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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: doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Oľga Orosová, CSc., prof. RNDr. Jozef Doboš, 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; 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

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

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

Date of last modification: 03.05.2015

Approved: doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Oľga Orosová, CSc., prof. RNDr. Jozef

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚMV/ | Course name: Algebra and theoretical arithmetic

ATA/14

Course type, scope and the method:

Course type: Lecture / Practice

Recommended course-load (hours): Per week: 3 / 1 Per study period: 42 / 14

Course method: present

Number of ECTS credits: 4

Recommended semester/trimester of the course: 3.

Course level: II.

Prerequisities:

Conditions for course completion:

It is based on the results of written and oral exam.

Learning outcomes:

Obtain knowledge about sets N, Z, Q and R, about their axiomatic building-up, the operations and the orderigs on them.

Brief outline of the course:

Sets of numbers N, Z, Q a R, their axiomatical building, operations and ordering.

Recommended literature:

J. Blažek a kol.: Algebra a teoretická aritmetika I. díl. SPN, Praha 1983

K. Hruša: Elementární aritmetika. Přírodovědecké vydavatelství, Praha 1953

W. Sierpinski: Arytmetyka teoretyczna. PWN, Varšava 1966

T. Šalát a kol.: Algebra a teoretická aritmetika (2). Alfa, Bratislava - SNTL Praha 1986

Course language:

Slovak

Notes:

Course assessment

Total number of assessed students: 54

A	В	С	D	Е	FX
55.56	24.07	12.96	7.41	0.0	0.0

Provides: doc. RNDr. Matúš Harminc, CSc.

Date of last modification: 06.03.2018

Approved: doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Oľga Orosová, CSc., prof. RNDr. Jozef

	COURSE INFORMATION LETTER						
University: P. J. Šafárik University in Košice							
Faculty: Faculty of Science							
Course ID: ÚMV/ AIM/10	Course name: Application of ICT into mathematics teaching						
Course type, scope a Course type: Practic Recommended cour Per week: 2 Per stu Course method: pre	ce rse-load (hours): dy period: 28						
Number of ECTS cro							
Recommended seme	ster/trimester of the course: 3.						
Course level: II.							
Prerequisities: ÚMV	/DDMa/14						
Conditions for cours two tests elaborated of final project	se completion: on the computer, solving problems from worksheets						
and to provide examp teaching. To develop digital environment f	ndard work procedures with the basic types of mathematical software systems les and ideas on the possibility of using these software systems in mathematics the knowledge and skills of students to use investigation and modelling in the for mathematical problems solving. Develop creative and evaluation abilities prepare mathematics lessons with effective and meaningful use of modern						
Use of dynamic geometric dynam	numerical and graphical tools of spreadsheet to solve mathematical problems. metry systems in solving geometry problems, examples of their use in the onstructivist approaches to mathematics teaching. Mathematical modelling ems in a CAS environment. The use of modern IT for active acquisition of						
S. Lukáč: Multimédiá J. Vaníček: Počítačov 2009. Journals MFI, MIF a	ture: : Využití počítače při vyučování, Portál, 1998. á a počítačom podporované učenie sa v matematike, PF UPJŠ Košice 2001. vé kognitivní technologie ve výuce geometrie. Univerzita Karlova v Praze, Obzory matematiky, fyziky a informatiky.						
Course language: Slovak							

Notes:

Course assessm	Course assessment							
Total number of assessed students: 154								
Α	В	С	D	Е	FX			
41.56	30.52	12.99	9.74	5.19	0.0			

Provides: doc. RNDr. Stanislav Lukáč, PhD.

Date of last modification: 03.05.2015

Approved: doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Oľga Orosová, CSc., prof. RNDr. Jozef

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚCHV/ Cour

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: doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Oľga Orosová, CSc., prof. RNDr. Jozef

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚCHV/ Cou

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 B		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: doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Oľga Orosová, CSc., prof. RNDr. Jozef Doboš, 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: doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Ol'ga Orosová, CSc., prof. RNDr. Jozef

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: doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Ol'ga Orosová, CSc., prof. RNDr. Jozef

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

A	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: doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Oľga Orosová, CSc., prof. RNDr. Jozef

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

A	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: doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Oľga Orosová, CSc., prof. RNDr. Jozef

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: KPO/ Course name: Child and Adolescent Sociology

SDaM/15

Course type, scope and the method:

Course type: Lecture

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

Course method: present

Number of ECTS credits: 2

Recommended semester/trimester of the course: 3.

Course level: II.

Prerequisities:

Conditions for course completion:

Learning outcomes:

Brief outline of the course:

Recommended literature:

Course language:

Notes:

Course assessment

Total number of assessed students: 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: doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Ol'ga Orosová, CSc., prof. RNDr. Jozef

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: doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Ol'ga Orosová, CSc., prof. RNDr. Jozef

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: CJP/ Course name: Communicative Competence in English

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: doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Ol'ga Orosová, CSc., prof. RNDr. Jozef

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: CJP/

Course name: Communicative Grammar in English

PFAJGA/07

Course type, scope and the method:

Course type: Practice

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

Number of 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: doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Ol'ga Orosová, CSc., prof. RNDr. Jozef

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: KGER/ Course name: Com

NJKG/07

Course name: Communicative Grammar in German Language

Course type, scope and the method:

Course type: Practice

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

Course method: present

Number of 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

A	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: doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Ol'ga Orosová, CSc., prof. RNDr. Jozef

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: doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Ol'ga Orosová, CSc., prof. RNDr. Jozef Doboš, CSc.

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: ÚMV/ Course name: Continuous practice teaching I VSPc/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:** ÚMV/VPPb/15 **Conditions for course completion: Learning outcomes:** Enable students to gain first practical experience in teaching mathematics to apply theoretical knowledge in specific teaching situations, to develop their teaching skills. To acquaint students with the atmosphere and the organization of school. **Brief outline of the course: Recommended literature:** Course language: Slovak **Notes:** Course assessment Total number of assessed students: 62 abs n 100.0 0.0 Provides: doc. RNDr. Dušan Šveda, CSc., RNDr. Ingrid Semanišinová, PhD.

