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	Theory of Education	

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: 380

A	В	С	D	Е	FX
33.68	22.11	15.53	10.0	6.58	12.11

Provides: Mgr. Viktória Mária Slovenská

Date of last modification: 17.09.2020

Approved:	
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University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: KPE/ Course name: Alternative Education ALP/06 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: 4. Course level: I. **Prerequisities: Conditions for course completion: Learning outcomes: Brief outline of the course: Recommended literature:** Course language: **Notes:** Course assessment Total number of assessed students: 242 В \mathbf{C} Α D Е FX 62.81 31.4 3.31 0.83 0.41 1.24 Provides: Mgr. Katarína Petríková, PhD. Date of last modification: 14.06.2021 Approved:

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚCHV/ C

Course name: Analytical Chemistry

ANCHU/03

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: 6

Recommended semester/trimester of the course: 3.

Course level: I.

Prerequisities: ÚCHV/VCHU/14 and leboÚCHV/VCHU/15 and leboÚCHV/VCHU/10 and

leboÚCHV/VACH/10

Conditions for course completion:

3x test of analytical calculations.

Examination

Learning outcomes:

Survey of basic principles and tasks of analytical chemistry and applications of analytical methods in research and practice.

Brief outline of the course:

Subject and role of analytical chemistry. General principles and procedures - sampling, sample pretreatment. Preparation of solutions. Evaluation of the results.

Classification of analytical reactions. Qualitative analysis of cations and anions. Basic principles of organic analysis.

Methods of quantitative analysis. General principles of gravimetry. Volumetric analysis.

Instrumental methods of analytical chemistry (basic principles, instrumentaion and applications) - electroanalytical, optical and separation methods.

Recommended literature:

Skoog D.A.: Principles of Instrumental Analysis. Saunders Col. Publishing, New York 1985.

D.Harvey: Modern Analytical Chemistry. McGraw Hill, Boston, 2000.

Course language:

Notes:

Course assessment

Total number of assessed students: 708

A	В	С	D	Е	FX
17.23	19.35	25.14	25.0	9.6	3.67

Provides: doc. RNDr. Taťána Gondová, CSc.

Date of last modification: 03.05.2015

Approved:	
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University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of S	cience		
Course ID: ÚCHV/ BKP/14	J		
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	rse-load (hours): y period:		
Number of ECTS cro	edits: 2		
Recommended seme	ster/trimester of the cours	e: 5.	
Course level: I.			
Prerequisities:			
Conditions for cours Submission of the ba- supervisor.	-	of the project and acceptance of its content by the	
Learning outcomes:			
Brief outline of the c	ourse:		
	ture: elated to the topic of the bac 11 of the rector UPJS in Ko	1 5	
Course language:			
Notes:			
Course assessment Total number of asses	ssed students: 60		
	abs	n	
	100.0	0.0	
Provides:			
Date of last modifica	tion: 03.05.2015		
Approved:			

University: P. J. Šaf	ärik University in Košice		
Faculty: Faculty of	Science		
Course ID: ÚGE/ BKP/14	Course name: Bachelor P	roject	
Course type, scope Course type: Recommended cou Per week: Per stu Course method: pr	urse-load (hours): dy period: resent		
Number of ECTS c			
	ester/trimester of the cours	se: 5.	
Course level: I.			
Prerequisities:			
Conditions for cour	se completion:		
Learning outcomes	:		
Brief outline of the	course:		
Recommended liter	rature:		
Course language:			
Notes:			
Course assessment Total number of asse	essed students: 96		
	abs	n	
	96.88	3.13	
Provides:			
Date of last modific	eation: 03.05.2015		
Approved:			

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: ÚGE/ Course name: Bachelor Thesis and its Defence **BPO/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: 4** Recommended semester/trimester of the course: Course level: I. **Prerequisities: Conditions for course completion: Learning outcomes: Brief outline of the course: Recommended literature:** Course language: **Notes:** Course assessment Total number of assessed students: 153 C Ε FX Α В D 38.56 30.07 15.03 8.5 7.19 0.65 **Provides:** Date of last modification: 31.07.2015 Approved:

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: ÚCHV/ Course name: Bachelor Thesis and its Defence **BPO/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: 4** Recommended semester/trimester of the course: Course level: I. **Prerequisities: Conditions for course completion: Learning outcomes: Brief outline of the course:** Oral presentation of the thesis results. Answering questions of the thesis oponent or members of the state examination board. **Recommended literature:** Course language: slovak **Notes: Course assessment** Total number of assessed students: 213 Α В C D Е FX 87.79 8.45 1.88 1.88 0.0 0.0 **Provides:** Date of last modification: 03.05.2015 Approved:

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: ÚGE/ Course name: Basics of Karstology and Speleology KAR/05 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: 4. Course level: I. **Prerequisities: Conditions for course completion: Learning outcomes: Brief outline of the course: Recommended literature:** Course language: **Notes:** Course assessment Total number of assessed students: 226 C A В D Е FX 77.88 15.04 5.31 0.0 1.77 0.0 Provides: RNDr. Alena Gessert, PhD. Date of last modification: 27.08.2020 Approved:

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚCHV/ | Course name: Basis of Mineralogy

MIN1/14

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: 4.

Course level: I.

Prerequisities: ÚCHV/VCH/10 and leboÚCHV/VCHU/10 and leboÚCHV/ZAC2/10 and leboÚCHV/VACH/10 and leboÚCHV/CHG/09 and leboÚCHV/ZCF/03 and leboÚCHV/VCHU/15

Conditions for course completion:

Verification of theoretical knowledge and recognizing minerals.

Semester project, practical test from recognizing of minerals, written examination.

Learning outcomes:

To recognize the beauty of nature and to obtain basic knowledge from mineralogy. To familiarize students with properties of usual minerals and to recognize these minerals.

Brief outline of the course:

Basic terms and definitions, origin of minerals in nature. Basis of morphological and structural crystallography: characteristic properties of crystals, crystallographic laws, crystal structure, unit cells and their parameters, crystallographic systems with examples of minerals. Crystallochemistry: types of bonds and structures and their effect on the properties of minerals. Physical properties of minerals and their utilize in minerals classification. Basis of genetic and systematic mineralogy. Structure of silicates.

Recommended literature:

M. Košuth: Mineralógia. Elfa, s.r.o. Košice, 2001 V. Radzo: Mineralógia, Alfa Bratislava, 1987.

Course language:

Slovak

Notes:

Course assessment

Total number of assessed students: 102

A	В	С	D	Е	FX
81.37	15.69	0.98	0.98	0.0	0.98

Provides: doc. RNDr. Ivan Potočňák, PhD.

Date of last modification: 03.05.2021

Approved:

	COURSE INFORMATION LETTER
University: P. J. Šafá	rik University in Košice
Faculty: Faculty of S	cience
Course ID: ÚCHV/ BCHU/03	Course name: Biochemistry
Course type, scope a Course type: Lectur Recommended cour Per week: 3 Per stu Course method: pre	re rse-load (hours): dy period: 42
Number of ECTS cr	edits: 5
Recommended seme	ster/trimester of the course: 5.
Course level: I.	
Prerequisities: ÚCH leboÚCHV/VCHU/14	V/VCHU/10 and leboÚCHV/VCHU/15 and leboÚCHV/VACH/10 and
Conditions for cours test + oral examination	•
	stry teaching is to acquire knowledge in the field of living organisms on the lar structure and metabolism.
2. DNA and RNA an 3. Enzymes: Basic Co 4. Carbohydrates (Mo 5. Lipids and Cells Mo 6. Metabolis: Basic Co 7. Glycolysis and Glo 8. The Citric Acid Cy 9. Oxidative Phospho 10. The Calvine Cycl 11. Fatty Acids Meta 12. DNA Replication	nd Function, Exploring proteins d the Flow of Genetic Information, Exploring genes concepts and Kinetics, Catalytic Strategies and Regulatory Strategies conosaccharides, Disaccharides, Polysaccharides – Functions and Properties) Iembranes, Membrane Channels and Pumps Concepts and Design, Signal-Transduction Pathways aconeogenesis, Glycogen Metabolism vele and Glyoxylate Cycle orylation, The Light Reactions of Photosyntesis e and the Pentose Phosphate Pathway
Stryer, L.: Biochemis	
Course language:	

Notes:

Course assessment Total number of assessed students: 1221						
A	В	С	D	Е	FX	
19.66	16.87	20.88	20.88	19.08	2.62	
Provides: doc	Provides: doc RNDr Frik Sedlák DrSc RNDr Nataša Tomášková PhD					

Provides: doc. RNDr. Erik Sedlák, DrSc., RNDr. Nataša Tomášková, PhD.

Date of last modification: 03.05.2015

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚCHV/

Course name: Biochemistry Practical

PBCHU/15

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: 4

Recommended semester/trimester of the course: 6.

Course level: L

Prerequisities: ÚCHV/BCHU/03

Conditions for course completion:

Protocols + 75 % continuous evaluation.

Learning outcomes:

Brief outline of the course:

The most important biochemical laboratory methods. The qualitative tests for amino acids and proteins. Time-dependent course of enzyme-catalyzed reaction: determination of enzymatic activity, determination of the first order rate constant, calculations of math models (examples), effect of a substrate concentration on initial rate of reaction, determination of Km and Vmax for urease. Isolation and detection of nucleic acids.

Recommended literature:

http://kosice.upjs.sk/~kbch/

Course language:

Notes:

Course assessment

Total number of assessed students: 159

A	В	С	D	Е	FX
77.99	17.61	3.14	0.63	0.63	0.0

Provides: prof. RNDr. Mária Kožurková, CSc., RNDr. Nataša Tomášková, PhD., RNDr. Rastislav Varhač, PhD., RNDr. Danica Sabolová, PhD., RNDr. Eva Konkoľová, PhD.

Date of last modification: 03.05.2015

Approved:

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚCHV/ | Course name: Bioinorganic Chemistry I

BAC1/04

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: 5.

Course level: I., II.

Prerequisities:

Conditions for course completion:

Test or seminar works

examination

Learning outcomes:

The basic knowledges about biometal interactions with biomolecules, biomaterials, biominerals, biocatalysis, metals in biology and medicine, metal-based drugs, toxic metals for biosystems and metals in the environment.

Brief outline of the course:

Metalic and non-metalic elements and their roles in biological systems (biometals, bulk biological elements, essential trace elements). Biocoordination compounds, bioligands. Biocatalyzers. Oxygen carriers and oxygen transport proteins. Photochemical process. Catalysis and regulation processes. Calcium biominerals and biomineralization. Toxic metals. Application of knowledge of bioinorganic chemistry in pharmacy, chemotherapy (e.g. platinum complexes in cancer therapy) radiodiagnostics, mineral biotechnology, ecology and in other branches of life.

Recommended literature:

- 1. Shriver D. F., Atkins P. W., Overton T. L., Rourke J.P., Weller M.T., Amstrong F.A.: Shiver & Atkins. Inorganic Chemistry. Oxford University Press, Oxford 2006.
- 2. Kaim W., Schwederski B.: Bioinorganic Chemistry: Inorganic Elements in the Chemistry of Life. Wiley, Chichester 1998.
- 3. Wilkins P. C., Wilkins R. G.: Inorganic Chemistry in Biology. OCP, Oxford 1997.

Course language:

Notes:

Course assessment

Total number of assessed students: 304

A	В	С	D	Е	FX
41.12	28.29	18.75	5.92	5.59	0.33

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

Date of last modification: 03.05.2015	
Approved:	

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚBEV/ | Course name: Biology of Children and Adolescents

BDD/05

Course type, scope and the method:

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

Per week: 2 / 0 Per study period: 28 / 0

Course method: present

Number of ECTS credits: 2

Recommended semester/trimester of the course: 4., 6.

Course level: I.

Prerequisities:

Conditions for course completion:

Written test

Learning outcomes:

The aim of the subject is to gain the particular level of knowledge about human body and its development. It is necessary for the understanding of specific biological characteristics of children and adolescents linked to development.

Brief outline of the course:

Human ontogenesis. Postnatal development. Age specific features of skeletal and muscalar, circulatory, respiratory, gastrointestinal and urinary systems. Reproductive system. Endocrine system. Nervous system. Age specifics of selected diseases and drug dependence arise. Human population and environment.

Recommended literature:

Drobný I., Drobná M.: Biológia dieťaťa pre špeciálnych pedagógov I. a II. Bratislava, PdF UK, 2000

Lipková V.: Somatický a fyziologický vývoj dieťaťa. Osveta Bratislava, 1980

Malá H., Klementa J.: Biológia detí a dorastu. Bratislava, SPN, 1989

Course language:

Notes:

Course assessment

Total number of assessed students: 1551

A	В	С	D	Е	FX
32.82	23.08	17.15	17.15	9.28	0.52

Provides: doc. RNDr. Monika Kassayová, CSc.

Date of last modification: 03.05.2015

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚGE/ Course name: Cartography and Geoinformatics

KAG/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: I.

Prerequisities:

Conditions for course completion:

During the semester it is necessary to pass out the work outputs from the exercises. The knowledge gained on the exercises will be verified by continuous written examinations. The number of work outputs and written examinations will be announced at the beginning of the semester. It is possible to obtain 30% of the assessment criteria for the exercise (work outputs and written examinations). The final evaluation of the exercises is determined by the instructor of the subject based on the completion of tasks in the exercises during the semester. The final evaluation of the study subject is based on the combination of the evaluation conditions from the exercise and the final exam. The final exam may be enrolled by a student who has fulfilled the requirements for attending the exercises and who achieves a raiting of at least minimum 16% in evaluation in exercises. The final assessment is the weighted average of the exercise assessment (30%) and the final exam (70%). Credits are awarded only to a student who achieves rating at least at the grade level of E, i.e. he achieves the raiting of at least 51%. Credits will not be awarded to a student who does not meet the requirements of the exercise and the exam is rated FX. Rating scale: A (100-91%), B (81-90%,) C (71-80%), D (61-70%), E (51-60%).

Learning outcomes:

The main learning outcomes include theoretical and practical skills in cartography and geoinformatics. Students understand cartographic and GIS terminology, students can apply cartographic approaches and methods using GIS, projections and define the content and composition of maps in GIS. The student masters the design, use and evaluation of the properties of cartographic representations in various geoinformatics applications.

Brief outline of the course:

Cartography - the branch of science, position in the system of sciences, the history of cartography, topographic mapping in Slovakia; Cartographic projects, cartographic interpretation; Description maps, geographical names, cartographic generalization, State map series; Cartometry and morphometry; Mathematical cartography (reference area map projection and distortion).

Geoinformatics – the branch of science, elements of GIS, digital representation of landscape, raster

Geoinformatics – the branch of science, elements of GIS, digital representation of landscape, raster and vector data, data collection and processing data for GIS, geospatial database, visualization and cartographic representation using GIS, applications of GIS.

Recommended literature:

HOFIERKA, J., J. KAŇUK, M. GALLAY, 2014. Geoinformatika. Košice: Univerzita Pavla Jozefa Šafárika v Košiciach. ISBN 978-80-8152-178-2.

HOJOVEC, V. et al., 1987. Kartografie. Praha: Geodetický a kartografický podnik v Praze. ISBN 29-621-87.

LONGLEY, P.A., M. GOODCHILD, D. J. MAGUIRE, D. W. RHIND, 2010. Geographic Information Systems and Science. 3rd ed. Hoboken: Wiley & Sons, ISBN 978-0-470-72144-5.

PRAVDA, J., D. KUSENDOVÁ, 2004. Počítačová tvorba tematických máp. Bratislava:

Univerzita Komenského v Bratislave. ISBN 80-223-2011-0.

