the procedure for solving problems at school Pupils' behavioral disorders - characteristics of behavioral disorders, identification and diagnostics, possible solutions in the school environment. Aggressive behavior of students at school, manifestations, causes, solutions to aggressive behavior

Crisis intervention.

Career choice and career development advice. Possibilities of VP and cooperation with CPPPaP.

Recommended literature:

Základná a odporúčaná literatúra je dostupná. Študentom budú sprostredkovávané v priebehu semestra aktuálne materiály týkajúce sa tém predmetu.

Základná štúdijná literatúra:

Mertin, V., Krejčová, L. a kol.: Výchovné poradenství, Praha: Wolters Kluwer, 2013 Odporúčaná študijná literatúra:

Beranová, E. a kol.: Metodický pruvodce výchovného poradce. Praha: Raabe, 2014

Fontana David: Psychologie ve školní praxi, Praha: Portál, 2003

Kyriacou, Chris: Řešení výchovných problémů ve škole. Praha: Portál, 2005

Šefránková, Mária: Výchovný poradca . Bratislava : Iris, 2007

Vendel, Š. (2008): Kariérní poradenství. Praha: Grada.

Vendel, Š.: Poradenstvo pri vol'be povolania. In: Sprievodca triedneho učitel'a, str.1-54, 2006,

ISBN 80-89182-03-8, Bratislava: vydavateľstvo Raabe.

Čáp, Mareš: Psychologie pro učitele. Praha: Portál

Vendel, Š. (2007): Pedagogická psychológia. Bratislava: Epos.

Pokorná, Věra: Teorie a náprava vývojových poruch učení a chování. Praha: Portál, 2001

Šefránková, Mária: Výchovný poradca. Bratislava Iris 2007.

Vágnerová, Marie: Školní poradenská psychologie pro pedagogy. Praha: Karolinum, 2005

Pešová, Ilona: Poradenská psychologie pro děti a mládež. Praha: Grada, 2006

Španteková, N. a kol. Krízová intervence pro praxi. Praha: Grada, 2011.

Matějček, Z.: Praxe dětského psychologického poradenství. Praha: Portál, 2011

Sheedy-Kurcinka, Mary: Problémové dítě v rodině a ve škole. Praha: Portál, 1998

Ronenová, T: Psychologická pomoc dětem v nesnázích : kognitivně-behaviorální přístupy při

práci s dětmi. Praha: Portál, 2000

Martin, V.: Jak řešit problémy deti se školou. Praha: Portal, 1997 Hvozdík, j.: Základy školskej psychológie. Bratislava: SPN, 1986. Koščo, Jozef: Poradenská psychológia. Bratislava: SPN, 1987

Course language:

Notes:

Course assessment

Total number of assessed students: 148

A	В	С	D	Е	FX
62.84	22.97	8.78	4.05	1.35	0.0

Provides: PhDr. Anna Janovská, PhD.

Date of last modification: 17.02.2021

Approved: prof. RNDr. Peter Kollár, DrSc., doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Ol'ga

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:**

Notes:

Course assessment

Course language:

Total number of assessed students: 429

A	В	С	D	Е	FX
54.55	26.34	13.05	4.66	1.17	0.23

Provides: Mgr. Katarína Petríková, PhD.

Date of last modification: 12.02.2021

Approved: prof. RNDr. Peter Kollár, DrSc., doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Ol'ga

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: 299

A	В	С	D	Е	FX
47.16	37.12	13.71	2.01	0.0	0.0

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

Date of last modification: 12.02.2021

Approved: prof. RNDr. Peter Kollár, DrSc., doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Ol'ga

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

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

VBF2/15

Course type, scope and the method:

Course type: Lecture

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

Course method: present

Number of ECTS credits: 3

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

Course level: II.

Prerequisities:

Conditions for course completion:

Exam

Learning outcomes:

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

Brief outline of the course:

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

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

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

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

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

Recommended literature:

- 1. M. B. Jackson, Molecular and cellular biophysics, Cambridge University Press, 2006.
- 2. M. Daune, Molecular biophysics-Structures in motion, Oxford University Press, 2004.
- 3. R. Glaser, Biophysics, Springer Verlag, 2001.
- 4. M.V. Volkenštein, Biofizika, Nauka, Moskva 1988.
- 5. W.Hoppe and W. Lohmann, Biophysics, Springer Verlag, 1988.

6. K.E.van Holde, W.C. Johnson and P. Shing Ho, Principles of physical biochemistry, Simon and Schuster, Prentice Hall, 1998.7. D.G. Nichols and S.J. Ferguson, Bioenergetics 3, Academic Press, Elsevier Science Ltd., 2002.

Course language:

Slovak

Notes:

Course assessment

Total number of assessed students: 9

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

Provides: doc. Mgr. Daniel Jancura, PhD.

Date of last modification: 03.05.2015

Approved: prof. RNDr. Peter Kollár, DrSc., doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Oľga

	COURSE IN ORMATION LETTER
University: P. J. Šafa	árik University in Košice
Faculty: Faculty of	Science
Course ID: ÚFV/ DEJ1/99	Course name: History of Physics
Course type, scope Course type: Lectu Recommended cou Per week: 2 Per stu Course method: pr	ure urse-load (hours): udy period: 28
Number of ECTS c	redits: 2
Recommended sem	ester/trimester of the course: 2.
Course level: I., II.	
Prerequisities:	
Conditions for cour written test and thes exam	<u>=</u>
Learning outcomes Basic facts in the his	
world. Evolution are evolution of the theo and their application	edge before Galileo. Evolution of physics within the mechanical picture of the ad limits of classical physics, phase of breakthrough in physics. Origin and bry of relativity. Quantum physics and prospects of further evolution of physics and Contemporary state of physical research and its application in technology, philosophy. Position of physics in our society.
2. V.Malíšek: Co vít 3. I.Kraus, Fyzika v Praha, 2006. 4. A.I.Abramov: Isto 5. L.I.Ponomarev: P 6. I.Kraus, Fyzika v ČVUT, Praha, 2007. 7. I.Kraus, Fyzika od 8. I.Štoll, Dějiny fyz 9. www-pages. 10.Brandt S., The ha 2009.	n: Dejiny fyziky, skriptá, MFF UK, Bratislava, 1982. e o dějinách fyziky, Horizont, Praha, 1986. kulturních dějinách Evropy, Starověk a středověk, Nakladatelství ČVUT, oria jadernoj fiziky, KomKniga, Moskva, 2006. od znakom kvanta, Fizmatlit, Moskva, 2006. kulturních dějinách Evropy, Od Leonarda ke Goethovi, Nakladatelství
Course language:	

Page: 57

Notes:

Course assessm	Course assessment					
Total number of assessed students: 31						
Α	В	С	D	Е	FX	
80.65	9.68	9.68	0.0	0.0	0.0	

Provides: prof. RNDr. Stanislav Vokál, DrSc., doc. RNDr. Janka Vrláková, PhD.

Date of last modification: 30.03.2020

Approved: prof. RNDr. Peter Kollár, DrSc., doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Oľga Orosová, CSc.

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: Course name: Introduction into Psychology of Religion

KPPaPZ/UPN/17

Course type, scope and the method:

Course type: Practice

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

Course method: present

Number of 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.

Learning outcomes:

The aim of the subject is to gain a basic overview of the origin and current state of knowledge in the field of research and application of the psychology of religion. Students will aquire basic knowledge need for orientation in the field and emphasis will be given to individual reflection and critical thinking as well as application of already acquired knowledge from other (psychological) disciplines.

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: 11

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

Provides: Mgr. Jozef Benka, PhD. et PhD.