Approved: doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Oľga Orosová, CSc., prof. RNDr. Jozef Doboš, CSc.

Date of last modification: 03.05.2015

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: doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Ol'ga Orosová, CSc., prof. RNDr. Jozef Doboš, CSc.

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: ÚMV/ Course name: Continuous practice teaching II VSPd/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:** ÚMV/VSPc/15 **Conditions for course completion: Learning outcomes:** Enable students to gain first practical experience in teaching mathematics to apply theoretical knowledge in specific teaching situations, to develop their teaching skills. To acquaint students with the atmosphere and the organization of school. **Brief outline of the course: Recommended literature:** Course language: Slovak **Notes:** Course assessment Total number of assessed students: 42 abs n 100.0 0.0 Provides: doc. RNDr. Dušan Šveda, CSc., RNDr. Ingrid Semanišinová, PhD. Date of last modification: 03.05.2015

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Approved: doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Ol'ga Orosová, CSc., prof. RNDr. Jozef

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 assessm	Course assessment						
Total number of assessed students: 86							
Α	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: doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Oľga Orosová, CSc., prof. RNDr. Jozef

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: doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Ol'ga Orosová, CSc., prof. RNDr. Jozef

4.32

1.44

0.0

Doboš, 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: doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Oľga Orosová, CSc., prof. RNDr. Jozef

	COURSE INFORMATION LETTER
University: P. J. Šaf	árik University in Košice
Faculty: Faculty of	Science
Course ID: KPPaPZ/VPU/17	Course name: Developmental Psychology for Teachers
Course type, scope Course type: Pract Recommended cou Per week: 2 Per st Course method: pr	ice urse-load (hours): udy period: 28
Number of ECTS c	redits: 2
Recommended sem	ester/trimester of the course: 1.
Course level: II.	
Prerequisities:	
Conditions for cour Evaluation of partic of seminar work,	rse completion: ipation in teaching, continuous evaluation of activity in seminars, evaluation
characterize the nor school age and adole published in foreign the topics covered. To of parents and friend	inderstand the principles of developmental psychology, and will be able to me in separate developmental stages with a specific focus on the period of escence. As part of the seminar work, a students will process current knowledge a journals. They will have a knowledge about the current social discourse on The graduate will be able to consider various aspects of the possible influence ds on the development of piupils and apply the knowledge of developmental ractice of the teacher.
Socialization in septing the period of socialization development. Application with the social septing in the period of socialization in septing the septing the socialization in septing the septing	factors of development, cognitive development, personality development. arate developmental stages (family, peers, school). Specifics of development thool age, in pubescence and adolescence. Parents and their role in child cation of knowledge of developmental psychology in the teacher's practice with students in different developmental stages, creating a teacher-student spect to the development needs of the student.
Říčan, P. Cesta živo Thorová, K. Vývojo	ojová psychologie. Portál, Praha 2000 tem. Portál, Praha, 2004. vá psychologie. Portál, Praha, 2015. nce. 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: doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Ol'ga Orosová, CSc., prof. RNDr. Jozef

University: P. J. Šafá	rik University in Košice
Faculty: Faculty of S	cience
Course ID: ÚMV/ DDMa/14	Course name: Didactics of mathematics
Course type, scope a Course type: Lectur Recommended cou Per week: 2 / 2 Per Course method: pre	re / Practice rse-load (hours): study period: 28 / 28
Number of ECTS cr	edits: 5
Recommended seme	ster/trimester of the course: 2.
Course level: II.	
Prerequisities:	
Conditions for cours Continuous assessme	ent - 60% of the total assessment, exam - 40% of the total assessment.
•	nciples and methods of teaching of mathematics at primary and secondary edge of the various ways of teaching specific topics of school mathematics.
Aims and objectives Planning in mathema Logical and didactica Determination of lear Didactical principles Assessment of learnin Mathematical proble	of Mathematics, the development of mathematics and mathematics education. of mathematics teaching tics teaching al curriculum analysis rning objectives methods of mathematics teaching ng outcomes, the creation of didactic tests
Recommended litera	nture:
[2] L.Frantíková,K.H [3] R.Fischer,G.Mall [4] Polya, G.: How to [5] Hejný, M., Kuřin Portál, Praha 2001. (i	Peorie vyučovania matematiky, SPN Blava 1989, (in slovak) Iončarivová,O.Kopanev: Didaktika matematiky, UPJŠ 1982 (in slovak) e: Človek a matematika, SPN Bratislava 1992 (in slovak) o solve it, Princeton University Press, 1957. a, F.: Dítě, škola a matematika: Konstruktivistické přístupy k vyučování. in czech)
Course language: Slovak	

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Notes:

Course assessment						
Total number of assessed students: 64						
A	В	С	D	Е	FX	
45.31	31.25	14.06	6.25	3.13	0.0	

Provides: doc. RNDr. Dušan Šveda, CSc.

Date of last modification: 03.05.2015

Approved: doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Oľga Orosová, CSc., prof. RNDr. Jozef

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚMV/ | **Course name:** Didactics of mathematics

DDMb/14

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: ÚMV/DDMa/14

Conditions for course completion:

Seminar paper - 40% of the total score.

Written exam - 40% of the total score.

Homework - 20% of the total score.

Evaluation A - at least 90% points,

evaluation B - at least 80%,

evaluation C at least 70%,

evaluationD at least 60%,

evaluationE rating of at least 50% of the points.

Credits shall not be granted to a student who receives less than 50% of the points.

Learning outcomes:

Students become familiar with some mathematical theories of education. They will acquire different teaching methods of selected topics of school mathematics. Become familiar with the potential use of history of mathematics in teaching. Students will be prepared to work in the educational process, focusing on the creative application of knowledge in mathematics.