ROBINSON, A. H. et al., 1995. Elements of Cartography. 6th ed. Hoboken: Wiley & Sons. ISBN 0-471-55579-7.

VOŽENÍLEK, V. et al., 2011. Metody tematické kartografie - Vizualizace prostorových jevů. Olomouc: Univerzita Palackého v Olomouci. ISBN 978-80-24427-90-4.

Course language:

Slovak

Notes:

withot notes

Course assessment

Total number of assessed students: 421

A	В	С	D	Е	FX
14.73	21.62	21.14	19.48	18.29	4.75

Provides: prof. Ing. Vladimír Sedlák, PhD., doc. RNDr. Ján Kaňuk, PhD., Mgr. Patrícia Gurová, Mgr. Ondrej Tokarčík

Date of last modification: 28.09.2020

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚCHV/ | **Course name:** Chemical calculations

CHV1/99

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: I.

Prerequisities:

Conditions for course completion:

Short written tests.

Written test.

Learning outcomes:

To teach students how to calculate material balances in the systems with or without chemical processes and how to calculate examples concerning the chemical equilibrium.

Brief outline of the course:

Expression of the clear matter amount and the system composition. Stoichiometric formula. Material bilances for preparation, dissolving and mixing of solutions, and for separating of mixtures. Material bilances for combined processes. Chemical equations and material bilances in the systems with chemical processes. Acid-Base equilibrium and the pH calculations. The solubility product and solubility.

Recommended literature:

Potočňák I.: Chemické výpočty vo všeobecnej a anorganickej chémii (skriptum), PF UPJŠ, Košice, 2006.

Course language:

Notes:

Course assessment

Total number of assessed students: 1440

A	В	С	D	Е	FX
22.5	19.44	24.1	20.21	12.99	0.76

Provides: RNDr. Martin Vavra, PhD., doc. RNDr. Miroslav Almáši, PhD.

Date of last modification: 03.05.2015

Approved:

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚCHV/ Course n

Course name: Cheminformatics I

ISC1a/00

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: I.

Prerequisities:

Conditions for course completion:

seminar exercises, seminar project

Learning outcomes:

Introductory course aimed at introducing students to the fundamental informatics techniques for chemistry-related disciplines. The class will cover a wide range of topics, including searching chemical information on internet, searching for patent information and work with the primary and secondary literature.

Brief outline of the course:

Searching, retrieving and use of the informations in chemistry. Using of "paper" resources (primary journals, Chemical Abstracts, Beilstein). Searching chemical information on Internet (Scirus, ScienceDirect, Scopus, Web of Science, Medline, NIST) and e-journals.

Recommended literature:

1. R.E. Maizell: How to find Chemical Information, John Wiley,

New York 1998

2. Internet resources for chemistry.

Course language:

slovak language and english language

Notes:

Course assessment

Total number of assessed students: 871

A	В	С	D	Е	FX
71.41	7.92	11.94	6.54	1.49	0.69

Provides: RNDr. Monika Tvrdoňová, PhD., doc. RNDr. Ladislav Janovec, PhD.

Date of last modification: 05.02.2020

Approved:

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: ÚCHV/ Course name: Chemistry SCHM/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: I. Prerequisities: (ÚCHV/VCHU/10 and leboÚCHV/VCHU/14 and leboÚCHV/VCHU/15),ÚCHV/ ACHU/03,ÚCHV/BCHU/03,ÚCHV/FCHU/10,ÚCHV/ANCHU/03,ÚCHV/OCHU/03 **Conditions for course completion: Learning outcomes: Brief outline of the course: Recommended literature:** Course language: **Notes:** Course assessment Total number of assessed students: 154 C В E FX A D 27.92 32.47 23.38 10.39 5.84 0.0 **Provides:** Date of last modification: 30.05.2016 Approved:

University: P. J. Šafárik University in Košice						
Faculty: Faculty of Science						
Course ID: KOP/ OPaPDV/14						
Course type, scope a Course type: Lectur Recommended cour Per week: 2 Per stu Course method: pre	re rse-load (hours): idy period: 28 esent					
Number of ECTS cr						
Recommended seme	ster/trimester of the cours	e: 3., 5.				
Course level: I., II., 1	V					
Prerequisities:						
Conditions for cours	se completion:					
Learning outcomes:						
Brief outline of the c	course:					
Recommended litera	nture:					
Course language:						
Notes:						
Course assessment Total number of asse	ssed students: 103					
	abs	n				
94.17 5.83						
Provides: doc. JUDr. Renáta Bačárová, PhD., LL.M., prof. JUDr. Peter Vojčík, CSc.						
Date of last modifica	Date of last modification: 16.12.2020					
Approved:	Approved:					

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: 260

A	В	С	D	Е	FX
40.38	22.31	18.85	8.85	6.54	3.08

Provides: Mgr. Barbara Mitríková, Mgr. Zuzana Naďová

Date of last modification: 11.02.2021

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: CJP/ Course nam

PFAJGA/07

Course name: Communicative Grammar in English

Course type, scope and the method:

Course type: Practice

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

Number of 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

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: KGER/ Course name: Communicative Grammar in German Language NJKG/07 Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: present **Number of 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 C Α В 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:

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚGE/ | Course name: Complex geographic characteristics of selected world

KRS/08 regions

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: 6.

Course level: I.

Prerequisities:

Conditions for course completion:

At the beginning of the semester, students choose a region from provided list. During the semester, they elaborate presentation reflecting formal and content requirements explained by teacher at the beginning of the semester. This part constitute 50% of total total evaluation. Another 10% represents the activity at the seminars. Remaining 40 % of evaluation is represented by written verification of acquired knowledge. Evaluation of all - the presentation, activity and written verification must reach at least 50% to complete the course. To get an A grade, it is necessary to obtain at least 90% of weighted average. 80% to grade B, 70% to C, 60% to D, and at least 50% to grade E.

Learning outcomes:

Understanding of causal relations between individual geographic phenomena in spatial and temporal context of individual regions; extended knowledge about selected regions.

Brief outline of the course:

Geographic location, geologic history and structure, orography and shapes of coast, climate, hydrology, soils and biogeography, protection of nature, current landscape and its transformation, historical and political development, population and sites, economy and integration groupings in selected regions of the world.

Recommended literature:

DE BLIJ, H. J. et al: 2013: The World Today - Concepts and Regions in Geography, 6th edition. New York (Wiley), 528 p.

HOBBS, J. J. 2010: Fundaments of World Regional Geography, 2nd edition. Belmont (Brooks/Cole), 438 p.

WEIGHTMAN, B. 2010: Dragons and Tigers – A Geography of South, East and Southeast Asia, 3rd edition. Hoboken (Wiley), 523 p.

BAAR, V. 2002: Národy na prahu 21. století. Emancipace nebo nacionalismus? Ostrava (Ostravská univerzita), 416 s.

BRADSHAW, W. et al. 2012: Contemporary World Regional Geography, 4th edition. New York (McGrawHill), 620 p.

Course language:

Slovak and English

Notes:							
Course assessment Total number of assessed students: 502							
A	В	С	D	Е	FX		
27.29	35.86	22.71	8.37	5.18	0.6		
Provides: doc.	Provides: doc. Mgr. Ladislav Novotný, PhD.						
Date of last modification: 01.04.2020							
Approved:							

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚCHV/ Cou

Course name: Coordination Chemistry

KCHU/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: 5.

Course level: I.

Prerequisities: ÚCHV/ACHU/03

Conditions for course completion:

Final written exam

Learning outcomes:

The student acquires basic knowledge on the coordination compounds, preparation, isomerism and properties of coordination compounds as well as about the chemical bonding in coordination compounds.

Brief outline of the course:

Definition and nomenclature of coordination compounds. Central atom and ligands, coordination numbers. Isomerism, preparation and stability of coordination compounds, chemical bonding in coordination compounds.

Recommended literature:

- J. Ribas: Coordination Chemistry, Wiley-VCH, Weinheim, 2008.
- J. C. Huheey, E. A. Keiter, R. L. Keiter: Inorganic Chemistry, Haper Collins, New York, 1993.
- G. A. Lawrance: Introduction to Coordination Chemistry, Wiley, 2010.

Course language:

Notes:

Course assessment

Total number of assessed students: 63

A	В	С	D	Е	FX
55.56	22.22	15.87	3.17	3.17	0.0

Provides: prof. RNDr. Juraj Černák, DrSc., doc. RNDr. Juraj Kuchár, PhD.

Date of last modification: 03.05.2015

COURSE IN ORMATION LETTER							
University: P. J. Šafá	rik University in Košice						
Faculty: Faculty of Science							
Course ID: ÚGE/ KUL/12	Course name: Cultural geography						
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: 4						
Recommended seme	ster/trimester of the course: 3.						
Course level: I., II.							
Prerequisities:							
Conditions for cours	e completion:						
Learning outcomes:							
Brief outline of the c	ourse:						
ANDERSON, K. et a BARŠA, P. 1999: Pol BERGMAN, E. F. 19 Hall, Engewood Clift BONNEMAISON, J. DIAMOND, J. 1997: York. DIAMOND, J. 2019: DOSTÁL, P. 1999: EUC, Geographica, X. HEŘMANOVÁ, E., Praha: ASPI, a. s., 29 KRUPA, V., GENZO MACDONALD, F., I nakladatelství, s. r. o. MURRAY, W, E. 200 Geography. Routledge	ltúrní geografie. UJEP Ústí nad Labem, 146 s. dl. 2003: Handbook of cultural geography. 601 p. litická teorie multikulturalismu, CDK. 195: Human Geography. Cultures, Connections and Landscapes. Prentice fs. 2005: Culture and Space. I. B. Tauris. Guns, germs and steel: the fates of human societies. Norton & co., New Otrasy – Ako národy riešia svoje krízy. Premedia, 408 s. thnicity, mobilization and territory: an overview of recent experien-ces. Acta XXIV, 1, s. 45-58. CHROMÝ, P. a kol. 2009: Kulturní regiony a geografie kultury. 1. vyd. 2-301. R, J. 1996: Jazyky sveta v priestore a čase. Veda, SAV Bratislava, 356 s. MASON, A. 2009: Kultúra ľudstva. Ottova encyklopédia. Ottovo						
Slovak							

Notes:

Course assessment								
Total number of assessed students: 548								
Α	В	С	D	Е	FX			
54.2	32.3	10.04	3.1	0.36	0.0			

Provides: Mgr. Marián Kulla, PhD., Mgr. Štefan Kolečanský, prof. Mgr. Jaroslav Hofierka, PhD.

 $\textbf{Date of last modification:}\ 09.10.2020$

Page: 37

slovak

Notes:

Course assessment							
Total number of assessed students: 407							
A	В	С	D	Е	FX		
69.29	22.6	5.65	2.21	0.25	0.0		

Provides: prof. PhDr. Oľga Orosová, CSc., Mgr. Marta Dobrowolska Kulanová, PhD., Mgr. Lucia Barbierik, PhD., Mgr. Lenka Abrinková, Mgr. Frederika Lučanská, Mgr. Viera Čurová, Mgr. Marcela Štefaňáková, PhD.

Date of last modification: 25.06.2021

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚINF/ | **Course name:** Educational software

EDS/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: 5.

Course level: I.

Prerequisities:

Conditions for course completion:

Conditions for ongoing evaluation:

- 1. Creation of a worksheet for student (with custom graphics).
- 2. Creation of a multimedia educational presentation (with pictures, animations and sounds).
- 3. Creation of an interactive educational guiz (with various types of guiz items).
- 4. Creation of an instructional educational video.

Conditions for the final evaluation:

1. Creation and presentation of final project on the use of educational software in education.

Conditions for successful completion of the course:

Obtaining at least 50% of points for ongoing and final assignments.

Learning outcomes:

Students will receive, resp. deepen their basic skills in working with:

- a) presentation software, programs for creating and editing images, animations, diagrams, sounds, conceptual maps,
- b) programs for the creation of didactic tests, questionnaires, surveys,
- c) simulation and modeling software,
- d) selected subject-oriented educational programs,

Students present and discuss their idea of the use of educational software and educational Internet resources and tools in the selected school subject.

Brief outline of the course:

- 1. Overview of educational software and educational web resources and tools.
- 2. Creating and processing images into teaching aids (word clouds, QR codes, diagrams, concept maps).
- 3. Creating raster animations. Creating and processing sounds.
- 4. Creation of instructional educational video.
- 5. Electronic voting (Polleverywhere, Plickers, Kahoot!) and questionnaire creation (Google Forms).
- 6. Creation of didactic tests (Google Forms, HotPotatoes).
- 7. Collaborative web applications (mind42, miro, whiteboard, padlet).
- 8. Online communication tools (BBB).

- 9. Complex online learning environments (Moodle).
- 10. Online educational projects and competitions (eTweening, WebQuest, PALMA junior).
- 11. Simulations and modelling (WolframAlpha, PhET, Geogebra). Subject-focused educational programmes.
- 12. Creation of educational software in Scratch environment.

Recommended literature:

SOLOMON, Gwen and Lynne SCHRUM, 2014. Web 2.0 How-to for Educators. Second. International Society for Technology in Education, 314 p. ISBN 978-1564843517.

STOBAUGH, Rebecca, 2019. Fifty Strategies to Boost Cognitive Engagement: Creating a Thinking Culture in the Classroom (50 Teaching Strategies to Support Cognitive Development). Solution Tree Press, 176 p. ISBN 978-1947604773.

LEMOV, Doug, 2015. Teach Like a Champion 2. 0: 62 Techniques That Put Students on the Path to College [online]. 2nd edition. John Wiley & Sons, Incorporated, 509 p. [cited 2021-7-10]. ISBN 9781118898628. Available from: https://ebookcentral.proquest.com/lib/upjs-ebooks/detail.action?docID=1895720

European Schoolnet: Transforming education in Europe [online]. [cited 2021-7-10]. Available from: http://www.eun.org/home

Science On Stage Europe [online]. Science on Stage Europe e.V. [cited 2021-7-10]. Available from: https://www.science-on-stage.eu/

Course language:

Slovak and partly English due to selected programs and information sources

Notes:

By default, teaching is carried out face to face. If this is not possible (eg due to a pandemic), teaching is provided at a distance through video conferencing programs and LMS.

Course assessment

Total number of assessed students: 52

A	В	С	D	Е	FX
61.54	19.23	13.46	0.0	5.77	0.0

Provides: doc. RNDr. L'ubomír Šnajder, PhD.

Date of last modification: 01.08.2021

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: CJP/ C

Course name: English Language of Natural Science

PFAJ4/07

Course type, scope and the method:

Course type: Practice

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

Course method: present

Number of ECTS credits: 2

Recommended semester/trimester of the course: 4.

Course level: I.

Prerequisities:

Conditions for course completion:

Distant form of study (Online through MS teams) - based on the sylabus

Active participation in class and completed homework assignments. Students are allowed to miss 2 classes at the most (in case of online form - not attending online class/ assignments not handed in) Continuous assessment: 2 credit tests taken thorugh MS Teams online(presumably in weeks 6 and 13) and academic presentation in English given through MS Teams online.

In order to be admitted to the final exam, a student has to score at least 65 % as a sum of both credit tests.

The exam test results represent 50% of the final grade for the course, continuous assessment results represent the other 50% of the final grade.

The final grade for the course 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:

Enhancement of students' language skills (speaking, writing, reading and listening comprehension) in English for specific purposes and development of students' language competence (familiarization with selected phonological, lexical and syntactic phenomena), improvement of students' pragmatic competence (familiarization with selected language functions) and improvement of presentation skills at B2 level (CEFR) with focus on terminology of English for natural science.