Date of last modification: 18.02.2021

Approved: prof. RNDr. Peter Kollár, DrSc., doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Ol'ga

	COURSE INFORMATION LETTER
University: P. J. Šafá	rik University in Košice
Faculty: Faculty of S	cience
Course ID: ÚCHV/ UECH/03	Course name: Introduction to Environmental Chemistry
Course type, scope a Course type: Lectur Recommended cour Per week: 2 / 1 Per Course method: pre	re / Practice rse-load (hours): study period: 28 / 14
Number of ECTS cr	edits: 5
Recommended seme	ster/trimester of the course: 1., 3.
Course level: I., II.	
Prerequisities:	
Conditions for cours Oral examination	e completion:
Learning outcomes: Introduction to topics protection.	s in environmental chemistry and basic procedures applied for environmental
atmosphere. Energy photoprocesses in the environmental pollut Environmental chemimetals). Environmentals) Environmental chemimetals) Environmentals) Environmentals) Environmentals) Environmentals) Environmentals) Environmentals) Environmentals) Environmentals) Environmentals)	
Oxford University Pr 2. R.A. Bailey, H.M. Academic Press, San 3. G. Schwedt: The E 4. R.N. Reeve, J.D. E 5. G. Burton, J. Holm London 1994 6. www	, Stephen J. Duffy: Environmental Chemistry - A Global Perspective, ess, Oxford 2003 Clark, J.P. Ferris, S. Krause, R.L. Strong: Chemistry of the Environment,
Course language:	

Notes:

Course assessment							
Total number of assessed students: 216							
A	В	C	D	Е	FX		
49.54	20.83	15.28	8.33	6.02	0.0		

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

Date of last modification: 20.09.2017

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

University: P. J. Šafá	rik University in Košice
Faculty: Faculty of S	cience
Course ID: ÚCHV/ FUMCH1/03	Course name: Introduction to Material Chemistry
Course type, scope a Course type: Lectur Recommended cou Per week: 2 / 1 Per Course method: pre	re / Practice rse-load (hours): study period: 28 / 14
Number of ECTS cr	edits: 5
Recommended seme	ster/trimester of the course: 1., 3.
Course level: I., II.	
Prerequisities:	
Conditions for cours Seminar work. Examination.	se completion:
Learning outcomes: To present the diffe properties.	rent types of functional materials, their atomic structure and mechanical
engineering. Material bonding. Amorphous Crystal lattice defects Deformations and fail Intermediary phases. Phase identification resteel. Light metals. A materials. Ceramic to Glass. Building binderials.	es. Materials and human being. Participation of natural science in material l revolutions. Classification of materials. Atomic structure and interatomic and crystalline materials. Mechanics of materials. Imperfections in solids. S. Point defects. Line defects. Dislocations. Diffusion. Diffusion mechanisms. clures, re-crystallization. Deformations. Plastic deformations. Solid solutions. Phases in ceramic systems. Phase transformations. Crystallization of metals. nethods. Stress and strain. Structure of metallic and ceramic materials. Alloys. Metallic glasses. Gold. Inorganic non-metallic materials. Ceramic construction pols. Bio-ceramics. Ceramics in cosmos. High-temperature superconductors. ers. Polymers. Essence of polymers. Thermoplastics. Reactoplastics. Polymer l properties of polymers. Natural materials. Wood. Bones. Teeth. Conchs and
2001.	undamentals of Materials Science and Engineering, John Wiley & Sons, Introduction to Materials Engineering and Science: For Chemical and
2004.	
Course language:	

Notes:

Course assessm	Course assessment						
Total number of assessed students: 77							
Α	В	С	D	Е	FX		
89.61	9.09	0.0	0.0	0.0	1.3		

Provides: prof. RNDr. Renáta Oriňaková, DrSc.

Date of last modification: 20.09.2017

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

	COURSE INFORMATION LETTER
University: P. J. Šafá	rik University in Košice
Faculty: Faculty of S	cience
Course ID: ÚFV/ FEP1/07	Course name: Microcomputer Based Science Laboratory
Course type, scope a Course type: Lectu Recommended cou Per week: 1/2 Per Course method: pro	re / Practice rse-load (hours): study period: 14 / 28
Number of ECTS cr	redits: 4
Recommended seme	ester/trimester of the course:
Course level: II.	
Prerequisities:	
points	-
active learning in sc the help of dataloggi	ent gains an overview about the possible use of digital technologies to support ience. He gains skills to use and develop activities on measuring data with ng, measuring on picture and viderecording and modeling natural processes. In plement such activities in science teaching to support active learning and
in science with the modeling is based of carry out computer-b corresponding mode	rse is to present the use of digital technologies to enhance active learning help of datalogging, videomeasurement and modeling tools. Mathematical on dynamical modeling of natural phenomena. Within the course students ased experiments, videomeasurements and measurement on picture and create ls. The activities involve selected topics of secondary schools science. The the methods of implementation of the activities with regard to active students
podporovanom labor [2]Príručka COACH	n, I.: Fyzikálne experimenty a modely v školskom mikropočítačom ratóriu, Univerzita Komenského, Bratislava, 1999
Slovak	

Notes:

Course assessm	Course assessment							
Total number of assessed students: 34								
Α	В	С	D	Е	FX			
44.12	44.12	11.76	0.0	0.0	0.0			

Provides: doc. RNDr. Zuzana Ješková, PhD.

Date of last modification: 03.05.2015

Approved: prof. RNDr. Peter Kollár, DrSc., doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Oľga Orosová, CSc.

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: Course name: Mobbing, Violence and Their Prevention

KPPaPZ/SNP/09

Course type, scope and the method:

Course type: Practice

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

Course method: present

Number of ECTS credits: 2

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

Course level: II.

Prerequisities:

Conditions for course completion:

Active participation in seminars. Processing of current research results related to bullying and subsequent presentation at a seminar. Implementation of bullying prevention activities in class.

Learning outcomes:

The student will acquire the latest information about bullying in schools and its consequences, about solving problematic situations associated with bullying as well as about possible ways of prevention. Within the seminars, students will develop professional skills through the implementation of prevention activities. At the same time, their sensitivity to the issue of bullying and their willingness to actively address it during their pedagogical practice will increase.

Brief outline of the course:

Aggressive behavior. Characteristics of actors of bullying (personality, characteristics of family environment). Manifestations and possible causes of bullying. Bullying as a group process. The role of teacher, school and parent in solving bullying. Possibilities of prevention of bullying at the level of school, class, individuals. Primary, secondary and tertiary prevention. Socio-psychological activities used in the prevention of bullying.

Recommended literature:

Kolář, M.: Bolest šikanování. Cesta k zastavení epidemie šikanování ve školách. Portál, Praha, 2001

Jánošová a kol. Psychologie školní šikany. Grada, Praha, 2016

Říčan, P.: Agresivita a šikana mezi dětmi. Portál, Praha, 1995

Course language:

Notes:

Course assessment

Total number of assessed students: 143

A	В	С	D	Е	FX
80.42	17.48	1.4	0.7	0.0	0.0

Provides: Mgr. Mária Bačíková, PhD.

 $\textbf{Date of last modification:}\ 16.02.2021$

Approved: prof. RNDr. Peter Kollár, DrSc., doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Oľga Orosová, CSc.

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

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

MDT06/19

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., 4.

Course level: II.

Prerequisities:

Conditions for course completion:

All assignments must be uploaded by a student and accepted by a teacher according to assessment criteria.

Active participation at the seminar with minimum 80% participation.

Learning outcomes:

Student graduated from subject will be able:

- recognise basic tools for teaching activities,
- to use all types of actual tools in education of science or humanities,
- to design and realise educational activities by using modern technologies.