Brief outline of the course:

Student learning process.

Language of mathematics, enactive iconic and symbolic representation.

Using history of mathematics in the teaching mathematics.

Students' learning difficulties and their possible causes.

Teaching mathematical proofs.

Combinatorics, probability, statistics.

Calculus.

Developing mathematical creativity. Motivation.

Recommended literature:

- [1] M.Hejný a kol.: Teoria vyučovania matematiky, SPN Blava 1989.
- [2] Hejný, M., Kuřina, F.: Dítě, škola a matematika: Konstruktivistické přístupy k vyučování. Portál, Praha 2001.
- [3] Fischer, R., Malle, G.: Človek a matematika, SPN Bratislava 1992.
- [4] Učebnice a zbierky úloh pre stredné a základné školy.

Course language:

Slovak

Notes:

Course assessment

Total number of assessed students: 77

A	В	С	D	Е	FX
71.43	15.58	10.39	1.3	1.3	0.0

Provides: RNDr. Ingrid Semanišinová, PhD.

Date of last modification: 03.05.2015

Approved: doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Ol'ga Orosová, CSc., prof. RNDr. Jozef

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: doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Ol'ga Orosová, CSc., prof. RNDr. Jozef

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚCHV/

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: doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Ol'ga Orosová, CSc., prof. RNDr. Jozef

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚMV/ | Course name: Differential equations

DFR/10

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

Per week: 3 / 1 Per study period: 42 / 14

Course method: present

Number of ECTS credits: 5

Recommended semester/trimester of the course: 1.

Course level: I., II.

Prerequisities:

Conditions for course completion:

Continuous assessment is taken the form of two tests during the semester. Final evaluation is given by continuous assessment (40%), written and oral part of the exam (30% and 30%).

Learning outcomes:

Theory of differential equations is one of the fundamental areas of mathematical analysis. It has numerous applications in various fields of science and technology. The main objective of this course is to familiarize students with the basics of the theory of ordinary differential equations and their systems, and methods for solving certain types of differential equations and systems. We consider them as possible mathematical models of real situations.

Brief outline of the course:

Basic concepts. Elementary methods for solving and applications of the first order differential equations. The existence and uniqueness of solutions to Cauchy problem for differential equations of the first order, the n-th order and for differential systems. The relationship between differential equations of the n-th order and systems. Linear differential equations of the n-th order and linear differential systems - the local and global theorem on the existence and uniqueness

of solutions to Cauchy problem, basic properties of solutions, fundamental system of solutions, structure of general solution, Lagrange method of variation of constants, linear differential equations and systems with constant coefficients. Reduction of the order of differential equations. Euler differential equations. Elimination method for solving the systems of differential equations.

Recommended literature:

- 1. L. Kluvánek, I. Mišík, M. Švec: Matematika II, SVTL, Bratislava, 1961 (in Slovak).
- 2. J. Eliaš, J. Horváth, J. Kajan: Zbierka úloh z vyššej matematiky 3, Alfa, Bratislava, 1980 (in Slovak).
- 3. S. J. Farlow: An introduction to differential equations and their applications, Dover Publications, New York, 2006.
- 4. W. Kohler, L. Johnson: Elementary differential equations with boundary value problems, Pearson Education, Boston, 2006.
- 5. M. Tenenbaum: Ordinary differential equations, Dover Publications, New York, 1985.
- 6. J. C. Robinson: An introduction to ordinary differential equations, Cambridge University Press, Cambridge, 2004.

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

Course language:

Slovak

Notes:

Course assessment

Total number of assessed students: 149

A	В	С	D	Е	FX
20.13	20.81	14.77	22.15	18.79	3.36

Provides: Mgr. Jozef Kiseľák, PhD.

Date of last modification: 03.05.2015

Approved: doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Oľga Orosová, CSc., prof. RNDr. Jozef

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 Е 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: doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Oľga Orosová, CSc., prof. RNDr. Jozef

University: P. J. Šafárik University in Košice						
Faculty: Faculty of S	Faculty: Faculty of Science					
Course ID: ÚCHV/ DPP1/14	Course ID: ÚCHV/ 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 cr	edits: 1 					
Recommended seme	ster/trimester of the cours	e : 1.				
Course level: II.						
Prerequisities:						
Conditions for cours	e completion:					
Learning outcomes:						
Brief outline of the c	ourse:					
Recommended litera	ture:					
Course language:						
Notes:						
Course assessment Total number of asse	ssed students: 61					
	abs	n				
	100.0 0.0					
Provides:						
Date of last modification: 03.05.2015						
Approved: doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Oľga Orosová, CSc., prof. RNDr. Jozef Doboš, CSc.						

University: P. J. Šafárik University in Košice					
Faculty: Faculty of S	Faculty: Faculty of Science				
Course ID: ÚCHV/ DPP2/14	Course name: Diploma Pro	oject II			
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present					
Number of ECTS cr	edits: 2				
Recommended seme	ster/trimester of the cours	2: 2.			
Course level: II.					
Prerequisities:					
Conditions for cours	e completion:				
Learning outcomes:					
Brief outline of the c	ourse:				
Recommended litera	ature:				
Course language:					
Notes:					
Course assessment Total number of asse	ssed students: 53				
	abs	n			
	100.0 0.0				
Provides:					
Date of last modification: 03.05.2015					
Approved: doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Ol'ga Orosová, CSc., prof. RNDr. Jozef Doboš, CSc.					