Brief outline of the course:

- 1. Introduction to studying language
- 2. Selected aspects of scientific language
- 3. Talking about academic study
- 4. Discussing science
- 5. Defining scientific terminology and concepts
- 6. Expressing cause and effect
- 7. Describing structures
- 8. Explaining processes
- 9. Comparing objects, structures and concepts
- 10. Talking about problem and solution
- 11. Referencing authors

- 12. Giving examples
- 13. Visual aids and numbers
- 14. Referencing time and place

Presentation topics related to students' study fields.

Recommended literature:

study materials provided by the course instructor

Redman, S.: English Vocabulary in Use, Pre-intermetdiate, Intermediate. Cambridge University Press, 2003.

Armer, T.: Cambridge English for Scientists. CUP, 2011.

Wharton J.: Academic Encounters. The Natural World. CUP, 2009.

Murphy, R.: English Grammar in Use. Cambridge University Press, 1994.

P. Fitzgerald: English for ICT studies. Garnet Publishing, 2011.

https://worldservice/learningenglish, https://spectator.sme.sk

www.isllibrary.com

Course language:

Notes:

Course assessment

Total number of assessed students: 2744

A	В	С	D	Е	FX
38.16	25.4	16.65	9.73	7.87	2.19

Provides: Mgr. Lenka Klimčáková, Mgr. Viktória Mária Slovenská, Mgr. Zuzana Naďová

Date of last modification: 14.02.2021

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: ÚGE/ Course name: Fieldwork in Human Geography MHG1/07 Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: Per study period: 4d Course method: present **Number of ECTS credits: 3** Recommended semester/trimester of the course: 6. Course level: I. **Prerequisities: Conditions for course completion: Learning outcomes: Brief outline of the course: Recommended literature:** Course language: **Notes:** Course assessment Total number of assessed students: 556 C Α В D Е FX 94.06 2.16 1 44 1 44 0.72 0.18 Provides: RNDr. Stela Csachová, PhD., Mgr. Marián Kulla, PhD., RNDr. Janetta Nestorová-Dická, PhD., Mgr. Loránt Pregi, PhD. Date of last modification: 31.03.2020 Approved:

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: ÚGE/ Course name: Fieldwork in Hydrology HYP/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: 4. Course level: I. **Prerequisities: Conditions for course completion: Learning outcomes: Brief outline of the course: Recommended literature:** Course language: **Notes:** Course assessment Total number of assessed students: 78 В \mathbf{C} A D Е FX 93.59 5.13 0.0 1.28 0.0 0.0 Provides: RNDr. Dušan Barabas, CSc. Date of last modification: 09.11.2020 Approved:

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚCHV/

Course name: Food chemistry

PCH1/00

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: 5.

Course level: I., II.

Prerequisities:

Conditions for course completion:

Learning outcomes:

Students will recieve informations and knowledges about chemical substances in food, their importance and chemical changes in food during processing and storage.

Brief outline of the course:

The main categories of substances in the most important group of food. Aminoacids, proteins, lipids, carbohydrates. Water, minerals, low concentration anorganic compounds, vitamins. Hydrocarbons, colorants, toxic compounds, aditives. Chemical reactions in dairy products.

Recommended literature:

Course language:

Notes:

Course assessment

Total number of assessed students: 256

A	В	С	D	Е	FX
60.55	33.98	5.08	0.0	0.0	0.39

Provides: RNDr. Ján Elečko, PhD.

Date of last modification: 11.09.2017

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚCHV/

Course name: Fundamentals of Bioanalytical Chemistry

BACHZ/06

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: I.

Prerequisities:

Conditions for course completion:

Elaboration and presentation of a semester project with an assigned topic.

Learning outcomes:

Principles and theoretical foundations the application of analytical methods in bioanalysis.

Brief outline of the course:

Introduction to Bioanalytical Chemistry. Biological samples classification. Factors that affect analytes in biological samples. Collection, transport and storage of samples, the main principles of sampling, the suppressing of undesirable phenomena. Selected methods of pretreatment of biological samples. Analyzers, equipment and organization of work in a clinical laboratory. Control and management of quality in clinical laboratory. Quality manual, calibration, control, and reference materials. Validation and Good Laboratory Practice. Buffers in bioanalysis. Enzymes in bioanalysis, introduction, distribution, Mechanism of enzyme catalysis. The kinetics of enzymatic reactions with one substrate, the Michaelis constant, constant specificity, lag phase, kinetics of reactions with two substrates. Moderators of enzyme activity. Selected methods for analysis of biomolecules.

Recommended literature:

1. Mikkelsen S.R, Cortón E.: Bioanalytical Chemistry, Wiley, 2004

2. Wilson I., Bioanalytical Separations 4, (Handbook of Analytical

Separations), Elsevier, 2003

3.Lee, D.C., Webb, M. Pharmaceutical Analysis, Blackwell, 2003

Course language:

Notes:

Course assessment

Total number of assessed students: 86

A	В	С	D	Е	FX
33.72	31.4	30.23	3.49	0.0	1.16

Provides: doc. RNDr. Katarína Reiffová, PhD.

Date of last modification: 22.04.2021

Approved:	
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University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚGE/ | Course name: Fundamentals of Geology for Geographers

GEP2/18

Course type, scope and the method:

Course type: Lecture / Practice

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

Course method: present

Number of ECTS credits: 6

Recommended semester/trimester of the course: 1.

Course level: I.

Prerequisities:

Conditions for course completion:

Learning outcomes:

Brief outline of the course:

Courses have following objectives: firstly, to introduce the current theories of processes which occur in the Earth (global tectonics, species of magmatism), secondly, to describe the rock-forming minerals, taxology of intrusive rocks, taxology of sedimentary rocks and rocks which had overcame metamorphosis, basics of the regional geology of Slovakia, basics of the historical geology and paleontology.

Recommended literature:

Course language:

Notes:

Course assessment

Total number of assessed students: 1075

A	В	С	D	Е	FX
7.07	16.0	32.0	27.81	11.26	5.86

Provides: doc. Ing. Katarína Bónová, PhD., Ing. Ján Bóna

Date of last modification: 28.08.2020

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚCHV/ Cou

Course name: General Chemistry

VCHU/15

Course type, scope and the method:

Course type: Lecture / Practice

Recommended course-load (hours): Per week: 4 / 2 Per study period: 56 / 28

Course method: present

Number of ECTS credits: 7

Recommended semester/trimester of the course: 1.

Course level: I.

Prerequisities: ÚCHV/CHV1/99

Conditions for course completion:

Written test in the middle and the end of the semester.

Oral examination.

Learning outcomes:

To provide students with knowledge of atoms and molecules their electronic structure, theories of chemical bonds, physical properties of elements and compounds.

Brief outline of the course:

Main terms used in chemistry. Atoms – models of atoms, electron configuration, chemical periodicity and its effect on the properties of elements, radioactivity. Chemical bonds and intermolecular interactions. Chemical structure and physical properties of matter. State of matter. Solutions. Chemical equilibrium. Basis of chemical thermodynamics and chemical kinetics. Classification of chemical reactions. Electrochemistry.

Recommended literature:

- 1. Atkins P., Jones L.: Chemical Principles, 2nd ed., Freeman, New York 2002.
- 2. Russel J.B.: General Chemistry, 2nd ed., McGraw Hill, London 1992.

Course language:

Notes:

Course assessment

Total number of assessed students: 245

A	В	С	D	Е	FX
20.41	28.57	31.43	12.24	7.35	0.0

Provides: prof. RNDr. Vladimír Zeleňák, DrSc.

Date of last modification: 03.05.2015

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚCHV/ | Course name: General Course of Analytical Chemistry - Laboratory

PACU/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: 4

Recommended semester/trimester of the course: 4.

Course level: I.

Prerequisities: ÚCHV/ANCHU/03

Conditions for course completion:

Assessment

Learning outcomes:

Application of theoretical knowledge to analytical laboratory practise

Brief outline of the course:

Practical in qualitative and quantitative analysis. Qualitative analysis, separation by selective precipitation. Quantitative methods. Gravimetry, general principles of method. Volumetric methods. Preparation of accurate solutions. Indication of equvivalency point. Titration curves, calculations in volumetric analysis. Acidimetry, alkalimetry. Manganometry. Iodometry. Complexometry. Selected Instrumental analytical methods.

Recommended literature:

D.Harvey: Modern Analytical Chemistry. McGraw Hill, Boston, 2000.

D.A.Skoog: Principles of Instrumental Analysis. Saunders Col. Publishing, New York 1985.

E.Prichard: Quality in the Analytical Chemistry Laboratory, Wiley, 1995

Course language:

Notes:

Course assessment

Total number of assessed students: 356

A	В	С	D	Е	FX
56.74	29.78	10.96	1.12	1.4	0.0

Provides: doc. Ing. Viera Vojteková, PhD., RNDr. Rastislav Serbin, PhD., RNDr. Lívia Kocúrová, PhD., RNDr. Jana Šandrejová, PhD.

Date of last modification: 03.05.2015

Approved:

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University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚGE/

Course name: Geoecology

GEE2/07

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:

Course level: I.

Prerequisities:

Conditions for course completion:

Learning outcomes:

Brief outline of the course:

Focus will be put on the development of this discipline, different dimensions of the physical – geographic complexes, regularities of the space differentiation of the physical – geographic sphere, evolution, and dynamics of the physical – geographic complexes. Synthesis of the principles of landscape and landscape-ecological planning.

Recommended literature:

BEDRNA, Z., a kol. 1992: Analýza a čiastkové syntézy zložiek krajinnej štruktúry. Bratislava. Učebné texty, 95 s..

MIČIAN, Ľ., ZATKALÍK, F. 1984: Náuka o krajine a starostlivosť o životné prostredie. UK Bratislava skriptá, 137s.

MIČIAN, Ľ. 1989: Pokus o novú definíciu krajinnej ekológie. Ekológia (ČSFR), 3,1,Veda, Bratislava, s. 7-12.

MIČIAN, Ľ. 2008: Všeobecná geoekológia. Bratislava: Geo-grafíka, 88 s. – Skriptá.

Course language:

Notes:

Course assessment

Total number of assessed students: 668

A	В	С	D	Е	FX
5.24	12.72	20.66	23.95	35.18	2.25

Provides: RNDr. Dušan Barabas, CSc., Mgr. Imrich Sládek, PhD., Mgr. Ján Šašak, PhD.

Date of last modification: 19.08.2020

Approved:

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University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚGE/ **Course name:** Geographic Information Systems

GIS/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: 6

Recommended semester/trimester of the course: 5.

Course level: I., II.

Prerequisities:

Conditions for course completion:

The assessment is a combination of continual control during the practicals and the final exam in the examination period. The continual assessment is performed during the semester and it involves 1 written test in the mid-term of the semester and a project report generated according to the assignment and practical skills acquired during the practicals. The student can go for the final exam in case he or she acquired at least the E mark in the continual assessment. The final assessment mark is the result of the average of the marks received in the mid-term test, project report and final exam. The final exam is a written test. The credits are given in case the student had reached at least the E mark in continual assessment and final exam. The following marking scheme is applied in the assessment: A (100-90 points), B (80-89 points), C (70-79 points), D (60-69 points), E (50-59 points), FX (0-49 points).

Learning outcomes:

The student will understand the basics of the theory of geoinformation science, GIS, and Remote Sensing. The student will be able perform tasks in a GIS software, generate thematic amps and conduct basic spatial analyses such as spatial querries, atribute querries, terrain modelling, editing custom geodata, importing geodata.

Brief outline of the course:

Recommended literature:

Course language:

Slovak or Czech or English

Notes:

Course assessment

Total number of assessed students: 344

A	В	С	D	Е	FX
29.65	25.0	25.58	13.37	6.4	0.0

Provides: doc. Mgr. Michal Gallay, PhD., Mgr. Michaela Nováková

Date of last modification: 16.09.2017

Approved:

University: P. J. Šafárik University in Košice							
Faculty: Faculty	y of Science						
Course ID: ÚG GEOM/15	E/ Course na	me: Geography					
Course type:	ope and the med						
Per week: Per Course metho	* -						
Number of ECT	ΓS credits: 1						
Recommended	semester/trimes	ster of the cours	e :				
Course level: I.							
Prerequisities:							
Conditions for course completion:							
Learning outcomes:							
Brief outline of the course:							
Recommended	literature:						
Course languag	ge:						
Notes:							
Course assessm Total number of	ent f assessed studen	ts: 157					
A B C D E FX							
14.01 22.93 24.84 17.2 19.75 1.27							
Provides:							
Date of last mo	dification: 02.06	5.2021					
Approved:							

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚGE/ **Course name:** Geography of mining

MG/18

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: I.

Prerequisities:

Conditions for course completion:

The evaluation is based on a combination of continuous and final control. The continuous control is carried out during the teaching part by written test with a share of 30 % of the final evaluation. The final control is written and constitutes 70 % of the final evaluation. The resulting evaluation is a weighted average of the continuous (30 %) and final (70 %) controls. Credits will be awarded only to student who achieves the evaluation at the minimum level of the mark E in every part of the evaluation.

Learning outcomes:

To acquaint students with basic facts and knowledge of the history of mining science from the view of geographic aspect to obtain information overview of the history of the Slovak and world mning from a geographical point of view.

Brief outline of the course:

Historical foundations of the global mining industry, mining oldest written records of mining heyday in the Middle Ages, the first mining maps, Slovak ore mining in the Austro-Hungarian Empire, First World Mining Academy in Banská Štiavnica mining and migration of the population, the world "gold rush", salt roads Europe, coal mining and electrification of industry, environmental consequences of mining devastation, mining open-air museums in Slovakia and Europe and their importance for the promotion of tourism.

Recommended literature:

Ježek, B. a Hummel, J., 2006: Georgius Agricola, Dvanásť kníh o baníctve a hutníctve.

Preklad z českého originálu: Petr, K. a Petrová, M., Ostrava: Montanex a.s., 2006, 546s., ISBN 80-7225-218-6.

Puzder, J., 2000: Samuel Mikovíni, život a dielo. Košice: FBERG TU Košice, 115s.

Vozár, J., 2000: Zlatá kniha baníctva. Košice: Tibor Turčan/Banská agentúra, 2000, 263s., ISBN 80-968421-4-5.

Vozár, J., 2002: Kódex mestského a banského práva Banskej Štiavnice. Košice: Tibor Turčan/Banská agentúra, 2002, 71s., ISBN 80-968621-2-X.

Zícha, Z., 2005: Back to the past. The history of technology and manpower in the mining is a legacy which cannot be forgotten. Ústí nad Labem: CDL Design s.r.o., 2005, 98p., ISBN 80-902278-9-9.

Course languag Slovak	ge:				
Notes: without notes					
Course assessm Total number of	nent f assessed studer	nts: 9			
A	В	С	D	Е	FX
77.78	11.11	11.11	0.0	0.0	0.0
Provides: prof.	Ing. Vladimír Se	edlák, PhD.			
Date of last mo	dification: 19.08	8.2020			
Approved:					

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚGE/ | Course name: Geography of population and settlements

OBY2/18

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

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

Course method: present

Number of ECTS credits: 6

Recommended semester/trimester of the course: 3.

Course level: I.

Prerequisities:

Conditions for course completion:

Evaluation of student performance is carried out by combining ongoing review during the term of examination for the period of the semester. Continuous control consists of min. 80 % of the active participation of students in teaching and successfully solving assignments. If a student does not reach required active participation of teaching and successfully does not solve the given problem can not log on to the test.