Brief outline of the course:

- 0. Introduction
- 1. Cloud services
- 2. Digital notebooks
- 3. Digital imaging
- 4. Digital image processing
- 5. Digital text processing
- 6. Digital audio processing
- 7. Digital video, processing, videoconferencing
- 8. Google online services
- 9. Interactive didactical system (whiteboard, e-voting system, tablet)
- 10. Computer based laboratories
- 11. Digital technologies and virtual experiments
- 12. Didigital teacher's workspace

Recommended literature:

- 1. Kireš, M. et al.: Modern didactical technics in teacher practice, Košice: Elfa, 2010, ISBN 788080861353
- 2. actuall information from web sites related to didactical technologies,
- 3. catalogues of teaching tools,
- 3. actuall articles about modern trends in science and humanities education.

Course language:

Slovak, English

Notes:

Course assessment

Total number of assessed students: 50

A	В	С	D	Е	FX
34.0	44.0	14.0	4.0	4.0	0.0

Provides: doc. RNDr. Jozef Hanč, PhD.

Date of last modification: 31.03.2020

Approved: prof. RNDr. Peter Kollár, DrSc., doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Ol'ga

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.

Course level: II.

Prerequisities:

Conditions for course completion:

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

Exam and defending own project

Learning outcomes:

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

Brief outline of the course:

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

Recommended literature:

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

Course language:

Slovak

Notes:

Course assessment

Total number of assessed students: 3

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

Provides: doc. RNDr. Jozef Hanč, PhD.

Date of last modification: 02.05.2017

Approved: prof. RNDr. Peter Kollár, DrSc., doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Ol'ga

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: 65 \mathbf{C} Α В D Ε FX 73.85 23.08 3.08 0.0 0.0 0.0

Provides: Mgr. Katarína Petríková, PhD.

Date of last modification: 12.02.2021

Approved: prof. RNDr. Peter Kollár, DrSc., doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Ol'ga

Orosová, CSc.

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: 21 C Α В D Ε FX 90.48 4.76 4.76 0.0 0.0 0.0 Provides: PaedDr. Janka Ferencová, PhD.

Date of last modification: 12.02.2021

Approved: prof. RNDr. Peter Kollár, DrSc., doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Ol'ga

Orosová, CSc.

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: KPE/

Course name: Pedagogy and Psychology

PPD/15

Course type, scope and the method:

Course type:

Recommended course-load (hours):

Per week: Per study period: Course method: present

Number of ECTS credits: 1

Recommended semester/trimester of the course:

Course level: II.

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

Conditions for course completion:

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

Learning outcomes:

Verification of the acquired competencies of the student in accordance with the profile of the graduate.ie required number of credits in the prescribed composition by the study plan.

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: 444							
A	В	С	D	Е	FX		
29.73	25.0	25.9	15.54	3.6	0.23		

Provides:

Date of last modification: 17.02.2021

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚFV/ | Course name: Phase Transitions and Critical Phenomena

FPK1/15

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:

Grade

Learning outcomes:

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

Brief outline of the course:

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

Recommended literature:

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

Course language:

Slovak

Notes:

Course assessment

Total number of assessed students: 44

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

Provides: prof. RNDr. Andrej Bobák, DrSc.

Date of last modification: 19.02.2021

Approved: prof. RNDr. Peter Kollár, DrSc., doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Ol'ga

Orosová, CSc.

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

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

FYU1/15

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.

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: 16

Total Indition of disposited Statement. 10						
A	В	С	D	Е	FX	
100.0	0.0	0.0	0.0	0.0	0.0	

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

Date of last modification: 23.01.2020

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

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

MSSU/15

Course type, scope and the method:

Course type:

Recommended course-load (hours):

Per week: Per study period: Course method: present

Number of ECTS credits: 1

Recommended semester/trimester of the course:

Course level: II.

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

Conditions for course completion:

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

Learning outcomes:

Competencies in accordance with the graduate profile.

Brief outline of the course:

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

Physics:

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

Didactics of physics:

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

Recommended literature:

Course language:

Slovak

Notes:

Course assessment

Total number of assessed students: 8

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

Provides:

Date of last modification: 11.04.2017

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:

Active participation in seminars - 5 points

Research presentation (individual) - 10 points presentation; 10 points - written processing - a total of 20 points

Paper from the topics covered - 5 questions / 1 question maximum 5 points - a total of 25 points \sum semester points: 50

Minimum number for completing the course - 31

Current information is available in el. the notice board of the subject before the beginning of each semester.

Learning outcomes:

Students will gain quality and up-to-date information on problem behavior of children and adolescents, including aggressive behavior, its etiology, prevention and intervention from the position of a teacher. Emphasis is placed on the independence and activity of students with an emphasis on linking theory with practice. Students will acquire knowledge and skills that develop their professional competencies and are applicable in the practice of the teacher.

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:

Study literature and material are available and will be supplemented with current information that will be provided to students.

Vágnerová, M. (2005). Školní poradenská psychologie pro pedagogy. Praha: Karolinum.

Fontana, D. (2003). Psychologie ve školní praxi. Praha: Portál.

Train, A. (2001). Nejčastější poruchy chování dětí. Jak je rozpoznat a kdy se obrátit na odborníka. Praha: Portál.

Čáp, J., Mareš, J. (2007). Psychologie pro učitele. Praha. Portál

Matoušek, O., Matoušková, A. (2011). Mládež a delikvence. Možné příčiny, současná struktura, programy prevence kriminality mládeže. Praha: Portál.

Rogge, J.U. (1999). Dětské strachy a úzkosti. Praha: Portál.

Course language:

Notes:

Course assessment

Total number of assessed students: 33

A	В	С	D	Е	FX
75.76	24.24	0.0	0.0	0.0	0.0

Provides: PhDr. Anna Janovská, PhD.

Date of last modification: 17.02.2021

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. Any adjustments to the implementation of the course in connection with the current order of the Rector and the exact criteria and method of evaluation are listed in the electronic board of the course.

Learning outcomes:

Getting acquainted with the teaching ethics and ethics of an educational counselor as one of the branches types of professional ethics, the subject of which is a theoretical reflection on ethical and moral issues teaching profession and the function of educational counselor (including the formulation of moral values, principles and standards of the teaching profession and the function of educational counselor in the form of codes of ethics) and on the other hand, it also includes the search for answers or solutions to practical moral problems. Students have the opportunity to freely discuss moral and ethical issues, which encourages their critical thinking. Teaching uses several methods, while the knowledge is presented in the form of an interesting explanation supplemented by experiential activities. Students will gain knowledge and experience in solving personal moral and ethical problems in pedagogical practice as well as in the use of this issue in education, which supports the development of their professional skills. The basis of teacher ethics and the ethics of an educational counselor is an interdisciplinary approach based on the interaction of philosophy, ethics, pedagogy and psychology.

Brief outline of the course:

Professional ethics, Ethics in helping professions, Pedagogical and teaching ethics, Concepts of teacher ethics, Ethics of work of educational counselor, Ethical and moral issues, Code of ethics, Psychology of morality, Moral reasoning, Moral conduct, Moral emotions, Solving moral and ethical dilemmas.

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. 2009. Uplatnenie princípov a hodnôt etiky sociálnych dôsledkov v učiteľskej etike. Prešov: FF PU,2009. 222 s. ISBN 978-80-555-0042-3

Campbell, E. 2003. 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: 333

A	В	С	D	Е	FX	
95.5	3.9	0.6	0.0	0.0	0.0	

Provides: Mgr. Lucia Barbierik, PhD.

Date of last modification: 16.02.2021

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:

Continuous assessment and examination.

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

Learning outcomes:

Understanding of psychological, pedagogical-psychological peculiarities of experience and behavior

of the teacher and the pupil, development of skills necessary for professional, competent performance of teaching practice.