University: P. J. Šafárik University in Košice					
Faculty: Faculty of S	Faculty: Faculty of Science				
Course ID: ÚCHV/ DPP3/14	Course name: Diploma Pro	oject III			
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present					
Number of ECTS cr	edits: 2				
Recommended seme	ster/trimester of the course	e: 3.			
Course level: II.					
Prerequisities:					
Conditions for cours	se completion:				
Learning outcomes:					
Brief outline of the c	ourse:				
Recommended litera	iture:				
Course language:					
Notes:					
Course assessment Total number of asse	ssed students: 66				
	abs	n			
	100.0	0.0			
Provides:					
Date of last modification: 03.05.2015					
Approved: doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Ol'ga Orosová, CSc., prof. RNDr. Jozef Doboš, CSc.					

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚCHV/ 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: 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: doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Oľga Orosová, CSc., prof. RNDr. Jozef

University: P. J. Šafá	rik University in Košice				
Faculty: Faculty of Science					
Course ID: ÚMV/ DPP2a/14	Course name: Diploma p	roject I			
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present					
Number of ECTS cr					
	ster/trimester of the cour	se: 1.			
Course level: II.					
Prerequisities:					
Conditions for cours	se completion:				
Learning outcomes:					
Brief outline of the c	ourse:				
Recommended litera	iture:				
Course language: Slovak					
Notes:					
Course assessment Total number of asse	ssed students: 39				
	abs	n			
	100.0 0.0				
Provides: doc. RNDr. Dušan Šveda, CSc.					
Date of last modification: 03.05.2015					
Approved: doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Ol'ga Orosová, CSc., prof. RNDr. Jozef Doboš, CSc.					

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: ÚMV/ Course name: Diploma project II DPP2b/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: ÚMV/DPP2a/14 **Conditions for course completion: Learning outcomes: Brief outline of the course: Recommended literature:** Course language: Slovak **Notes:** Course assessment Total number of assessed students: 27 abs n 100.0 0.0 Provides: prof. RNDr. Jozef Doboš, CSc. Date of last modification: 03.05.2015 Approved: doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Ol'ga Orosová, CSc., prof. RNDr. Jozef Doboš, CSc.

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: ÚMV/ Course name: Diploma project III DPP2c/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: ÚMV/DPP2b/14 **Conditions for course completion: Learning outcomes: Brief outline of the course: Recommended literature:** Course language: Slovak **Notes:** Course assessment Total number of assessed students: 26 abs n 100.0 0.0 **Provides:** Date of last modification: 03.05.2015 Approved: doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Ol'ga Orosová, CSc., prof. RNDr. Jozef Doboš, CSc.

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: doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Ol'ga Orosová, CSc., prof. RNDr. Jozef Doboš, 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: doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Ol'ga Orosová, CSc., prof. RNDr. Jozef Doboš, 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: doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Oľga Orosová, CSc., prof. RNDr. Jozef Doboš, CSc.

University: P. J. Šafárik University in Košice						
Faculty: Faculty of S	science					
Course ID: ÚMV/ DGE/10	Course name: Dynamic geometry					
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: 3					
Recommended seme	ester/trimester of the course: 3.					
Course level: II.						
Prerequisities:						
Conditions for course test using a computer	r, didactic project and final exam					
To acquire command Cabri 3D. To learn to objects and their attractions of the command to the com	Learning outcomes: To acquire commands and the concept of dynamic constructions in the program Geogebra and Cabri 3D. To learn to use a dynamic geometry environment for experimentation with geometric objects and their attributes and the investigation of invariant properties of geometric figures and relationships between objects in triangles, quadrilaterals, and conics basic solid figures.					
Brief outline of the course: Constructions and exploration of the properties of triangles, quadrilaterals, circles, and their use in solving construction tasks. Menelaus' theorem, Ceva's theorem, Varignon's theorem, Ptolemy's theorem, cyclic and tangential quadrilaterals, the centre point of polygons. The use of transformations in solving tasks. Constructions of conics and their use in solving problems. Mathematical modeling and exploration of functional dependencies, solving problems for searching of extremes. The cross positions of linear geometric shapes in space, cuts of solid figures, intersetion lines and solid figures. Analysis of the possibilities of using dynamic geometry environment to support active learning of mathematics.						
Recommended literature: 1. Vaníček, J.: Počítačové kognitivní technologie ve výuce geometrie. Univerzita Karlova v Praze, 2009. 2. King, J., Schattschneider, D.: Geometry Turned On! Dynamic Software in Learning, Teaching, and Research. The Mathematical Association of America, 1997. 3. De Villiers, M., D.: Rethinking proof with the Geometer's Sketchpad. Key Curriculum Press, 2003.						
Course language: Slovak						

Notes:

Course assessm	Course assessment					
Total number of assessed students: 39						
Α	В	С	D	Е	FX	
48.72	30.77	12.82	7.69	0.0	0.0	

Provides: doc. RNDr. Stanislav Lukáč, PhD.

Date of last modification: 03.05.2015

Approved: doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Oľga Orosová, CSc., prof. RNDr. Jozef

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	C	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: doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Oľga Orosová, CSc., prof. RNDr. Jozef

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: KPE/ Course name: Essentials of Special Education **ZSP/15** Course type, scope and the method: Course type: Lecture Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: present **Number of ECTS credits: 2 Recommended semester/trimester of the course:** 3. Course level: II. **Prerequisities: Conditions for course completion: Learning outcomes: Brief outline of the course: Recommended literature:** Course language: **Notes:** Course assessment

Total number of assessed students: 429

Α	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: doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Ol'ga Orosová, CSc., prof. RNDr. Jozef

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: doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Oľga Orosová, CSc., prof. RNDr. Jozef

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚMV/ | Course name: Geometry II

GEO2b/10

Course type, scope and the method:

Course type: Lecture / Practice Recommended course-load (hours):

Per week: 3 / 2 Per study period: 42 / 28

Course method: present

Number of ECTS credits: 6

Recommended semester/trimester of the course: 1.

Course level: II.

Prerequisities:

Conditions for course completion:

Learning outcomes:

To obtain knowledge about affine, isometric, and similarity transformations and their properties.