Learning outcomes:

The student will acquire theoretical and methodological basis of Geography of Population and Settlements. Students will acquire a basic spatial differentiation of population and settlements in the world according to basic characteristics.

Brief outline of the course:

Population geography as a science discipline; Trends and forecasts of the world population; Distribution of population; Natural and mechanical movement of population (natality, mortality, balance natural movement of the population, model of demographic cycle, population migration); Population structure on the basis of biological, cultural and economic characteristics;

Geography settlements as a scientific discipline; Settlement development and settlement systems; Geographical location of settlements; The structure of settlements by size, dynamics and morphology; Urban geography (definition of city, creation of city and functions cities); The hierarchy of settlements and Gravity; Urbanization (basic concepts, indicators, aspects and methods of research); Rural settlement systems (compact and scattered rural settlements and their geographical interpretation).

Seminars

Seminars during the semester are oriented to problem solving in order to practice, resp. demonstrate phenomena studied in different regional units of Slovakia, Europe or Worldwide.

Recommended literature:

BAŠOVSKÝ, O., MLÁDEK, J. 1989: Geografia obyvateľstva a sídel. Prírodovedecká fakulta UK, Bratislava, 221.

CHALUPA, P., TARABOVÁ, Z. 1990: Geografie obyvatelstva, demografie, geografie sídel. MU, Brno.

MATLOVIČ, R. 2001: Geografia relígií. Fakulta humanitných a prírodných vied Prešovskej univerzity v Prešove. Prešov, 375.

MLÁDEK, J. 1992: Základy geografie obyvateľstva. SPN Bratislava, 230.

MLÁDEK, J. a kol. 2006: Atlas obyvateľstva Slovenska. UK Bratislava, 168.

MLÁDEK, J., KUSENDOVÁ, D., MARENČÁKOVÁ, J., PODOLÁK, P., VAŇO, B. 2006: Demogeografická analýza Slovenska. UK Bratislava, 222.

PAVLÍK, Z., RYCHTAŘÍKOVÁ, J., ŠUBRTOVÁ, A. 1986: Základy demografie. Academia Praha.

VOTRUBEC, C. 1980: Lidská sídla, jejich typy a rozmístnění ve světe. Academia Praha.

SHORT, J. R. 1994: Lidská sídla. Velká geografická encyklopedie světa. Nakladatelský dům OP Praha

Course language:

Slovak

Notes:

Course assessment

Total number of assessed students: 838

A	В	С	D	Е	FX
8.71	14.2	21.84	22.91	28.76	3.58

Provides: RNDr. Janetta Nestorová-Dická, PhD., doc. Mgr. Michal Gallay, PhD.

Date of last modification: 21.02.2018

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚGE/ Course name: Geography of the Czech Republic

GCR/12

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: 5.

Course level: I., II.

Prerequisities:

Conditions for course completion:

Learning outcomes:

Brief outline of the course:

Introduction, location, basic FG features of the Czech Republic. Geological structure of the Czech Republic, main geological entities according to the newest classification. Geomorphological structure and the relief evolution, geomorphological entities and units. Climate, hydrography of the Czech Republic, underground waters and mineral waters. Soils, phytogeography and zoogeography, present landscape types.

History of settlements in the Czech Republic from the historical perspective. National, linguistic and religious structure. Urban and rural settlements. Administrative division and its historical development. Economiy of the country - natural resouces, agriculture, industry, transport, education and tourism.

Recommended literature:

Course language:

Notes:

Course assessment

Total number of assessed students: 284

A	В	С	D	Е	FX
52.46	31.34	13.73	2.46	0.0	0.0

Provides: Mgr. Marián Kulla, PhD., Mgr. Imrich Sládek, PhD.

Date of last modification: 28.08.2020

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚGE/ Course name: Geological excursion

GEX1/07

Course type, scope and the method:

Course type: Practice

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

Course method: present

Number of ECTS credits: 2

Recommended semester/trimester of the course: 2.

Course level: I.

Prerequisities:

Conditions for course completion:

Learning outcomes:

Brief outline of the course:

Visiting of different localities in the Western Carpathian tectonic units - Flysh belt, Klippen belt, Central Western Carpathians. Visiting of several localities of mining in Slovakia and getting to know the process of manufacturing of the rocks.

Recommended literature:

Regionálne geologické mapy Slovenska (1:50 000) + Vysvetlivky.

ŽEC, B. et al., 2005: Exkurzný sprievodca ku kongresu Slovenskej geologickej spoločnosti Zemplínska šírava - Medvedia hora. CompuGraph, Košice, 138s.

BIELY, A. et al., 1996: Geologická mapa Slovenska, 1 : 500 000. MŽP SR, ŠGÚDŠ, Bratislava. COE, A. L. (ed.) et al., 2010: Geological Field techniques. Wiley-Blackwell, UK, 323 pp.

Course language:

Notes:

Course assessment

Total number of assessed students: 469

A	В	С	D	Е	FX
81.88	13.65	2.77	0.0	0.0	1.71

Provides: doc. Ing. Katarína Bónová, PhD.

Date of last modification: 26.08.2020

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚGE/ | **Course name:** Geomorphological mapping

GMAP/13

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: 4.

Course level: I., II.

Prerequisities:

Conditions for course completion:

The evaluation of the subject consists of assessment of one main semestral work - geomorphological map of the area (50 points) and 2-3 partial works (50 points), the total amount of points is 100. The student has to aquire minimum of half points from each work. For successful graduation of the subject the student has to aquire 51 points and more.

Learning outcomes:

after the graduation of the subject the student should information applied to the praxis and be able to map area with the main aim of high quality map and the legenda.

Brief outline of the course:

The main of the subject is to understand the topic of the geomorphological mapping, geomorphological map and its importance. It deals with the history of the geomorphological mapping, maps in slovak and foreign literature, about theory and praxis of field works and maps compilation, creating of the geomorphological map legenda for different relief types. With help of graphical softwers we are working with morphometric and morphographic relief characeter, the morphogenetical nad morphodynamical interpretation of the geomorphological map. After the theoretical part of seminars there is practical field mapping in the scale of 1: 10 000 at the and of the semester.

Recommended literature:

DEMEK, J. (edit.), 1972: Manual of detailed geomorphological mapping. Academia, Brno, 344 s. MINÁR, J., 1995: Niektoré teoreticko-metodologické problémy geomorfológie vo väzbe na tvorbu komplexných geomorfologických máp. Acta Facultatis Rerum Naturalium Universitatis Comenianae, Geographica Nr. 36, Bratislava, 7-125.

SMITH, M., PARON P., GRIFFITHS, J., 2011: Geomorphological mapping – methods and applications. School of Geography, Geology and the Environment, Kingston University, UK. 610 s.

URBÁNEK, J., 1997: Geomorfologická mapa: niektoré problémy geomorfologického mapovania na Slovensku. Geografický časopis, 49, 3-4, 175-186.

ZAŤKO, M. et al. 1986: Obecná geomorfologická mapa a jej legenda. In: Cvičenia z fyzickej geografie. Prírodovedecká fakulta Univerzity Komenského, Bratislava. 43-53.

Course languag	ge:	,					
Notes:							
Course assessm Total number of	ent assessed student	ts: 13					
A	В	С	D	Е	FX		
84.62	0.0	15.38	0.0	0.0	0.0		
Provides: RND	: Alena Gessert,	PhD.			•		
Date of last mod	dification: 27.08	.2020					
Approved:							

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: ÚGE/ Course name: Geomorphology GEM2/18 Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per week: 2 / 2 Per study period: 28 / 28 Course method: present **Number of ECTS credits: 6 Recommended semester/trimester of the course:** 2. Course level: I. **Prerequisities: Conditions for course completion: Learning outcomes: Brief outline of the course: Recommended literature:** Course language: **Notes:** Course assessment Total number of assessed students: 1241 C D Α В Е FX 10.23 21.84 21.35 16.36 20.15 10.07 Provides: RNDr. Alena Gessert, PhD., Mgr. Imrich Sládek, PhD. Date of last modification: 27.08.2020 Approved:

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: KF/ **Course name:** History of Philosophy 2 (General Introduction) DF2p/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: 6. 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: 742 C Α В D Е FX 60.78 13.88 12.67 8.63 3.37 0.67 Provides: Doc. PhDr. Peter Nezník, CSc., PhDr. Katarína Mayerová, PhD., doc. Mgr. Róbert Stojka, PhD. Date of last modification: 25.03.2020

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: ÚGE/ Course name: Human Geography Excursion EXHG1/15 Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: Per study period: 6d Course method: present **Number of ECTS credits: 3 Recommended semester/trimester of the course:** 5. Course level: I. **Prerequisities: Conditions for course completion: Learning outcomes: Brief outline of the course: Recommended literature:** Course language: **Notes:** Course assessment Total number of assessed students: 733 C Α В D Е FX 80.63 10.23 6.68 0.95 0.82 0.68 Provides: RNDr. Stela Csachová, PhD., Mgr. Marián Kulla, PhD., doc. Mgr. Ladislav Novotný, PhD., RNDr. Janetta Nestorová-Dická, PhD. Date of last modification: 03.05.2015

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: ÚGE/ Course name: Human Geography of Slovakia HGS/15 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: 6. Course level: I. **Prerequisities: Conditions for course completion: Learning outcomes: Brief outline of the course: Recommended literature:** Course language: **Notes:** Course assessment Total number of assessed students: 490 C Α В D Е FX 25.92 3.88 10.82 18.37 36.53 4 49 Provides: Mgr. Marián Kulla, PhD., RNDr. Janetta Nestorová-Dická, PhD., Mgr. Loránt Pregi, PhD., prof. Mgr. Jaroslav Hofierka, PhD. Date of last modification: 31.03.2020

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚGE/ Course name: Human geography (Non-production Systems)

HUGN/15

Course type, scope and the method:

Course type: Lecture / Practice

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

Course method: present

Number of ECTS credits: 3

Recommended semester/trimester of the course: 5.

Course level: I.

Prerequisities:

Conditions for course completion:

Learning outcomes:

Brief outline of the course:

Recommended literature:

BOROVSKÝ, J. a kol., 2008: Cestovný ruch, trendy a perspektívy. Iura Edition, 280 s. GOELDNER, CH.R., BRENT RICHIE, J.R., 2014: Cestovní ruch - principy, příklady, trendy. Biz books, 545 s.

HALÁS, M., 2000: Zahraničný obchod SR s ČR. Geographical Studies 7, Constantine the Philosopher University Nitra, s. 98-107.

HALL, C.M. - PAGE, S.J. 2002: The geography of tourism and recreation, 2. edition, London and New York, 399 p.

HAVRLANT, J., 2007: Geografie cestovního ruchu I. Základy geografie cestovního ruchu, Ostravská univerzita, 41 s.

MARIOT, P., 1983: Geografia cestovného ruchu. Veda, Bratislava, 224 s.

OTRUBOVÁ, E., 2003: Humánna geografía II (Geografía zahraničného obchodu, Geografía cestovného ruchu). Prírodovedecká fakulta UPJŠ, Košice, 105 s.

ŠTEPÁNEK, KOPAČKA, ŠÍP, 2001: Geografie cestovního ruchu, Vydalo Karolinum Praha, 228s.

Course language:

Notes:

Course assessment

Total number of assessed students: 477

A	В	С	D	Е	FX
15.72	23.69	27.88	20.55	10.9	1.26

Provides: Mgr. Marián Kulla, PhD., prof. RNDr. Peter Spišiak, CSc., Mgr. Martina Gregáňová

Date of last modification: 20.09.2018

Approved:

Course language:

Notes:

Course assessm	ient				
Total number of	f assessed studen	ts: 662			
Α	В	С	D	Е	FX
7.7	21.15	29.61	27.64	11.78	2.11

Provides: Mgr. Marián Kulla, PhD., Mgr. Martina Gregáňová, prof. Ing. Vladimír Sedlák, PhD.

Date of last modification: 29.03.2020

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: KPE/ Course name: Inclusive Pedagogy **INP/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:** 5. Course level: I. **Prerequisities: Conditions for course completion: Learning outcomes: Brief outline of the course: Recommended literature:** Course language: **Notes:** Course assessment Total number of assessed students: 42 В C Α D Е FX 83.33 16.67 0.0 0.0 0.0 0.0 Provides: PaedDr. Janka Ferencová, PhD. Date of last modification: 08.06.2021 Approved:

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚCHV/ Course name: I

Course name: Inorganic Chemistry

ACHU/03

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: 6

Recommended semester/trimester of the course: 2.

Course level: I.

Prerequisities: ÚCHV/VCHU/10 and leboÚCHV/VCHU/14 and leboÚCHV/VCHU/15

Conditions for course completion:

Test in the middle and at the end of the semester.

Oral examination.

Learning outcomes:

Aim of the course is to provide the students with a knowledge of systematic chemistry of non-metallic elements

Brief outline of the course:

Electronic configuration, abundance, use, physical and chemical properties, preparation, reactivity of non-metallic elements hydrogen, halogens, oxygen, sulphur, nitrogen, phosphorus, carbon, silicon, boron and rare gases. Binary and other compounds formed by these elements, their properties and reactivity. Metals and transition elements. Abudance, properties, reactivity, important compounds.

Recommended literature:

http://kosice.upjs.sk/~vladimir.zelenak/ACHU.htm (ppt slides from the lectures as a support for self study)

Greenwood, N. N., Earnshaw, A: Chemistry of the Elements. Pergamon Press, Oxford, 1984 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: 742

A	В	С	D	Е	FX
10.51	21.29	31.81	24.26	9.16	2.96

Provides: prof. RNDr. Vladimír Zeleňák, DrSc.

Date of last modification: 03.05.2015

Approved:

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚCHV/ Cour

Course name: Inorganic Chemistry II

ACH2/03

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: 7

Recommended semester/trimester of the course:

Course level: I.

Prerequisities: ÚCHV/ACH1/10 and leboÚCHV/ACHU/03

Conditions for course completion:

Written examination at the end of the course. The final mark is given by the sum of points from seminars (max. 10 points) and 3x30 points from written test, totally 100 points. To pass it is required to obtain at least 51 points as well as 51 % of points from every partial examination.

Learning outcomes:

Goal of the course is to provide the students with a knowledge of systematic chemistry of metallic elements

Brief outline of the course:

Electronic configuration, abundance, use, physical and chemical properties and reactivity of the elements of the 1st, 2nd groups, transition metal elements, elements of the 12th group, Al, Ga, In, Tl, Ge, Sn, Pb, As, Sb, Bi, Se, Te, Po, lanthanides and actinides. Binary and other compounds formed by these elements, their properties and reactivity. General properties, structure and bonding in metals, co-ordination and organometallic compounds.

Recommended literature:

- 1. Greenwood, N. N., Earnshaw, A: Chemistry of the Elements. Pergamon Press, Oxford, 1984
- 2. Shriver, D.F., Atkins, P.W., Langford, C. H.: Inorganic Chemistry. 2ndEd., Oxford University Press, Oxford, 1995

Course language:

Notes:

Course assessment

Total number of assessed students: 645

A	В	С	D	Е	FX
12.56	20.62	30.08	24.96	7.29	4.5

Provides: prof. RNDr. Juraj Černák, DrSc., RNDr. Miroslava Matiková Maľarová, PhD.