Acquisition and understanding of psychological knowledge necessary for working with students with educational problems, with disadvantaged pupils.

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: 1432

A	В	С	D	Е	FX
10.47	18.37	23.04	23.25	22.0	2.86

Provides: prof. PhDr. Oľga Orosová, CSc., Mgr. Lucia Barbierik, PhD., PhDr. Anna Janovská, PhD.

Date of last modification: 16.02.2021

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. Any adjustments to the implementation of the course in connection with the current order of the Rector and the exact criteria and method of evaluation are listed in the electronic board of the course.

Learning outcomes:

The key task of this course is to provide future teachers with quality information about the specifics of working with the gifted through understanding the basic factors and process of creativity, clarify methods of identifying giftedness, focus on supporting and developing giftedness in practice and ensure the development of professional skills. The teaching presents many current topics and encourages students to discuss practical problems arising not only in working with the gifted but also in the implementation of a creative-humanistic approach in education. The curriculum overlap is evident mainly with other subjects dealing with developmental and pedagogical psychology, methodology of pedagogical-psychological research, etc.

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:

Povinná literatúra:

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 Odporúčaná literatúra:

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

Course language:

slovak

Notes:

Course assessment

Total number of assessed students: 28

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

Provides: Mgr. Lucia Barbierik, PhD.

Date of last modification: 16.02.2021

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: Course name: Psychology of Health KPPaPZ/PsZ/15 Course type, scope and the method: Course type: Practice **Recommended course-load (hours):** Per week: 2 Per study period: 28 Course method: present Number of ECTS credits: 2 Recommended semester/trimester of the course: 3. Course level: II. **Prerequisities: Conditions for course completion:** Active participation in seminars, preparation and presentation of seminar work, final evaluation **Learning outcomes:** The aim of the course is to provide students with the latest knowledge and background of Health Psychology as well as forms of its application in order to improve the mental and physical health of individuals and society. The graduate of the course will understand the principles of health psychology, will be familiar with the current social discourse on the topics covered. The student will learn to use the acquired knowledge in school practice. **Brief outline of the course:** 1. Health psychology. Definition of health. Bio-psycho-social model of health. 2. Mental health and quality of life, well being. 3. Physiological aspects of mental health, lifestyle 4. Stress. Coping, resilience. 5. Psychosomatic diseases, placebo. 6. Social support and its importance for health. 7. Burnout syndrome. 8. The meaning of life, faith. 9. Health-related behavior and prevention. Risky behavior, excessive use of the Internet and screens. 10. Socio-economic inequalities in health. Unemployment and health. **Recommended literature:** Křivohlavý, J.: Psychologie zdraví. Praha: Portál, 2001 Kebza, V.: Psychosociální determinanty zdraví. Praha: Academia, 2005 Křivohlavý, J.: Psychologie nemoci. Praha: Grada, 2002 Sarafino, E.P.: Health Psychology: Biopsychosocial Interactions, John Wiley & Sons, 2007 Taylor, E.: Health Psychology. Singapore: McGraw-Hill, 2006 Vollrath M.E.: Handbook of Personality and Health. Chichester: John Wiley & Sons, 2006 Course language:

Notes:

Course assessment							
Total number of assessed students: 81							
A	В	С	D	Е	FX		
100.0	0.0	0.0	0.0	0.0	0.0		

Provides: Mgr. Mária Bačíková, PhD.

Date of last modification: 16.02.2021

Approved: prof. RNDr. Peter Kollár, DrSc., doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Ol'ga

Orosová, CSc.

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: 25 abs n 100.0 0.0 Provides: doc. PaedDr. Ivica Hajdučeková, PhD. Date of last modification: 16.02.2019 Approved: prof. RNDr. Peter Kollár, DrSc., doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Ol'ga Orosová, CSc.

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚFV/ Course name: Scheduled practice teaching

Course type, scope and the method:

Course type: Practice

MPPb/15

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,KPE/PDU/15,(KPPaPZ/PaSPP/09 and leboKPPaPZ/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: 64

abs n 100.0 0.0

Provides: doc. RNDr. Jozef Hanč, PhD.

Date of last modification: 03.05.2015

Approved: prof. RNDr. Peter Kollár, DrSc., doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Oľga

Orosová, CSc.

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: ÚCHV/ 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,KPE/PDU/15,(KPPaPZ/PaSPP/09 and leboKPPaPZ/PPgU/15) **Conditions for course completion: Learning outcomes: Brief outline of the course: Recommended literature:** Course language: **Notes:** Course assessment Total number of assessed students: 245 abs n 100.0 0.0 Provides: RNDr. Ivana Sotáková, Ph.D., doc. RNDr. Mária Ganajová, CSc. Date of last modification: 03.05.2015 Approved: prof. RNDr. Peter Kollár, DrSc., doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Ol'ga Orosová, CSc.

	COURSE INFORMATION LETTER
University: P. J. Šaf	árik University in Košice
Faculty: Faculty of	Science
Course ID: ÚFV/ FEP1/15	Course name: School Computer-Based Physical Laboratory
Course type, scope Course type: Lectu Recommended cou Per week: 2 / 1 Per Course method: pr	re / Practice rse-load (hours): study period: 28 / 14
Number of ECTS c	redits: 3
Recommended sem	ester/trimester of the course: 3.
Course level: II.	
Prerequisities:	
Test 30 points active participation	t is based on the sum of partial results
active learning in ph help of datalogging,	dent gains an overview about the possible use of digital technologies to support tysics. He gains skills to use and develop activities on measuring data with the measuring on videorecordings and picture and modeling physical processes. Implement such activities in physics teaching to support active learning and
in science with the modeling tools. Mat Within the course measurement on the of secondary school	course: arse is to present the use of digital technologies to enhance active learning help of datalogging, videomeasurement, measurement from the picture and thematical modeling is based on dynamical modeling of physical phenomena. students carry out computer-based experiments, videomeasurements and picture and create corresponding models. The activities involve selected topics I physics. The emphasize is put on the methods of implementation of the d to active students' learning.
podporovanom labo [2]Príručka COACH	n, I.: Fyzikálne experimenty a modely v školskom mikropočítačom ratóriu, Univerzita Komenského, Bratislava, 1999
Slovak	

Notes:

Course assessm	Course assessment							
Total number of assessed students: 10								
A	В	С	D	Е	FX			
70.0	30.0	0.0	0.0	0.0	0.0			

Provides: doc. RNDr. Zuzana Ješková, PhD.

Date of last modification: 03.05.2015

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

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

PSP1a/05

Course type, scope and the method:

Course type: Practice

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

Course method: present

Number of 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: 75

A	В	С	D	Е	FX
49.33	20.0	17.33	6.67	4.0	2.67

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

Date of last modification: 03.05.2015

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

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

PSP1b/04

Course type, scope and the method:

Course type: Practice

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

Course method: present

Number of ECTS credits: 2

Recommended semester/trimester of the course: 2.

Course level: II.