Brief outline of the course:

- 1. Quadric surfaces (circular and general quadric surfaces)
- 2. Affine transformations (associated transformation, matrix representation, affinities, fixed points and lines, pseudo-reflections)
- 3. Isometric transformations (matrix representation, isometries, classification in the plane, composition of reflections)
- 4. Similarity transformations (matrix representation, similarities, homothety, composition of homotheties)
- 5. Geometry of circles (the power of a point with respect to a circle, radical axis of two circles, pencils of circles)

Recommended literature:

- 1. M. Sekanina et al, Geometry 2, SPN, 1988 (in slovak).
- 2. O. Šedivý et al, Geometry 2, SPN, 1987 (in slovak).
- 3. H.S.M. Coxeter, Introduction to geometry, Wiley, 1989.
- 4. J.T. Smith, Methods of geometry, Wiley, 2000.

Course language:

Slovak

Notes:

Course assessment

Total number of assessed students: 115

A	В	C	D	Е	FX
17.39	17.39	23.48	17.39	21.74	2.61

Provides: RNDr. Igor Fabrici, Dr., RNDr. Lucia Janičková, PhD.

Date of last modification: 03.05.2015

Approved: doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Oľga Orosová, CSc., prof. RNDr. Jozef Doboš, CSc.

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚMV/ | Course name: Geometry III

GEO2c/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: 2.

Course level: II.

Prerequisities:

Conditions for course completion:

Learning outcomes:

A new look on the classical geometric results.

Brief outline of the course:

- 1. Points and lines connected with a triangle (Menelaus's theorem, Ceva's theorem, points of interest, the incircle and excircles, pedal triangles, Euler line, nine-point circle)
- 2. Properties of circles (the power of a point with respect to a circle, radical axis of two circles, Simson lines, Ptolemy's theorem, Morley's theorem)
- 3. Collinearity and concurrence (quadrangles, Varignon's parallelogram, cyclic quadrangles, Brahmagupta's formula, Napoleon triangles)
- 4. Focal properties of regular conics (Dandelin spheres, tangents and directrix of a regular conic)
- 5. Inversion with respect to a circle (basic properties, composition of inversions and homotheties)

Recommended literature:

- 1. H.S.M. Coxeter, S.L. Greitzer, Geometry revisited, MAA, 1967.
- 2. R.A. Johnson, Advanced Euclidean geometry, Dover Publ., 2007.
- 3. A.V. Akopyan, A.A. Zaslavsky, Geometry of conics, AMS, 2007.
- 4. D.A. Brannan, M.F. Esplen, J.J. Gray, Geometry, Cambridge Univ. Press, 2007.

Course language:

Slovak

Notes:

Course assessment

Total number of assessed students: 96

A	В	С	D	Е	FX
20.83	28.13	30.21	9.38	11.46	0.0

Provides: RNDr. Igor Fabrici, Dr.

Date of last modification: 03.05.2015

Approved: doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Oľga Orosová, CSc., prof. RNDr. Jozef Doboš, 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: doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Ol'ga Orosová, CSc., prof. RNDr. Jozef

	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 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 Oral examination	se 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 chem metals). Environmentals their protection. The utilization. Energy at	
Oxford University Pr 2. R.A. Bailey, H.M. Academic Press, San 3. G. Schwedt: The F 4. R.N. Reeve, J.D. F	, Stephen J. Duffy: Environmental Chemistry - A Global Perspective, ress, 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: doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Oľga Orosová, CSc., prof. RNDr. Jozef Doboš, 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 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 Seminar work. Examination.	e 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 in Steel. Light metals. Materials. Ceramic to Glass. Building binder	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. Point defects. Line defects. Dislocations. Diffusion. Diffusion mechanisms. ilures, re-crystallization. Deformations. Plastic deformations. Solid solutions. Phases in ceramic systems. Phase transformations. Crystallization of metals. methods. 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				
Recommended literature: W. D. Callister, Jr.: Fundamentals of Materials Science and Engineering, John Wiley & Sons, 2001. Brian S. Mitchell: An Introduction to Materials Engineering and Science: For Chemical and Materials Engineers, John Wiley & Sons,					
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: doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Oľga Orosová, CSc., prof. RNDr. Jozef Doboš, CSc.

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: ÚMV/ Course name: Magister thesis and its defense DPU/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: II. **Prerequisities: Conditions for course completion: Learning outcomes: Brief outline of the course: Recommended literature:** Course language: Slovak **Notes: Course assessment** Total number of assessed students: 25 В C E FX A D 80.0 12.0 4.0 4.0 0.0 0.0 **Provides:** Date of last modification: 03.05.2015

Approved: doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Ol'ga Orosová, CSc., prof. RNDr. Jozef

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚMV/ | **Course name:** Mathematical statistics

MST/19

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: I., II.

Prerequisities:

Conditions for course completion:

To obtain at least 50% in two written tests during the semester. Total evaluation based on written tests and oral exam.

Learning outcomes:

Student should obtain the knowledge about basic statistical methods and the ability to apply theoretical knowledge in practical problems solving.

Brief outline of the course:

Random vectors, their distributions and characteristics. Joint and marginal distributions. Correlation and regression, properties of correlation coefficient. Random sample, sampling distributions and characteristics. Some important statistics and their distributions. Point estimators and their properties. Maximum likelihood method. Interval estimates, confidence interval construction. Testing of statistical hypothesis, critical region, level of significance. Methods for searching optimal critical regions. Some important parametric and nonparametric tests.