Date of last modification: 03.05.2015

Approved:

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	COURSE INFORMATION LETTER
University: P. J. Šafár	rik University in Košice
Faculty: Faculty of S	cience
Course ID: ÚCHV/ ANCH1b/03	Course name: Instrumental Analytical 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 cro	edits: 5
Recommended seme	ster/trimester of the course:
Course level: I.	
Prerequisities:	
Conditions for cours Test / Exam	e completion:
Learning outcomes: Getting knowledge al	bout the theoretical principles and instrumentation in analytical chemistry.
instrumentation. Sour and absorbance. Be spectrophotometry. Molecular photolum based on scattering. methods of analysis of analysis. Voltame of column chromate	ds of analysis. Electromagnetic radiation. Basic components of spectroscopic rees of energy. Detectors. Spectroscopy based on absorption. Transmittance ere's Law. Limitations to Beer's Law. Ultraviolet-visible and infrared Atomic absorption spectroscopy. Spectroscopy based on emission. Aninescence spectroscopy. Atomic emission spectroscopy. Spectroscopy Mass spectrometry. Electrochemical methods of analysis. Potentiometric is. Reference electrodes. Membrane electrodes. Coulometric methods metric methods of analysis. Chromatographic methods. General theory ography. Optimizing chromatographic separations. Gas chromatography. quid chromatography. Ion-exchange chromatography. Supercritical fluid
Rok vydania: 2014, F 2. Christian G.D. And Brisbane – Toronto – 3. Holtzclaw H.F., Jr. and Company 1988.	lytická chémia. ISBN: 9788022742429, Vydavateľstvo: STU Bratislava, Počet strán: 671 alytical Chemistry. John Wiley & Sons, Inc. New York – Chichester –
Course language:	

Notes:

Course assessment							
Total number of assessed students: 569							
A	В	С	D	Е	FX		
20.39	12.65	22.32	18.8	25.48	0.35		
Provides: prof. Mgr. Vasil' Andruch, DSc.							
Date of last modification: 31.01.2020							
Approved:	Approved:						

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: ÚGE/ Course name: International Excursion 1 ZAE1/18 Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: Per study period: 10d Course method: present **Number of ECTS credits: 5** Recommended semester/trimester of the course: 4. Course level: I. **Prerequisities: Conditions for course completion: Learning outcomes: Brief outline of the course: Recommended literature:** Course language: **Notes: Course assessment** Total number of assessed students: 5 \mathbf{C} Ε FX Α В D 20.0 0.0 40.0 20.0 20.0 0.0 **Provides:** Date of last modification: 09.12.2019 Approved:

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

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Notes:

Course assessm	Course assessment								
Total number of assessed students: 216									
A	В	С	D	Е	FX				
49.54	20.83	15.28	8.33	6.02	0.0				
D 11									

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

 $\textbf{Date of last modification:}\ 20.09.2017$

University: P. J. Šaf	ärik University in Košice
Faculty: Faculty of	Science
Course ID: ÚGE/ UGIS/15	Course name: Introduction to Geographic Information Systems
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: 3
Recommended sem	ester/trimester of the course: 2.
Course level: I.	
Prerequisities:	
assessment is based From the practical s least 80 points to ge get E. The credits sh	r, students will need to hand in the outputs of the practicals. The resulting on the final practical skills verification and delivery of the outputs of practicals. skills verification, students must obtain at least 90 points to get the A mark, at the B, at least 70 points to get C, at least 60 points to get D, at least 50 points to get In not be granted to a student who does not hand in one or more outputs of the will get less than 50 points out of 100.
_	continuous include understanding of GIS terminology, practical skills in basic in GIS software. In particular, the skills involve data editing and creation of
elements, attribute toBasic control elemadjusting color dataPrepare and conneSet the legend (selemant)	course: cology (eg. geodata layer, geodata formats, structure of GIS, graphics map able, structure of relational databases) cents of GIS software (add and configure a data layer and properties, zooming, layer, display and basic work with attribute tables) ct an external database with the data layer ection of cartographic methods of spatial information) uts and advanced graphics tools for creating map layouts
Recommended liter	ofure.

BOLTIŽIAR M. 2008: Geografické informačné systémy pre geografov I. Univerzita Konštantína Filozofa v Nitre, Fakulta Prírodných vied. 120 s.

BOLTIŽIAR, M. VOJTEK M. 2009. Geografické informačné systémy pre geografov II.

Univerzita Konštantína Filozofa v Nitre, Fakulta Prírodných vied. 140 s.

MICHAEL D. KENNEDY. 2013:Introducing Geographic Information Systems with ArcGIS: A Workbook Approach to Learning GIS, 3rd Edition. Wiley. 672 p.

LAW M, COLLINS A. 2013: Getting to Know ArcGIS for Desktop. Edition 3. Esri Press. 768 p.

Course language:

Notes:

Course assessm	Course assessment							
Total number of assessed students: 882								
Α	В	С	D	Е	FX			
13.83	14.06	25.85	22.9	20.52	2.83			

Provides: doc. Mgr. Michal Gallay, PhD., doc. RNDr. Ján Kaňuk, PhD., Mgr. Michaela Nováková

Date of last modification: 28.03.2020

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: ÚGE/ Course name: Introduction to Geography and Planetary Geography UGP/18 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: I. **Prerequisities: Conditions for course completion: Learning outcomes: Brief outline of the course: Recommended literature:** Course language: **Notes:** Course assessment Total number of assessed students: 446 C Α В D Е FX 36.1 27.58 18.16 12.11 5.83 0 22 Provides: prof. Mgr. Jaroslav Hofierka, PhD., prof. Ing. Vladimír Sedlák, PhD., Mgr. Štefan Kolečanský Date of last modification: 17.09.2020 Approved:

University: P. J. Šafárik University in Košice						
Faculty: Faculty of Science						
Course ID: Dek. PF Course name: Introduction UPJŠ/USPV/13	to Study of Sciences					
Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per week: Per study period: 12s / 3d Course method: present						
Number of ECTS credits: 2						
Recommended semester/trimester of the course	e : 1.					
Course level: I.						
Prerequisities:						
Conditions for course completion:						
Learning outcomes:	Learning outcomes:					
Brief outline of the course:						
Recommended literature:						
Course language:						
Notes:						
Course assessment Total number of assessed students: 1734						
abs n						
86.51 13.49						
Provides: doc. RNDr. Marián Kireš, PhD.						
Date of last modification: 25.09.2019	Date of last modification: 25.09.2019					
Approved:						

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: ÚGE/ Course name: Linux and open source GIS LOS/18 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: 3. 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: 44 \mathbf{C} Α В D Е FX 70.45 29.55 0.0 0.0 0.0 0.0 Provides: doc. Mgr. Michal Gallay, PhD., prof. Mgr. Jaroslav Hofierka, PhD., Mgr. Michaela Nováková Date of last modification: 29.08.2018 Approved:

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚGE/ **Course name:** Microgeography

MIK/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: I.

Prerequisities:

Conditions for course completion:

Elaboration and presentation of a semester work with a weight of 70% of the total evaluation, passing a final test with a success rate of over 50% and a weight of 30% of the total evaluation. The course consists of theoretical and practical part. In the theoretical part, students are presented with the basic knowledge necessary to master the practical part - semester work, which the student demonstrates independent mastery of the issue.

Learning outcomes:

Ability to analyze and synthesize a selected micro-region (local country) for the needs of state administration, self-government and teaching practice.

Brief outline of the course:

- 1. Theory and methodology of the subject, object and subject of microgeography.
- 2. Historical development and present of microgeography; genius loci, identity with territory
- 3. 4. Differentiation of the landscape sphere on the example of a selected microregion I. physical geography (location and delimitation of the area geological conditions relief climate water soils flora fauna)
- 5. 6. Differentiation of the landscape sphere on the example of a selected microregion II. human geography (population settlement structure production sphere non-production sphere).
- 7. Presentation of the first part of the semester work physical geography
- 8. Regionalization; microregional associations of municipalities, local action groups, examples of microregions in the Košice region
- 9. 10. Application of knowledge of microgeography in practice (in state administration, self-government and teaching practice),
- 11. Presentation II. parts of semester work human geography
- 12. Final test
- 13. Final evaluation

Recommended literature:

DUBCOVÁ, A. 2012: Mikrogeografia – krajina okolo nás, UKF Nitra, 185 s.

HASPROVÁ, M. 2006: Geografia miestnej krajiny v edukačnom procese, UKF Nitra, 203 s.

KANDRÁČOVÁ, V., MICHAELI, E. 1996: Mikrogeografia v edukácii, výskume a pre prax.

In: Krajina východného Slovenska v odborných a vedeckých prácach. Prešov: KGG PdF UPJŠ, 1997, s. 265 – 285

KROPILÁK, M. (ed.) 1977: Vlastivedný slovník obcí na Slovensku I. 1. vyd. Bratislava : Veda, 526 s.

KROPILÁK, M. (ed.) 1977: Vlastivedný slovník obcí na Slovensku II. 1. vyd. Bratislava : Veda, 517 s

KROPILÁK, M. (ed.) 1978: Vlastivedný slovník obcí na Slovensku III. 1. vyd. Bratislava : Veda, 532 s.

LUKNIŠ, M., 1977: Geografia krajiny Jura pri Bratislave. UK, Bratislava. 211 s.

Ďalšia literatúra podľa zvoleného územia

Course language:

Slovak

Notes:

Course assessment

Total number of assessed students: 80

A	В	С	D	Е	FX
45.0	41.25	11.25	2.5	0.0	0.0

Provides: Mgr. Imrich Sládek, PhD.

Date of last modification: 28.08.2020

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: ÚGE/ Course name: Mineral Resources - geological and environmental relations NSGE/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: 6. Course level: I. **Prerequisities: Conditions for course completion: Learning outcomes: Brief outline of the course: Recommended literature:** Course language: **Notes:** Course assessment Total number of assessed students: 113 C Α В D Е FX 46.9 20.35 17.7 11.5 0.88 2.65 Provides: doc. Ing. Katarína Bónová, PhD. Date of last modification: 26.08.2020 Approved:

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: KPE/ **Course name:** Multiculturalism and Multicultural Education MMKV/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: 4. Course level: I. **Prerequisities: Conditions for course completion: Learning outcomes: Brief outline of the course: Recommended literature:** Course language: **Notes:** Course assessment Total number of assessed students: 119 C Α В D Е FX 43.7 37.82 16.81 0.84 0.84 0.0 Provides: PaedDr. Michal Novocký, PhD. Date of last modification: 08.06.2021 Approved:

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚCHV/ Co

Course name: Organic chemistry

OCHU/03

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: 6

Recommended semester/trimester of the course: 2.

Course level: I.

Prerequisities: ÚCHV/VCHU/15 and leboÚCHV/VCHU/14 and leboÚCHV/VCHU/10 and leboÚCHV/VACH/10

Conditions for course completion:

Two tests at lecture in 7 and 14th week. Test max 50 points. At least 25 points required. Written exam, 100 points. At least 51% of points required. Final evaluation: A 91-100 pts, B 81-90 pts, C 71-80 pts, D 61-70 pts, E 51-60 pts, FX 0-50 pts

Learning outcomes:

Basic organic chemistry course.

Brief outline of the course:

Chemical bonding Hybridization and Bonding Covalent bonds Double bonds and Triple Bonds Structural Formulas of Organic Molecules Polar Covalent Bonds and Electronegativity Constitutional Isomers Alkenes Electrophilic Additions Strong Brønsted Acids Lewis Acids (non-Proton Electrophiles) Electrophilic Halogen Reagents Other Electrophilic Reagents Reduction Oxidation Radical Additions Allylic Substitution Alkynes Addition Reactions Hydrogenation Electrophiles Hydration & Tautomerism Hydroboration Nucleophilile Addition & Reduction Acidity of Terminal Alkynes (Substitution of H) Alkyl Halides General Reactivity Substitution(of X) SN2 Mechanism SN1 Mechanism Elimination (of HX) Summary of Substitution vs. Elimination Substitution by Metals Elimination Reactions of Dihalides Alcohols Reactions of Alcohols Substitution of the Hydroxyl H Substitution of the Hydroxyl Group Elimination of Water Oxidation of Alcohols Reactions of Phenols Acidity of Phenols Ring Substitution of Phenols Oxidation to Quinones Aromatic compounds Electrophilic Substitution A Substitution Mechanism Reactions of Substituted Benzenes Reaction Characteristics Reactions of Disubstituted Rings Reactions of Substituent Groups Nucleophilic Substitution, Elimination & Addition Reactions Amines Basicity of Nitrogen Compounds Acidity of Nitrogen Compounds Important Reagent Bases Reactions of Amines Electrophilic Substitution at Nitrogen Preparation of 1°-Amines Preparation of 2° & 3°-Amines Reactions with Nitrous Acid Reactions of Aryl Diazonium Intermediates Elimination Reactions of Amines Oxidation States of Nitrogen Basic information: Aldehydes & Ketones Carboxylic Acids Carboxylic Derivatives Natural products

Recommended literature:

- 1. on-line ppt presentation in MOODLE, moodle science.upjs.sk
- 2. Organic chemistry, Clayden, Greeves Warren & Wothers, Oxford University Press, 2010.

- 3. Organic chemistry, John McMurry, Brooks/Cole, a Thomson Learning Company 2004, Sixth Eddition, ISBN 0534389996.
- 4. Organic chemistry, Pavol Zahradník, Mária Mečiarová, Peter Magdolen, Univerzita Komenského v Bratislave, 2019, ISBN: 978-80-223-4589-7.

Course language:

Notes:

Course assessment

Total number of assessed students: 785

A	В	С	D	Е	FX
3.18	7.01	13.25	23.44	47.52	5.61

Provides: RNDr. Slávka Hamul'aková, PhD., doc. RNDr. Miroslava Martinková, PhD., RNDr. Mária Vilková, PhD.

Date of last modification: 30.08.2021

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚCHV/ Course

Course name: Organic chemistry - Lab.

POCHU/15

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: 4

Recommended semester/trimester of the course: 3.

Course level: I.

Prerequisities: ÚCHV/OCHU/03

Conditions for course completion:

Two tests 2x25 p., twelve reports 12x2 p., laboratory skills 12 p., short quizzes and questions 14 p. A 100 p. in total.

Grades: A: 91-100b, B: 81-90b, C: 71-80b, D: 61-70b, E: 51-60b, Fx: 0-50b.

Based on continuous evaluation.

Learning outcomes:

Students will become familiar with the basic isolation and purification methods used in a synthetic laboratory. Students should master basic laboratory technique and be able to apply the theoretical knowledge from the basic course of organic chemistry in simple synthetic projects.

Brief outline of the course:

Preparation, isolation, purification and identification of organic compounds. The emphasis is on gaining the experimental skills in synthesis of organic compounds, distillation, extraction, crystallization, sublimation and thin-layer chromatography.

Recommended literature:

- 1. Handout with experimental procedures http://kekule.science.upjs.sk/pochu.
- 2. Organic chemistry lectures.

Course language:

Notes:

Course assessment

Total number of assessed students: 181

A	В	С	D	Е	FX
54.14	25.41	11.6	7.73	1.1	0.0

Provides: RNDr. Slávka Hamul'aková, PhD., RNDr. Ján Elečko, PhD., RNDr. Jana Špaková Raschmanová, PhD., RNDr. Mariana Budovská, PhD.

Date of last modification: 05.02.2020

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚCHV/ | Course

Course name: Organic chemistry II

OCH1b/03

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: 7

Recommended semester/trimester of the course:

Course level: I.

Prerequisities:

Conditions for course completion:

Two tests at lecture in 7 and 14th week. Test max 50 points. At least 25 points required.

Written exam, 100 points. At least 49% of points required.