Prerequisities:

Conditions for course completion:

continuous written tests being active in practises

final oral examination

Learning outcomes:

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

Brief outline of the course:

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

Recommended literature:

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

Course language:

Slovak

Notes:

Course assessment

Total number of assessed students: 67

A	В	С	D	Е	FX
52.24	10.45	29.85	4.48	1.49	1.49

Page: 100

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

Date of last modification: 02.04.2020

	COURSE INFORMATION LETTER
University: P. J. Šafá	rik University in Košice
Faculty: Faculty of S	cience
Course ID: ÚFV/ VPSP/04	Course name: School Physics Experiments III
Course type, scope a Course type: Practic Recommended cour Per week: 3 Per stu Course method: pre	ce rse-load (hours): dy period: 42
Number of ECTS cr	edits: 3
Recommended seme	ster/trimester of the course: 3.
Course level: II.	
Prerequisities:	
Conditions for course continuous written te active work in practis final oral examination	sts ses
_	ills and competencies to the own and effective organisation and solving of se of activities enhanced by digital technologies for physics teaching at lower level.
1 -	med at practical realization and physics interpretation of different forms of nstration. The emphasis is on creative utilization of teaching aids and didactic
Demkanin, P. a kol. F 2006, ISBN:80-8918 Ješková, Z., a kol. Vy pre stredné školy : uč 978-80-8086-146-9 Duľa, I. a kol. Využit základné školy : uček 978-80-8086-154-4 Ješková, Z., Degro, J ISBN 80 - 7097 - 451	príručka pre rozkladný transformátor, Učebné pomôcky B.Bystrica, 1973 Počítačom podporované prírodovedné laboratórium, FMFI UK Bratislava, 6-10-6 Pužitie informačných a komunikačných technológií v predmete Fyzika sebný materiál - modul 3 1. vyd Košice : Elfa, 2010 242 s., ISBN die informačných a komunikačných technológií v predmete Fyzika pre proý materiál - modul 3 1. vyd Košice : Elfa, 2010 240 s., ISBN die, Onderová, Ľ.: Počítačom podporovaná výučba fyziky, PF UPJŠ, Košice,
Course language: Slovak	

Notes:

	Course assessment					
Total number of assessed students: 2						
	A	В	C	D	Е	FX
	0.0	100.0	0.0	0.0	0.0	0.0

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

Date of last modification: 03.05.2015

COURSE INFORMATION LETTER					
University: P. J. Šafár	University: P. J. Šafárik University in Košice				
Faculty: Faculty of Science					
Course ID: ÚTVŠ/ ÚTVŠ/CM/13					
Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: Per study period: 36s Course method: combined, present					
Number of ECTS cro	edits: 2				
Recommended seme	ster/trimester of the cours	e:			
Course level: I., II.	Course level: I., II.				
Prerequisities:					
	Conditions for course completion: Conditions for course completion: Attendance				
Learning outcomes: Students will be provided an overview of possibilities how to spend leisure time in seaside conditions actively and their skills in work and communication with clients will be improved. Students will acquire practical experience in organising the cultural and art-oriented events, with the aim to improve the stay and to create positive experiences for visitors.					
Brief outline of the course: 1. Basics of seaside aerobics 2. Morning exercises 3. Pilates and its application in seaside conditions 4. Exercises for the spine 5. Yoga basics 6. Sport as a part of leisure time 7. Application of projects of productive spending of leisure time for different age and social groups (children, young people, elderly) 8. Application of seaside cultural and art-oriented activities in leisure time					
Recommended literature:					
Course language:					
Notes:					
Course assessment Total number of assessed students: 41					
	abs	n			

87.8

12.2

Provides: Mgr. Agata Horbacz, PhD.

Date of last modification: 15.03.2019

Approved: prof. RNDr. Peter Kollár, DrSc., doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Oľga

Orosová, CSc.

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

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

DEX/15

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

Recommended course-load (hours): Per week: 2 / 1 Per study period: 28 / 14

Course method: present

Number of 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: 4

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

Page: 106

Provides: doc. RNDr. Marián Kireš, PhD.

Date of last modification: 28.03.2020

Approved: prof. RNDr. Peter Kollár, DrSc., doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Ol'ga

Orosová, CSc.

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, Praha1982
- 4. Feynman, R.P.: Feynmanove prednášky z fyziky 1-5, Alfa, 1985
- 5. Landau, Kitajgorodskij: Fyzika pre každého, Alfa 1972
- 6.Lange, V.: To chee vtip!, Alfa, Bratislava, 1988
- 7.http://kekule.science.upjs.sk/fyzika

8.http://physedu.science.upjs.sk

Course language:

Slovak, English

Notes:

Course assessment

Total number of assessed students: 10

A	A B		D	Е	FX	
90.0	10.0	0.0	0.0	0.0	0.0	

Provides: doc. RNDr. Marián Kireš, PhD.

Date of last modification: 28.03.2020

Approved: prof. RNDr. Peter Kollár, DrSc., doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Oľga

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

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

VPF2/15

Course type, scope and the method:

Course type: Lecture

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

Course method: present

Number of ECTS credits: 3

Recommended semester/trimester of the course: 3.

Course level: II.

Prerequisities:

Conditions for course completion:

presentation of selected problem 30 p

writing exam 70 p

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

Learning outcomes:

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

Brief outline of the course:

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

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

Recommended literature:

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

Course language:

Slovak, English

Notes:

Course assessment

Total number of assessed students: 9

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: 03.05.2015

Approved: prof. RNDr. Peter Kollár, DrSc., doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Oľga Orosová, CSc.

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚCHV/ Course name: Selected Topics in Inorganic Chemistry

VKAU/04

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: 3.

Course level: II.

Prerequisities:

Conditions for course completion:

Learning outcomes:

Brief outline of the course:

Recommended literature:

Greenwood, N.N., Earnshaw, A.: Chemistry of the elements I and II, Pergamon Press N.Y., 1993. C. N. R. Rao, A. Muller, A. K. Cheetham: The Chemistry of Nanomaterials (Vol. 1,2), Wiley-VCH,2006.

Atkins O., Overton T., Rourke J., Weller M., Armstrong F.: Inorganic Chemistry, University Press, Oxford, 2006.

Course language:

Notes:

Course assessment

Total number of assessed students: 75

A	A B		D	Е	FX	
45.33	29.33	20.0	2.67	2.67	0.0	

Provides: prof. RNDr. Vladimír Zeleňák, DrSc.

Date of last modification: 03.05.2015

Approved: prof. RNDr. Peter Kollár, DrSc., doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Ol'ga

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: ÚCHV/ Course name: Selected topics in organic chemistry VKOCH/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:** 3. 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: 108

A B		С	D	Е	FX	
35.19	25.0	20.37	13.89	5.56	0.0	

Provides: doc. RNDr. Ján Imrich, CSc.

Date of last modification: 03.05.2015

Approved: prof. RNDr. Peter Kollár, DrSc., doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Ol'ga

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: Course name: Slovak

KSSFaK/VSJU/15

Course name: Slovak Language for Teachers

Course type, scope and the method:

Course type: Lecture

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

Course method: present

Number of ECTS credits: 2

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

Course level: II.

Prerequisities:

Conditions for course completion:

passing a final test

Learning outcomes:

Mastering of standard Slovak in spoken and written discouse. Becoming familiarized with codification manuals, acquiring skills related to bibliography and quotation standards. Mastering of written communication in accordance with current orthographical rules. Mastering of basic characteristics of expressions of text and style and fundamentals of text composition.

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:

Krátky slovník slovenského jazyka. Bratislava: Veda 1997.

Slovník súčasného slovenského jazyka. Bratislava: Veda 2006.

Slovník súčasného slovenského jazyka. Bratislava: Veda 2011.

Pravidlá slovenského pravopisu. Bratislava: Veda 2000.

KRÁĽ, Á.: Pravidlá slovenskej výslovnosti. Bratislava, SPN 1984; 1988. 632 s.

ONDRUŠ, Š. – SABOL, J.: Úvod do štúdia jazykov. 3. vyd. Bratislava, SPN 1987. 343s.

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

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

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

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

SLANČOVÁ, D.: Praktická štylistika. 2., upravené a doplnené vydanie. Prešov: Slovacontact

1996. 178 s. ISBN 80-901417-9-X.

Course language:

Notes:

Course assessment

Total number of assessed students: 96

A B		С	D	Е	FX	
14.58	14.58 29.17		12.5	10.42	0.0	

Provides: PhDr. Iveta Bónová, PhD., PhDr. Lucia Jasinská, PhD., Mgr. Lena Ivančová, PhD.