Recommended literature:

- 1. Skřivánková V.: Pravdepodobnosť v príkladoch, UPJŠ, Košice, 2006 (in Slovak)
- 2. Skřivánková V.-Hančová M.: Štatistika v príkladoch, UPJŠ, Košice, 2005 (in Slovak)
- 3. CASELLA, G., BERGER, R., Statistical Inference, 2nd ed., Duxbury Press, 2002
- 4. DeGroot, M. H., Schervish, M. J.: Probability and Statistics, 4th ed., Pearson, Boston, 2012
- 5. Utts, J.M., Heckard, R.F.: Mind od Statistics, 5th ed., Thomson Brooks/Cole, 2014
- 6. Anděl J.: Základy matematické statistiky, MatfyzPress, Praha, 2011 (in Czech)

Course language:

Slovak

Notes:

Course assessment

Total number of assessed students: 124

A	В	С	D	Е	FX
20.97	21.77	15.32	21.77	12.9	7.26

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Provides: prof. RNDr. Ivan Žežula, CSc., RNDr. Martina Hančová, PhD.

Date of last modification: 18.03.2019

Approved: doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Oľga Orosová, CSc., prof. RNDr. Jozef

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚMV/ | **Course name:** Mathematics and didactics of mathematics

MDM/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: ÚMV/DDMa/14,ÚMV/DDMb/14

Conditions for course completion:

Acquiring the required number of credits in the structure defined by the study plan.

Learning outcomes:

Evaluation of student's competences with respect to the profile of the graduate.

Brief outline of the course:

Recommended literature:

Course language:

Slovak

Notes:

Course assessment

Total number of assessed students: 65

A	В	C	D	Е	FX
27.69	26.15	20.0	16.92	9.23	0.0

Provides:

Date of last modification: 03.05.2015

Approved: doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Oľga Orosová, CSc., prof. RNDr. Jozef

Doboš, CSc.

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	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	-			
Learning outcomes: After the course student gains an overview about the possible use of digital technologies to support active learning in science. He gains skills to use and develop activities on measuring data with the help of datalogging, measuring on picture and viderecording and modeling natural processes. Student is able to implement such activities in science teaching to support active learning and conceptual understanding.				
Brief outline of the course: The aim of the course is to present the use of digital technologies to enhance active learning in science with the help of datalogging, videomeasurement and modeling tools. Mathematical modeling is based on dynamical modeling of natural phenomena. Within the course students carry out computer-based experiments, videomeasurements and measurement on picture and create corresponding models. The activities involve selected topics of secondary schools science. The emphasize is put on the methods of implementation of the activities with regard to active students 'learning.				
podporovanom labor [2]Príručka COACH	n, I.: Fyzikálne experimenty a modely v školskom mikropočítačom ratóriu, Univerzita Komenského, Bratislava, 1999			
Slovak				

Notes:

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

Provides: doc. RNDr. Zuzana Ješková, PhD.

Date of last modification: 03.05.2015

Approved: doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Oľga Orosová, CSc., prof. RNDr. Jozef

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.

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

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.

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: doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Ol'ga Orosová, CSc., prof. RNDr. Jozef

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 Е 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: doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Ol'ga Orosová, CSc., prof. RNDr. Jozef

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

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Approved: doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Ol'ga Orosová, CSc., prof. RNDr. Jozef

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 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:

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: 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

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: doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Ol'ga Orosová, CSc., prof. RNDr. Jozef

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: doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Ol'ga Orosová, CSc., prof. RNDr. Jozef Doboš, 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: doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Ol'ga Orosová, CSc., prof. RNDr. Jozef Doboš, CSc.

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚMV/ Course name: Scheduled practice teaching
VPPb/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:

Enable students to gain first practical experience in teaching mathematics to apply theoretical knowledge in specific teaching situations, to develop their teaching skills. To acquaint students with the atmosphere and the organization of school.

Brief outline of the course:

Recommended literature:

Course language:

Slovak

Notes:

Course assessment

Total number of assessed students: 52

abs	n
100.0	0.0

Provides: doc. RNDr. Dušan Šveda, CSc., RNDr. Ingrid Semanišinová, PhD.

Date of last modification: 03.05.2015

Approved: doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Ol'ga Orosová, CSc., prof. RNDr. Jozef

	COURSE INFORMATION LETTER						
University: P. J. Šafá	rik University in Košice						
Faculty: Faculty of S	cience						
Course ID: ÚTVŠ/ ÚTVŠ/CM/13	Course name: Seaside Aer	robic Exercise					
Course type: Practic Recommended cour Per week: Per stud	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 cr	edits: 2						
Recommended seme	ster/trimester of the cours	e:					
Course level: I., II.							
Prerequisities:							
Conditions for course Conditions for course Attendance	<u> </u>						
conditions actively a Students will acquire the aim to improve the	and their skills in work and e practical experience in org he stay and to create positive	ssibilities how to spend leisure time in seaside d communication with clients will be improved. canising the cultural and art-oriented events, with experiences for visitors.					
Brief outline of the course: I Basics of seaside aerobics A prilates and its application in seaside conditions Exercises for the spine Sport as a part of leisure time Application of projects of productive spending of leisure time for different age and social groups (children, young people, elderly) 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: doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Oľga Orosová, CSc., prof. RNDr. Jozef

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚCHV/ Course na

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	В	С	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: doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Oľga Orosová, CSc., prof. RNDr. Jozef

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:

Recommended literature:

Course language:

Notes:

Course assessment

Total number of assessed students: 108

A	В	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: doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Ol'ga Orosová, CSc., prof. RNDr. Jozef

Doboš, CSc.