Final evaluation: A 90-100 pts, B 80-89 pts, C 70-79 pts, D 60-69 pts, E 50-59 pts, FX 0-49 pts

Learning outcomes:

Second part of two-semester organic chemistry course.

Brief outline of the course:

Reaction Mechanisms, Mechanisms of Organic Reactions, Reactive Intermediates, Ionic Reactions Radical Reactions Bond Energy Reaction Energetics Activation Energy Reaction Rates and Kinetics Thermodynamic and Chemical Stability Aromaticity Benzene and Other Aromatic Compounds Fused Benzene Ring Compounds Other Aromatic Systems Factors Required for Aromaticity Stereoisomers Chirality and Symmetry Enantiomorphism Polarimetry Optical Activity Designating the Configuration of Stereogenic Centers The Sequence Rule for Assignment of Configurations to Stereogenic Carbons Compounds Having Two or More Stereogenic Centers Stereogenic Nitrogen Fischer Projection Formulas Aldehydes & Ketones Natural Products Synthetic Preparation Properties of Aldehydes & Ketones Reversible Addition Reactions Hydration & Hemiacetal Formation Acetal Formation Imine Formation Enamine Formation Cyanohydrin Formation Irreversible Addition Reactions Complex Metal Hydrides Organometallic Reagents Carbonyl Group Modification Wolff-Kishner Reduction Clemmensen Reduction Hydrogenolysis of Thioacetals Oxidations Reactions at the a-Carbon Mechanism of Electrophilic a-Substitution The Aldol Reaction Ambident Enolate Anions Alkylation of Enolate Anions Carboxylic Acids Natural Products Related Derivatives Preparation of Carboxylic Acids Reactions of Carboxylic Acids Salt Formation Substitution of Hydroxyl Hydrogen Substitution of the Hydroxyl Group Reduction & Oxidation Carboxylic Derivatives Reactions of Carboxylic Acid Derivatives Acyl Group Substitution Mechanism Reduction Catalytic Reduction Metal Hydride Reduction Diborane Reduction Reaction with Organometallic Reagents Reactions at the a Carbon Acidity of a C-H The Claisen Condensation Synthesis Applications Carbohydrates Glucose The Structure and Configuration of Glucose Anomeric Forms of Monosaccharides Glycosides Disaccharides Polysaccharides Lipids Fatty Acids Soaps & Detergents Fats & Oils Nucleic Acids Alkaloids **Terpenes**

Recommended literature:

- 1. on-line moodle.science.upjs.sk
- 2. Organic Chemistry, Clayden, Greeves Warren & Wothers, Oxford University Press, 2010
- 3. Organic Chemistry, Solomon, Willey, 2009
- 4. Organic chemistry, John McMurry, Sixth Edition, 2004, Brooks/Cole, a Thomson Learning Company, ISBN: 0534389996.

Course language:

Notes:

Course assessment

Total number of assessed students: 610

A	В	С	D	Е	FX
12.62	10.98	16.56	21.97	34.92	2.95

Provides: doc. RNDr. Miroslava Martinková, PhD.

Date of last modification: 05.02.2021

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: KPE/ Course name: Pedagogy Pg/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., 5. Course level: I. **Prerequisities: Conditions for course completion: Learning outcomes: Brief outline of the course: Recommended literature:** Course language: **Notes:** Course assessment Total number of assessed students: 639 C Ε A В D FX 20.03 27.07 25.98 15.65 10.49 0.78 Provides: PaedDr. Michal Novocký, PhD. Date of last modification: 08.06.2021 Approved:

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚCHV/ Course na

Course name: Physical Chemistry

FCHU/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: 4.

Course level: I.

Prerequisities: ÚCHV/VCHU/14 and leboÚCHV/VCHU/10 and leboÚCHV/VACH/10 and

leboÚCHV/VCHU/15

Conditions for course completion:

Two partial tests from computational seminars.

Examination.

Learning outcomes:

To provide the students with basic knowledge of physical chemistry.

Brief outline of the course:

Fundamental concepts of thermodynamics, thermochemistry, chemical equilibrium, phase equilibria and diagrams, laws for ideal gas and reals gases, liquids, solutions, solutions of electrolytes. Electrochemistry: ionics and electrodics. Electrodes and electrochemical cells, corrosion. Chemical kinetics, catalysis. Adsorption.

Recommended literature:

T. Engel, P. Reid: Physical Chemistry, Pearson Educat. Inc., San Francisco 2006

P.W. Atkins: Physical Chemistry, Oxford University Presss, Oxford 1986, 1990, 1996

W.J. Moore: Physical Chemistry, Longman, London 1972 and newer editions

Course language:

Notes:

Course assessment

Total number of assessed students: 324

A	В	С	D	Е	FX	
32.72	19.75	14.2	17.9	12.35	3.09	

Provides: prof. RNDr. Renáta Oriňaková, DrSc., RNDr. Andrea Morovská Turoňová, PhD., Mgr. Ján Macko, PhD., RNDr. Ivana Šišoláková, PhD.

Date of last modification: 12.05.2021

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚCHV/ Course name: Physical Chemistry II

FCH1b/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:

Course level: I.

Prerequisities: ÚCHV/FCH1a/03 and leboÚCHV/FCHU/10

Conditions for course completion:

Two partial tests from computational seminars in 6th and 12th week of semester.

Examination.

Learning outcomes:

Understandable explain to students the principles of chemical kinetics of processes, to elucidate the kinetics and mechanism of some reactions. To analyse particularly the equilibrium and kinetics of electrode processes.

Brief outline of the course:

Electrochemistry. Equilibrium homogeneous processesn electrolyte solutions. Charge transfer in electrolyte solutions. Nonequilibrium homogeneous processes. Trnasport processes in electrolyte solutions. Conductance and molar conductivity. Hindering effects. Transport numbers. Equilibrium in heterogeneous electrochemical systems. Pocesses on charged interfaces. Electrochemical cells and fuel cells. Classification of electrode types. Concentration cells. Electrolysis. Electrochemical power sources. Potentiometry. Electrical double layer. Surface tension.

Chemical kinetics. Homogeneous processes. Reaction rate. Reaction order. Classification of chemical reactions. Elementary chemical reactions. Mechanism and kinetics equations of complicated chemical processes. Methods of rate low determination. Theory of chemical kinetics. Ttemperature dependence of reaction rates. Collision theory. Activated complex theory. Chain reactions. Structure and rate lows of chain reactions. Explosion. Polymerisation reactions. Photochemical reactions. Catalysis. Theory of homogeneous catalysis. Chemical oscillation reactions. Heterogeneous processes. Difusion. Physical and chemical adsorption. Adsorption and diffusion. Processes in heterogeneous electrochemical systems. Electrode kinetics, activation and diffusive mechanism of charge transfer.

Application of theoretical relationships on the solving of concrete problems and on the calculation of examples during seminars.

Recommended literature:

T. Engel, P. Reid: Physical Chemistry, Pearson Educat. Inc., San Francisco 2006

P.W. Atkins: Physical Chemistry, Oxford University Presss, Oxford 1986, 1990, 1994, 1998

W.J. Moore: Physical Chemistry, Longman, London 1972 and newer editions

Course language: **Notes: Course assessment** Total number of assessed students: 569 C В A D E FX 15.82 18.45 22.32 19.33 20.39 3.69

Provides: prof. RNDr. Renáta Oriňaková, DrSc., RNDr. Jana Shepa, RNDr. Ondrej Petruš, PhD., RNDr. Radka Gorejová, RNDr. Dominika Capková

Date of last modification: 20.09.2017

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: ÚGE/ Course name: Physical Geography Excursion EXFG/15 Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: Per study period: 6d Course method: present **Number of ECTS credits: 3** Recommended semester/trimester of the course: 4. Course level: I. **Prerequisities: Conditions for course completion: Learning outcomes: Brief outline of the course: Recommended literature:** Course language: **Notes:** Course assessment Total number of assessed students: 738 C A В D Е FX 89.97 7.86 1.22 0.14 0.41 0.41 Provides: RNDr. Dušan Barabas, CSc., RNDr. Alena Gessert, PhD. Date of last modification: 19.08.2020 Approved:

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: ÚGE/ Course name: Physical Geography of Slovakia **FGS/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: 5 Recommended semester/trimester of the course:** 5. Course level: I. **Prerequisities: Conditions for course completion: Learning outcomes: Brief outline of the course: Recommended literature:** Course language: **Notes:** Course assessment Total number of assessed students: 488 C Α В D Е FX 21.52 28.07 31.15 13.32 3.89 2.05 Provides: RNDr. Alena Gessert, PhD., Mgr. Jozef Šupinský, PhD. Date of last modification: 01.09.2020 Approved:

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚGE/ | **Course name:** Physical geography 1

FYG1/18

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: 6

Recommended semester/trimester of the course: 3.

Course level: I.

Prerequisities:

Conditions for course completion:

Learning outcomes:

Brief outline of the course:

Hydrology of the running water, genesis and development of river basins, measuring of water and its flow. Genesis and the main types of lakes, temperatures, water movements. Sea and water currents, its chemical properties, relief of the sea-floor. Subsurface waters, glaciers.

In the section of soil science and soil geography, physical and chemical nature of soils will be treated as well as actual and presently used systems of the soil classification. Distribution of different soil types in the world and Slovakia, principles of the soil zonality.

Recommended literature:

Course language:

Notes:

Course assessment

Total number of assessed students: 739

A	В	С	D	Е	FX
2.3	5.28	20.84	27.74	36.4	7.44

Provides: RNDr. Dušan Barabas, CSc., RNDr. Alena Gessert, PhD., Mgr. Imrich Sládek, PhD., Mgr. Ján Šašak, PhD.

Date of last modification: 19.08.2020

Approved:

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University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚGE/ | Course name: Physical geography 2

FYG2/05

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: 4.

Course level: I.

Prerequisities:

Conditions for course completion:

Learning outcomes:

Brief outline of the course:

Atmosphere:

- 1. Introduction to the study of meteorology and climatology (basic terms and definitions, history of meteorology and climatology in the world and in Slovakia, methods of obtaining data on weather and climate)
- 2. Atmosphere (composition and vertical division of the atmosphere, temperature and radiation balance)
- 3. Meteorological elements (solar radiation, air temperature, water in the atmosphere air humidity, air pressure, air flow wind)
- 4. Global atmospheric circulation (tropical and mimotropic circulation, air masses and atmospheric fronts)
- 5. Global climate (Earth's climate system, climate classifications in the world and in Slovakia)
- 6. Climate change (climate change in the geological history of the Earth, current climate change) In the study of biogeography we will focus on the biosphere as a part of the physical-geographic sphere. Further focus will be put on the function and position of organisms on the surface, as well as the main regularities of their distribution throughout the world. Phytogeographical and zoogeographical regions of the world and Slovakia. In the practical part students acquaint with the soil profiles and important kinds of plants in Slovakia.

Recommended literature:

Course language:

Notes:

Course assessment

Total number of assessed students: 693

A	В	С	D	Е	FX
29.15	27.99	25.54	10.97	5.92	0.43

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|--|

Date of last modification: 28.08.2020

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚFV/ | **Course name:** Physics for Chemists

FPCh/08

Course type, scope and the method:

Course type: Lecture / Practice

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

Course method: present

Number of ECTS credits: 6

Recommended semester/trimester of the course: 1.

Course level: I.

Prerequisities:

Conditions for course completion:

Test-papers (2).

Exam.

Learning outcomes:

Completing the course students will get knowledge of fundamental physical laws and will understand their relation to chemistry.

Brief outline of the course:

Kinematics and dynamics of mass point, rigid bodies and fluids. Structure and properties of materia. The kinetic theory of gases and the foundations of thermodynamics. Structure and properties of liquids. Mechanical properties of solids, Hooke's Law. Stationary el. field and constant electric current. Magnetic field. Optics.

Recommended literature:

- 1. V. Hajko, J. Daniel-Szabó: Základy fyziky. Veda, Bratislava, 1980.
- 2. Š. Veis, J. Maďar, V. Martišovič: Všeobecná fyzika 1, Mechanika a molekulová fyzika. Alfa, Bratislava, 1978.
- 3. P. Čičmanec: Všeobecná fyzika 2, Elektrina a magnetizmus. Alfa, Bratislava, 1980.
- 4. R.P. Feynman, R.B. Leighton, M. Sands: Feynmanove prednášky z fyziky 1-5. Alfa, Bratislava, 1985.
- 5. V. Hajko a kol.: Fyzika v príkladoch. Alfa, Bratislava, 1983.

Course language:

Slovak language.

Notes:

Course assessment

Total number of assessed students: 577

A	A B		D	Е	FX
22.18	29.81	28.77	12.31	6.76	0.17

Provides: doc. Mgr. Gregor Bánó, PhD., RNDr. Zuzana Jurašeková, PhD.

Date of last modification: 03.05.2015	
Approved:	

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: ÚGE/ Course name: Political geography and geopolitics POL1/18 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: 5** Recommended semester/trimester of the course: 6. 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: 321 C A В D Е FX 43.93 31.46 16.2 6.23 1.87 0.31 Provides: RNDr. Stela Csachová, PhD. Date of last modification: 12.09.2020 Approved:

University: P. J. Šafá	rik University in Košice
Faculty: Faculty of S	cience
Course ID: ÚGE/ PVS/18	Course name: Population growth in Slovakia
Course method: pre	re / Practice rse-load (hours): study period: 28 / 14 esent
Number of ECTS cr	
Recommended seme	ster/trimester of the course: 4.
Course level: I.	
Prerequisities:	
control during the tertype of continuous of and successful solution conditions, i. e. comp in addition will not so (oral/written). If the soform. If a student door	dent's performance is implemented through a combination of current, random rm and the examination part within a particular period of the semester. This control includes at least 80% of students' active participation in teaching ons of given assignments. If a student does not follow and fullfil these two ulsory active learning part of the course, together with active participation and solve assigned tasks successfully cannot register, assign for the examination student receives more than 51% in the written form may proceed to the oral es not demonstrate particular knowledge during the oral examination students of the examination once again.
Learning outcomes: The Student shall acq	uires deeper knowledge of the population of Slovakia in terms of time and 3-D.
migration, the total minternal migration; T Slovakia; The educat status of the population EU in terms of popul Seminars Workshops during th	population and its spatial differentiation, population Dynamics (natural, novement); Reproduction of the population; Migration for work, Foreign and the ageing of the population; The specificities of the Roma population in tional structure of the population; Economic, social, according to the marital on structure; Ethnic and religions structure of the population; Slovakia in the ation processes; The demographic future of Slovakia. The semester are focused on filling the solution of tasks in order to practice or somena studied in the different regional units.
Recommended litera	iture:

Course language:

Notes:

Course assessment								
Total number of assessed students: 138								
A B		С	D	Е	FX			
58.7	5.8	15.22	7.97	9.42	2.9			

Provides: RNDr. Janetta Nestorová-Dická, PhD., prof. Ing. Vladimír Sedlák, PhD.

Date of last modification: 29.03.2020

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚCHV/ | **Course name:** Porous materials and their applications

ADP/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: 6.

Course level: I., II., III.

Prerequisities:

Conditions for course completion:

Written test in the middle and the end of the semester.

Learning outcomes:

To make the acquaintance of various types of advanced porous solids and basic methods for their investigation. To gen up the students with the methods used in characterisation of specific surface area and pore size of different types of porous materials.

Brief outline of the course:

Terminology and principal terms associated with powders, porous solids and adsorption. Methodology of adsorption at the gas-solid interface, liquid-solid interface. Assessment of surface area and porosity. Inorganic materials (active carbon, metal oxides, zeolites, clay minerals, new advanced materials) and phenomenon of adsorption. Application in the industry and everyday life.