Date of last modification: 15.05.2019

Approved: prof. RNDr. Peter Kollár, DrSc., doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Oľga Orosová, CSc.

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

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

FKS/15

Course type, scope and the method:

Course type: Lecture

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

Course method: present

Number of ECTS credits: 3

Recommended semester/trimester of the course: 1.

Course level: II.

Prerequisities:

Conditions for course completion:

oral examination

Learning outcomes:

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

Brief outline of the course:

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

Recommended literature:

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

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

Course language:

Notes:

Course assessment

Total number of assessed students: 12

A	A B		D	Е	FX
41.67	41.67	8.33	8.33	0.0	0.0

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

Date of last modification: 03.05.2015

Approved: prof. RNDr. Peter Kollár, DrSc., doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Oľga Orosová, CSc.

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University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚFV/ | Course name: Special Theory of Relativity

TRS/15

Course type, scope and the method:

Course type: Lecture

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

Course method: present

Number of ECTS credits: 2

Recommended semester/trimester of the course: 3.

Course level: II.

Prerequisities:

Conditions for course completion:

Learning outcomes:

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

Brief outline of the course:

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

Recommended literature:

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

Course language:

Slovak

Notes:

Course assessment

Total number of assessed students: 42

A	A B		D	Е	FX	
33.33	40.48	9.52	9.52	7.14	0.0	

Provides: prof. RNDr. Andrej Bobák, DrSc.

Date of last modification: 10.07.2017

Approved: prof. RNDr. Peter Kollár, DrSc., doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Ol'ga

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚCHV/ | Course name: Special practising the school experiments I

SPC1a/03

Course type, scope and the method:

Course type: Practice

Recommended course-load (hours): Per week: 4 Per study period: 56

Course method: present

Number of ECTS credits: 5

Recommended semester/trimester of the course: 1.

Course level: II.

Prerequisities:

Conditions for course completion:

Continuous checking of theoretical preparation, development of report and presentation.

Semestral test

Learning outcomes:

The aim of this subject is learn of basic experimental skillfulness in techniques in school experiment with accent on safety and health protections of students at scholar experimental work.

Brief outline of the course:

Selection and arrangement of chemical experiments as the demonstrative experiments, or pupils 'experiments to themes basic laws of chemistry, determination of constant physicochemical, factors influence speed of chemical reaction, experiments from electrochemistry, creating gases; preparation works characters of quantitative, interesting experiments of everyday life.

Recommended literature:

- 1. Ganajová, M., Dzurillová, M. 2005: Školské pokusy z chémie I. UPJŠ v Košiciach, Prírodovedecká fakulta, 140 s. ISBN 80-7097-617-9
- 2. Ganajová, M. 2005: Chemické experimenty s vybranými produktami z obchodu. UPJŠ v Košiciach, Prírodovedecká fakulta, 110 s. ISBN 80-7097-611-X
- 3. Tomeček,O.: Školská experimentálna semimikrosúprava. Učebné pomôcky Banská Bystrica 1980
- 4. The primary and secondary textbook of chemistry
- 5. http://kekule.science.upjs.sk (ŠIS)

Course language:

Notes:

Course assessment

Total number of assessed students: 282

A B		С	D	Е	FX
66.31	25.89	6.74	1.06	0.0	0.0

Provides: doc. RNDr. Mária Ganajová, CSc., RNDr. Ivana Sotáková, Ph.D.

Date of last modification: 03.05.2015

Approved: prof. RNDr. Peter Kollár, DrSc., doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Oľga Orosová, CSc.

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚCHV/ | Course name: Special practising the school experiments II

SPC1b/03

Course type, scope and the method:

Course type: Practice

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

Course method: present

Number of ECTS credits: 3

Recommended semester/trimester of the course: 2.

Course level: II.

Prerequisities:

Conditions for course completion:

The knowledge of the reaction mechanism of the main tests of several organic compounds derivatives and the ability of their laboratory realization are required.

Written tests: at least 51% from each one is required.

Learning outcomes:

The students will become familiar with the basic laboratory skills and techniques that they can apply in demonstrating experiments in their future career as a teacher. The rules of healthy and safety laboratory work are emphasised.

Brief outline of the course:

Qualitative analysis of organic compounds

Alkanes - preparation of methane

Alkenes - preparation and addition reactions of ethene, addition reactions of β -carotene

Alkynes - preparation of acetylene and studying of its reaction

Aromatic hydrocarbons and their derivatives – preparation and their characteristic reactions

Halogenoderivatives – preparation of chloroethane and iodoform

Hydroxoderivatives and ethers – properties and reactivity - methanol, ethanol, glycerol, preparation of sodium ethanolate, phenols, characteristic properties of diethylether

Carbonyl compounds - preparation and their reactions

Carboxylic acids and their derivatives – preparation and properties

Natural compounds – carbohydrates, proteins, amino acids, lipids

Column chromatography -acetylation reaction of ferrocene - its preparation and separation of the obtained products by column chromatography

Isolation of the fragrant components using steam distillation

Everyday life chemistry

Recommended literature:

- 1. Smik, L., Merva, L., Brutovská, A: Technika a didaktika školských pokusov, Vyd.Rektorát UPJŠ,Košice,1988
- 2. Smik, L. a kol.: Špeciálna didaktika chémie II., Vyd. Rektorát UPJŠ, Košice, 1984
- 3. Internal studying material Špeciálne praktikum školských pokusov z organickej chémie

Course language:

slovak language

Notes:

Course assessment

Total number of assessed students: 247

A B		С	D	Е	FX	
40.89	40.89 28.34		8.1	3.64	0.0	

Provides: RNDr. Jana Špaková Raschmanová, PhD., RNDr. Ján Elečko, PhD.

Date of last modification: 05.02.2020

Approved: prof. RNDr. Peter Kollár, DrSc., doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Ol'ga

University: P. J. Šafá	rik University in Košice
Faculty: Faculty of S	cience
Course ID: ÚTVŠ/ TVa/11	Course name: Sports Activities I.
Course type, scope a Course type: Practic Recommended cour Per week: 2 Per stu Course method: cor	ce rse-load (hours): dy period: 28
Number of ECTS cr	edits: 2
Recommended seme	ster/trimester of the course: 1.
Course level: I., I.II.,	II.
Prerequisities:	
Conditions for course Min. 80% of active p	<u>-</u>
0 1 2	condition and performance within individual sports. Strengthening the its to the selected sports activity and its continual improvement.
University provides a floorball, yoga, pilate tennis, sports for unfi In the first two seme and particularities of physical condition, c Last but not least, the means of a special pr In addition to these physical education tra	
Recommended litera	ture:
Course language:	

Notes:

Course assessment Total number of assessed students: 14050 abs abs-A abs-B abs-C abs-D abs-E neabs n 0.0 3.9 88.48 0.07 0.0 0.0 0.04 7.51

Provides: Mgr. Dana Dračková, PhD., Mgr. Agata Horbacz, PhD., Mgr. Dávid Kaško, PhD., Mgr. Zuzana Küchelová, PhD., doc. PaedDr. Ivan Uher, PhD., Mgr. Marek Valanský, prof. RNDr. Stanislav Vokál, DrSc., Mgr. Marcel Čurgali, Mgr. Patrik Berta, Mgr. Ladislav Kručanica, PhD.

Date of last modification: 18.03.2019

Approved: prof. RNDr. Peter Kollár, DrSc., doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Oľga Orosová, CSc.