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COURSE INFORMATION LETTER							
University: P. J. Šafárik University in Košice							
Faculty: Faculty of S	cience						
Course ID: ÚMV/ VMA/19	Course name: Selected topics on mathematical analysis						
Course type: Lectur Recommended cour Per week: 2/2 Per	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 cr	edits: 4						
Recommended seme	ster/trimester of the course: 2.						
Course level: I., II.							
Prerequisities: ÚMV	/FRPb/19						
	Conditions for course completion: Final evaluation is given by continuous assessment.						
	Learning outcomes: Expand the knowledge of mathematical analysis needed to deepen understanding of machine learning and artificial intelligence.						
Brief outline of the course: 1. Vector (linear) space - examples of infinite-dimensional spaces (spaces of sequences and functions). 2. Metric space (MS) - metric, convergence of sequences, closure and interior of a set, completeness and compactness of MP, Banach fixed-point theorem. 3. Normed linear space (NLS) - norm, Banach spaces, relation to MS, dual spaces, Hölder, Minkowski inequality. 4. Space with scalar product - unitary and Hilbert spaces, Cauchy-Schwartz inequality, Pythagorean theorem, parallelogram rule, relation to LNP, orthogonal projections. 6. Operators (functionals) in NLP - linearity, continuity, boundedness, adjointness.							
Recommended literature: 1. N. Katzourakis, E. Varvaruca, An illustrative introduction to modern analysis. Boca Raton, FL:CRC Press (2018) 2. A. M. Bruckner, J. B. Bruckner, B. S. Thomson, Real analysis, 2nd. ed., ISBN 1434844129, 2008 3. Taylor, A.: Úvod do funkcionální analýzy, Academia 1973. 4. Kolmogorov, A., Fomin, S.: Základy teórie funkcí a funkcionální analýzy, 1975. 5. S. Lang, Undegraduate Analysis, Springer, 1997.							
Course language: Slovak							

Notes:

	Course assessment						
Total number of assessed students: 1							
	A	В	С	D	Е	FX	
	100.0	0.0	0.0	0.0	0.0	0.0	

Provides: doc. RNDr. Ondrej Hutník, PhD., Mgr. Jozef Kiseľák, PhD.

Date of last modification: 27.03.2019

University: P. J. Šafárik University in Košice
Faculty: Faculty of Science
Course ID: ÚMV/ Course name: Seminar on history of mathematics SHM/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: I., II.
Prerequisities:
Conditions for course completion: Homework, presentation on the chosen topic during the seminar. More than 91 points - evaluation of A. 81-90 points - evaluation of B. 71-80 points - rating C. 61-70 points - evaluation of D. 51-60 points - evaluation of E. Less than 50 points - FX evaluation.
Learning outcomes: Students get an overview of the history of the development of certain mathematical disciplines and selected terms and about parallel between phylogenesis and ontogenesis of mathematical thinking
Brief outline of the course: Mathematics in Early Civilizations. Greek Mathematics. Mathematics in the Near and Far Eas (Arabia, China, India). Medieval European Mathematics. The Renaissance of Mathematics. The Beginning of Modern Mathematics.
Recommended literature: Burton, D. M.: The History of Mathematics: An Introduction. McGraw-Hill, 2007. Devlin, K.: Jazyk matematiky. Dokořán, 2002 (in czech) Kolman, A.: Dejiny matematiky ve starověku. Academia, Praha, 1968 (in slovak) Juškevič, A. P.: Dejiny matematiky ve středověku. Academia, Praha 1977 (in slovak) Znám,Š. a kol.: Pohľad do dejín matematiky. Alfa, Bratislava, 1986 (in slovak) Konforovič, A.G.: Významné matematické úlohy, SPN Praha, 1989 (in slovak) Course language: Slovak

Notes:

Course assessment Total number of assessed students: 105 A B C D E FX 72.38 10.48 9.52 3.81 3.81 0.0

Provides: RNDr. Ingrid Semanišinová, PhD.

Date of last modification: 03.05.2015

Approved: doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Oľga Orosová, CSc., prof. RNDr. Jozef

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚMV/ | **Course name:** Seminar on school mathematics

SSM/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:

During the semester will be 3 written exams.

Evaluation A - at least 90% of the points, evaluation B - at least 80%, evaluation C at least 70%, evaluation D at least 60%, evaluation E rating of at least 50% of the points. Credits shall not be granted to a student who receives less than 50% of the points.

Learning outcomes:

Students become familiar with the tasks, methods of problem solving, solving strategies and with specific problems of teaching mathematics at primary and secondary schools.

Brief outline of the course:

Basic knowledge of school mathematics. Number theory tasks, tasks to optimize, word problems.

Recommended literature:

Hecht, T., Sklenáriková, Z., Metódy riešenia matematických úloh, Bratislava, SPN, 1992.

Hecht, T. a kol., Matematika pre 1.-4. ročník gymnázií a SOŠ, OrbisPictusIstropolitana,

Bratislava 1999-2002.

Krantz, S.G., Techniques of Problem Solving, AMS, 1997.

Larson, L.C., Metódy riešenia matematických problémov, Bratislava, Alfa, 1990.

Course language:

Slovak

Notes:

Course assessment

Total number of assessed students: 54

A	В	С	D	Е	FX
62.96	37.04	0.0	0.0	0.0	0.0

Provides: doc. RNDr. Matúš Harminc, CSc.

Date of last modification: 03.05.2015

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University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: Course name: Slovak Language for Teachers

KSSFaK/VSJU/15

ASSFAK/VSJU/15

Course type, scope and the method:

Course type: Lecture

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

Course method: present

Number of ECTS credits: 2

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

Course level: II.

Prerequisities:

Conditions for course completion:

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	В	С	D	Е	FX
14.58	29.17	33.33	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

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	В	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.

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Date of last modification: 03.05.2015

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	В	С	D	Е	FX
40.89	28.34	19.03	8.1	3.64	0.0

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

Date of last modification: 05.02.2020

	COURSE IN ORMATION LETTER
University: P. J. Šafái	rik University in Košice
Faculty: Faculty of So	cience
Course ID: ÚTVŠ/ TVa/11	Course name: Sports Activities I.
Course type, scope as Course type: Practic Recommended cour Per week: 2 Per stud Course method: cor Number of ECTS cro	rse-load (hours): dy period: 28 mbined, present
	ster/trimester of the course: 1.
Course level: I., I.II.,	
Prerequisities:	11.
Conditions for course Conditions for course Min. 80% of active particles. Learning outcomes: Learning outcomes:	•
Increasing physical	condition and performance within individual sports. Strengthening the its to the selected sports activity and its continual improvement.
University provides f floorball, yoga, pilate tennis, sports for unfi In the first two semes and particularities of i physical condition, co Last but not least, the means of a special pro In addition to these s physical education tra the premises of the face	burse: subject, the Institute of Physical Education and Sports of Pavol Jozef Šafárik for students the following sports activities: aerobics, basketball, badminton, es, swimming, body-building, indoor football, self-defence and karate, table t persons, streetball, tennis, and volleyball. Sters of the first level of education students will master basic characteristics individual sports, motor skills, game activities, they will improve level of their coordination abilities, physical performance, and motor performance fitness. important role of sports activities is to eliminate swimming illiteracy and by ogram of medical physical education to influence and mitigate unfitness. Sports, the Institute offers for those who are interested winter and summer thinings with an attractive program and organises various competitions, either at culty or University or competitions with national or international participation.
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 0.07 0.0 3.9 88.48 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

	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 Number of ECTS cr	rse-load (hours): dy period: 28 mbined, present
	ster/trimester of the course: 2.
Course level: I., I.II.,	
Prerequisities:	
	•
	condition and performance within individual sports. Strengthening the nts to the selected sports activity and its continual improvement.
University provides a floorball, yoga, pilate tennis, sports for unfile. In the first two seme and particularities of physical condition, condition, contact but not least, the means of a special properties of the physical education transport the premises of the factors.	ourse: ubject, the Institute of Physical Education and Sports of Pavol Jozef Šafárik for students the following sports activities: aerobics, basketball, badminton, es, swimming, body-building, indoor football, self-defence and karate, table it persons, streetball, tennis, and volleyball. sters of the first level of education students will master basic characteristics individual sports, motor skills, game activities, they will improve level of their coordination abilities, physical performance, and motor performance fitness. It important role of sports activities is to eliminate swimming illiteracy and by cogram of medical physical education to influence and mitigate unfitness. Supports, the Institute offers for those who are interested winter and summer tainings with an attractive program and organises various competitions, either at culty or University or competitions with national or international participation.
Recommended litera	ture:
Course language:	

Notes:

Course asso	Course assessment						
Total numb	er of assesse	d students: 1	1330				
abs	abs-A	abs-B	abs-C	abs-D	abs-E	n	neabs
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

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚTVŠ/ | **Course name:** Sports Activities III.

TVc/11

Course type, scope and the method:

Course type: Practice

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

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

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: doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Ol'ga Orosová, CSc., prof. RNDr. Jozef

	COURSE INFORMATION LETTER
University: P. J. Šafári	k University in Košice
Faculty: Faculty of Sci	ience
Course ID: ÚCHV/ STA1/03	Course name: Structure Analysis
Course type, scope an Course type: Lecture Recommended cours Per week: 2/2 Per st Course method: pres	/ Practice se-load (hours): tudy period: 28 / 28
Number of ECTS cree	dits: 6
Recommended semest	ter/trimester of the course:
Course level: II.	
Prerequisities:	
final tests.	is in a written form. The final mark is based on the results from current and
diffraction methods us	iew about the symmetry at the micro- and macrostructure level and about ed for the crystal structure determination and they will learn how to use the ructure analysis in their own work.
of the diffraction exper	crostructure symmetry, individual work with space groups. Theoretical basis iment. Practical aspects of crystal structure solution. Processing the results of coretical basis, practical aspects and possibilities of X-ray powder diffraction
Clegg, W. et al.: Crysta Hahn, T.: International Stout, G.H. & Jensen,	al structure analysis. Principles and practice. Oxford University Press 2009. Itables for crystallography, Vol. A. Kluwer Academic Publishers 2002. L.H.: X-ray Structure Determination. Macmillan Publishing Co., Inc. 1968. er, L.E.: X-Ray diffraction procedures for polycrystalline and amorphous
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: doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Oľga Orosová, CSc., prof. RNDr. Jozef

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚMV/ | Course name: Students scientific conference

SVK/10

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: I., II.

Prerequisities:

Conditions for course completion:

Learning outcomes:

Individual scientific work of students. Publishing of obtained results in a written form and as a public presentation.

Brief outline of the course:

Recommended literature:

With respect to the research problematics (article in journals, books).

Course language:

Slovak or English

Notes:

Course assessment

Total number of assessed students: 94

A	В	С	D	Е	FX
98.94	1.06	0.0	0.0	0.0	0.0

Provides:

Date of last modification: 03.05.2015

Approved: doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Ol'ga Orosová, CSc., prof. RNDr. Jozef

University: P. J. Šafár	rik University in Košice
Faculty: Faculty of S	cience
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: con	ce rse-load (hours): y period: 36s
Number of ECTS cro	edits: 2
Recommended seme	ster/trimester of the course:
Course level: I., II.	
Prerequisities:	
Conditions for course Conditions for course Attendance Final assessment: Rat	<u>-</u>
Learning outcomes: Learning outcomes: Students have knowled	edge of rafts (canoe) and their control on waterway.
5. Canoe lifting and c	ourse: Coulty of waterways Citing ning using an empty canoe carrying In the water without a shore contact be out 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: doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Ol'ga Orosová, CSc., prof. RNDr. Jozef

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: doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Ol'ga Orosová, CSc., prof. RNDr. Jozef Doboš, 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: doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Oľga Orosová, CSc., prof. RNDr. Jozef

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: doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Oľga Orosová, CSc., prof. RNDr. Jozef

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID:
KPPaPZ/UPR/15

Course name: The Art of Aiding by Verbal Exchange

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

Number of ECTS credits: 2

Recommended semester/trimester of the course: 2.

Course level: II.

Prerequisities:

Conditions for course completion:

Recommended literature:

Brief outline of the course:

Learning outcomes:

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: doc. RNDr. Mária Ganajová, CSc., prof. PhDr. Ol'ga Orosová, CSc., prof. RNDr. Jozef

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

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