Recommended literature:

- 1. F. Rouquerol, J. Rouquerol, K. Sing: Adsorption by powders and porous solids, Academic press, London, UK, 1999
- 2. S. J. Gregg, K.S.W. Sing: Adsorption, surface area and porosity, Academic Press, London,, UK. 1982.
- 3. V. Zeleňák: Adsorption and porosity of solid substances, internal study text, PF UPJŠ, 2007.

Course language:

Notes:

Course assessment

Total number of assessed students: 88

A	В	С	D	Е	FX	N	P
77.27	10.23	2.27	0.0	0.0	0.0	0.0	10.23

Provides: prof. RNDr. Vladimír Zeleňák, DrSc.

Date of last modification: 03.05.2015

Approved:

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University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: Course name: Positive Psychology

KPPaPZ/PP/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: 4., 6.

Course level: I.

Prerequisities:

Conditions for course completion:

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

Learning outcomes:

The aim of the course is to leanrn about the basic theory and current research, as well as the possibility of application of Positive Psychology as a new and rapidly developing field of psychology. The aim of the subject is mainly to develop and apply critical thinking to the challenges and issues that Positive Psychology brings and raises in the context of the individual in contemporary society. Emphasis is placed on the ability to independently and critically process current topics of positive psychology.

Brief outline of the course:

- 1. Different perspectives on well-being nad happiness in psychology
- 2. Main theoretical approaches to positive psychology
- 3. Positive emotions and positivity
- 4. Meaningfulness
- 5. Positive interpersonal relations
- 6. Post-traumatic growth
- 7. Hope and optimism
- 8. Gratitude
- 9. Spirituality as a personality dimension
- 10. Wisdom
- 11. Positive institutions
- 12. New themes and topics in PP

Recommended literature:

Brewer, M. B, Hwestone, M: Emotion and Motivation, Blackwell, 2004

Deci, E., Ryan R. M., Handbook of Self - Determination Reasearch, Rochester, 2002

Křivohlavý, J.: Pozitivní psychologie. Praha, Portál, 2003

Křivohlavý, J.: Psychologie vděčnosti a nevděčnosti. Praha, Grada, 2007

Křivohlavý, J.: Psychologie moudrosti a dobrého života, Praha, Grada, 2012

Křivohlavý, J.: Psychologie pocitu štěstí, Grada, 2013

McAdams, D. P., The Person, New York, 2002

Seligman, M. E. P., & Csikszentmihalyi, M. (Eds.). (2000). Positive psychology [Special issue] American Psychologist, 55(1).

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

Slezáčková, A.: Pruvodce pozitivní psychologií, Praha, Grada, 2012

Course language:

Notes:

Course assessment

Total number of assessed students: 280

A	В	С	D	Е	FX
98.21	1.07	0.36	0.0	0.36	0.0

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

Date of last modification: 25.06.2021

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚCHV/ C

Course name: Practical from Inorganic Chemistry

PACHU/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: 4

Recommended semester/trimester of the course: 2.

Course level: I.

Prerequisities: ÚCHV/VCHU/14 and leboÚCHV/VCHU/15 and leboÚCHV/VCHU/10 and

leboÚCHV/VACH/10

Conditions for course completion:

Learning outcomes:

The practical acquirements at preparation and study of inorganic compounds and their physicochemical properties by common laboratory techniques.

Brief outline of the course:

The utilization of common laboratory techniques for preparation of elements (H2, O2, Cu, Ni), oxides(CO2, Al2O3·xH2O), nitrides(Mg3N2), acids (HNO3, H3BO3), salts((NH4)2SO4, KMnO4), binary salts(NH4)Fe(SO4)2·12H2O), halides (CuCl, CuCl2·2H2O, SnI4, CuBr2) and coordination compounds ([Cr2(CH3COO)4(H2O)2], [CoCl2(en)2]Cl, [Cu(NH3)4]SO4·H2O, K3[Al(C2O4)3]·3H2O).

Recommended literature:

Z. Vargová, J. Kuchár: Praktikum z anorganickej chémie, Košice, 2008

M. Reháková, M. Dzurillová, V. Zeleňák, V. Urvichiarová: Laboratórna technika, PF UPJŠ, Košice. 1999

Course language:

Notes:

Course assessment

Total number of assessed students: 564

A	В	С	D	Е	FX
51.95	28.37	14.36	2.48	1.95	0.89

Provides: doc. RNDr. Juraj Kuchár, PhD., RNDr. Martin Vavra, PhD., RNDr. Miroslava Matiková Maľarová, PhD.

Date of last modification: 03.05.2015

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚCHV/ Course name: Practic

PFCU/03

Course name: Practical in Physical Chemistry

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: 4

Recommended semester/trimester of the course: 5.

Course level: I., II.

Prerequisities:

Conditions for course completion:

Approved laboratory reports.

Assessment.

Learning outcomes:

Theoretical principles, description of each technique and appropriate physical chemistry experiments.

Brief outline of the course:

Experimental verification of theoretical knowledge on thermodynamics, thermochemistry, chemical equilibria (determination of enthalpy, phase diagrams), colligative properties (cryoscopy, ebulioscopy), adsorption.

Experimental verification of theoretical knowledge on electrochemistry (conductivity, dissociation constants, activity coefficients, electromotive force of galvanic cell, Daniell cell, potentials, polarography) and chemical kinetics (determination of rate constants).

Recommended literature:

B.P. Levitt: Findlay's Practical Physical Chemistry, Longman, London 1973

W.J. Moore: Physical Chemistry, Longman, London 1972

P.W. Atkins: Physical Chemistry, Oxford University Press, Oxford, New York 2002

Course language:

Notes:

Course assessment

Total number of assessed students: 351

Α	В	С	D	Е	FX
73.5	21.08	4.56	0.57	0.28	0.0

Provides: RNDr. František Kal'avský, RNDr. Andrea Morovská Turoňová, PhD.

Date of last modification: 12.05.2021

Approved:

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University: P. J. Šafárik University in Košice Faculty: Faculty of Science **Course ID:** Course name: Psychology KPPaPZ/Ps/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., 5. 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: 517 C Α В D Е FX 17.99 22.82 16.05 21.66 18.57 2.9 Provides: PhDr. Anna Janovská, PhD., Mgr. Ondrej Kalina, PhD. Date of last modification: 28.06.2021 Approved:

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: Course name: Psychology of Everyday Life

KPPaPZ/PKŽ/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: I.

Prerequisities:

Conditions for course completion:

The evaluation of the course and its subsequent completion will be based on clearly and objectively set requirements, which will be set in advance and will not change. The aim of the assessment is to ensure an objective and fair mapping of the student's knowledge while adhering to all ethical and moral standards. There is no tolerance for students' fraudulent behavior, whether in the teaching process or in the assessment process.

- 1. Active participation in seminars
- 2. Elaboration and presentation of PPT presentation on the assigned topic. Maximum number of points 20; minimum number of points 11.
- 3. Elaboration of an essay in the range of 4xA4 (standard pages). Maximum number of points 20; minimum number of points 11.

The final evaluation (grade) is the sum of points for the presentation and the essay.

A 40b - 37b

B 36b - 33b

C 32b - 29b

D 28b - 25b

E 24b - 21b

FX 20b - 0b

Learning outcomes:

The student is able to demonstrate an understanding of the individual's behavior in selected everyday situations such as conflict, group influence, empathy, helping, aggression, etc.

The student is able to describe, explain and evaluate the psychological mechanisms that occur in everyday situations.

The student is able to apply basic psychological knowledge to himself (self-regulation) but also in interaction with others (cooperation).

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

The content of the curriculum will be based on primary and high-quality sources that will reflect the topicality of the topics so as to ensure the connection of the curriculum with other subjects and also

the connection of the curriculum with practice. Students will be expected to take an active approach in lectures and seminars with an emphasis on their independence and responsibility.

Brief outline of the course:

How to understand human behavior (overview of basic approaches in psychology); Basic overview of cognitive processes; Learning processes and their use in practice; Social influences, prosocial and antisocial behavior; How human emotions and motivations work; Deciding - why and when we take risks; Childhood experiences and their relationship to adulthood; Abnormal behavior, mental disorders and therapeutic approaches

Recommended lite	erature:
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Course language:

Notes:

Course assessment

Total number of assessed students: 164

A	В	С	D	Е	FX
51.22	14.02	25.61	6.71	1.83	0.61

Provides: Mgr. Ondrej Kalina, PhD.

Date of last modification: 24.06.2021

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: ÚGE/ Course name: Quantitative Methods in Geography **KMG/17** Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per week: 1/2 Per study period: 14/28 Course method: present **Number of ECTS credits: 3 Recommended semester/trimester of the course:** 2. Course level: I. **Prerequisities: Conditions for course completion: Learning outcomes: Brief outline of the course: Recommended literature:** Course language: **Notes:** Course assessment Total number of assessed students: 190 C Ε Α В D FX 25.79 18.42 20.53 18.42 16.84 0.0 Provides: RNDr. Janetta Nestorová-Dická, PhD., prof. Mgr. Jaroslav Hofierka, PhD., Mgr. Patrícia Gurová Date of last modification: 29.03.2020 Approved:

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: KPE/ Course name: School Administration and Legislation OLŠ/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., 5. Course level: I. **Prerequisities: Conditions for course completion: Learning outcomes: Brief outline of the course: Recommended literature:** Course language: **Notes:** Course assessment Total number of assessed students: 234 C Ε Α В D FX 44 44 26.92 17.09 7.69 2.99 0.85 Provides: doc. PaedDr. Renáta Orosová, PhD., PaedDr. Janka Ferencová, PhD. Date of last modification: 08.06.2021 Approved:

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 completion: Conditions for course completion: Attendance							
Learning outcomes: Students will be pro- conditions actively a Students will acquire	Learning outcomes: Learning outcomes: Students will be provided an overview of possibilities how to spend leisure time in seaside conditions actively and their skills in work and communication with clients will be improved. Students will acquire practical experience in organising the cultural and art-oriented events, with the aim to improve the stay and to create positive experiences for visitors.							
Brief outline of the course: Brief outline of the course: 1. Basics of seaside aerobics 2. Morning exercises 3. Pilates and its application in seaside conditions 4. Exercises for the spine 5. Yoga basics 6. Sport as a part of leisure time 7. Application of projects of productive spending of leisure time for different age and social groups (children, young people, elderly) 8. Application of seaside cultural and art-oriented activities in leisure time								
Recommended literature:								
Course language:								
Notes:								
Course assessment Total number of asses	ssed students: 41							
	abs	n						

87.8

12.2

Provides: Mgr. Agata Horbacz, PhD.

Date of last modification: 15.03.2019

Approved:

University: P. J. Šafárik University in Košice Faculty: Faculty of Science **Course ID:** KF/ Course name: Selected Topics in Philosophy of Education (General VKFV/07 Introduction) 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., 5. Course level: I. **Prerequisities:** KF/DF1/05 **Conditions for course completion: Learning outcomes: Brief outline of the course: Recommended literature:** Course language: **Notes:** Course assessment Total number of assessed students: 0 \mathbf{C} Α В D Е FX 0.0 0.0 0.0 0.0 0.0 0.0 Provides: doc. PhDr. Pavol Tholt, PhD., mim. prof. Date of last modification: Approved:

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	COURSE INFORMATION LETTER
University: P. J. Šafá	rik University in Košice
Faculty: Faculty of S	cience
Course ID: ÚGE/ SBP1/13	Course name: Seminar for Bachelor Thesis I.
Course type, scope a Course type: Practic Recommended cour Per week: 2 Per stu Course method: pre	ce rse-load (hours): idy period: 28
Number of ECTS cr	edits: 2
Recommended seme	ster/trimester of the course: 5.
Course level: I.	
Prerequisities:	
presentation (70% of of the both parts of e	red basic methodologic and formal procedures of the final thesis creation by rating) and written examination (30%). To obtain A grade, weighted average examination must reach at least 90%, To obtain B it is 80%, for C it is 70%, 50%. Credits shall not be granted to a student who obtain less than 50% from
Learning outcomes: Mastering basic theocreation.	pretical, methodological and formal scientific procedures of bachelor thesis
Ethics and culture of electronic, etc.). Form	n of selected parts of thesis writing (abstract, introduction, conclusion, etc.) f writing diploma thesis, citations and references, types of sources (printed, nal aspects of the thesis. Linguistic adjustment (terminology, stylistics, syntax, y). Rules of presentation of the thesis. Presentation of current results and state
UPJŠ v Košiciach. D zaverecne-prace/>. ÚSTAV GEOGRAFI Prírodovedeckej faku images/studium/Poky HOVORKA, D., KO (Vydavateľstvo Osve KATUŠČÁK, D. 200	UPJŠ 2019: Základné usmernenia a dokumenty k záverečným prácam na ostupné na: https://www.upjs.sk/pracoviska/univerzitna-kniznica/ E PF UPJŠ 2019: Pokyny na tvorbu záverečných prác na Ústave gego-rafie ulty UPJŠ v Košiciach. Dostupné na: https://geografia.science.upjs.sk/yny_ZP_UGE_2019.pdf >. MÁREK, K., CHRAPAN, J. 2011: Ako písať a komunikovať. Martin
Course language: Slovak	

Notes:

Course assessment							
Total number of assessed students: 411							
A	В	С	D	Е	FX		
94.4	4.14	0.73	0.0	0.73	0.0		

Provides: prof. Mgr. Jaroslav Hofierka, PhD., doc. Mgr. Ladislav Novotný, PhD.

Date of last modification: 22.09.2020

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚGE/ | Course name: Seminar for Bachelor Thesis II.

SBP2/13

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: 6.

Course level: I.

Prerequisities:

Conditions for course completion:

Verification of acquired methodological and formal procedures of the creation of bachelor thesis by the presentation of current thesis creation by presentation of own bachelor thesis (100% of rating). To obtain A grade, the rating os student's presentation must reach at least 90%, To obtain B it is 80%, for C it is 70%, for D 60% and for E 50%. Credits shall not be granted to a student who obtain rating less than 50%.

Learning outcomes:

Acquired skills to apply theoretical, methodological and formal scientific procedures of diploma thesis creation.

Brief outline of the course:

The seminary is focused to the topics of individual bachelor thesis. Students present current state of their thesis, its content and its particular parts. Each bachelor thesis is discussed at scientific level.

Recommended literature:

HOVORKA, D., KOMÁREK, K., CHRAPAN, J. 2011: Ako písať a komunikovať. Martin (Vydavateľstvo Osveta), 247 s.

KATUŠČÁK, D. 2008: Ako písať záverečné a kvalifikačné práce. Nitra (Enigma), 162 s.

ÚTVAR REKTORA UPJŠ (2011): Smernica č. 1/2011, Dostupné na internete:

http://www.upjs.sk/public/media/2438/smernica-1-2011.pdf, 25 s.

Course language:

Slovak

Notes:

Course assessment

Total number of assessed students: 367

A	В	С	D	Е	FX
68.66	22.07	7.9	0.54	0.27	0.54

Provides: prof. Mgr. Jaroslav Hofierka, PhD., doc. Mgr. Ladislav Novotný, PhD.