	COURSE INFORMATION LETTER
University: P. J. Šafá	rik University in Košice
Faculty: Faculty of S	cience
Course ID: ÚTVŠ/ TVb/11	Course name: Sports Activities II.
Course type, scope a Course type: Practic Recommended cour Per week: 2 Per stu Course method: con	rse-load (hours): dy period: 28 mbined, present
Number of ECTS cr	
Recommended seme	ster/trimester of the course: 2.
Course level: I., I.II.,	II.
Prerequisities:	
Conditions for course Conditions for course Final assessment and	<u>=</u>
	condition and performance within individual sports. Strengthening the atts to the selected sports activity and its continual improvement.
University provides a floorball, yoga, pilate tennis, sports for unfi In the first two seme and particularities of physical condition, c Last but not least, the means of a special pr In addition to these physical education tra	
Recommended litera	iture:
Course language:	

Notes:

	Course assessment								
Total number of assessed students: 11330									
	abs	abs-A	abs-B	abs-C	abs-D	abs-E	n	neabs	
ſ	85.75	0.56	0.02	0.0	0.0	0.05	9.87	3.75	

Provides: Mgr. Dana Dračková, PhD., Mgr. Agata Horbacz, PhD., Mgr. Dávid Kaško, PhD., Mgr. Zuzana Küchelová, PhD., doc. PaedDr. Ivan Uher, PhD., Mgr. Marek Valanský, prof. RNDr. Stanislav Vokál, DrSc., Mgr. Marcel Čurgali, Mgr. Patrik Berta, Mgr. Ladislav Kručanica, PhD.

Date of last modification: 18.03.2019

Approved: prof. RNDr. Peter Kollár, DrSc., doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Oľga Orosová, CSc.

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚTVŠ/ Course name: S

TVc/11

Course name: Sports Activities III.

Course type, scope and the method:

Course type: Practice

Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: combined, present

Number of ECTS credits: 2

Recommended semester/trimester of the course: 3.

Course level: I., I.II., II.

Prerequisities:

Conditions for course completion:

Learning outcomes:

Brief outline of the course:

Recommended literature:

Course language:

Notes:

Course assessment

Total number of assessed students: 8383

abs	abs-A	abs-B	abs-C	abs-D	abs-E	n	neabs
90.11	0.05	0.01	0.0	0.0	0.02	4.04	5.76

Provides: Mgr. Marcel Čurgali, Mgr. Dana Dračková, PhD., Mgr. Agata Horbacz, PhD., Mgr. Dávid Kaško, PhD., Mgr. Zuzana Küchelová, PhD., doc. PaedDr. Ivan Uher, PhD., Mgr. Marek Valanský, prof. RNDr. Stanislav Vokál, DrSc., Mgr. Patrik Berta, Mgr. Ladislav Kručanica, PhD.

Date of last modification: 03.05.2015

Approved: prof. RNDr. Peter Kollár, DrSc., doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Oľga Orosová, CSc.

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University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚTVŠ/ | Course name: Sports Activities IV.

TVd/11

Course type, scope and the method:

Course type: Practice

Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: combined, present

Number of ECTS credits: 2

Recommended semester/trimester of the course: 4.

Course level: I., I.II., II.

Prerequisities:

Conditions for course completion:

Learning outcomes:

Brief outline of the course:

Recommended literature:

Course language:

Notes:

Course assessment

Total number of assessed students: 5101

abs	abs-A	abs-B	abs-C	abs-D	abs-E	n	neabs
85.2	0.29	0.04	0.0	0.0	0.0	6.76	7.7

Provides: Mgr. Marcel Čurgali, Mgr. Dana Dračková, PhD., Mgr. Agata Horbacz, PhD., Mgr. Dávid Kaško, PhD., Mgr. Zuzana Küchelová, PhD., doc. PaedDr. Ivan Uher, PhD., Mgr. Marek Valanský, prof. RNDr. Stanislav Vokál, DrSc., Mgr. Patrik Berta, Mgr. Ladislav Kručanica, PhD.

Date of last modification: 03.05.2015

Approved: prof. RNDr. Peter Kollár, DrSc., doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Oľga Orosová, CSc.

Page: 127

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚCHV/ | Course name: Stereochemistry of Inorganic Compounds

SAZ1/15

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: 3

Recommended semester/trimester of the course:

Course level: II.

Prerequisities:

Conditions for course completion:

Learning outcomes:

Brief outline of the course:

Symmetry, elements of symmetry, point groups, symmetrical properties of orbitals and bonds. Principles of stereochemistry, VSEPR, configuration of molecules, polyhedra, regular and semiregular polyhedra. Valence shells with 4–12 electron pairs, geometry of molecules and periodic system.

Recommended literature:

Kepert, D. L.: Inorganic Stereochemistry. Springer-Verlag, Berlin, 1982.

Kettle, S. F. A.: Symmetry and Structure. John Wiley & Sons, New York, 1985.

Course language:

Notes:

Course assessment

Total number of assessed students: 22

A	В	С	D	Е	FX
59.09	13.64	18.18	9.09	0.0	0.0

Provides: prof. RNDr. Vladimír Zeleňák, DrSc.

Date of last modification: 03.05.2015

Approved: prof. RNDr. Peter Kollár, DrSc., doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Ol'ga

COURSE INFORMATION LETTER						
University: P. J. Šafár	rik University in Košice					
Faculty: Faculty of S	cience					
Course ID: ÚCHV/ STA1/03	Course name: Structure Analysis					
Course type, scope a Course type: Lectur Recommended cour Per week: 2 / 2 Per Course method: pre	re / Practice rse-load (hours): study period: 28 / 28					
Number of ECTS cro	edits: 6					
Recommended seme	ster/trimester of the course:					
Course level: II.						
Prerequisities:						
Conditions for cours 2 written tests. 30 % The final examination final tests.	n is in a written form. The final mark is based on the results from current and					
diffraction methods u	view about the symmetry at the micro- and macrostructure level and about used for the crystal structure determination and they will learn how to use the structure analysis in their own work.					
of the diffraction expe	nicrostructure symmetry, individual work with space groups. Theoretical basis eriment. Practical aspects of crystal structure solution. Processing the results of neoretical basis, practical aspects and possibilities of X-ray powder diffraction					
Recommended literature: Massa, W.: Crystal structure determination, 2nd edition. Springer 2004. Clegg, W. et al.: Crystal structure analysis. Principles and practice. Oxford University Press 2009. Hahn, T.: International tables for crystallography, Vol. A. Kluwer Academic Publishers 2002. Stout, G.H. & Jensen, L.H.: X-ray Structure Determination. Macmillan Publishing Co., Inc. 1968. Klug, H.P. & Alexander, L.E.: X-Ray diffraction procedures for polycrystalline and amorphous materials. John Wiley & Sons, Inc. 1970.						
Course language: Slovak and English						

Notes:

Course assessment Total number of assessed students: 119 A B C D E FX 28.57 16.81 26.05 19.33 8.4 0.84

Provides: doc. RNDr. Ivan Potočňák, PhD.

Date of last modification: 03.05.2015

Approved: prof. RNDr. Peter Kollár, DrSc., doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Ol'ga

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚFV/ Course name: St

SVKD/04

Course name: Student Scientific Conference

Course type, scope and the method:

Course type:

Recommended course-load (hours):

Per week: Per study period: Course method: present

Number of ECTS credits: 4

Recommended semester/trimester of the course:

Course level: II.

Prerequisities:

Conditions for course completion:

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

Learning outcomes:

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

Brief outline of the course:

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

Recommended literature:

Based on the recommendations of supervisor

Course language:

Slovak

Notes:

Course assessment

Total number of assessed students: 45

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

Provides:

Date of last modification: 03.05.2015

Approved: prof. RNDr. Peter Kollár, DrSc., doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Ol'ga

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

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

SJF1/15

Course type, scope and the method:

Course type: Lecture

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

Course method: present

Number of ECTS credits: 2

Recommended semester/trimester of the course: 2.

Course level: II.

Prerequisities:

Conditions for course completion:

written test and thesis

exam

Learning outcomes:

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

Brief outline of the course:

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

Recommended literature:

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

Course language:

Slovak

Notes:

Course assessment

Total number of assessed students: 34

Α	В	С	D	Е	FX
32.35	5.88	5.88	23.53	23.53	8.82

Provides: prof. RNDr. Stanislav Vokál, DrSc., doc. RNDr. Janka Vrláková, PhD.

Date of last modification: 30.03.2020

Approved: prof. RNDr. Peter Kollár, DrSc., doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Oľga Orosová, CSc.

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University: P. J. Šafár	rik University in Košice							
Faculty: Faculty of S	Faculty: Faculty of Science							
Course ID: ÚTVŠ/ LKSp/13	Course name: Summer Course-Rafting of TISA River							
Course type, scope a Course type: Practic Recommended cour Per week: Per stud Course method: cor	ce rse-load (hours): y period: 36s							
Number of ECTS cr	edits: 2							
Recommended seme	ster/trimester of the course:							
Course level: I., II.								
Prerequisities:								
Conditions for course Conditions for course Attendance Final assessment: Rat	-							
Learning outcomes: Learning outcomes: Students have knowled	edge of rafts (canoe) and their control on waterway.							
5. Canoe lifting and c	ourse: ficulty of waterways fing ning using an empty canoe carrying n the water without a shore contact be ut of the water							
Recommended litera	ture:							
Course language:								
Notes:								

Course assessment Total number of assessed students: 153 abs n 45.75 54.25 Provides: Mgr. Dávid Kaško, PhD.

Date of last modification: 18.03.2019

Approved: prof. RNDr. Peter Kollár, DrSc., doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Ol'ga

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: 503 abs n 100.0 0.0 Provides: doc. PhDr. Beata Gajdošová, PhD., PaedDr. Renáta Orosová, PhD., Mgr. Katarína Petríková, PhD. Date of last modification: 12.02.2021 Approved: prof. RNDr. Peter Kollár, DrSc., doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Ol'ga Orosová, CSc.

University: P. J. Šafá	rik University in Košice
Faculty: Faculty of S	cience
Course ID: ÚTVŠ/ KP/12	Course name: Survival Course
Course type, scope a Course type: Practic Recommended cour Per week: Per stud Course method: cor	rse-load (hours): ly period: 36s mbined, present
Number of ECTS cr	edits: 2
Recommended seme	ster/trimester of the course:
Course level: I., II.	
Prerequisities:	
Conditions for course Conditions for course Attendance Final assessment: con	•
conditions as they wi and demanding situa	miliarized with principles of safe stay and movement in extreme natural ll obtain theoretical knowledge and practical skills to solve the extraordinary tions connected with survival and minimization of damage to health. The n work and students will learn how to manage and face the situations that of obstacles.
2. Preparation and lea3. Objective and subj4. Principles of hygieExercises:1. Movement in terra	viour and safety for movement and stay in unknown mountains adership of tour ective danger in mountains one and prevention of damage to health in extreme conditions in, orientation and navigation in terrain (compasses, GPS) rovised overnight stay
Recommended litera	ature:
Course language:	

Notes:

Course assessment Total number of assessed students: 393 abs n 44.53 55.47

Provides: MUDr. Peter Dombrovský, Mgr. Marek Valanský

Date of last modification: 15.03.2019

Approved: prof. RNDr. Peter Kollár, DrSc., doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Ol'ga

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:

Recommended literature:

Course language:

Notes:

Course assessment

Total number of assessed students: 550

A	В	С	D	Е	FX
27.27	28.55	25.64	13.27	4.55	0.73

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

Ferencová, PhD.

Date of last modification: 12.02.2021

Approved: prof. RNDr. Peter Kollár, DrSc., doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Ol'ga

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:

Learning outcomes:

Brief outline of the course:

Recommended literature:

Course language:

Notes:

Course assessment

Total number of assessed students: 105

A	В	С	D	Е	FX
92.38	1.9	3.81	0.95	0.95	0.0

Provides: Mgr. Ondrej Kalina, PhD.

Date of last modification: 15.02.2021

Approved: prof. RNDr. Peter Kollár, DrSc., doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Ol'ga

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

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

KPPaPZ/ZMPPV/15 | Methodology

Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per week: 2 / 2 Per study period: 28 / 28

Course method: present

Number of ECTS credits: 4

Recommended semester/trimester of the course: 2.

Course level: IL

Prerequisities: KPPaPZ/PPgU/15,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: 447 A B C D E FX 18.79 26.4 23.49 19.02 12.08 0.22

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

Date of last modification: 16.02.2021

Approved: prof. RNDr. Peter Kollár, DrSc., doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Oľga Orosová, CSc.

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚFV/ | **Course name:** Using Multimedia in Education

VMV1/15

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: 3.

Course level: II.

Prerequisities:

Conditions for course completion:

9. moduls assignments: 45 points

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

Learning outcomes:

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

Brief outline of the course:

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

Recommended literature:

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

Course language:

Slovak, English

Notes: Course assessment Total number of assessed students: 0 A B C D E FX 0.0 0.0 0.0 0.0 0.0

Provides: doc. RNDr. Marián Kireš, PhD.

Date of last modification: 03.05.2015

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

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚCHV/ Course name: Vybrané kapitoly z chémie

VKCH/10

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.

Course level: II.

Prerequisities:

Conditions for course completion:

Terminal examination by written form.

Learning outcomes:

Organic chemistry:

The general review on the basic chemistry of saccharides, lipids, amino acids and peptides.

Inorganic chemstry:

To get acquaintance of the students with the stereochemistry of inorganic compounds, methods of the study and its influence on the properties of the compounds. Moreover to get acquintance of the students with actual direction of inorganic chemistry in the area of nanomaterials.

Brief outline of the course:

Organic chemistry:

Nomenclature of monosaccharides, their stereochemistry (the Fischer projection, the Haworth projection, conformation of sugars). Monosaccharide derivatives. Ascending reactions. Oligosaccharides and polysaccharides.

Lipids, their structure and classification. Groups of lipids. Triacylglycerols, glycerophospholipids sfingophospholipids, glycosphingolipids.

Amino acids, their nomenclature, classification and stereochemistry. Synthesis of amino acids. Nonribosomal construction of peptides.

Inorganic chemistry:

Symmetry, elements of symmetry, point groups, symmetrical properties of orbitals and bonds. Principles of stereochemistry, VSEPR, configuration of molecules, polyhedra, regular and semiregular polyhedra, the use of concept of symmetry in IR and UV-VIS spectroscopy. Nanochemistry - definition, bonds in nanoparticles and nanopowders, interactions between nanoparticles. Unique properties of nanomaterials, new methods of the synthesis of nanomaterials.

Recommended literature:

- J. McMurry: Organic chemistry, Brooks/Cole, a Thomson Learning Company 2004, Sixth Eddition, ISBN 0534389996.
- J. Chomič: Stereochemistry of inorganic compounds, UPJŠ Košice, 1988.
- K. J. Klabunde, R. M. Richards: Nanoscale Materials in Chemistry, Wiley-CH, 2009.

Course language:

Notes:

Course assessment

Total number of assessed students: 217

A	В	С	D	Е	FX
24.42	28.57	32.72	11.98	1.84	0.46

Provides: doc. RNDr. Mária Kožurková, CSc., prof. RNDr. Vladimír Zeleňák, DrSc., doc. RNDr. Miroslava Martinková, PhD.

Date of last modification: 03.05.2015

Approved: prof. RNDr. Peter Kollár, DrSc., doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Oľga Orosová, CSc.