Date of last modification: 03.05.2015

Approved:	
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COURSE INFORMATION LETTER								
University: P. J. Šafárik Uni	versity in Košice							
Faculty: Faculty of Science	Faculty: Faculty of Science							
Course ID: ÚCHV/ Course ASM/03	se name: Separation Methods							
Course type, scope and the Course type: Lecture / Pra Recommended course-loa Per week: 2 / 1 Per study Course method: present	ctice d (hours):							
Number of ECTS credits:	5							
Recommended semester/tr	imester of the course: 6.							
Course level: I.								
	CHU/03 and leboÚCHV/ANCHE/09 and leboÚCHV/ANCH1b/03), ICHV/PANCH/06 and leboÚCHV/PANCHE/09 and leboÚCHV/							
Conditions for course compreparation and presentation Examination.	pletion: n of a project focused on the application of separation methods.							
Learning outcomes: Survey of basic principles, research and analytical prac	theoretical background and applications of separation methods in tice.							
LLE, SPE, SPME. Chrom retention mechanisms, static Data evaluation - qualitative principles, classification. S Comparison of GC and HPI Planar chromatographic med Electrophoretic techniques								
Skoog D. A., Leary J. J.: Pr. York 1997. Pawliszyn J., Lord H. L.: Ha	ody, SVŠT CHTF, Bratislava 1983. Inciples of instrumental analysis. Saunders College Publishing, New andbook of sample preparation, Wiley 2010. Od do vysokoúčinné kapalinové chromatografie, SNTL, Praha 1984.							
Course language:								

Page: 125

Notes:

Course assessment Total number of assessed students: 473							
A B C D E FX							
27.06	25.79	26.0	13.11	5.71	2.33		
Provides: doc. RNDr. Taťána Gondová, CSc.							
Date of last modification: 21.04.2021							
Approved:							

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: KPO/ Course name: Social and Political Context of Education SPKVV/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: 4., 6. Course level: I. **Prerequisities: Conditions for course completion: Learning outcomes: Brief outline of the course: Recommended literature:** Course language: **Notes:** Course assessment Total number of assessed students: 57 C Α В D Е FX 31.58 36.84 19.3 10.53 1.75 0.0 Provides: Mgr. Ján Ruman, PhD. Date of last modification: 13.05.2021 Approved:

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: KGER/ Course name: Specialised German Language - Natural Sciences 1 OJPV1/07 Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: present Number of ECTS credits: 2 Recommended semester/trimester of the course: 4. Course level: I. **Prerequisities: Conditions for course completion: Learning outcomes: Brief outline of the course: Recommended literature:** Course language: **Notes:** Course assessment Total number of assessed students: 144 C Α В D Е FX 23.61 22.92 24.31 20.83 7.64 0.69 Provides: Mgr. Blanka Jenčíková Date of last modification: 03.05.2015 Approved:

University: P. J. Šafá	rik University in Košice
Faculty: Faculty of S	cience
Course ID: ÚTVŠ/ TVa/11	Course name: Sports Activities I.
Course type, scope a Course type: Practic Recommended cour Per week: 2 Per stu Course method: cor	ce rse-load (hours): idy period: 28
Number of ECTS cr	edits: 2
Recommended seme	ester/trimester of the course: 1.
Course level: I., I.II.,	II.
Prerequisities:	
Conditions for cours Min. 80% of active p	se completion: participation in classes.
They have a great in	their forms prepare university students for their professional and personal life. npact on physical fitness and performance. Specialization in sports activities strengthen their relationship towards the selected sport in which they also
University provides badminton, body forr indoor football, S-M In the first two seme and particularities of physical condition, c Last but not least, the means of a special pr In addition to these physical education tra	
Recommended litera	nture:
Course language	

Notes:

Course asso	Course assessment						
Total numb	er of assesse	d students: 1	2859				
abs	abs-A	abs-B	abs-C	abs-D	abs-E	n	neabs
87.01	0.08	0.0	0.0	0.0	0.04	8.1	4.77

Provides: Mgr. Agata Horbacz, PhD., Mgr. Dávid Kaško, PhD., Mgr. Zuzana Küchelová, PhD., doc. PaedDr. Ivan Uher, PhD., prof. RNDr. Stanislav Vokál, DrSc., Mgr. Marcel Čurgali, Mgr. Patrik Berta, Mgr. Ladislav Kručanica, PhD., Bc. Richard Melichar, Mgr. Petra Tomková, PhD.

Date of last modification: 13.05.2021

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

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

TVb/11

Course type, scope and the method:

Course type: Practice

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

Number of ECTS credits: 2

Recommended semester/trimester of the course: 2.

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

Prerequisities:

Conditions for course completion:

active participation in classes - min. 80%.

Learning outcomes:

Sports activities in all their forms prepare university students for their professional and personal life. They have a great impact on physical fitness and performance. Specialization in sports activities enables students to strengthen their relationship towards the selected sport in which they also improve.

Brief outline of the course:

Within the optional subject, the Institute of Physical Education and Sports of Pavol Jozef Šafárik University provides for students the following sports activities: aerobics, aikido, basketball, badminton, body form, bouldering, floorball, yoga, power yoga, pilates, swimming, body-building, indoor football, S-M systems, step aerobics, table tennis, tennis, volleyball and chess.

In the first two semesters of the first level of education students will master basic characteristics and particularities of individual sports, motor skills, game activities, they will improve level of their physical condition, coordination abilities, physical performance, and motor performance fitness. Last but not least, the important role of sports activities is to eliminate swimming illiteracy and by means of a special program of medical physical education to influence and mitigate unfitness.

In addition to these sports, the Institute offers for those who are interested winter and summer physical education trainings with an attractive program and organises various competitions, either at the premises of the faculty or University or competitions with national or international participation.

Recommended literature:

Course language:

Notes:

Course assessment

Total number of assessed students: 11675

abs	abs-A	abs-B	abs-C	abs-D	abs-E	n	neabs
84.52	0.56	0.02	0.0	0.0	0.05	10.63	4.22

Provides: Mgr. Agata Horbacz, PhD., Mgr. Dávid Kaško, PhD., Mgr. Zuzana Küchelová, PhD., doc. PaedDr. Ivan Uher, PhD., prof. RNDr. Stanislav Vokál, DrSc., Mgr. Marcel Čurgali, Mgr. Patrik Berta, Mgr. Ladislav Kručanica, PhD., Bc. Richard Melichar, Mgr. Petra Tomková, PhD.

Date of last modification: 13.05.2021

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:

min. 80% of active participation in classes

Learning outcomes:

Sports activities in all their forms prepare university students for their professional and personal life. They have a great impact on physical fitness and performance. Specialization in sports activities enables students to strengthen their relationship towards the selected sport in which they also improve.

Brief outline of the course:

Within the optional subject, the Institute of Physical Education and Sports of Pavol Jozef Šafárik University provides for students the following sports activities: aerobics, aikido, basketball, badminton, body form, bouldering, floorball, yoga, power yoga, pilates, swimming, body-building, indoor football, S-M systems, step aerobics, table tennis, tennis, volleyball and chess.

In the first two semesters of the first level of education students will master basic characteristics and particularities of individual sports, motor skills, game activities, they will improve level of their physical condition, coordination abilities, physical performance, and motor performance fitness. Last but not least, the important role of sports activities is to eliminate swimming illiteracy and by means of a special program of medical physical education to influence and mitigate unfitness.

In addition to these sports, the Institute offers for those who are interested winter and summer physical education trainings with an attractive program and organises various competitions, either at the premises of the faculty or University or competitions with national or international participation.

Recommended literature:

Course language:

Notes:

Course assessment

Total number of assessed students: 7873

abs	abs-A	abs-B	abs-C	abs-D	abs-E	n	neabs
88.8	0.05	0.01	0.0	0.0	0.03	4.08	7.04

Page: 133

Provides: Mgr. Marcel Čurgali, Mgr. Agata Horbacz, PhD., Mgr. Dávid Kaško, PhD., Mgr. Zuzana Küchelová, PhD., doc. PaedDr. Ivan Uher, PhD., prof. RNDr. Stanislav Vokál, DrSc., Mgr. Patrik Berta, Mgr. Ladislav Kručanica, PhD., Bc. Richard Melichar, Mgr. Petra Tomková, PhD.

Date of last modification: 13.05.2021

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:

min. 80% of active participation in classes

Learning outcomes:

Sports activities in all their forms prepare university students for their professional and personal life. They have a great impact on physical fitness and performance. Specialization in sports activities enables students to strengthen their relationship towards the selected sport in which they also improve.

Brief outline of the course:

Within the optional subject, the Institute of Physical Education and Sports of Pavol Jozef Šafárik University provides for students the following sports activities: aerobics, aikido, basketball, badminton, body form, bouldering, floorball, yoga, power yoga, pilates, swimming, body-building, indoor football, S-M systems, step aerobics, table tennis, tennis, volleyball and chess.

In the first two semesters of the first level of education students will master basic characteristics and particularities of individual sports, motor skills, game activities, they will improve level of their physical condition, coordination abilities, physical performance, and motor performance fitness. Last but not least, the important role of sports activities is to eliminate swimming illiteracy and by means of a special program of medical physical education to influence and mitigate unfitness.

In addition to these sports, the Institute offers for those who are interested winter and summer physical education trainings with an attractive program and organises various competitions, either at the premises of the faculty or University or competitions with national or international participation.

Recommended literature:

Course language:

Notes:

Course assessment

Total number of assessed students: 5125

abs	abs-A	abs-B	abs-C	abs-D	abs-E	n	neabs
83.14	0.31	0.04	0.0	0.0	0.0	7.75	8.76

Page: 135

Provides: Mgr. Marcel Čurgali, Mgr. Agata Horbacz, PhD., Mgr. Dávid Kaško, PhD., Mgr. Zuzana Küchelová, PhD., doc. PaedDr. Ivan Uher, PhD., prof. RNDr. Stanislav Vokál, DrSc., Mgr. Patrik Berta, Mgr. Ladislav Kručanica, PhD., Bc. Richard Melichar, Mgr. Petra Tomková, PhD.

Date of last modification: 13.05.2021

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚCHV/ | Course name: Structure determination - spectroscopic methods

MUSU/15

Course type, scope and the method:

Course type: Lecture / Practice Recommended course-load (hours): Per week: 2 / 3 Per study period: 28 / 42

Course method: present

Number of ECTS credits: 7

Recommended semester/trimester of the course: 6.

Course level: I.

Prerequisities: ÚCHV/ACHU/03, ÚCHV/ANCHU/03, ÚCHV/OCHU/03

Conditions for course completion:

Learning outcomes:

Brief outline of the course:

Fundamentals of molecular spectroscopy and magnetic properties study, as powerful tools for structure determination in chemistry. Those are ultraviolet, visible, infrared and Raman spectroscopy, mass spectrometry and methods based on magnetic resonance (1H NMR, 13C NMR).

Recommended literature:

L.G.Wade, Jr.: Organic Chemistry. Prentice Hall International, Inc. Englewood Cliffs, New Yersey 1995.

Course language:

Notes:

Course assessment

Total number of assessed students: 158

A	В	С	D	Е	FX
14.56	34.81	31.01	17.09	2.53	0.0

Provides: doc. RNDr. Ján Imrich, CSc., RNDr. Monika Tvrdoňová, PhD., doc. RNDr. Juraj Kuchár, PhD.

Date of last modification: 04.02.2020

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚGE/ Course name: Student Scientific Conference in Geography

SVG/04

Course type, scope and the method:

Course type:

Recommended course-load (hours):

Per week: Per study period: Course method: present

Number of ECTS credits: 4

Recommended semester/trimester of the course: 6.

Course level: I., II.

Prerequisities:

Conditions for course completion:

Learning outcomes:

Brief outline of the course:

After choosing a topic suggested by supervisors implying a geographical problem, the students will work on the topic, write a thesis and defense it before the committee.

Recommended literature:

Course language:

Notes:

Course assessment

Total number of assessed students: 174

A	В	С	D	Е	FX
99.43	0.0	0.0	0.0	0.0	0.57

Provides: prof. RNDr. Peter Spišiak, CSc., RNDr. Dušan Barabas, CSc., RNDr. Alena Gessert, PhD., RNDr. Janetta Nestorová-Dická, PhD., Mgr. Marián Kulla, PhD., doc. Ing. Katarína Bónová, PhD., RNDr. Stela Csachová, PhD.

Date of last modification: 31.03.2020

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: ÚCHV/ Course name: Students Scientific Conference (Presentation) SVK/00 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: Brief outline of the course: Recommended literature:** Course language: **Notes:** Course assessment Total number of assessed students: 36 \mathbf{C} Α В D Е FX 100.0 0.0 0.0 0.0 0.0 0.0 **Provides:** Date of last modification: 03.05.2015 Approved:

University: P. J. Šafá	rik University in Košice
Faculty: Faculty of S	cience
Course ID: ÚMV/ DGS/15	Course name: Students` Digital Literacy
Course type, scope a Course type: Practic Recommended cou Per week: 2 Per stu Course method: pre	ce rse-load (hours): idy period: 28
Number of ECTS cr	edits: 2
Recommended seme	ester/trimester of the course: 1.
Course level: I.	
Prerequisities:	
Conditions for course continuous assessme	•
competencies with e acquire basic digital social media, online	new of the current possibilities of digital technology to develop skills and emphasis on the area of communication, social interaction and personal. To skills for working with advanced technologies (mobile phone, tablet, laptop, webtechnologies). To understand the value of existing advanced technologies effective learning, work and active life in higher education, lifelong learning espects.
online information so books). Tools for co and visualization. To Google Drive, Youtu collaborative activiti	course: coblems of current, commonly available digital technology. Tools for access to curce (mobile applications for access to information systems, databases, data llecting, generating direct information and data and its subsequent analysis cools for providing and sharing of electronic content (cloud technology - the, Google+, Skydrive, Dropbox). Tools for communication, discussion and es. Legal work with digital technologies and resources, plagiarism, critical resources. Security, privacy, digital ethics and etiquette, digital citizenship.
environments. San Fr 2. Byrne, R. (2012). 3. Kawasaki, G. (201 4. Kolb, L. (2011). C Society for Technolo Course language:	Feaching with classroom response systems: Creating active learning rancisco: Jossey-Bass. Google Drive and Docs for Teachers. Free Tech for Teachers. 2). What the Plus! Google+ for the Rest of Us. Amazon igital Services. dell Phones in the Classroom: A Practical Guide for Educators. International
Slovak	

Notes:

Course assessment Total number of assessed students: 250			
abs	n		
96.0	4.0		
Provides: doc. RNDr. Stanislav Lukáč, PhD., doc. RNDr. Jozef Hanč, PhD., doc. RNDr. Ľubomír Šnajder, PhD.			
Date of last modification: 03.05.2015			
Approved:			

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: pre	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:			

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	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: cor	<u>-</u>
conditions as they wi and demanding situa	niliarized 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 ne and prevention of damage to health in extreme conditions in, orientation and navigation in terrain (compasses, GPS) rovised overnight stay d food preparation.

Course language:

Notes:

Course assessment	
Total number of assessed students: 393	
abs	n
44.53	55.47
Provides: MUDr. Peter Dombrovský, Mgr. Ladislav Kručanica, PhD.	
Date of last modification: 15.03.2019	
Approved:	

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: KPE/ Course name: Theory of Education TVE/08 Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: present Number of ECTS credits: 2 Recommended semester/trimester of the course: 4., 6. Course level: I. **Prerequisities: Conditions for course completion: Learning outcomes: Brief outline of the course: Recommended literature:** Course language: **Notes:** Course assessment Total number of assessed students: 501 В C Α D Е FX 36.93 32.93 20.36 5.99 1.6 2.2 Provides: Mgr. Katarína Petríková, PhD. Date of last modification: 08.06.2021 Approved: