CONTENT

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Science	
Course ID: CJP/ PFAJAKA/07	**Course name:** Academic 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, assignments handed in on time, 2 absences tolerated
1 test (10th week), no retake.
Presentation on chosen topic
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:
The development of students´ language skills - reading, writing, listening, speaking, improvement of their linguistic competence - students acquire knowledge of selected phonological, lexical and syntactic aspects, development of pragmatic competence - students can efectively use the language for a given purpose, with focus on Academic English, level B2.

Brief outline of the course:
Formal and informal English
Academic English and its specific features
Key academic verbs and nouns
Linking words in academic writing, writing a paragraph, word-order, topic sentences
Word-formation - affixation
abstract
Selected aspects of English pronunciation, academic vocabulary
Selected functional grammar structures - defining, classifying, epressing opinion, cause-effect, paraphrasing

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: 400

A	B	C	D	E	FX
34.75	22.0	15.75	9.5	6.25	11.75

Provides: Mgr. Viktória Mária Slovenská

Date of last modification: 19.09.2022

Approved: doc. PhDr. Beata Gajdošová, PhD., doc. RNDr. Stanislav Lukáč, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚMV/ALGa/10	**Course name:** Algebra I

Course type, scope and the method:
Course type: Lecture / Practice
Recommended course-load (hours):
Per week: 3 / 3 **Per study period:** 42 / 42
Course method: present

Number of ECTS credits: 7

Recommended semester/trimester of the course: 1.

Course level: I.

Prerequisities:

Conditions for course completion:
According to the results from the semester and in view of the results of the written and oral final exam..

Learning outcomes:
To acquire the methods of mathematical thinking and cognition. Gain basic knowledge of number theory related to divisibility, master the basic concepts of linear algebra and be able to apply them to specific problems and mathematical problems.

Brief outline of the course:
Divisibility in Z. Fields. Systems of linear equations, Gauss elimination. Maps, permutations. Computing with matrices. Determinants, Cramer rule.

Recommended literature:
T. Katriňák a kol.: Algebra a teoretická aritmetika 1, Alfa Bratislava, 1985.
T.S Blyth, E.F. Robertson: Basic linear algebra, Springer Verlag, 2001.
K. Jänich: Linear algebra, Springer Verlag, 1991.

Course language:
Slovak

Notes:

Course assessment
Total number of assessed students: 1369

A	B	C	D	E	FX
11.91	11.83	18.99	18.41	28.12	10.74

Provides: prof. RNDr. Danica Studenovská, CSc., RNDr. Igor Fabrici, Dr. rer. nat., RNDr. Lucia Janičková, PhD., Mgr. Ivana Varga

Date of last modification: 16.04.2022

Approved: doc. PhDr. Beata Gajdošová, PhD., doc. RNDr. Stanislav Lukáč, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚMV/ ALG2b/10	**Course name:** Algebra II

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: 2.

Course level: I.

Prerequisities: ÚMV/ALGa/10

Conditions for course completion:
According to tests and to the exam.

Learning outcomes:
To acquire the methods of mathematical thinking and cognition. To deepen and expand students' knowledge of systems of linear equations, to acquire basic knowledge about vector spaces, linear representations, polynomials and polynomial equations.

Brief outline of the course:
Linear spaces, bases. Rank of a matrix. Systems of homogeneous linear equations.
Linear transformations.
Ring, fields. Polynomials over a field. Factorization into irreducible factors, roots. Roots of complex numbers. Cubic equations.
Polynomials with several unknowns, symmetric polynomials.

Recommended literature:
A. Kurosh: Higher Algebra, Mir Publishers, 1975.

Course language:
Slovak

Notes:

Course assessment
Total number of assessed students: 221

A	B	C	D	E	FX
22.62	17.19	16.74	14.03	25.34	4.07

Provides: prof. RNDr. Danica Studenovská, CSc., RNDr. Lucia Janičková, PhD.

Date of last modification: 24.11.2021

Approved: doc. PhDr. Beata Gajdošová, PhD., doc. RNDr. Stanislav Lukáč, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚMV/ ATC/10	**Course name:** Algebra and number theory

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: 4.

Course level: I.

Prerequisities: ÚMV/ALG2b/10

Conditions for course completion:
It is based on the results of written checks carried out during the semester. Final evaluation is based on the results of written checks carried out during the semester, of test, written and oral exam.

Learning outcomes:
Obtain basic knowledge about groups and from the elementary number theory.

Brief outline of the course:
Groups, subgroups, quotient groups, homomorphism theorems for groups, selected topics of the number theory.

Recommended literature:
G.Birkoff, S.Mac Lane: A Survey of Modern Algebra, New York 1965
I.R. Shafarevich: Basic Notions of Algebra, Springer, 2005

Course language:
Slovak

Notes:

Course assessment
Total number of assessed students: 196

A	B	C	D	E	FX
13.78	20.41	26.02	21.94	14.8	3.06

Provides: doc. RNDr. Miroslav Ploščica, CSc.

Date of last modification: 08.02.2022

Approved: doc. PhDr. Beata Gajdošová, PhD., doc. RNDr. Stanislav Lukáč, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: KPE/ ALP/06	**Course name:** Alternative Education

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: 318

A	B	C	D	E	FX
69.18	25.16	2.83	0.63	0.31	1.89

Provides: Mgr. Katarína Petríková, PhD.

Date of last modification: 20.06.2022

Approved: doc. PhDr. Beata Gajdošová, PhD., doc. RNDr. Stanislav Lukáč, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚMV/APM/19	**Course name:** Applications of mathematics

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:
Presentation on the chosen topic during the seminar.

Learning outcomes:
Students get an overview of applications of mathematics and its tools in various areas of human activity.

Brief outline of the course:
1. Applications of graphs in analysis of complex networks, their central actors and their community structure.
2. Statistical methods used in shape recognition (geometric morphometrics, principal component analysis, linear regression) with application in the analysis of dinosaur skulls and other examples of the use of shape recognition in practice.

Recommended literature:
1. E. A. Robinson, D. H. Ullmann: A mathematical look at politics, CRC Press, 2010.
2. U. Brandes, T. Erlebach: Network Analysis: Methodological Foundations (Lecture Notes in Computer Science, 3418), 2005.
3. Karchynskaya, V., Kopčáková, J., Klein, D., Gába, A., Madarasová-Gecková, A., van Dijk, J. P., de Winter, A. F. a Reijneveld, S. A. (2020). Is BMI a Valid Indicator of Overweight and Obesity for Adolescents? Int. J. Environ. Res. Public Health, 17, 4815.

Course language:
Slovak

Notes:

Course assessment
Total number of assessed students: 19

A	B	C	D	E	FX
78.95	21.05	0.0	0.0	0.0	0.0

Provides: RNDr. Andrej Gajdoš, PhD., doc. Mgr. Jozef Kiseľák, PhD., doc. RNDr. Daniel Klein, PhD., prof. RNDr. Tomáš Madaras, PhD., prof. RNDr. Katarína Cechlárová, DrSc.

Date of last modification: 25.08.2022
Approved: doc. PhDr. Beata Gajdošová, PhD., doc. RNDr. Stanislav Lukáč, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚINF/ AFJ1a/15	**Course name:** Automata and formal languages

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:

Course level: I., N

Prerequisities:

Conditions for course completion:
Oral examination.

Learning outcomes:
To provide theoretical background for studying computer science in general, by giving the necessary knowledge in theory of automata.

Brief outline of the course:
1: Chomsky hierarchy of grammars: alphabet, symbol (letter, character), transitive closure, word (string), empty word (empty string), length of a string, concatenation, language, grammar, nonterminal symbol, terminal symbol, initial nonterminal (initial symbol), grammar rule, derivation step, language generated by a grammar, Chomsky hierarchy of grammars - phrase-structure, context sensitive, context free, regular
2: Deterministic finite state automata: finite state automaton, state, input symbol, output symbol, initial state, transition function, output function, examples of automata and their graphic representation, generalized transition and output functions and their basic properties
3: Reduction of automata I: equivalent automata, minimal (optimal) automaton, reachable state, properties of reachable states, elimination of unreachable states
4: Reduction of automata II: equivalent states, k-equivalent states, properties of equivalence and k-equivalence, relation between k-equivalence and (k+1)-equivalence, partitioning the state set into equivalence classes, elimination of equivalent states
5: Reduction of automata III: proof of correctness, unambiguity, and optimality of reduced automaton, testing equivalence of two automata
6: Deterministic finite state acceptors: basic definitions, language recognized by a finite state acceptor, common properties of acceptors and automata with an output, minimizing a finite state acceptor
7: Operations with regular languages: complement, intersection, union, difference, symmetric difference, testing of emptiness, inclusion, equality, and disjointness for regular languages
8: Nondeterministic finite state acceptors: definition, transition function, language recognized by a nondeterministic acceptor, elimination of nondeterminism
9: epsilon-acceptors: definition, properties, elimination of epsilon-transitions

10: Regular grammars: regular grammar, extended regular grammar, transformation of acceptor to a regular grammar, transformation of extended regular grammar to an epsilon-acceptor
11: Regular expressions I: basic properties, transformation of regular expression to an epsilon-acceptor
12: Regular expressions II: regular equations, valid algebraic manipulations with regular expressions, solving an equation with a single unknown variable, solving a system of regular equations, transformation of acceptor to a regular expression
13: Another constructions: review of transformations among various representations, an example of a direct transformation of a grammar to a regular expression, closure of the class of regular languages under another language operations – concatenation and Kleene star, mirror image
14: Another operations: homomorphism and inverse homomorphism, a context-free language that is not regular

Recommended literature:

J.E. Hopcroft, R.Motwani, J.D. Ullman: Introduction to automata theory, languages, and computation, Addison-Wesley, 2001.
J. Shallit: A second course in formal languages and automata theory, Cambridge University press, 2009.
M. Sipser: Introduction to the theory of computation, Thomson Course Technology, 2006.

Course language:
Slovak or English

Notes:

Course assessment
Total number of assessed students: 895

A	B	C	D	E	FX
26.59	18.21	23.46	17.09	9.83	4.8

Provides: prof. RNDr. Viliam Geffert, DrSc., RNDr. Dominika Pališínová, RNDr. Juraj Šebej, PhD.

Date of last modification: 23.11.2021

Approved: doc. PhDr. Beata Gajdošová, PhD., doc. RNDr. Stanislav Lukáč, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Science	
Course ID: ÚMV/ BKP2/14	**Course name:** Bachelor project
Course type, scope and the method: **Course type:** Practice **Recommended course-load (hours):** **Per week:** 1 **Per study period:** 14 **Course method:** present	
Number of ECTS credits: 2	
Recommended semester/trimester of the course: 5.	
Course level: I.	
Prerequisities:	
Conditions for course completion: To prepare and present a contribution related to thesis and its topic.	
Learning outcomes: To get students familiar with basic knowledge on the form and content of thesis and thesis presentation as well as with the support for its realisation.	
Brief outline of the course: Necessary elements and formal aspects of a thesis. WYSIWYG editors, LaTeX, drawing programs. Presentation software, Microsoft PowerPoint and its clones, Beamer. Suggestions for presentation and contribution making.	
Recommended literature: electronic information sources	
Course language: Slovak or English	
Notes:	
Course assessment Total number of assessed students: 141	

abs	n
100.0	0.0

Provides: doc. RNDr. Dušan Šveda, CSc.
Date of last modification: 03.05.2015
Approved: doc. PhDr. Beata Gajdošová, PhD., doc. RNDr. Stanislav Lukáč, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Science	
Course ID: ÚMV/ BPO/14	**Course name:** Bachelor thesis and its defence
Course type, scope and the method: **Course type:** **Recommended course-load (hours):** **Per week: Per study period:** **Course method:** present	
Number of ECTS credits: 4	
Recommended semester/trimester of the course:	
Course level: I.	
Prerequisities:	
Conditions for course completion: The bachelor thesis is the result of the student's own work. It must not show elements of academic fraud and must meet the criteria of good research practice defined in the Rector's Decision no. 21/2021, which lays down the rules for assessing plagiarism at Pavol Jozef Šafárik University in Košice and its components. Fulfillment of the criteria is verified mainly in the supervision process and in the process of thesis defense. Failure to do so is reason for disciplinary action.	
Learning outcomes: Evaluation of student‘s competences with respect to the profile of the graduate.The bachelor's thesis demonstrates mastery of the basics of theory and professional terminology of the field of study, acquisition of knowledge, skills and competencies in accordance with the declared profile of the graduate of the study program, as well as the ability to apply them creatively in solving selected field problems. The bachelor thesis may have elements of compilation. The student demonstrates the ability of independent professional work in terms of content, formal and ethical. Further details on the bachelor thesis are determined by Directive no. 1/2011 on the basic requirements of final theses and the Study Regulations of UPJŠ in Košice.	
Brief outline of the course: 1. Elaboration of the bachelor thesis in accordance with the instructions of the supervisor. 2. Presentation of the results of the bachelor's thesis before the examination commission. 3. Answering questions related to the topic of the bachelor thesis within the discussion.	
Recommended literature: The recommended literature is determined individually in accordance with the topic of the bachelor's thesis.	
Course language: Slovak	
Notes:	

Course assessment
Total number of assessed students: 178

A	B	C	D	E	FX
68.54	17.98	6.74	3.93	2.25	0.56

Provides:

Date of last modification: 19.04.2022

Approved: doc. PhDr. Beata Gajdošová, PhD., doc. RNDr. Stanislav Lukáč, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: KPPaPZ/ BPaOBP/15	**Course name:** Bachelor´s Thesis Defense

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: KPPaPZ/PSBc/06

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

Learning outcomes:
The bachelor's thesis demonstrates mastery of the basics of theory and professional terminology of the field of study, acquisition of knowledge, skills and competencies in accordance with the declared profile of the graduate of the study program, as well as the ability to apply them creatively in solving selected field problems. The bachelor thesis may have elements of compilation. The student demonstrates the ability of independent professional work in terms of content, formal and ethical. Further details on the bachelor thesis are determined by Directive no. 1/2011 on the basic requirements of final theses and the Study Regulations of UPJŠ in Košice for the 1st, 2nd and joint 1st and 2nd degree.

Brief outline of the course:
Presentation of the results of the bachelor's thesis, answering the opponent's questions and answering the questions of the members of the examination commission.

Recommended literature:

Course language:

Notes:

Course assessment
Total number of assessed students: 63

A	B	C	D	E	FX
26.98	28.57	19.05	15.87	7.94	1.59

Provides:

Date of last modification: 24.06.2022
Approved: doc. PhDr. Beata Gajdošová, PhD., doc. RNDr. Stanislav Lukáč, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: KPPaPZ/PSBc/06	**Course name:** Bachelor´s Thesis Seminar

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:
Course requirements:
1. active participation and completion of assignments
2. submission of the research project of the thesis and the theoretical part of the thesis (in the form and scope as required by the thesis supervisor) within the assigned deadline.
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.
Combined method.

Learning outcomes:
The aim of the course is to provide students with information about the implementation of a research project and the rules of writing the final thesis.

Brief outline of the course:
1. Work procedure in creating a research project2. Compilation of an individual research schedule (research planning) 3. Writing a bachelor's thesis (formal and content page) 4. Presentation of research results (final thesis)

Recommended literature:
Katuščák, D. Ako písať záverečné a kvalifikačné práce.Enigma, Nitra, 2004.
Meško, D., Katuščák, D. a kol.: Akademická príručka. Martin: Osveta 2005.

Course language:

Notes:
Changes and current information specifying the content and form of teaching are published on the electronic bulletin board of the subject in the AIS system.

Course assessment
Total number of assessed students: 130

abs	n
100.0	0.0

Provides: Mgr. Jozef Benka, PhD.

Date of last modification: 24.06.2022
Approved: doc. PhDr. Beata Gajdošová, PhD., doc. RNDr. Stanislav Lukáč, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚBEV/ ZNFYZM/15	**Course name:** Basics of Neurophysiology

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

Number of ECTS credits: 3

Recommended semester/trimester of the course: 3.

Course level: I.

Prerequisities:

Conditions for course completion:
Regular attendance at classes.
Elaboration of assigned tasks.
Successful completion of the oral exam.

Learning outcomes:
Students will learn the principles of nervous system functioning from the level of individual neurons (membrane potential, action potential, synaptic transmission), through simple neural circuits (reflexes, ...) to the description of complex functional parts of the nervous system (brain, spinal cord, peripheral nervous system) .

Brief outline of the course:
1. Neurophysiology as a part of neurosciences
2. Nervous system - basic structures and functions (CNS, PNS).
3. Neuron as a basic functional unit of the nervous system - structure, function, structural and functional classification
4. Glial cells - role and functional classification
5. Electrochemical basis of membrane potential; ion channels, ion currents
6. Origin and propagation of action potential, phases, parameters and types of action potential. Nerve fibers, myelin, rate of propagation of arousal, etc.…
7. Principle of synapse, chemical and electrical synapse, synaptic excitation and inhibition. Synaptic potentials, temporal and spatial summation, excitation threshold.
8. Neurotransmitters and receptors. Receptor classification, mechanism of action.
9. Spinal cord - basic structures and functions. Spinal reflexes. Basic sensory and motor pathways in the spinal cord.
10. Brain - basic parts, their origin and function.
11. Neurophysiology of the senses - sight, hearing, smell, taste and touch.
12. Peripheral nervous system. Autonomic nervous system - sympathetic and parasympathetic.
13. Bioelectrical manifestations of the nervous system. Clinical and experimental research methods.

Recommended literature:
Brain Facts, a primer on the brain and nervous system, published by the Society for Neuroscience, 2018

Mysliveček,J., Myslivečková-Hassmannová,J.: Nervová soustava. Funkce, struktura a poruchy činnosti. Avicenum, Praha, 1989.
Schmidt,R.,F.: Fundamentals of Neurophysiology. Springer Verlag, New York, Berlin, Heidelberg, 1985.
Greenstein,B., Greenstein,A.: Color Atlas of Neuroscience. Thieme. Stuttgart, New York, 2000.

Course language:
Slovak

Notes:

Course assessment
Total number of assessed students: 144

A	B	C	D	E	FX
16.67	30.56	23.61	13.89	14.58	0.69

Provides: RNDr. Ján Gálik, CSc.

Date of last modification: 13.10.2021

Approved: doc. PhDr. Beata Gajdošová, PhD., doc. RNDr. Stanislav Lukáč, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚBEV/ BDD/05	**Course name:** Biology of Children and Adolescents

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:
Acquisition of basic morphological and physiological knowledge about individual organs and systems of the human body with a focus on the specifics of childhood and adolescence. Familiarity with developmental and growth characteristics and with the most common diseases in these stages of ontogenesis.

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: 1717

A	B	C	D	E	FX
31.74	23.76	17.94	16.83	9.2	0.52

Provides: doc. RNDr. Monika Kassayová, CSc.

Date of last modification: 20.04.2022

Approved: doc. PhDr. Beata Gajdošová, PhD., doc. RNDr. Stanislav Lukáč, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚMV/ZBR/14	**Course name:** Bridge fundamentals

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:
Active participation on exercises.

Learning outcomes:
A student gets acquainted with fundamentals of the contract bridge, develops his/her logical thinking and consolidates his/her habits of positive social behaviour.

Brief outline of the course:
Bridge rules.
Principles of the bidding system Standard American.
Basic techniques of declarer's play.
Basic techniques of the defence.
Lead conventions, signals.
Common bidding conventions.
Selected advanced techniques of the card play.
Partnership cooperation in the contract bridge.
Bridge ethics.

Recommended literature:
T. Menyhért: Kurz bridžu 2013, http://new.bridgekosice.sk/kurz-bridzu-2013/
R. Pavlicek: Learn To Play Bridge!, http://www.rpbridge.net/1a00.htm
ACBL SAYC System Booklet, http://ebookbrowsee.net/acbl-sayc-pdf-d201415187

Course language:
Slovak or English

Notes:
Minimum number of participants is 4.

Course assessment
Total number of assessed students: 26

abs	n
96.15	3.85

Provides: doc. RNDr. Miroslav Ploščica, CSc., prof. RNDr. Mirko Horňák, CSc.
Date of last modification: 08.02.2022
Approved: doc. PhDr. Beata Gajdošová, PhD., doc. RNDr. Stanislav Lukáč, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Science	
Course ID: KPS/ PDV/07	**Course name:** Child Development Disorders

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: 6.

Course level: I.

Prerequisities: KPS/VP1/05 or KPPaPZ/VPMOS/16

Conditions for course completion:
The final evaluation is a combination of ongoing evaluation 50 per cent (50 points, minimum 35 points) and final exam 50 per cent (50 points).
The ongoing evaluation consists of:
a) Six written tests (only results from five best evaluated tests will be considered) – 20 points
b) case presentation - 15 points
c) analysis of the case, active participation througthout seminars - 15 points
Final exam is an oral exam.

Learning outcomes:
The aim of the course is to provide the basics of psychopathology and pathopsychology of child development. The absolvent of the course has theoretical knowledge about childhood developmental disorders, which can be used in practice in the context of knowledge from other subjects. In addition, the absolvent of the course also has an overview of current knowledge based on the latest research and evidence-based methods.
The graduate of this course will acquire the following competencies:
-distinguish mental disorders of children and adolescents,
- perceive the differential-diagnosis specifics of psychopathology in children,
- be familiar with the specifics of mental development in children and adolescents,
- take into account the specifics of the differential diagnosis of psychopathology in children depending on age.
The information will be yearly specified on the electronic noticeboard of the course in AiS2, aleternatively in LMS UPJŠ or MS Teams environment.

Brief outline of the course:
Approaches to Child Psychopathology. Developmental Psychopathology.
Normal Development: What is actually normal? Insecure attachment and related difficulties.
Pathopsychology (Monika)
Attention-Deficit Hyperactivity Disorder (ADHD). Cognitive Impairment.
Autism Spectrum Disorder.
Antisocial Behaviour.
Fear and Anxiety.

Depression.
Eating disorders.
Substance use disorders.
Schizophrenia. Personality disroders.
Child maltreatment. Divorce, separation and loss.
The information will be yearly specified on the electronic noticeboard of the course in AiS2, aleternatively in LMS UPJŠ.

Recommended literature:

Carr, A. (2016): The Handbook of Child and Adolescent Clinical Psychology. A contextual approach. Routledge. ISBN 978-I-138-80600-9.
Pugnerová, M., Kvitová, J. (2016): Přehled poruch psychického vývoje. Grada, ISBN 9788024754529.
Venta, A., Sharp, C., Fletcher, J.M., Fonagy, P. (2021): Developmental Psychopathology. Hoboken: Wiley, ISBN 9781118686485.

Course language:

Notes:

Course assessment

Total number of assessed students: 784

A	B	C	D	E	FX
19.13	26.91	29.97	15.69	4.59	3.7

Provides: Mgr. Viktória Hičárová, PhD.

Date of last modification: 03.02.2023

Approved: doc. PhDr. Beata Gajdošová, PhD., doc. RNDr. Stanislav Lukáč, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Science	
Course ID: KOP/ OPaPDV/14	**Course name:** Civil Law and Intellectual Property Rights
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: 4	
Recommended semester/trimester of the course: 3., 5.	
Course level: I., N	
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	
abs	n
93.81	6.19
Provides: doc. JUDr. Renáta Bačárová, PhD., LL.M., prof. JUDr. Peter Vojčík, CSc.	
Date of last modification: 23.09.2021	
Approved: doc. PhDr. Beata Gajdošová, PhD., doc. RNDr. Stanislav Lukáč, PhD.	

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Science	
Course ID: KPS/ KOGPS/11	**Course name:** Cognitive Psychology

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: 2.

Course level: I.

Prerequisities:

Conditions for course completion:
During the semester, the student is required to complete three tasks:
A) Written examination (max. number of points is 15, the required number of points is 8). The date is by default scheduled after a consultation week.
B) Presentation of a seminar work on a chosen topic (max. number of points is 15, the required number of points is 8).
C) Active participation during the seminar (max. number of points is 10, the required number is 1).
To proceed to the final exam, it is necessary to obtain more than half of the total points that can be gained during the semester (note that a minimum number of points for activities A, B and C should be fulfilled as listed above).
The final exam is in a written form. A student can get a maximum of 60 points. To pass, a student needs to obtain 31 and more points (note that credits will not be awarded to a student who gets less than 31 points from the final exam and whose sum of points obtained during the semester and the final exam is less than 51).
The final mark is created by adding the points that the student gained during the semester and the final exam. At least 90 points must be obtained to obtain an "A" rating, 80-89 points to obtain an "B" rating, 70-79 points to obtain a "C" rating, 60-69 points to obtain a "D" rating and 51 to obtain an "E" rating 51 -59 points.
The information will be yearly specified on the electronic noticeboard of the course in AiS2, alternatively in LMS UPJŠ or MS Teams environment.

Learning outcomes:
The main goal of the course is to acquaint students with cognitive psychology, as a scientific discipline that deals with the study of human cognition, and to provide them with the current knowledge related to human cognition. In addition, the course also emphasizes the ability to properly understand this knowledge and apply it. For this purpose, the course provides not only an overview of the main theories of selected cognitive processes and the broader context of the discipline but also practical illustrations and systematic encouragement of critical thinking. The main goal of seminars is to train the ability to use and adequately present the acquired knowledge, connect this knowledge to other related areas, think about it independently, discuss it critically and, last but not least, to flexiblty and cretively solve various related model activities.

The information will be yearly specified on the electronic noticeboard of the course in AiS2, alternatively in LMS UPJŠ or MS Teams environment.

Brief outline of the course:

History of cognitive psychology. Research of cognition in the period of psychology as a scientific discipline. The emergence of cognitive psychology.

Cognition - general characteristics. Structure of cognitive processes. Paradigms in cognitive psychology: S-R scheme, information processing model, evolutionary approach, connectionist approach. Stimuli and mental representations.

Perception - sensory processes. Perception - organization of the perceptual field, object recognition, specific types of perception.

Attention - selection and division of attention. Theories of attention. Automatic and controlled processes and attention.

Memory - models, types of memory, memory processes.

Learning - classical conditioning, operant conditioning and other types of learning.

Mental representations and ideas. Thinking – concepts and operations. Language and thinking. Thinking and speech.

Judgment, decision making, problem solving, creativity. Current research of cognitive processes.

The information will be yearly specified on the electronic noticeboard of the course in AiS2, alternatively in LMS UPJŠ or MS Teams environment.

Recommended literature:

Literature:

Plháková, A.: Učebnice obecné psychologie. Academia, 2007.

Sternberg, R., Sternberg S.: Cognitive Psychology (7th Edition). Wadsworth Publishing, 2016.

Cognitive Psychology: A Student's Handbook (8th Edition). Psychology Press, 2020.

Recommended:

Sternberg, R.J.: Kognitivní psychologie. Portál, 2002.

Eysenck, M.W., Keane, M.T. Kognitivní psychologie. Praha, Academia, 2008.

Noel-Hoeksema, S a Frederickson W. : Psychologie Atkinsonovej a Hilgarda. Portál, 2012.

Course language:

Notes:

Lectures and activities are adapted to both, physically present and distance form of education. For further information and current changes in the form of teaching (distance vs. full-time), please see electronic noticeboard.

Course assessment

Total number of assessed students: 1452

A	B	C	D	E	FX
13.43	22.66	26.45	21.21	5.99	10.26

Provides: Mgr. Pavol Kačmár, PhD., Mgr. Ondrej Kalina, PhD.

Date of last modification: 24.05.2023

Approved: doc. PhDr. Beata Gajdošová, PhD., doc. RNDr. Stanislav Lukáč, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Science	
Course ID: KPPaPZ/ECo-C4/14	**Course name:** Communication ECo-C4

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: 4

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

Course level: I., N

Prerequisities:

Conditions for course completion:
1. Active participation in lessons (absence is allowed max. 90 min.), 2. Realization of assignments according to the teacher's instructions.
Detailed information in the electronic board of the course in AIS2. The teaching of the subject will be realized by a combined method.

Learning outcomes:
The student understands theoretical information about the basics of verbal and nonverbal communication, rhetoric and methods of visualization and interprets them adequately. Student is able to use the acquired communication skills in practice, can apply effective principles of communication with others, is able to anticipate and thus prevent possible misunderstandings, which will contribute to the development of his social and professional skills.

Brief outline of the course:
Basics of communication (Transmitter-receiver principle, "What is said is not equal to what is heard", "Internal dialogue", The concept of communication)
Active listening (The most important criteria for active listening)
Misunderstandings (How Misunderstandings Arise, How to Avoid Misunderstandings)
Body language (What is body language, Active / passive body language, Dress psychology)
Signs of Physical Expression, Disadvantages of Fake Physical Expression, Difference Between Active and Passive Body Expression
Personality development (Voices in us, "child in me" - identification of one's own personality)
Rhetoric (History of rhetoric, What is rhetoric, Vigor, alertness - assumptions, techniques, prompt reactions)
Visualization - optical display (Classic media - whiteboard, magnetic whiteboard, bulletin board, flipchart, Based on computer technology - PC + Beamer)

Recommended literature:
VÝROST, Jozef - SLAMĚNÍK, Ivan. Sociální psychologie. 2., přepr. a rozš. vyd. Praha : GRADA, 2008. 408 s.
VÝROST, Jozef - SLAMĚNÍK, Ivan. Aplikovaná sociální psychologie I : Člověk a sociální instituce. 1. vyd. Praha : Portál, 1998. 384 s. ISBN 80-7178-269-6.

KOMÁRKOVÁ, Růžena - SLAMĚNÍK, Ivan - VÝROST, Jozef. Aplikovaná sociální psychologie III : Sociálněpsychologický výcvik. 1. vyd. Praha : Grada Publishing, 2001. 224 s.
VÝROST, Jozef - SLAMĚNÍK, Ivan. Aplikovaná sociální psychologie II. 1. vyd. Praha : Grada Publishing, 2001. 260 s.

Course language:
slovak

Notes:
After passing the certification exams from all 4 modules (Teamwork, Selfmarketing, Conflict Management, Communication) the student will receive an ECo-C card and an ECo-C certificate.

Course assessment
Total number of assessed students: 98

abs	n
80.61	19.39

Provides: Mgr. Lucia Barbierik, PhD.

Date of last modification: 24.06.2022

Approved: doc. PhDr. Beata Gajdošová, PhD., doc. RNDr. Stanislav Lukáč, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: CJP/ PFAJKKA/07	**Course name:** Communicative Competence in English

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

Number of 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.
2 credit tests (presumably in weeks 6/7 and 12/13) and an oral presentation in English.
Final evaluation consists of the scores obtained for the 2 tests (50%) and the presentation (50%).
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:

Brief outline of the course:

Recommended literature:
www.bbclearningenglish.com
Štěpánek, Libor a kol. Academic English-Akademická angličtina. Praha: Grada Publishing, a.s., 2011.
McCarthy M., O'Dell F.: English Vocabulary in Use, Upper-Intermediate. CUP, 1994.
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.

Course language:
English language, B2 level according to CEFR

Notes:

Course assessment
Total number of assessed students: 289

A	B	C	D	E	FX
44.64	20.76	17.65	7.96	6.23	2.77

Provides: Mgr. Barbara Mitríková, Mgr. Viktória Mária Slovenská

Date of last modification: 12.02.2023

Approved: doc. PhDr. Beata Gajdošová, PhD., doc. RNDr. Stanislav Lukáč, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: CJP/ 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 (maximum 2 absences tolerated), homework assignments completed by given deadlines.
Powerpoint presentation of a topic related to the study field.
Final Test - end of semester, no retake
Final assessment = average of test and presentation.
Grading scale: A 93-100%, B 86-92%, C 79-85%, D 72-78%, E 65-71%, FX 64% and less

Learning outcomes:
The development of students´ language skills - reading, writing, listening, speaking, improvement of their communicative linguistic competence. Students acquire knowledge of selected phonological, lexical and syntactic aspects, development of pragmatic competence. Students can efectively use the language for a given purpose, with focus on Academic English and English on level B2.

Brief outline of the course:
Selected aspects of English grammar and pronunciation
Word formation
Contrast of tenses in English
The passive voice
Types of Conditionals
Phrasal verbs and English idioms
Words order and collocations, prepositional phrases

Recommended literature:
Vince M.: Macmillan Grammar in Context, Macmillan, 2008
McCarthy, O'Dell: English Vocabulary in Use, CUP, 1994
www.linguahouse.com
esllibrary.com
bbclearningenglish.com
ted.com/talks

Course language:

English language, level B2 according to CEFR.

Notes:

Course assessment
Total number of assessed students: 432

A	B	C	D	E	FX
39.81	19.91	16.2	8.1	5.79	10.19

Provides: Mgr. Lenka Klimčáková

Date of last modification: 13.09.2022

Approved: doc. PhDr. Beata Gajdošová, PhD., doc. RNDr. Stanislav Lukáč, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: KGER/ NJKG/07	**Course name:** Communicative Grammar in German Language

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

Number of ECTS credits: 2

Recommended semester/trimester of the course:

Course level: I., II.

Prerequisities:

Conditions for course completion:
Active participation in class and completed homework assignments. Students are allowed to miss 2 classes at the most (2x90 min.). 2 control tests during the semester. 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:
The aim of the course is to identify and eliminate the most frequent grammatical errors in oral and written communication, learning language skills of listening comprehension, speaking, reading and writing, increasing students 'language competence (acquisition of selected phonological, lexical and syntactic knowledge), development of students' pragmatic competence (acquisition of the ability to express selected language functions), development of presentation skills, etc.

Brief outline of the course:
The course is aimed at practicing and consolidating knowledge of morphology and syntax of German in order to show the context in grammar as a whole. The course is intended for students who often make grammatical errors in oral as well as written communication. Through the analysis of texts, audio recordings, tests, grammar exercises, monologic and dialogical expressions of students focused on specific grammatical structures, problematic cases are solved individually and in groups. Emphasis is placed on the balanced development of grammatical thinking in the communication process, which ultimately contributes to the development of all four language skills.

Recommended literature:
Dreyer, H. – Schmitt, R.: Lehr- und Übungsbuch der deutschen Grammatik. Hueber Verlag GmbH & Co. Ismaning, 2009.
Krüger, M.: Motive Kursbuch, Lektion 1 – 30. Huebert Verlag GmbH & Co. Ismaning, 2020.
Brill, L.M. – Techmer, M.: Deutsch. Großes Übungsbuch. Wortschatz. Huebert Verlag GmbH & Co. Ismaning, 2011.
Földeak, Hans: Sag's besser!. Grammatik. Arbeitsbuch für Fortgeschrittene. Huebert Verlag GmbH & Co. Ismaning, 2001.
Geiger, S. – Dinsel, S.: Deutsch Übungsbuch Grammatik A2-B2. Huebert Verlag GmbH & Co. Ismaning, 2018.
Dittelová, E. – Zavatčanová, M.: Einführung in das Studium der deutschen Fachsprache. Košice: ES UPJŠ, 2000.

Course language:
German, Slovak language

Notes:

Course assessment
Total number of assessed students: 56

A	B	C	D	E	FX
60.71	10.71	8.93	3.57	8.93	7.14

Provides: Mgr. Ulrika Strömplová, PhD.

Date of last modification: 12.07.2022

Approved: doc. PhDr. Beata Gajdošová, PhD., doc. RNDr. Stanislav Lukáč, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Science	
Course ID: KPPaPZ/ECo-C3/14	**Course name:** Conflict Management ECo-C3

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: 4

Recommended semester/trimester of the course: 3., 5.

Course level: I., N

Prerequisities:

Conditions for course completion:
The conditions for completing the course are as follows:
1. Active participation in exercises
2. Submission of reflection within the set deadline on the selected topic.
Attendance at seminars is mandatory - the student may have two absences during the semester.
The evaluation of the course and its subsequent completion will be based on clearly and objectively set requirements, which will be set in advance and will not change. The aim of the assessment is to ensure an objective and fair mapping of the student's knowledge while adhering to all ethical and moral standards. There is no tolerance for students' fraudulent behavior, whether in the teaching process or in the assessment process.

Learning outcomes:
Successful mastery and demonstration of knowledge in the field of conflict management and control of basic rules.
The method of teaching the subject will be oriented to the student. Lecturers will be interested in students' needs, expectations and opinions so as to encourage them to think critically by expressing respect and feedback on their opinions and needs.
The content of the curriculum will be based on primary and high-quality sources that will reflect the topicality of the topics so as to ensure the connection of the curriculum with other subjects and also the connection of the curriculum with practice. Students will be expected to take an active approach in lectures and seminars with an emphasis on their independence and responsibility.
The student is able to demonstrate an understanding of an individual's behavior in various conflict situations. The student is able to describe, explain and evaluate their own internal resources, competencies as well as limitations and weaknesses that are directly related to conflict management.
The student is able to apply theoretical knowledge and principles of conflict resolution to everyday situations.

Brief outline of the course:
Disputes and their causes (Types of disputes, External influences, Be able to reveal the causes of disputes), Dispute origin (Levels of disputes, Escalation warning signals, Escalation removal strategies, Know how to explain escalation stages; How do I approach a dispute?) Dispute Resolution, Dispute Resolution Strategies, Dispute Discussion, Dispute Settlement Initiatives,

Knowing how to handle a dispute and how to effectively resolve it), Dispute Resolution (Options, Public Struggle, Covert Struggle, Indefinite Postponement, Agreement, “Fair play ”, compromise, cooperation, capitulation, escape or separation), Prevention (Structures that produce disputes, The meaning and purpose of disputes, Stages and steps of dispute resolution, What does a positive corporate culture mean? Dispute is an incentive for change)

Recommended literature:

Course language:

Notes:

Course assessment
Total number of assessed students: 110

abs	n
94.55	5.45

Provides: Mgr. Ondrej Kalina, PhD.

Date of last modification: 24.06.2022

Approved: doc. PhDr. Beata Gajdošová, PhD., doc. RNDr. Stanislav Lukáč, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: KPPaPZ/VPMOS/16	**Course name:** Developmental Psychology for Joint Degree Study

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: 4.

Course level: I.

Prerequisities:

Conditions for course completion:
Active participation in seminars, continuous assessment of activities in seminars, evaluation of seminar work, final exam

Learning outcomes:
The graduate will understand the principles of developmental psychology, and will be able to characterize the norm in various stages of development. As part of the seminar work, students will process current knowledge published in international journals. They will orient themself in the current social discourse on the topics covered.

Brief outline of the course:
Introduction to developmental psychology. Basic concepts, factors and determinants of development, maturation and learning, developmental tasks, history of developmental psychology. Biological and social determinants of development, healthy and unhealthy development. Factors of socialization. Socialization at an early age, theory of attachment, psychological deprivation. Personality development. Theories of personality development. Identity development. Cognitive development. Moral development. Development periodization - basic characteristics of separate development periods from prenatal development to old age.

Recommended literature:
Thorová, K. Vývojová psychologie. Portál, Praha, 2015.
Macek, P. Adolescence. Praha: Portál, 2003
Vágnerová, M. Vývojová psychologie. Portál, Praha 2000
Říčan, P. Cesta životem. Portál, Praha, 2004.
Matějček, Z. - rôzne diela

Course language:

Notes:

Course assessment
Total number of assessed students: 140

A	B	C	D	E	FX
13.57	19.29	33.57	22.86	9.29	1.43

Provides: doc. Mgr. Mária Bačíková, PhD.

Date of last modification: 24.06.2022

Approved: doc. PhDr. Beata Gajdošová, PhD., doc. RNDr. Stanislav Lukáč, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Science	
Course ID: ÚMV/ DSMa/10	**Course name:** Discrete mathematics I
Course type, scope and the method: **Course type:** Lecture / Practice **Recommended course-load (hours):** **Per week:** 2 / 2 **Per study period:** 28 / 28 **Course method:** present	
Number of ECTS credits: 5	
Recommended semester/trimester of the course: 3.	
Course level: I.	
Prerequisities:	
Conditions for course completion: Examination.	
Learning outcomes: To be familiar with some factual knowledge of combinatorics and graph theory. To understand an appreciate mathematical notions, definitions, and proofs, to solve problems requiring more than just standard recipes, and to express mathematical thoughts precisely and more rigorously.	
Brief outline of the course: Basic principles. Counting and binomial coefficients, Binomial theorem, polynomial theorem. Recurrence: Some miscellaneous problems, Fibonacci-type relations, Using generating functions, miscellaneous methods. The inclusion-exclusion principle. Rook polynomials. Introduction to graphs: The concept of graphs, paths in graphs. Connectivity. Trees, bipartite graphs. Planarity. Polyhedra. Traveling round a graph: Eulerian graphs, Hamiltonian graphs. Partitions and colourings: Vertex colourings of graphs. Edge colourings of graphs	
Recommended literature: 1. I. Anderson, A first course in discrete mathematics, Springer-Verlag London, 2001. 2. J. Matoušek and J. Nešetřil, Invitation to discrete mathematics, Oxford University Press Inc. , New York 1999. 3. S. Jendroľ, P. Mihók: Diskrétna matematika I, UPJŠ Košice 1992.	
Course language: Slovak	
Notes:	

Course assessment Total number of assessed students: 365					
A	B	C	D	E	FX
17.26	20.27	22.47	21.37	15.34	3.29
Provides: doc. RNDr. Roman Soták, PhD., RNDr. Alfréd Onderko, RNDr. Zuzana Šárošiová					
Date of last modification: 16.04.2022					
Approved: doc. PhDr. Beata Gajdošová, PhD., doc. RNDr. Stanislav Lukáč, PhD.					

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚMV/ DSMb/10	**Course name:** Discrete mathematics II

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: 4.

Course level: I.

Prerequisities: ÚMV/DSMa/10 or ÚMV/DSM3a/10

Conditions for course completion:
In the covered areas of graph theory, the ability to formulate definitions and statements, to present proofs of statements, to explain individual steps in proofs and to solve selected problems related to given topics is required.
During the semester (continuous assessment) two tests take place, from which 50% of points can be obtained, and from the oral exam alike 50% can be obtained. Evaluation: A ... at least 90%, B ... at least 80%, C ... at least 70%, D ... at least 60%, E ... at least 50%, FX ... less than 50% .

Learning outcomes:
Acquired knowledge of basic areas of graph theory, overview of used objects and properties, understanding of important statements and methods, knowledge of possible applications and the ability to formulate and solve problems in this area.

Brief outline of the course:
- (week 1) Introduction to graphs (graph relations, graph operations, special graph classes)
- (week 2-3) Connectivity and distance in graphs (connectedness of vertices, eccentricity, incidence matrix)
- (week 4) (Spanning) Trees (trees isomorphism)
- (week 5-6) Connectivity in graphs (vertex and edge k-connectedness)
- (week (7-8) Independence and coverings (independent set, matching, vertex and edge covering)
- (week 9-10) Extremal graph theory (Ramsey numbers, Turán graphs)
- (week 11-13) Graph colorings (vertex coloring, chromatic polynomial, edge coloring)
- (week 14) Directed graphs (strong/weak connectedness, tounaments, acyclic graphs)

Recommended literature:
1. A. Bondy, U.S.R. Murty, Graph theory, Springer, 2008
2. G. Chartrand, L. Lesniak, P. Zhang, Graphs and digraphs, CRC Press, 2011
3. R. Diestel, Graph Theory, Springer, 2017
4. D. West, Introduction to Graph Theory, Pearson, 2001

Course language:
Slovak

Notes:

Course assessment
Total number of assessed students: 209

A	B	C	D	E	FX
14.83	12.44	24.4	24.88	18.18	5.26

Provides: RNDr. Igor Fabrici, Dr. rer. nat.

Date of last modification: 16.04.2022

Approved: doc. PhDr. Beata Gajdošová, PhD., doc. RNDr. Stanislav Lukáč, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Science	
Course ID: ÚMV/ DSMc/10	**Course name:** Discrete mathematics III

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:

Course level: I.

Prerequisities: ÚMV/DSMb/10

Conditions for course completion:
To complete the course, it is necessary to demonstrate the ability to formulate definitions and statements from the lectured material, to understand the relationship between them, to demonstrate the proofs of statements and solve selected problems based on the presented areas of graph theory. The evaluation is given on the basis of semester assessment, activity in exercises and the result of an exam consisting of a final test and an oral part. The semester assessment takes the form of two written tests (focusing on exercises related to the lectured material) during the semester; a maximum of 25 points can be obtained for each of them. A maximum of 50 points can be obtained for the final test and a maximum of 25 points for the oral part of the exam (consisting of two theoretical questions). During the semester, each student can get a maximum of 10 bonus points for the active approach presented at the seminars on the subject.
The summary evaluation is calculated by the formula max {max {a, b} + c, a + b + c / 2} + d + e, where a resp. b is the number of points obtained from the semester tests, c is the number of points from the final test, d is the number of points for the oral part of the exam, and e are points for activity at the seminars. To pass the exam, it is necessary to obtain a total of at least 50 points (otherwise the exam is evaluated by FX), while the rating E is given in the case of points 51-59, D in the case of 60-69, C in the case of 70-79, B in the case of 80-89 and A in the case of more than 90 points.

Learning outcomes:
After completing the course, the student is acquainted (following the prerequisity subject Discrete Mathematics I and II) with other core topics and results of graph theory, which will give the comprehensive insight and knowledge of this area of mathematics.

Brief outline of the course:
Week 1 and 2: Eulerian and hamiltonian graphs.
Week 3 and 4: Measures of connectivity in graphs, Menger theorem and its corollaries.
Week 5: Perfect matchings, Tutte theorem.
Week 6 and 7: Planar graphs and their basic properties, Euler formula and its corollaries.
Week 8: Characterization of planar graphs, theorem of Kuratowski.
Week 9: Structural properties of planar and polyhedral graphs.
Week 10: Chromaticity of planar graphs.
Week 11: Measures of graph nonplanarity I - crossing number and its estimates, crossing lemma.

Week 12: Measures of graph nonplanarity II - the genus of graph, Eulerova theorem for embedded graphs, chromaticity of embedded graphs.
Week 13: Edge colorings, Vizing theorem

Recommended literature:

D.B. West: Introduction to graph theory (2nd edition), Prentice Hall 2001
A. Bondy and U.S.R. Murty: Graph theory, Springer-Verlag 2008
G. Chartrand, L. Lesniak, and P. Zhang, Graphs and digraphs, CRC Press 2011
R. Diestel: Graph Theory (4th edition), Springer-Verlag 2010

Course language:
Slovak or English

Notes:

Course assessment
Total number of assessed students: 81

A	B	C	D	E	FX
14.81	30.86	16.05	24.69	13.58	0.0

Provides: prof. RNDr. Tomáš Madaras, PhD.

Date of last modification: 16.04.2022

Approved: doc. PhDr. Beata Gajdošová, PhD., doc. RNDr. Stanislav Lukáč, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: KPPaPZ/PDZ/09	**Course name:** Drug Addiction Prevention

Course type, scope and the method:
Course type: Lecture / Practice
Recommended course-load (hours):
Per week: 2 / 1 **Per study period:** 28 / 14
Course method: present

Number of ECTS credits: 4

Recommended semester/trimester of the course: 3., 5.

Course level: I.

Prerequisities:

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

Learning outcomes:
The student understands the laws of the research data based prevention of risk behavior, can describe and explain the determinants of risk behavior as well as protective and risk factors for substance use. Understands and adequately interprets the theory explaining the background of substance and non-substance addictions.
The student is also able to state and classify the types and forms of prevention, strategies and approaches in prevention, can distinguish effective strategies from ineffective ones.
The student is able to apply the learned rules, procedures and competencies of the lecturer in the prevention of drug addiction in terms of working with a group of students.

Brief outline of the course:
Psychological, pedagogical-psychological, medical and legal-forensic aspects of substance abuse prevention
Prevention of substance use based on risk and resilience
Primary, secondary and tertiary prevention of substance use
Universal, selective and indicated prevention of substance abuse
Effective substance prevention strategies based on research data
School substance abuse prevention programs
Preparation and implementation of components of effective programs for the prevention of substance abuse in school practice.

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

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

Course language:
slovak (SS), english (WS)

Notes:
The course is also offered in English (in the summer semester) within the Virtual Academic Mobility Program (VMP) and listed in the databank of the International Consortium of Universities for Drug Demand Reduction (ICUDDR). The course is primarily intended for students of psychology, education and social work.

Course assessment
Total number of assessed students: 259

A	B	C	D	E	FX
52.12	19.69	14.29	9.65	2.7	1.54

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

Date of last modification: 25.07.2022

Approved: doc. PhDr. Beata Gajdošová, PhD., doc. RNDr. Stanislav Lukáč, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: KPPaPZ/PUDB/15	**Course name:** Drug Addiction Prevention in University Students

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:
1st of the evaluation: active participation in the training part (30p). 2nd part of the evaluation: active participation in workshops (20p). In total, students can get 50p and the final evaluation is as follows: 50 - 45: A; 44 - 40: B; 39-35: C; 34-30: D; 29 - 25: E 24 and less: FX. Detailed information in the electronic bulletin board of the course in AIS2. The teaching of the subject will be realized by a combined method.

Learning outcomes:
The student understands the principals of research data based prevention of risk behavior, can describe and explain the determinants of risk behavior as well as protective and risk factors for substance use. Student understands and adequately interprets the theory explaining the background of substance and non-substance addictions.
The student is also able to state and classify the types and forms of prevention, strategies and approaches in prevention, can distinguish effective strategies from ineffective ones.
The student is able to adequately interpret their experience with preventive activities in the group and assume their positive effect as well as limitations and threats.

Brief outline of the course:

Recommended literature:
Orosová, O. a kol. (2012). Základy prevencie užívania drog a problematického používania internetu v školskej praxi. Košice: UPJŠ.
Sloboda, Z., & Bukoski, J. (Eds.). (2006). Handbook of Drug Abuse Prevention: Theory, Science, and Practice. New York: Springer.
National and international scientific journals.

Course language:
slovak

Notes:

Course assessment
Total number of assessed students: 562

A	B	C	D	E	FX
76.87	16.9	4.09	1.6	0.18	0.36

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

Date of last modification: 24.06.2022

Approved: doc. PhDr. Beata Gajdošová, PhD., doc. RNDr. Stanislav Lukáč, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Science	
Course ID: ÚINF/ EDS/15	**Course name:** Educational software

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 quiz (with various types of quiz 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: 77

A	B	C	D	E	FX
68.83	15.58	9.09	0.0	6.49	0.0

Provides: doc. RNDr. Ľubomír Šnajder, PhD.

Date of last modification: 01.08.2021

Approved: doc. PhDr. Beata Gajdošová, PhD., doc. RNDr. Stanislav Lukáč, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: CJP/ PFAJ4/07	**Course name:** English Language of Natural Science

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:
Active participation in class and completed homework assignments. Students are allowed to miss 2 classes at the most
Continuous assessment:
1 credit test taken presumably in weeks 6/7
1 project (quiz on the topic of the student´s field of study) 25% of the continuous assessment
5 LMS quizzes (25% of the continuous assessment)
In order to be admitted to the final exam, a student has to score at least 65 % from the continuous assessment
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 and academic purposes and development of students' linguistic competence. Students obtain knowledge of selected phonological, lexical and syntactic aspects of professional English, improve their pragmatic competence - students can effectively use the language for a given purpose, and acquire presentation skills at B2 level (CEFR) with focus on terminology of natural sciences.

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:

lms.upjs.sk - e-kurz Odborný anglický jazyk pre prírodné vedy.
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.
P. Fitzgerald : English for ICT studies. Garnet Publishing, 2011.
https://worldservice/learningenglish, https://spectator.sme.sk
www.isllibrary.com
linguahouse.com

Course language:
English, level B2 (CEFR)

Notes:

Course assessment
Total number of assessed students: 3056

A	B	C	D	E	FX
38.29	26.18	16.46	9.55	7.46	2.06

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

Date of last modification: 05.02.2023

Approved: doc. PhDr. Beata Gajdošová, PhD., doc. RNDr. Stanislav Lukáč, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚBEV/ETOP/08	**Course name:** Etology

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

Number of ECTS credits: 6

Recommended semester/trimester of the course: 1., 3., 5.

Course level: I., II.

Prerequisities:

Conditions for course completion:
Thematical presentation
Oral examination

Learning outcomes:
To teach the students to know and to be aware of the importance of the behavioural aspect in biological sciences

Brief outline of the course:
History and development of ethology. Ethological methods. The innate forms of behaviour. The simplest forms of learning – conditioning and instrumental learning. Higher form of learning. Social behaviour. Sexual behaviour. Play behaviour. Biological rhythms. Orientation in space and animal migrations. Communication systems of animals. Emotions. Aggression in animal and human behaviour. Abnormal forms of behaviour

Recommended literature:
1.J.B.Balcome: Second nature. The inner life of animals. Palgrave.McMillan,2010.
2. T.J.Carew: Behavioral Neurobiology. Sinauer Assoc., Sunderland, 2000.

Course language:

Notes:

Course assessment
Total number of assessed students: 657

A	B	C	D	E	FX
34.86	26.64	26.03	9.28	2.89	0.3

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

Date of last modification: 08.04.2022

Approved: doc. PhDr. Beata Gajdošová, PhD., doc. RNDr. Stanislav Lukáč, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚMV/ FRPa/19	**Course name:** Function of real variable

Course type, scope and the method:
Course type: Lecture / Practice
Recommended course-load (hours):
Per week: 2 / 4 **Per study period:** 28 / 56
Course method: present

Number of ECTS credits: 7

Recommended semester/trimester of the course: 1.

Course level: I.

Prerequisities:

Conditions for course completion:
Continuous assessment of student's work during the semester (submission of compulsory homework, writing three tests). Final test and oral discussion on the topics of the subject.

Learning outcomes:
The course provides an introductory knowledge on basic tools of differential and integral calculus of real functions of one real variable, and a development of certain calculation skills in the field.

Brief outline of the course:
1. Basics of mathematical logic and notations (1 week)
2. Real functions - basic notions, operation, graphs and their transformations (2 weeks)
3. Continuity of a real-valued function (1 week)
4. Derivative of a function using the geometric concepts, rules of differentiation (2 weeks)
5. Basic of differential calculus - relations with monotonicity and convexity, extremas, using in optimisation, geometric and physics tasks (2 weeks)
6. Primitive function, methods of their finding (3 weeks)
7. Newton definite integral - methods of its computation, using in geometric and physics tasks (2 weeks)

Recommended literature:
1. Kulcsár, Š. - Kulcsárová, O.: Zbierka úloh z matematickej analýzy I., UPJŠ, 2002.
2. Kulcsár, Š. - Kulcsárová, O.: Zbierka úloh z matematickej analýzy II., UPJŠ, 2003.
3. Hutník, O. - Kulcsár, Š. - Kulcsárová, O. - Mojsej, I.: Zbierka úloh z matematickej analýzy III., UPJŠ, 2011.
4. Demidovič, B. P.: Sbírka úloh a cvičení z matematické analýzy, Fragment, Praha, 2003.
5. Brannan, D.: A First Course in Mathematical Analysis, Cambridge University Press, Cambridge 2006.
6. Bruckner, A. M., Bruckner J. B., Thomson, B. S.: Real Analysis, Second Edition, ClassicalRealAnalysis.com, 2008.
7. Zorich, V. A.: Mathematical Analysis I, Springer-Verlag 2002.

Course language:
Slovak

Notes:

Course assessment
Total number of assessed students: 757

A	B	C	D	E	FX
8.98	8.45	17.17	21.53	32.76	11.1

Provides: doc. RNDr. Ondrej Hutník, PhD., RNDr. Lenka Halčinová, PhD., RNDr. Jana Borzová, PhD.

Date of last modification: 16.04.2022

Approved: doc. PhDr. Beata Gajdošová, PhD., doc. RNDr. Stanislav Lukáč, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚMV/ GEO2a/15	**Course name:** Geometry I

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: 5

Recommended semester/trimester of the course: 6.

Course level: I.

Prerequisities:

Conditions for course completion:
Two written tests.
Written and oral examinations
For continuous evaluation - max. 40 points
for the written test - max. 20 points
for oral exams - max. 40 points)
Final score:
A: 100-91 points, B: 90-81, C: 80-71, D: 70-61, E: 60-51, F: less than 51 points
Note: In each of the student needs to have at least 50% max. number of points

Learning outcomes:
Mastering the basics of the theory of linear and quadratic formations in the Affine and Euclidean space, mastering the methods of solving problems in analytical geometry in relation to the secondary school curriculum.

Brief outline of the course:
1. Affine n-dimensional space - definition.
2. Linear coordinate system.
3. Subspaces, the parametric and non-parametric representation.
4. The relative position of the two subspaces.
5. Bundles of lines.
6. The arrangement of points on the line.
7. Convex sets. Changing the system of linear coordinates.
8. Euclidean space - definition of (scalar and outer product).
9. Euclidean distances and deviations subspaces.
10. The rate of the size of convex sets. Triangle and trigonometric theorems.
11.-12. Conic and line.

Recommended literature:
1. M.Sekanina, L.Boček, M.Kočandrle, J.Šedivý: Geometrie 1, SPN Praha 1986
2. M.Hejný, V.Zaťko, P.Kršňák: Geometria 1, SPN Bratislava 1985
3. J.Eliaš, J.Horváth, J.Kajan: Zbierka úloh z vyššej matematiky 1, Alfa Bratislava
4. M.Trenkler: Materiály uvedené na Internete.

Course language:
Slovak

Notes:

Course assessment
Total number of assessed students: 167

A	B	C	D	E	FX
19.16	17.37	22.75	17.96	13.77	8.98

Provides: doc. RNDr. Dušan Šveda, CSc., RNDr. Monika Krišáková

Date of last modification: 19.09.2021

Approved: doc. PhDr. Beata Gajdošová, PhD., doc. RNDr. Stanislav Lukáč, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Science	
Course ID: KGER/ NJPS1/06	**Course name:** German Language for Students of Psychology I

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

Number of ECTS credits: 2

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

Course level: I.

Prerequisities:

Conditions for course completion:
1 written test during the semester (test, min. 60 %), seminar work (verification method presentation of the assigned topic of the seminar min. 60 %)

Learning outcomes:
Student develops and consolidates his language competencies, is able to communicate in written and oral form at the level of advanced language knowledge and skills, which it applies in the field of study – psychology. Student presents the results of his seminar work.

Brief outline of the course:
1. Introduction to professional language
2. Communication in private and professional life
3. Written communication (CV, job application, complaint)
4. Macrostructure of written documents
5. Our world on the threshold of the third millennium (environment, scientific progress)
6. School system in our country and in Germany
7. Universities in our country and in Germany. Pavol Jozef Šafárik University in Košice
8. Mass media communication and public opinion. Media diversity. Advertising as a means of manipulation
9. Family and personal happiness
10. Multicultural society
11. Prejudices and stereotypes in Slovak and German culture
12. Department of Psychology. My profession

Recommended literature:
1. DITTELOVÁ, E. - ZAVATČANOVÁ, M.: Einführung in das Studium der deutschen Fachsprache. Košice: ES UPJŠ, 2000
2. KNAACK, W. - KUHN, M. - LAUDEL, H. - WALLRABENSTEIN, W.: Reden, Schreiben, Rechnen. Hamburg: Xenos, 1984
3. KOZMOVÁ, R. - BERGLOVÁ, E. - FORMÁNKOVÁ, E. - MAŠEK, M.: Moderná gramatika nemčiny. Bratislava: Fraus, 2003, 312 s.
4. FAST, J.: Körpersprache. Reinberg bei Hamburg: Rowohlt, 1983

5. ILLICHMANN, A.: Arbeitsbuch Psychologie für höhere Lehranstalten. Wien: Verlag Hölder - Pichler - Tempsky, 2006, 259 S.
6. Psychologie heute. Verlagsgruppe Beltz, Julius Beltz GmbH & Co. KG, Werderstr. 10
7. KRENN, W. - PUCHTA, H.: Motive Kompaktkurs D a F, Hueber 2020.

Course language:
German, Slovak

Notes:

Course assessment
Total number of assessed students: 131

A	B	C	D	E	FX
59.54	29.77	5.34	1.53	2.29	1.53

Provides: Mgr. Ulrika Strömplová, PhD.

Date of last modification: 12.07.2022

Approved: doc. PhDr. Beata Gajdošová, PhD., doc. RNDr. Stanislav Lukáč, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Science	
Course ID: KGER/ NJPS2/06	**Course name:** German Language for Students of Psychology II

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

Number of ECTS credits: 2

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

Course level: I.

Prerequisities:

Conditions for course completion:
1 written test during the semester (test, min. 60 %), seminar work (verification method presentation of the assigned topic of the seminar min. 60 %)

Learning outcomes:
Student develops and consolidates his language competencies, is able to communicate in written and oral form at the level of advanced language knowledge and skills, which he applies in the field of study – psychology. He presents the results of his seminar work.

Brief outline of the course:
1. Introduction to professional language
2. Communication in private and professional life
3. Written communication (CV, job application, complaint)
4. Macrostructure of written documents
5. Our world on the threshold of the third millennium (environment, scientific progress)
6. School system in our country and in Germany
7. Universities in our country and in Germany. Pavol Jozef Šafárik University in Košice
8. Mass media communication and public opinion. Media diversity. Advertising as a means of manipulation
9. Family and personal happiness
10. Multicultural society
11. Prejudices and stereotypes in Slovak and German culture
12. Department of Psychology. My profession

Recommended literature:
1. DITTELOVÁ, E. - ZAVATČANOVÁ, M.: Einführung in das Studium der deutschen Fachsprache. Košice: ES UPJŠ, 2000
2. KNAACK, W. - KUHN, M. - LAUDEL, H. - WALLRABENSTEIN, W.: Reden, Schreiben, Rechnen. Hamburg: Xenos, 1984
3. KOZMOVÁ, R. - BERGLOVÁ, E. - FORMÁNKOVÁ, E. - MAŠEK, M.: Moderná gramatika nemčiny. Bratislava: Fraus, 2003, 312 s.
4. FAST, J.: Körpersprache. Reinberg bei Hamburg: Rowohlt, 1983

5. ILLICHMANN, A.: Arbeitsbuch Psychologie für höhere Lehranstalten. Wien: Verlag Hölder - Pichler - Tempsky, 2006, 259 S.
6. Psychologie heute. Verlagsgruppe Beltz, Julius Beltz GmbH & Co. KG, Werderstr. 10
7. KRENN, W. - PUCHTA, H.: Motive Kompaktkurs D a F, Hueber 2020

Course language:
German, Slovak

Notes:

Course assessment
Total number of assessed students: 154

A	B	C	D	E	FX
57.79	25.97	6.49	3.25	5.19	1.3

Provides: Mgr. Ulrika Strömplová, PhD.

Date of last modification: 12.07.2022

Approved: doc. PhDr. Beata Gajdošová, PhD., doc. RNDr. Stanislav Lukáč, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Science	
Course ID: KF/ FMOPs/15	**Course name:** History of Philosophy (for Students of Psychology)

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

Number of ECTS credits: 2

Recommended semester/trimester of the course: 1.

Course level: I.

Prerequisities:

Conditions for course completion:
Rating
Conditions of continuous control and awarding of assessment:
Active participation in teaching, the student has assignments during the semester - 2 assignments (Electronic subject bulletin board).
During the semester, students take a knowledge test and a final knowledge test.
If the teaching is carried out in a classical way - face-to-face form of teaching. In the case of the distance form of study, emphasis is placed on independent study and written processing of assignments (seminar work as a project for the entire semester, submission of partial outputs by the specified date. Electronic bulletin board). The condition for registering for the exam is to pass the final written test on the basic problems that are connected with the development of philosophical thinking from Thales to Nietzsche.
Conditions for awarding the exam: only after successfully passing the knowledge test - the final test, the student can take the written exam. After its successful implementation, the student will receive credits for the subject.

Learning outcomes:
Students will gain an understanding of the fundamental issues in the history of philosophy from Thales to Nietzsche. The discipline presents an overview of more specialized philosophical topics and works that influenced the development of disciplines such as psychology and social work. Students will acquire basic terminology from philosophy by studying source texts of periods of the history of philosophy in relation to the discipline of their field of study. The student acquires the ability for a deeper understanding of historical events, where the emphasis is placed on critical thinking with an emphasis on self-knowledge.
The information is updated annually in the subject's electronic message board in AIS2 or in the MS Teams environment.

Brief outline of the course:
Ancient philosophy - origin and development of ancient Greek philosophy • Classical Greek philosophy • Hellenistic philosophy • Medieval philosophy – origin and formation • Renaissance philosophy • Modern philosophy – founders and great systems • Modern empirical-sensualist

philosophy • French Enlightenment philosophy • German classical philosophy • Philosophy 19th century after Hegel

Recommended literature:

Anzenbacher, A.: Introduction to philosophy. Transl. K. Sprunk. Prague: SPN 1990. Hadot, P.: What is ancient philosophy. Transl. M. Křížová. Prague: Vyšehrad 2017. Leško, V.: History of Philosophy I. From Thales to Galileo. Prešov 2007. Leško, V.: History of Philosophy II. From Bacon to Nietzsche. Košice 2008. Patočka, J.: Platón. Prague 1991. Patočka, J.: Aristotelés. Prague 1994. Anthology of the works of philosophers. Pre-Socratics and Plato. Compiled by J. Martinek. Bratislava: Epoch 1970. Pre-Socratics and Plato. An anthology of the works of philosophers. Remainder J. Martinka. Bratislava: Iris 1998. Anthology of the works of philosophers. From Aristotle to Plotinus. Remainder J. Martinka. Bratislava: Pravda 1972. From Aristotle to Plotinus. An anthology of the works of philosophers. Remainder J. Martinka. Bratislava: Iris 2006.

Course language:

Notes:

Course assessment

Total number of assessed students: 2052

A	B	C	D	E	FX
30.17	20.37	17.93	13.84	14.42	3.27

Provides: PhDr. Katarína Mayerová, PhD.

Date of last modification: 23.08.2022

Approved: doc. PhDr. Beata Gajdošová, PhD., doc. RNDr. Stanislav Lukáč, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Science	
Course ID: KF/ DF2p/03	**Course name:** History of Philosophy 2 (General Introduction)

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:
The condition for awarding the evaluation will be the active approach of students to fulfilling their study obligations, independent work with selected philosophical texts in the library, active participation and creative work in seminars. In connection with the possibility of interrupting face-to-face teaching, there will be greater demands on the student's independent study and the processing of professional literature, which will be continuously evaluated, using e-mail to communicate with the teacher, at the end of the semester, preparing and handing in the semester's seminar work by the set date, or also passing a knowledge test - about which the students will be informed in advance in sufficient time.

Learning outcomes:
Deepening knowledge about the development of spiritual culture in the European spiritual space and pointing out the most important sources of this development: (1) ancient philosophy and science, (2) Christianity as the second pillar of Europe, (3) the Renaissance and the emergence of modern science (mathematical natural science) as the third pillar of European development. Development of critical thinking skills, active position in professional (ethics of science), public and private life (ethics of responsibility). Transcending narrowly specialized views of the world.

Brief outline of the course:

Recommended literature:
Antológia z diel filozofov. Predsokratovci a Platon. Zost. J. Martinka. Bratislava: Nakladateľstvo Epocha 1970; Antológia z diel filozofov. Od Aristotela po Plotina. Zost. J. Martinka. Bratislava: Nakladateľstvo Pravda 1972. Predsokratovci a Platon. Antológia z diel filozofov. Zost. J. Martinka. Bratislava: Vydavateľstvo Iris 1998. Od Aristotela po Plotina. Antológia z diel filozofov. Zost. J. Martinka. Bratislava: Vydavateľstvo IRIS 2006. Anzenbacher,A.: Úvod do filozofie. Prel. K. Šprunk. Praha: SPN 1990. Barthes, R.: Mytologie. Prel. J. Fulka. Praha: Dokořán 2004. Bělohradský, V.: Společnost nevolnosti. Eseje z pozdější doby. Praha: SLON 2009. Benjamin, W.: Iluminácie. Prel. A. Bžoch; J. Truhlářová. Bratislava: Kalligram 1999. Borges, J. L.: Borges ústne. Prednášky a eseje. Prel. P. Šišmišová. Bratislava: Kalligram 2005. Cassirer, E.: Esej o človeku. Prel. J. Piaček. Bratislava: Nakladateľstvo Pravda 1977. Debord, G.: Společnost spektáklu. Prel. J. Fulka; P. Siostrzonek. Praha: Nakladatelství :intu: 2007. Farkašová, E.: Na rube plátna. Bratislava: Vydavateľstvo Spolku slovenských spisovateľov 2013.

Feyerabend, P.: Věda jako umění. Prel. P. Kurka. Praha: JEŽEK 2004. Freud, S.: Nepokojenost v kultuře. Prel. L. Hošek. Praha: Hynek 1998. Hadot, P.: Co je antická filosofie. Prel. M. Křížová. Praha: Vyšehrad 2017. Hippokratés: Vybrané spisy. Prel. H. Bartoš; J. Černá; J. Daneš; S. Fischerová. Praha: OIKOYMENH 2012. Husserl, E.: Filosofie jako přísná věda. Prel. A. Novák. Praha: Togga 2013. Kuhn, T. S.: Štruktúra vedeckých revolúcií. Prel. J. Viceník. Bratislava: Nakladateľstvo Pravda 1981. Leško,V., Mihina, F. a kol.: Dejiny filozofie. Bratislava. Iris 1993 Leško, V.: Dejiny filozofie I. Od Tálesa po Galileiho. Prešov: v. n. 2004, 2007. Leško, V.: Dejiny filozofie II. Od Bacona po Nietzscheho. Prešov: v. n. 2008. McLuhan, M.: Jak rozumět médiím. Extenze člověka. Prel. M. Calda. Praha: Mladá fronta 2011. Patočka, J.: Duchovní člověk a intelektuál. In: Patočka, J.: Péče o duši III. Praha: OIKOYMENH 2002, s. 355 - 371. Popper, K. R.: Otevřená společnost a její nepřátelé I. Platónovo zaříkávání. Prel. M. Calda; J. Moural. Praha: OIKOYMENH 2011. Sloterdijk, P.: Kritika cynického rozumu. Prel. M. Szabó. Bratislava: Kalligram 2013. Störig,H .J.:Malé dějiny filozofie. Prel. P. Rezek. Praha: Zvon 1991. Wittgenstein, L.: Filozofické skúmania. Prel. F. Novosád. Bratislava: Nakladateľstvo Pravda 1979. Wright von, H. G.: Humanizmus ako životný postoj. Prel. M. Žitný. Kalligram 2001. Žižek, S.: Mor fantázií. Prel. M. Gálisová; V. Gális. Bratislava: Kalligram 1998.

Course language:

Notes:

Course assessment
Total number of assessed students: 746

A	B	C	D	E	FX
60.59	14.21	12.6	8.58	3.35	0.67

Provides: doc. PhDr. Peter Nezník, CSc.

Date of last modification: 11.07.2022

Approved: doc. PhDr. Beata Gajdošová, PhD., doc. RNDr. Stanislav Lukáč, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: KPE/ INP/17	**Course name:** Inclusive Pedagogy

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: 85

A	B	C	D	E	FX
65.88	25.88	4.71	1.18	2.35	0.0

Provides: PaedDr. Michal Novocký, PhD.

Date of last modification: 20.06.2022

Approved: doc. PhDr. Beata Gajdošová, PhD., doc. RNDr. Stanislav Lukáč, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚMV/ IPU/10	**Course name:** Informatics course for teachers of mathematics

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: 6.

Course level: I.

Prerequisities:

Conditions for course completion:
To master the use of basic algorithmic structures, to gain the ability to write algorithms for the construction of geometric shapes in the environment of turtle geometry. To be able to assess the possibilities of using interactive applications available on the Internet and to design procedures for the application of selected applications in the teaching of mathematics. To learn to use numerical and graphical means of a spreadsheet in data analysis, creating models to solve various mathematical problems.
Evaluation:
Algorithm creation paper - 6 b
Elaboration of dynamic constructions for solving geometric problems - 3 b
Seminar work on the use of interactive applications - 7 b + 3 b
Poll - 1 b
Tasks for creating numerical and graphical models in a spreadsheet - 4 b
Classification scale:
A: 91 % - 100 %,
B: 81 % - 90 %,
C: 71 % - 80 %,
D: 61 % - 70 %,
E: 51 % - 60 %,
FX: 0 % - 50 %.

Learning outcomes:
Knowledge and skills from the basics of working with standard information and communication technologies, which provide a variety of opportunities to support mathematics education. Skills to use basic commands of turtle geometry for generalization and writing algorithms for construction of geometric shapes. To master the basic principles of creating structures in the environment of dynamic geometry. Acquire creative and evaluative skills to plan and prepare a meaningful integration of modern technologies into mathematics education.

Brief outline of the course:
1-5: Use of basic algorithmic constructions in turtle geometry for the construction of geometric shapes,

6th - 7th: Basics of work in the environment of dynamic geometry, creation of dynamic constructions,
8th - 9th: Interactive teaching applications available on the Internet, selected possibilities of using digital technologies in mathematics education.
10. - 12 .: Use of numerical and graphical representations of data and modeling in a spreadsheet environment in solving mathematical problems.

Recommended literature:

Brdička, B.: Role internetu ve vzdělávaní, 2003, http://it.pedf.cuni.cz/~bobr/role/econt.htm.
Lukáč, S. a kol.: IKT vo vyučovaní matematiky, Asociácia projektu Infovek 2002.
Vaníček, J.: Počítačové kognitivní technologie ve výuce geometrie. Pedagogická fakulta Univerzity Karlovy, 2009.
Šťastný, Z.: Matematické a statistické výpočty v Microsoft Excelu, Computer Press 2001.

Course language:
Slovak

Notes:

Course assessment
Total number of assessed students: 108

A	B	C	D	E	FX
50.93	25.93	15.74	5.56	1.85	0.0

Provides: doc. RNDr. Stanislav Lukáč, PhD.

Date of last modification: 12.01.2022

Approved: doc. PhDr. Beata Gajdošová, PhD., doc. RNDr. Stanislav Lukáč, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Science	
Course ID: Dek. PF UPJŠ/USPV/13	**Course name:** Introduction 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: 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: 2012

abs	n
88.37	11.63

Provides: doc. RNDr. Marián Kireš, PhD.
Date of last modification: 30.08.2022
Approved: doc. PhDr. Beata Gajdošová, PhD., doc. RNDr. Stanislav Lukáč, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Science	
Course ID: ÚMV/ UAD/10	**Course name:** Introduction to data analysis

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: 3.

Course level: I.

Prerequisities:

Conditions for course completion:
Test (40p) and individual project work (20p).
Oral presentation of the individual project work (5p).
At least 50% must be obtained from each part.
Final evaluation: ≥90% A; ≥80% B; ≥70% C; ≥60% D; ≥50% E; <50% FX.

Learning outcomes:
To know the basic purpose of statistical data analysis, its methods and statistical thinking and understand its importance for science and practical life.
To understand elementary statistical concepts.
To gain experience in handling real data using spreadsheet Excel and statistical software R.

Brief outline of the course:
1. Introduction (the basic philosophy and aim of statistical data analysis, descriptive and inductive statistics)
2. Collecting Data (types of data, random sample, randomized experiment)
3. Handling Data (visualization, summarizing – measures of center, measures of variability, skewness and kurtosis, empirical rule) - 5 weeks
4. Relationships in data (introduction to regression and correlation) - 4 weeks
5. Statistical inference (elementary view into estimation and testing hypothesis) - 2 weeks

Recommended literature:
1. Anděl, J.: Statistické metody, Matfyzpress, Praha, 1998 (in Czech)
2. Rossman, A.J. et al.: Workshop Statistics: Discovery with Data and Fathom, 3rd ed. Wiley, 2009
3. Utts, J.M.: Seeing Through Statistics, 4th ed., Thomson Brooks/Cole, Belmont, 2014
4. Utts, J.M., Heckard R.F.: Mind on Statistics, 6th ed. Thomson Brooks/Cole, Belmont, 2021
5. Zvára, K., Štěpán, J.: Pravděpodobnost a matematická statistika, Matfyzpress, Praha, 2001 (in Czech)

Course language:
Slovak

Notes:

Course assessment
Total number of assessed students: 390

A	B	C	D	E	FX
37.44	25.13	26.41	10.0	0.51	0.51

Provides: doc. RNDr. Martina Hančová, PhD.

Date of last modification: 13.09.2021

Approved: doc. PhDr. Beata Gajdošová, PhD., doc. RNDr. Stanislav Lukáč, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Science	
Course ID: ÚMV/ UDM/10	**Course name:** Introduction to mathematics

Course type, scope and the method:
Course type: Lecture / Practice
Recommended course-load (hours):
Per week: 1 / 2 **Per study period:** 14 / 28
Course method: present

Number of ECTS credits: 3

Recommended semester/trimester of the course: 1.

Course level: I.

Prerequisities:

Conditions for course completion:
Two tests during the semester.

Learning outcomes:
Repetition of problematic sections of the secondary mathematics by interesting tasks. Explanation of basic terms, properties and proof methods used in various areas of mathematics.

Brief outline of the course:
Simplification of algebraic expressions. Real number, absolute value of real numbers; equations and inequalities. Irrational equations and inequalities. Concept of function. Linear and quadratic function; equations and inequalities. Exponencial and logarithmic function; equations and inequalities. Goniometric functions; equations and inequalities. Complex numbers.

Recommended literature:
1. V. Medek - L. Mišík - T. Šalát: REPETITÓRIUM STREDOŠKOLSKEJ MATEMATIKY, Alfa Bratislava, 1976
2. S. Richtárová - D. Kyselová: MATEMATIKA (pomôcka pre maturantov a uchádzačov o štúdium na vysokých školách), Enigma Nitra, 1998
3. O. Hudec – Z. Kimáková – E. Švidroňová: PRÍKLADY Z MATEMATIKY (pre uchádzačov o štúdium na TU v Košiciach), EF TU Košice, 1999
4. F. Peller – V. Šáner – J. Eliáš – Ľ. Pinda: MATEMATIKA – Podklady na prijímacie testy pre uchádzačov o štúdium, Ekonóm Bratislava, 2000/2001
5. F. Vesajda – F. Talafous: ZBIERKA ÚLOH Z MATEMATIKY pre stredné všeobecnovzdelávacie školy a gymnáziá, SPN Bratislava, 1973
6. J. Lukášová – O. Odvárko – B. Riečan – J. Šedivý – J. Vyšín: ÚLOHY Z MATEMATIKY pre 4. ročník gymnázia, SPN Bratislava, 1976

Course language:
Slovak

Notes:

Course assessment
Total number of assessed students: 508

A	B	C	D	E	FX
23.62	20.67	17.52	15.94	10.83	11.42

Provides: RNDr. Veronika Hubeňáková, PhD., RNDr. Lucia Janičková, PhD., RNDr. Monika Krišáková

Date of last modification: 24.01.2022

Approved: doc. PhDr. Beata Gajdošová, PhD., doc. RNDr. Stanislav Lukáč, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: KPPaPZ/USMM/19	**Course name:** Introduction to statistical methods for inter-disciplinary study program

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:
The assessment for this subject is based on a combination of interim evaluation and the final exam. Proportionally the interim evaluation represents 40% and the final exam 60% of the overall assessment. The subject may 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:
Students will acquires basic theoretical knowledge and understanding of descriptive and inductive statistics. They will also gain practical skills in creating databases, performing analyses and presenting data in available statistical program. The emphasis will be put on developing individual ability to work independently and to be able to apply acquired knowledge and skills in their own research.

Brief outline of the course:
Theoretical basics of statistical methods. Defining variables and creating databases. Graphical and numerical representation of data. Correlations between variables. Probability. Statistical significance and its determination. Statistical estimation and verification of hypotheses. Differential statistics.

Recommended literature:
1. FERJENČÍK, J.: Základy štatistických metód v sociálnych vedách. Košice: UPJŠ, 2006
2. FIELD, A.: Discovering Statistics using SPSS, London: Sage, 2005
3. HENDL, J.: Přehled statistických metod zpracování dat. Praha: Portál,2004

Course language:

Notes:

Course assessment
Total number of assessed students: 611

A	B	C	D	E	FX
9.0	15.22	19.15	23.08	24.39	9.17

Provides: Mgr. Jozef Benka, PhD.
Date of last modification: 24.06.2022
Approved: doc. PhDr. Beata Gajdošová, PhD., doc. RNDr. Stanislav Lukáč, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: KKF/ LJPS/07	**Course name:** Latin Language for Students of Psychology

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: 2., 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: 54

A	B	C	D	E	FX
33.33	25.93	18.52	12.96	5.56	3.7

Provides: prof. PhDr. František Šimon, CSc.

Date of last modification: 25.04.2021

Approved: doc. PhDr. Beata Gajdošová, PhD., doc. RNDr. Stanislav Lukáč, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚMV/LCO/10	**Course name:** Linear and integer programming

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:

Course level: I.

Prerequisities: ÚMV/ALGa/10

Conditions for course completion:
Continuous evaluation: a small test during each tutorial, two large tests, a project with real data and commercial software. Bonus points awarded for homeworks (formulation of proofs). A necessary condition for final exam is at least 50% of points from th semester. Final exam: demonstrate the understanding of the theory and ability of argumentation.

Learning outcomes:
Ability to formulate practical tasks in a form of a linear program. Proficiency in solving linear programs by several methods, also using software. Understanding of the underlying theory and ability of exact argumentation.

Brief outline of the course:
Formulation of linear and integer programs. Geometric solution. Simplex method, its correctness an finiteness. Duality and its economic interpretation. Dual and revised simplex method. Sensitivity analysis and parametric programming. Algorithms for integer programming: branch and bound, Gomory cuts. Computational complexity of LP and ILP. Solution of practical problems.

Recommended literature:
lms.upjs.sk - podklady k prednáškam a zadania úloh na cvičenia.
Plesník, Dupačová, Vlach: Lineárne programovanie, Alfa, Bratislava 1990
Ch. Papadimitriou – K. Steiglitz: Combinatorial Optimization: Algorithms and Complexity, 1984
R.J. Vanderbei, Linear Programming:Foundations and Extentions, Springer 2020, electronic version: http://www.princeton.edu/~rvdb/LPbook/

Course language:
Slovak

Notes:

Course assessment
Total number of assessed students: 152

A	B	C	D	E	FX
21.71	17.11	20.39	20.39	17.11	3.29

Provides: prof. RNDr. Katarína Cechlárová, DrSc., RNDr. Adam Marton
Date of last modification: 17.04.2022
Approved: doc. PhDr. Beata Gajdošová, PhD., doc. RNDr. Stanislav Lukáč, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚMV/LTM/10	**Course name:** Logic and set theory

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: 5.

Course level: I., II.

Prerequisities: ÚMV/MANb/19 or ÚMV/FRPb/19 or ÚMV/MAN2b/22

Conditions for course completion:
Exam

Learning outcomes:
To obtain a basic knowledge on the mathematical notion of an infinity. Analysis of the notion of a proof.

Brief outline of the course:
Set as a mathematical formularization of an infinity. Properties of the set of reals. Relations and mappings.
Finite and countable sets. Cardinality of continuum. Elementary cardinal arithmetics.
Sentential calculus, an axiomatization. Completness Theorem. Methods of proofs. Language of predicate calculus, examples. Axiomatizations of predicate calculus and the notion of a proof. Methods of proofs in predicate calculus.

Recommended literature:
L. Bukovský: Teória množín, ES UPJŠ, Košice, 1984.
L. Bukovský: Množiny a všeličo okolo nich, ES UPJŠ, Košice, 2005.
L. Bukovský, Úvod do matematickej logiky, elektronický učebný text.
A. Sochor: Klasická matematická logika, Karolinum, Praha, 2001.
E. Mendelson, Introduction to Mathematical Logic, van Nostrand 1964.

Course language:
Slovak

Notes:

Course assessment
Total number of assessed students: 270

A	B	C	D	E	FX
12.59	18.89	19.26	16.3	31.11	1.85

Provides: RNDr. Jaroslav Šupina, PhD., RNDr. Adam Marton

Date of last modification: 19.04.2022

Approved: doc. PhDr. Beata Gajdošová, PhD., doc. RNDr. Stanislav Lukáč, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚMV/ MAE/10	**Course name:** Macroeconomics

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:

Conditions for course completion:
The final mark is given based on the results of the tests written during the semester ("small" exams every week, two written exams checking the ability of computations) and oral exam, that evaluates the verbal argument about the studied models.

Learning outcomes:
The student understands the basic economic models and is able to use them to explain the real economic phenomena.

Brief outline of the course:
Basic macroekonomic notions: Gross domestic product, inflation, unemployment.. Analysis of godds markets. Financial markets. IS-LM model in closed economy. Open economy. IS-LM model in open economy. Models of labour market. Inflation and economic growth. High depth.

Recommended literature:
1. Olivier Blanchard, Alessia Amighini, Francesco Giavazzi, Macroeconomics, a European perspective, Pearson Education, 2010
2. N. Gregory Mankiw, Macroeconomics, 7th Edition, Harvard University, Worth Publishers 2009

Course language:
Slovak

Notes:

Course assessment
Total number of assessed students: 85

A	B	C	D	E	FX
25.88	14.12	21.18	20.0	12.94	5.88

Provides: prof. RNDr. Katarína Cechlárová, DrSc.

Date of last modification: 17.04.2022

Approved: doc. PhDr. Beata Gajdošová, PhD., doc. RNDr. Stanislav Lukáč, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Science	
Course ID: ÚMV/ MAN2c/10	**Course name:** Mathematical analysis III
Course type, scope and the method: **Course type:** Lecture / Practice **Recommended course-load (hours):** **Per week:** 2 / 2 **Per study period:** 28 / 28 **Course method:** present	
Number of ECTS credits: 5	
Recommended semester/trimester of the course: 3.	
Course level: I.	
Prerequisities: ÚMV/MANb/19	
Conditions for course completion: Two written test during semeter and activity student to practice. Final evaluation is given by continuous assessment, written and oral part of the exam.	
Learning outcomes: The purpose of the course is to provide introductory knowledge in Riemann integral calculus of real functions of one real variable and series of real functions. To develop computational skills in the field and extend the student ability to use this theory in applications. To teach the basic knowledge of the subject mater in the sylabus and develop the ability to use this theory.	
Brief outline of the course: Definite Riemann integral - definition, elementary properties, calculation methods, applications. Improper Riemann integral. Sequences and series of real functions – pointwise and uniform convergence, properties of the limit function and the sum. Power series, Taylor series and their applications.	
Recommended literature: 1. O. Hutník: Určitý integrál, UPJŠ, Košice, 2012 (in Slovak). 2. Brannan, D.: A First Course in Mathematical Analysis, Cambridge University Press, Cambridge 2006. 3. Bruckner, A. M. - Bruckner J. B. - Thomson, B. S.: Real Analysis, Second Edition, ClassicalRealAnalysis.com, 2008. 4. Zorich, V. A.: Mathematical Analysis I, Springer-Verlag 2002.	
Course language: Slovak	
Notes:	

Course assessment
Total number of assessed students: 213

A	B	C	D	E	FX
12.21	15.02	13.15	18.78	33.33	7.51

Provides: doc. RNDr. Ondrej Hutník, PhD., Mgr. Zuzana Ontkovičová, PhD.

Date of last modification: 21.11.2021

Approved: doc. PhDr. Beata Gajdošová, PhD., doc. RNDr. Stanislav Lukáč, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚMV/ MAN1d/10	**Course name:** Mathematical analysis IV

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:

Course level: I.

Prerequisities: ÚMV/MAN1c/22 or ÚMV/MAN2c/22

Conditions for course completion:
exam

Learning outcomes:
Understanding of the basic rigorous ideas of Mathematical Analysis.

Brief outline of the course:
Metric spaces. Complete, compact and connected sets. Rings sigma-rings. Measure. Outer measure. Lebesgue measure. Measurable sets. Measurable functions. Legesgue integral. Lebesgue integral versus Riemann integral. Calculations of Lebesgue integrals. Applications.

Recommended literature:
B. S. Thomson, J. B. Bruckner, A. M. Bruckner: Elementary Real Analysis, Prentice Hall, 2001.
A. M. Bruckner, J. B. Bruckner, B. S. Thomson: Real Analysis, Prentice Hall, 1997.
T. Neubrunn, B. Riečan: Miera a integrál, Veda, Bratislava, 1981.
B. Riečan, T. Neubrunn: Teória miery, Veda, Bratislava, 1992.
G. S. Nelson, A User-Friendly Introduction to Lebesgue Measure and Integration, American Mathematical Society, 2015

Course language:
Slovak

Notes:

Course assessment
Total number of assessed students: 99

A	B	C	D	E	FX
3.03	7.07	15.15	16.16	56.57	2.02

Provides: prof. RNDr. Jozef Doboš, CSc.

Date of last modification: 14.09.2021

Approved: doc. PhDr. Beata Gajdošová, PhD., doc. RNDr. Stanislav Lukáč, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚMV/ MAN2d/10	**Course name:** Mathematical analysis IV

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: 4.

Course level: I.

Prerequisities: ÚMV/MANb/19

Conditions for course completion:
Continuous assessment is taken the form of two main tests during the semester. Final evaluation is given by continuous assessment (60%), written and oral part of the exam (40%).

Learning outcomes:
The student understands the basic concepts and their properties, which are defined in the content of the course. He has developed skills to use this theory in solving theoretical and practical problems. The student is able to do connections in solving problem tasks.

Brief outline of the course:
1. Function of several real variables - basic notions, limits and continuity. (3 weeks)
2. Differential calculus of functions of several real variables - partial derivative, differentiability, directional derivative, local and global extrema, constrained local extrema. (5 weeks)
3. Multivariable Riemann integral - definition, calculation methods, applications. (2 weeks)
4. Metric space - Euclidean space, topological properties of points and sets in metric space, completeness (3 weeks)

Recommended literature:
1. D. HUGHES-HALLETT et al.: Calculus, Wiley, 1998, ISBN 13 cloth 978-0470-88861-2.
2. B. S. Thomson, J. B. Bruckner, A. M. Bruckner: Elementary real analysis, Prentice Hall (Pearson), Lexington, 2008.

Course language:
Slovak

Notes:

Course assessment
Total number of assessed students: 58

A	B	C	D	E	FX
27.59	17.24	24.14	13.79	15.52	1.72

Provides: RNDr. Lenka Halčinová, PhD.

Date of last modification: 26.09.2021

Approved: doc. PhDr. Beata Gajdošová, PhD., doc. RNDr. Stanislav Lukáč, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Science	
Course ID: ÚMV/ MANb/19	**Course name:** Mathematical analysis of function of real variable

Course type, scope and the method:
Course type: Lecture / Practice
Recommended course-load (hours):
Per week: 4 / 3 **Per study period:** 56 / 42
Course method: present

Number of ECTS credits: 8

Recommended semester/trimester of the course: 2.

Course level: I.

Prerequisities: ÚMV/FRPa/19

Conditions for course completion:
Two written tests during semeter and activity student to practice. Final evaluation is given by continuous assessment, written and oral part of the exam.

Learning outcomes:
The purpose of the course is to strengthen the knowledge in differential and integral calculus of real functions of one real variable and to develop computational skills in the field.

Brief outline of the course:
Limit and continuity of real functions, elementary functions. Differential calculus - derivatives of the first and of higher orders, the basic theorems of differential calculus and their use to investigate properties and behavior of functions.

Recommended literature:
1. Mihalíková, B. - Ohriska, J.: Matematická analýza I (elektronický učebný text), UPJŠ Košice, 2012.
2. Mihalíková, B. - Ohriska, J.: Matematická analýza II (skriptum), ES UPJŠ Košice, 2007.
3. Kluvánek, I. - Mišík, L. - Švec, M.: Matematika I, ALFA, Bratislava, 1971.
4. Demidovič, B. P.: Sbírka úloh a cvičení z matematické analýzy, Fragment, Praha, 2003.
5. Brannan, D.: A First Course in Mathematical Analysis, Cambridge University Press, Cambridge 2006.
6. Bruckner, A. M., Bruckner J. B., Thomson, B. S.: Real Analysis, Second Edition, ClassicalRealAnalysis.com, 2008.
7. Zorich, V. A.: Mathematical Analysis I, Springer-Verlag 2002.

Course language:
Slovak

Notes:

Course assessment
Total number of assessed students: 335

A	B	C	D	E	FX
10.45	12.54	16.42	21.79	32.24	6.57

Provides: doc. RNDr. Ondrej Hutník, PhD., RNDr. Lenka Halčinová, PhD., RNDr. Jana Borzová, PhD.

Date of last modification: 17.04.2022

Approved: doc. PhDr. Beata Gajdošová, PhD., doc. RNDr. Stanislav Lukáč, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚMV/ MRUa/15	**Course name:** Mathematical problem solving strategies I

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:
Deepening of knowledge and skills from the use of standard methods in solving mathematical problems in the thematic areas: Equations and inequalities and their systems, Elementary functions, Sequences, Financial mathematics. Developing the ability to explain different problem-solving strategies.
Assessment is given on the basis of the results of written examinations carried out during the semester (21 points) and active participation in exercises (3 points).
Classification scale:
A: 91 % - 100 %,
B: 81 % - 90 %,
C: 71 % - 80 %,
D: 61 % - 70 %,
E: 51 % - 60 %,
FX: 0 % - 50 %.

Learning outcomes:
The student is able to explain the basic concepts and methods of solving mathematical problems selected from various areas of school mathematics. The student is able to apply the acquired knowledge in finding and using various strategies for solving problems. The student will get acquainted with typical and more demanding tasks in school mathematics and with specific problems and misconceptions that occur in their solution in the teaching of mathematics in primary and secondary school.

Brief outline of the course:
1. - 5. Solving equations, inequalities and systems of equations (equations and inequalities with absolute values, equations with parameters, irrational equations and inequalities, exponential and logarithmic equations and inequalities, trigonometric equations and inequalities).
6. - 9. Concept of function, properties of elementary functions, graphs of functions.
10. - 11. Sequences, arithmetic and geometric sequences.
12. - 13. Tasks of financial mathematics.

Recommended literature:

Kubáček, Z., Černek, P., Žabka J. a kol.: Matematika a svet okolo nás, zbierka úloh. FMFI UK Bratislava, 2008
Kopka, J., Hrozny problémů ve školské matematice, Univerzita J. E. Purkyně, Ústí nad Labem,1999.
Lengyelfalusy, T., Kochol, M., Zábojníková, N.: Metódy riešenia matematických úloh 2. Žilinská univerzita v Žiline, 2009.
Učebnice a zbierky úloh z matematiky ZŠ a SŠ.

Course language:
Slovak

Notes:

Course assessment
Total number of assessed students: 210

A	B	C	D	E	FX
30.48	22.86	22.86	11.43	11.43	0.95

Provides: doc. RNDr. Stanislav Lukáč, PhD.

Date of last modification: 12.01.2022

Approved: doc. PhDr. Beata Gajdošová, PhD., doc. RNDr. Stanislav Lukáč, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚMV/MRUb/15	**Course name:** Mathematical problem solving strategies II

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:
The resulting trial is granted on the basis of continuous assessment (on the results of written checks) and seminar work.

Learning outcomes:
Mastering the basic types of tasks and their methods of solving problems in primary and secondary school in the field of Planimetry, Stereometry and Goniometry.

Brief outline of the course:
Basic knowledge of school mathematics, various methods for the task, the role of mathematical competitions for thematic units Planimetry (4 w.), stereometry (3), goniometery (3).

Recommended literature:
[1] Hejný, M. a kol., Teória vyučovania matematiky 2. SPN, Bratislava 1989 (in Slovak)
[2] Kopka, J., Hrozny problémů ve školské matematice, Univerzita J. E. Purkyně, Ústí nad Labem 1999 (in Czech)
[3] Jonson-Wilder.S., Mason.J.: Developing thinking in Geometry, Sage, 2009
[4] Učebnice a zbierky úloh z matematiky ZŠ a SŠ

Course language:
Slovak

Notes:

Course assessment
Total number of assessed students: 188

A	B	C	D	E	FX
31.91	30.32	25.0	8.51	4.26	0.0

Provides: doc. RNDr. Dušan Šveda, CSc.

Date of last modification: 19.09.2021

Approved: doc. PhDr. Beata Gajdošová, PhD., doc. RNDr. Stanislav Lukáč, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Science	
Course ID: ÚMV/ MRUc/15	**Course name:** Mathematical problem solving strategies III

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: ÚMV/MRUb/15

Conditions for course completion:
Conditions for continuous evaluation:
1. Participation in teaching in accordance with the study rules and instructions of the teacher.
2. Activity.
3. Homework and written test.
4. Conditions for successful completion of the course:
1. Participation in teaching in accordance with the study regulations and according to the instructions of the teacher;
2. Credits will be awarded to a student who scores at least 50% on homework assignments and at least 50% on written test. A grade of A requires at least 90%, a grade of B requires at least 80%, a grade of C requires at least 70%, a grade of D requires at least 60%, and a grade of E requires at least 50%.

Learning outcomes:
Students demonstrate a shift in different methods of problem-solving from combinatorics, probability and statistics. They will be aware of the connections between different methods of solution, and also the connections of these methods of solution with other topics of school mathematics.
While solving problems on written tests, the students will show that they have a conceptual understanding of the concepts of school combinatorics, probability and statistics. They are ready to use several methods of solving problems from these topics, they are able to consider whether a non-standard student's solution is correct or not, and they can explain this solution.

Brief outline of the course:
The content is focuses on different methods of problem-solving in combinatorics, probability and statistics. We are dealing with developing combinatorial, probabilistic and statistical thinking through different methods of problem-solving. The content of the course is based on current research results in this area.
In solving combinatorial problems, students are introduced to the components of the model of combinatorial thinking - the listing of possibilities, the counting process, and combinatorial formulas and methods, and the connections between these components.

When solving probability problems, we emphasize the different approaches to probability - statistical, classical, geometric, and subjective and their connections.
In part aimed at statistics, we focus on descriptive statistics and on the connection between probability and statistics.

Recommended literature:
Hecht, T., Sklenáriková, Z., Metódy riešenia matematických úloh, Bratislava, SPN, 1992. (in slovak)
Krantz, S.G., Techniques of Problem Solving, AMS, 1997.
Larson, L.C., Metódy riešenia matematických problémov, Bratislava, Alfa, 1990. (in slovak)
Učebnice a zbierky úloh pre stredné a základné školy.

Course language:
Slovak

Notes:

Course assessment
Total number of assessed students: 195

A	B	C	D	E	FX
30.77	27.18	24.1	11.28	6.15	0.51

Provides: doc. RNDr. Ingrid Semanišinová, PhD.

Date of last modification: 07.02.2022

Approved: doc. PhDr. Beata Gajdošová, PhD., doc. RNDr. Stanislav Lukáč, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚMV/ MST/19	**Course name:** Mathematical statistics

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:

Course level: I., II.

Prerequisities:

Conditions for course completion:
Total evaluation based on two written tests during the semester (2x40p) and the result of the written (30p) and oral part of the exam (30p).
At least 50% must be obtained from each part.
Final evaluation: ≥90% A; ≥80% B; ≥70% C; ≥60% D; ≥50% E; <50% FX.

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

Brief outline of the course:
1. Random vectors (definition, distributions, characteristics, joint and marginal distributions).
2. Covariance, correlation and regression.
3. Random sample, sampling distributions and characteristics.
4. Some important statistics and their distributions.
5. Point estimators and their properties.
6. Maximum likelihood method.
7. Interval estimates, confidence interval construction (2 weeks).
8. Testing of statistical hypothesis (critical region, level of significance and power of test, methods for searching optimal critical regions).
9. Some important parametric tests (2 weeks).
10. Some important nonparametric tests (2 weeks).

Recommended literature:
1. Skřivánková V.: Pravdepodobnosť v príkladoch, UPJŠ, Košice, 2006 (in Slovak)
2. Skřivánková V.-Hančová M.: Štatistika v príkladoch, UPJŠ, Košice, 2005 (in Slovak)
3. Casella, G., Berger, R., Statistical Inference, 2nd ed., Duxbury Press, 2002
4. DeGroot, M. H., Schervish, M. J.: Probability and Statistics, 4th ed., Pearson, Boston, 2012
5. Anděl J.: Základy matematické statistiky, MatfyzPress, Praha, 2011 (in Czech)

Course language:
Slovak

Notes:

Course assessment
Total number of assessed students: 158

A	B	C	D	E	FX
25.32	20.89	13.92	18.99	12.66	8.23

Provides: doc. RNDr. Martina Hančová, PhD.

Date of last modification: 14.04.2022

Approved: doc. PhDr. Beata Gajdošová, PhD., doc. RNDr. Stanislav Lukáč, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚMV/ MTM/14	**Course name:** Mathematics

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: ÚMV/MAN2c/10 and ÚMV/ALG2b/10 and ÚMV/ATC/10

Conditions for course completion:
Acquiring the required number of credits in the structure defined by the study plan.

Learning outcomes:
Evaluation of student‘s competences with respect to the profile of the graduate.

Brief outline of the course:

Recommended literature:

Course language:
Slovak

Notes:

Course assessment
Total number of assessed students: 86

A	B	C	D	E	FX
31.4	19.77	22.09	17.44	9.3	0.0

Provides:

Date of last modification: 21.05.2016

Approved: doc. PhDr. Beata Gajdošová, PhD., doc. RNDr. Stanislav Lukáč, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚMV/ MIE/13	**Course name:** Microeconomics

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:

Conditions for course completion:
Continuous assessment: feedback in MOODLE, small tests during tutorial (notions), two written exams (solving problems). Final oral exam: ability of verbal argumentation and graphical explanation of studied models.

Learning outcomes:
Understanding of basic principles of microeconomics and ability to apply them in practical situations.

Brief outline of the course:
Economics and economy. Supply and demand. Consumer Theory. Theory of firm. Perfect competition. Monopoly. Labour market. Market failure. Externalities and Public goods.

Recommended literature:
1. lms.upjs.sk: lectures, tutorials and other material
2. H.L. Varian, Intermediate Mikroekonomics, WW Norton, 1993
3. J.M. Perloff, Microeconomics, 6th Edtion, Addison Wesley, 2012
4. J. Sloman, Economics, 6th Edition, Prentice Hall, 2006

Course language:
Slovak

Notes:

Course assessment
Total number of assessed students: 85

A	B	C	D	E	FX
24.71	23.53	17.65	18.82	12.94	2.35

Provides: prof. RNDr. Katarína Cechlárová, DrSc.

Date of last modification: 17.04.2022

Approved: doc. PhDr. Beata Gajdošová, PhD., doc. RNDr. Stanislav Lukáč, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: KPE/ MMKV/17	**Course name:** Multiculturalism and Multicultural Education

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: 191

A	B	C	D	E	FX
41.88	42.93	13.61	1.05	0.52	0.0

Provides: PaedDr. Michal Novocký, PhD.

Date of last modification: 20.06.2022

Approved: doc. PhDr. Beata Gajdošová, PhD., doc. RNDr. Stanislav Lukáč, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚBEV/ NATM/15	**Course name:** Neuroanatomy

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

Number of ECTS credits: 5

Recommended semester/trimester of the course: 2.

Course level: I., II.

Prerequisities:

Conditions for course completion:
1. compulsory participation on Anatomy lectures and exercises, max. 3 absences per semester. If the number of absences exceeds three, every other absence results in the loss of one point from the earned points.
2. one written exam (max. 50 points) during semester
3. written exam (test, 50 points max.) during summer exam period. Final grade will be calculated based on the total sum of earned points from written exam (50 points) and test (50 points). Grading scale: A (100-91 points), B (90.5-81), C (80.5-71), D (70.5-61), E (60.5-51), FX (50.5 and less)

Learning outcomes:
After successful completion of the lectures, student masters the knowledge on anatomy and organization of central and peripheral nervous system. Student understands the particular functions of nervous system in homeostasis, sensory perception, motor functions, as well as in processing of signal at various levels of nervous system. Successful completion of the lectures prepare students for further study of various psychological disciplines.

Brief outline of the course:
1. introduction to neuroanatomy, basic principles of functional neuroanatomy, classification of the nervous system,dividing of the Nervous System (CNS, PNS, autonomous NS, somatic NS),
2. the spinal cord and nervous tracts
3. the brainstem: medulla oblongata, pons, mesencephalon
4. peripheral nervous system: spinal and cranial nerves
5. the cerebellum
6. the diencephalon
7. the telencephalon, cerebral cortex (paleopallium, archipallium, neopallium) and basal ganglia
8. ventricular system of the brain, meninges and blood supply,
9. autonomic nervous system: symphatetic and parasymphathetic
10. functional systems I: motor systems
11. functional systems II: sensory systems, perception
12. functional systems III: limbic system, emotions, memory
13. functional systems IV: higher cognitive functions, motivation

Recommended literature:

Lovásová, K., Kluchová, D., Boleková, A.:Neuroanatómia pre psychológov, Košice, Equilibria, UPJŠ 2015
Miklošová M.: Anatómia, Košice, Equilibria, UPJŠ 2011
Druga R., Grim M., Dubový P.: Anatomie centrálního nervového systému Galén Karolinum, 2011
Ševc, J., Mochnacký, F.: Anatomické termíny pre jednoodborové a medziodborové štúdium biológie, UPJŠ, e-book (https://unibook.upjs.sk/sk), 2020

Course language:

Notes:

Course assessment
Total number of assessed students: 289

A	B	C	D	E	FX
13.84	9.34	18.69	17.3	23.18	17.65

Provides: doc. RNDr. Juraj Ševc, PhD.

Date of last modification: 07.09.2021

Approved: doc. PhDr. Beata Gajdošová, PhD., doc. RNDr. Stanislav Lukáč, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚMV/ TCS/10	**Course name:** Number theory

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

Number of ECTS credits: 3

Recommended semester/trimester of the course: 5.

Course level: I.

Prerequisities: ÚMV/ATC/10

Conditions for course completion:
According to tests and exam.

Learning outcomes:
To obtain knowledge on quadratic congruences.

Brief outline of the course:
Chinese remainder theorem, Euler function, quadratic congruences, Pythagorean equation.

Recommended literature:
M. B. Nathanson: Elementary Methods in Number Theory. Springer, 2000.
H. E. Rose: A Course in Number Theory. Clarendon Press, Oxford, 1994.

Course language:
Slovak

Notes:

Course assessment
Total number of assessed students: 104

A	B	C	D	E	FX
34.62	26.92	22.12	14.42	1.92	0.0

Provides:

Date of last modification: 03.05.2015

Approved: doc. PhDr. Beata Gajdošová, PhD., doc. RNDr. Stanislav Lukáč, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: KPE/Pg/15	**Course name:** Pedagogy

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: 961

A	B	C	D	E	FX
23.1	29.24	23.41	13.84	8.84	1.56

Provides: PaedDr. Michal Novocký, PhD.

Date of last modification: 20.06.2022

Approved: doc. PhDr. Beata Gajdošová, PhD., doc. RNDr. Stanislav Lukáč, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Science	
Course ID: KPPaPZ/PP/15	**Course name:** Positive Psychology

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:
Students will acquire basic knowledge concerning the reasons for founding Positive psychology, its main theory, current research, as well as application of Positive psychology as a new and rapidly developing field within psychology. Students will also gain experience in applying 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 critically evaluate 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: 408

A	B	C	D	E	FX
98.28	1.23	0.25	0.0	0.25	0.0

Provides: Mgr. Jozef Benka, PhD.

Date of last modification: 24.06.2022

Approved: doc. PhDr. Beata Gajdošová, PhD., doc. RNDr. Stanislav Lukáč, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Science	
Course ID: ÚMV/ TPP/19	**Course name:** Probability theory

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: 4.

Course level: I.

Prerequisities: ÚMV/MAN1c/22 or ÚMV/MAN2c/22 or ÚMV/FRPa/19

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

Learning outcomes:
To obtain knowledge of the axiomatic theory of probability, random variables and their characteristics, special types of distributions and their applications.

Brief outline of the course:
Probability space, definitions and properties of probability.
Conditional probability and independence.
Random variables, their distribution function and characteristics.
Mean, variance and skewness.
Discrete and absolutely continuous distributions.
Quantile and characteristic functions, their properties. Relation between characteristic function and moments. Median and mode.
Transformation of random variables.
Special types of distributions with applications (binomial, Poisson, geometric, uniform, exponential, normal, chi-square, Student, Fisher).
Central limit theorem.

Recommended literature:
1. Skřivánková V.: Pravdepodobnosť v príkladoch, UPJŠ, Košice, 2006 (in Slovak)
2. DeGroot, M. H., Schervish, M. J.: Probability and Statistics, 4th ed., Pearson, Boston, 2012
3. Evans, M. J., Rosenthal, J. S.: Probability and Statistics: The Science of Uncertainty, 2nd Ed., W. H. Freeman, 2009
4. Riečan et al.: Pravdepodobnosť a matematická štatistika, Alfa, Bratislava, 1984 (in Slovak)
5. Potocký a kol.: Zbierka úloh z pravdepodobnosti a matematickej štatistiky, Alfa, Bratislava, 1991

Course language:
Slovak

Notes:

Course assessment
Total number of assessed students: 359

A	B	C	D	E	FX
14.48	13.93	17.27	21.73	25.07	7.52

Provides: doc. RNDr. Daniel Klein, PhD., RNDr. Andrej Gajdoš, PhD.

Date of last modification: 27.01.2022

Approved: doc. PhDr. Beata Gajdošová, PhD., doc. RNDr. Stanislav Lukáč, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: CJP/ PFAJPSYCH1/07	**Course name:** Professional English for Psychology 1

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

Number of ECTS credits: 2

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

Course level: I.

Prerequisities:

Conditions for course completion:
Active classroom participation (2 absences tolerated).
2 tests (6th/7th week, 12th/13th week), no retake. Home assignments.
Science paper presentation.
Final assessment = the average obtained in tests (50%) and paper presentation (50%).
Grading scale: A 93-100%, B 86-92%, C 79-85%, D 72-78%, E 65-71%, FX 64% and less.

Learning outcomes:
The development of students´ language skills - reading, writing, listening, speaking, improvement of their linguistic competence - students acquire knowledge of selected phonological, lexical and syntactic aspects, development of pragmatic competence - students can efectively use the language for a given purpose, with focus on Academic English and English for specific/professional purposes - Psychology, level B2.

Brief outline of the course:

Recommended literature:
Short, J.: English for Psychology in Higher Education Studies. Garnet Publishing Ltd., 2010.
Murphy, R.: English Grammar in Use. A self-study reference and practice book for intermediate students. CUP, 1994.
Seal, B.: Academic Encounters. Reading, Study Skills and Writing. Content Focus – Human Behavior. CUP, 1997
http://www.bbc.co.uk/worldservice/learningenglish

Course language:
English, level B2 according to CEFR.

Notes:

Course assessment
Total number of assessed students: 142

A	B	C	D	E	FX
26.06	16.9	12.68	10.56	11.97	21.83

Provides: Mgr. Zuzana Kolaříková, PhD.
Date of last modification: 16.09.2022
Approved: doc. PhDr. Beata Gajdošová, PhD., doc. RNDr. Stanislav Lukáč, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: CJP/ PFAJPSYCH2/07	**Course name:** Professional English for Psychology 2

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

Number of ECTS credits: 2

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

Course level: I.

Prerequisities:

Conditions for course completion:
Active classroom participation, max. 2 absences. 2 tests (6th/7th week, 12th/13th week), no retake. Oral presentation, home assignments.
Final assessment = the average obtained in tests and presentation.
Grading scale: A 93-100%, B 86-92%, C 79-85%, D 72-78%, E 65-71%, FX 64% and less.

Learning outcomes:
The development of students´ language skills - reading, writing, listening, speaking, improvement of their linguistic competence - students acquire knowledge of selected phonological, lexical and syntactic aspects, development of pragmatic competence - students can efectively use the language for a given purpose, with focus on Academic English and English for specific/professional purposes - Psychology, level B2.

Brief outline of the course:
Memory. Short-term, long-term memory. Theories of forgetting. Memory and hypnosis. Mental illnesses. Common myths about mental illnesses. Personality theories. Trait theory. Measuring personality. Modern addictions. Eating disorders. Functional grammar - argumenting, expressing opinion. Selected aspects of academic writing and communication in English. Presentation skills - sign-posting language, structure of presentation, discussion participation, etc.

Recommended literature:
Short, J.: English for Psychology in Higher Education Studies. Garnet Publishing Ltd., 2010.
Murphy, R.: English Grammar in Use. A self-study reference and practice book for intermediate students. CUP, 1994.
Seal, B.: Academic Encounters. Reading, Study Skills and Writing. Content Focus – Human Behavior. CUP, 1997
http://www.bbc.co.uk/worldservice/learningenglish

Course language:
English, level B2 according to CEFR

Notes:

Course assessment
Total number of assessed students: 56

A	B	C	D	E	FX
30.36	12.5	16.07	10.71	12.5	17.86

Provides: Mgr. Zuzana Kolaříková, PhD.

Date of last modification: 14.02.2023

Approved: doc. PhDr. Beata Gajdošová, PhD., doc. RNDr. Stanislav Lukáč, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: KPPaPZ/PAN/07	**Course name:** Psychological Aspects of Unemployment

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:
Active participation at classes, preparation and prezentation of seminar paper, final exam.

Learning outcomes:
Graduate will understand unemployment issue, the issue of the effect of unemployment on the individual as well as the family system. The student will learn about psychological work with unemployed individuals and their families.

Brief outline of the course:
Psychological meaning of work. Job loss as a stressful event. Short-term and long-term unemployment. Coping with unemployment. Risk groups of unemployed (school-leavers, long-term unemploymed, old persons, women with small children, low qualified). Unemployed and the family. PSychological counceling for unemployed person.

Recommended literature:
Buchtová et al. (2013). Nezaměstnanost. Grada.
Schraggeová, M. (2011). NEzamestnanosť v psychologických súvislostiach. Psychoprof.
Sleskova (2006). Unemployment and the health of Slovak adolescents.

Course language:

Notes:

Course assessment
Total number of assessed students: 63

abs	n	z
100.0	0.0	0.0

Provides: doc. Mgr. Mária Bačíková, PhD.

Date of last modification: 16.02.2021

Approved: doc. PhDr. Beata Gajdošová, PhD., doc. RNDr. Stanislav Lukáč, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Science	
Course ID: KPPaPZ/P/15	**Course name:** Psychology
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: KPS/PEM/05 and KPS/KOGPS/11 and KPPaPZ/PSO/09	
Conditions for course completion: Obtaining the required number of credits in the prescribed composition by the study plan.	
Learning outcomes: Verification of acquired competencies of the student in accordance with the profile of the graduate.	
Brief outline of the course: Psychology of cognition, emotions and motivation, personalitiesThemical areas for the state exam in Psychology MOS psychologyPsychological aspects of human cognition. History of cognitive psychology. General characteristics of human cognition, models of cognition. Perception. Sensory and perceptual processes. Basic issues of receiving information, organization of the perceptual field and object recognition. Theories and models of these processes. Attention. Basic functions and properties of attention. Theories of selection and division of attention. Memory and learning. Types of memory. Forgetting. Conditioning and other forms of learning. New memory approaches. Imagination. Basic characteristics of imagination and imagination. Theory of imagination. Types of ideas. Thinking. Basic thought operations. Concepts. Thinking, language and speech. Judgment. Decision making and problem solving. Theories and models of decision making. Creativity Intelligence. Definitions. History of IQ detection. Approaches and theories. Psychology of emotions. Definition of basic terms: emotion, emotion, emotional behavior, emotional states, emotional episodes, moods. Emotional situations. Functions of emotions. Emotion regulation and emotional intelligence. Coping and emotions. Traditional and contemporary approaches to the study of emotions: Philosophical, historical, biological, neurophysiological and psychological approach to the study of emotions. Evolutionary psychological and psychophysiological theory of emotions. Cognitive approaches to explaining emotions. Voice communication of emotions and facial expressions. Functional approach to emotions. Intrapersonal, social and developmental function of emotions. Classification of emotions. Characteristics and research findings related to basic emotions: Joy and happiness. Love and affection. Hate and anger. Fear and sadness. Resistance, disgust and anger. Emotions associated with JA. The concept of motivation, motive. Categorization of motifs. Primary and secondary motives. Performance motives. Social motives. Approaches to the study of motivation. Classical approaches and theories: Theory of instincts and instincts. Basic homeostatic models. Humanistic theories of motivation. Performance motivation theory, attribution motivation theory and cognitive approaches to motivation. Selected current approaches to the study	

of motivation. Theories based on expectations, current interests, reasons for involvement. Theories integrating expectation and value. Theories of motivation and choice. Focus on psychodynamic forces, general tendencies of the representatives of this group of Personality Psychology. Evaluation of the Classical Psychoanalysis by Sigmund Freud. Psychoanalytic Tradition and Ego-Psychology. Evaluation of current Psychoanalytic Theory. Permanent personality traits according to the Analytical Psychology of C. G. Jung. Evaluation of Jungian Theory in Personality Psychology. Main characteristics of A. Adler's Individual Psychology. The focus of research and evaluation of Individual Psychology by A. Adler. Interpersonal dynamics and its evaluation in Personality Psychology. Focus on the surviving person and evaluation of the personality theory of the representatives of the Humanistic and Holistic approach. Existential psychology of personality and Phenomenological approach to personality. Personality structure according to K. Lewin and a critique of Lewin's theory.G. Kelly's theory of personal constructs and critique of Kelly's theory. Emphasis on lasting characteristics; evaluation of the contribution of theorists of Personality Psychology: H. Murray and G. Allport. Evaluation of W. H. Sheldon's contribution in Personality Psychology. Evaluation of the theory of R. Cattell and H. J. Eysenck in Personality Psychology. Structural models of personality traits. Three-factor personality models and Big five. Evaluation of the Theory of Social Learning in the Context of Contemporary Personality Psychology.

Recommended literature:

Course language:

Notes:

Course assessment

Total number of assessed students: 72

A	B	C	D	E	FX
16.67	20.83	22.22	25.0	13.89	1.39

Provides:

Date of last modification: 24.06.2022

Approved: doc. PhDr. Beata Gajdošová, PhD., doc. RNDr. Stanislav Lukáč, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: KPPaPZ/Ps/15	**Course name:** Psychology

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

Number of ECTS credits: 2

Recommended semester/trimester of the course: 1.

Course level: 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: 749

A	B	C	D	E	FX
36.85	18.42	16.82	13.48	12.42	2.0

Provides: PhDr. Anna Janovská, PhD., Mgr. Ondrej Kalina, PhD.

Date of last modification: 24.06.2022

Approved: doc. PhDr. Beata Gajdošová, PhD., doc. RNDr. Stanislav Lukáč, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Science	
Course ID: KPS/ PEM/05	**Course name:** Psychology of Emotions and Motivation

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:
Interim evaluation of 40%
1. 2x credit tests (after part about emotions and after part about motivations, 2 x 15b, max 30b, min 15b).
2. activity in seminars (max 10b, min 5b).
Min. the number of points obtained per semester required for admission to the examination is 21p.
60% final evaluation - written exam (in the exam period), max. 60b, min. 31b.
A final evaluation is a sum of assessment during semester and exam. The information will be yearly specified on the electronic noticeboard (aj black board môže byť) of the course in AiS2, aleternatively in LMS UPJŠ or MS Teams environment.

Learning outcomes:
The aim of the subject is to give students a systematic explanation of the basics of psychological knowledge about emotions and motivation with an emphasis on the interpretation of the latest research findings. Upon successful completion of the course, students are well versed in the basic concepts / terminology of the course. They can also identify the basic characteristics of different approaches to emotions and motivation and are able to distinguish between them. Based on the acquired knowledge, they are able to understand them and perceive individual approaches in the context of the genesis of their empirical research. Through exercises, students deepen their knowledge in the subject matter and train their skills to use the acquired knowledge in a relevant way, to think about it independently and critically, and to apply it adequately to practical / model cases.
The information will be yearly specified on the electronic noticeboard (even a black board can be) of the course in AiS2, alternatively in LMS UPJŠ or MS Teams environment.

Brief outline of the course:
1 Psychology of emotion and motivation - definition of basic concepts. The relationship of emotion and motivation. 2 Traditional approaches to the study of emotions - historical, philosophical, biological, social and psychological approaches. 3 Evolutionary psychological and psycho-physiological theory of emotions. 4 Vocal communication of emotions and facial expressions. 5 Regulation of emotions. 6 Function, development and education of emotions. 7 Basic concepts of psychology of motivation. 8 Classical approaches to the study of motivation. Homeostatic theories

of motivation. 9 Humanistic theory of motivation. 10 Achievement motivation. 11 Attribution theory and cognitive approaches. 12 Current theories of motivation.
es.
The information will be yearly specified on the electronic noticeboard (even a black board can be) of the course in AiS2, alternatively in LMS UPJŠ or MS Teams environment.

Recommended literature:

Required

1. Lectures
2. PLHÁKOVÁ, A.: Textbook of General Psychology. Praha, Academia, 2003, s..319-444.
3. STUCHLÍKOVÁ, I.: Basics of the Psychology of emotions. Praha : Portál, 2002.

Recommended texts:

1. LEWIS, M.-HAVILAND-JONES, J.: Handbook of emotions. 2.ed.New York, London: The Guilford Press, 2004. ISBN 1-59385-0029-2.
2. GORMAN, P.: Motivation and Emotion: Textbook. London: Routledge. 2002.
3. MADSEN, K.B.. Modern Theory of Motivation. Praha: Academia, 1979.
4. IZARD, C. et al.:Temperament, cognitive ability, emotion knowledge, and adaptive social behavior. Imagination, cognition and personality, roč, 19, 1999-2000, č.4, s.305-309 vrátane
5. JAMES, W. Principles of Psychology. The emotion.1890 (od genézy emócií) Prístupné:http://www.des.emory.edu/mfp/james.html
6. ATKINSON, J. W.: Personality Dynamics, s. 263-267 (ffweb)
7. GREWAL, D. - SALOVEY, P: Feeling Smart: A Science of Emotional Intelligence: American Scientist, roč. 93, 2005, č. 4, s. 330-339
8. GASPER, K.- BRAMESFELD, K.: Imparting wisdom: Magda Arnold´s contribution to research on emotion and motivation. Preview. In Cognition and Emotion. vol 20, 2006, c. 7, s. 1001-1013.
9. DECI, E. L., & RYAN, R. M. (2008). Self-Determination Theory: A Macrotheory of Human Motivation, Development, and Health. Canadian Psychology, 49(3), 182-185.
10. McCLELLAND, D. C. (1967). Money as a Motivator: Some Research Insights. Mckinsey Quarterly, 4(2), 10-21.
11. WEINER, B. (2010). The Development of an Attribution-Based Theory of Motivation: A History of Ideas. Educational Psychologist, 45(1), 28-36.
12. MASLOW, A.: Theory of Human Motivation. Psychological Review 1943 50, 370-396.
13. EDWARD L. DECI: On The Nature And Eunctions of Motivation Theories. Psychological Science, Vol. 3, No. 3, May 1992, S. 167-171
14. LEWIS, M., HAVILAND-JONES, J.M., FELDMAN BARRETT, L.: Handbook of Emotions. Third ed. New York, Guilford Press, 2010. ISBN 978-1-60918-044-7

Course language:

Slovak language

Notes:

Lectures and seminars will take place in person or online (depending on the current situation). Study materials will be accessible to students through OneDrive.

Course assessment

Total number of assessed students: 1597

A	B	C	D	E	FX
11.27	13.02	18.79	24.23	20.66	12.02

Provides: PhDr. Bibiána Kováčová Holevová, PhD., Mgr. Ondrej Kalina, PhD.

Date of last modification: 24.06.2022
Approved: doc. PhDr. Beata Gajdošová, PhD., doc. RNDr. Stanislav Lukáč, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Science	
Course ID: KPPaPZ/PSO/09	**Course name:** Psychology of Personality

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:
Assessment Maximum 40 points during the semester (Three assignments).
Exam entry criteria: Active participation in exercises and at least 30 points obtained during the semester.
Continuous assessment (40%) and written examination (60%).
Electronic board of the course AIS2 - more information and news.
Final evaluation: A 87 – 100 B 77 – 86 C 69 – 76 D 61 – 68 E 56 – 60 FX 55 and less
Combined method.
The information will be yearly specified on the electronic noticeboard of the course in AIS2, aleternatively in LMS UPJŠ or MS Teams environment.

Learning outcomes:
Students will gain an understanding of the role of personality theory in psychology and ways in which personality is assessed and explored, critically evaluate and compare different teories of personality.
The information will be yearly specified on the electronic noticeboard of the course in AIS2, aleternatively in LMS UPJŠ or MS Teams environment.

Brief outline of the course:
1. History of Personality Psychology. Personality as a topic of psychology.
2. Focus on psychodynamic strengths: Classical psychoanalysis, personality as hierarchic arrangement of functionally differentiated layers in Sigmund Freud's theory. Current psychoanalytical theory (ego as an equal partner/A. Freud, autonomous ego/H. Hartmann.
3. Focus on psychodynamic strengths: Analytical psychology (C. G. Jung/ features of personality, dynamics, and development of personality).
4. Interpersonal dynamics (A. Adler, K. Horney, E. Fromm, H. S. Sullivan)
5. Focus on human experience: Holism and humanism (Kurt Goldstein, A. Maslow, C. Rogers theory of Self, dynamics, development of personality. Critics of humanistic approach.
6. Focus on human experience: Phenomenology and existential psychology (the main points of existentialism, shaping psychology, phenomenological approach to personality, phenomenal self). Logotherapy (Freedom of will, will to meaning, meaning of life, existential vacuum).
7. Cognitive theory of personality of G. A. Kelly. Emphasis on permanent characteristics:

Personology. Structure and dynamics of personality by G. Allport. Emphasis on permanent characteristics: Constitutional psychology.
8. Structural analysis of personality, concept of personal features.
9. Emphasis on Learning.
The information will be yearly specified on the electronic noticeboard of the course in AIS2, aleternatively in LMS UPJŠ or MS Teams environment.

Recommended literature:

HALL, C.S., LINDZEY, G. (1997). Psychológia osobnosti. Bratislava: SPN.
HŘEBÍČKOVÁ, M. (2011). Pětifaktorový model v psychologii osobnosti. Grada Publishing as.
JOHN, O. P., ROBINS, R. W., & PERVIN, L. A. (Eds.). (2008). Handbook of personality: Theory and research (3rd edition). New York: Guilford.
BLATNÝ, M. a kol. (2010). Psychologie osobnosti. Hlasní témata, současné prřístupy. Praha: Grada.
VAGNEROVÁ, M. (2010). Psychologie osobnosti. Praha: Karolinum.
NAKONEČNÝ, M. (2009). Psychologie osobnosti. Praha: Academia.
DRAPELA, K. (1997). Přehled teórii osobnosti. Praha: Portal.
VÝROST, J., RUISEL, I. (Eds.) (2000). Kapitoly z psychológie osobnosti. Bratislava: Veda.
ŘÍČAN, P. (2007). Psychologie osobnosti. Praha: Grada 2007.
SMÉKAL, V. (2002). Psychologie osobnosti. Člověk v zrcadle vědomí a jednání. Praha: Barrister&Principal.

Course language:
slovak

Notes:

Course assessment
Total number of assessed students: 1501

A	B	C	D	E	FX
16.06	18.05	21.45	20.92	19.12	4.4

Provides: prof. PhDr. Oľga Orosová, CSc., Mgr. Miroslava Köverová, PhD., Mgr. Jozef Benka, PhD.

Date of last modification: 03.08.2022

Approved: doc. PhDr. Beata Gajdošová, PhD., doc. RNDr. Stanislav Lukáč, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: KPPaPZ/ MMOSP/15	**Course name:** Research Methodology for Interdisciplinary Study Programs of Psychology

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

Number of ECTS credits: 3

Recommended semester/trimester of the course: 1.

Course level: I.

Prerequisities:

Conditions for course completion:

Learning outcomes:

Brief outline of the course:
The teaching of the subject is realized with an emphasis on the activity and independence of students.
Science in pedagogy and psychology. Scientific research, scientific thinking. Ethical issues of scientific research. The language of science.
How to write a scientific article, presentation, poster, qualification work. Interpretation of findings, integration of findings into context.
Topic selection, material search, research problem creation. Hypothesis, variable. Types of research plans. Reliability and validity of research
Research sample, methods of sample selection. Preliminary research.
Data collection techniques - questionnaire, experiments, introduction to qualitative methodology, observation, interview.
Viac o tomto zdrojovom texteNa získanie ďalších informácií o preklade sa vyžaduje zdrojový text
Odoslať spätnú väzbu
Bočné panely

Recommended literature:

Course language:

Notes:

Course assessment
Total number of assessed students: 353

A	B	C	D	E	FX
4.82	15.01	18.98	24.93	27.48	8.78

Provides: PhDr. Anna Janovská, PhD.

Date of last modification: 24.06.2022

Approved: doc. PhDr. Beata Gajdošová, PhD., doc. RNDr. Stanislav Lukáč, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Science	
Course ID: KPPaPZ/RP1/08	**Course name:** Research Project

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: 6

Recommended semester/trimester of the course: 3.

Course level: I.

Prerequisities:

Conditions for course completion:
Conditions for passing the course:
Continuous assessment is carried out throughout the semester. It concerns the control of procedures on the project, which the student is obliged to do in the prescribed
deadlines (proposal of the topic with an outline of literary sources and goals - submission of the theoretical part - data collection - statistical data analysis - final writing). Detailed dates and instructions will be updated.
Final evaluation: realization of a research study, defense of the study

Learning outcomes:
The graduate of the course will understand and apply in practice the knowledge of completed theoretical subjects - Methodology for interdisciplinary study and Introduction to statistical methods for interdisciplinary study. With its practical focus, the subject contributes to the development of students' professional skills. The result of the completed course will be a short research study focused on some of the current topics of psychology.

Brief outline of the course:
1. Preparation of a research project.
2. Searching for theoretical sources.
3. Work with literature, citation.
4. Structure of a scientific article.
5. Implementation of research - practical advice and procedures.
6. Processing of research results - work with SPSS.
7. Processing of research results - tables and graphs.
8. Processing research results - writing a scientific article.
9. Presentation of research results.

Recommended literature:
Katuščák, D. (2004). Ako písať záverečné a kvalifikačné práce. Enigma, Bratislava.
Kimlička, Š. (2006). Metodika písania vysokoškolských a kvalifikačných prác. UK v Bratislave.
Bačíková, M., Janovská, A., Orosová, O. (2019) Základy metodológie pedagogicko-psychologického výskumu. Šafárik Press, Košice.
Žiaková, E., Lisnik, A., Greňová, K. (2014). Návod na písanie záverečných prác. UPJŠ, Košice.

domáce a zahraničné publikácie súvisiace s témou projektu

Course language:

Notes:

Course assessment
Total number of assessed students: 8

A	B	C	D	E	FX
37.5	12.5	12.5	37.5	0.0	0.0

Provides: doc. Mgr. Mária Bačíková, PhD.

Date of last modification: 24.06.2022

Approved: doc. PhDr. Beata Gajdošová, PhD., doc. RNDr. Stanislav Lukáč, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Science	
Course ID: KPPaPZ/RKS/14	**Course name:** Resolving Conflict Situations in Educational Practice
Course type, scope and the method: **Course type:** Lecture / Practice **Recommended course-load (hours):** **Per week:** 1 / 2 **Per study period:** 14 / 28 **Course method:** present	
Number of ECTS credits: 4	
Recommended semester/trimester of the course: 3., 5.	
Course level: I., N	
Prerequisities:	
Conditions for course completion:	
Learning outcomes:	
Brief outline of the course:	
Recommended literature:	
Course language:	
Notes:	
Course assessment Total number of assessed students: 143	

abs	n
93.01	6.99

Provides: PhDr. Anna Janovská, PhD., Mgr. Lucia Barbierik, PhD.
Date of last modification: 24.06.2022
Approved: doc. PhDr. Beata Gajdošová, PhD., doc. RNDr. Stanislav Lukáč, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: KPE/OLŠ/15	**Course name:** School Administration and Legislation

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: 285

A	B	C	D	E	FX
45.61	29.82	14.39	6.32	3.16	0.7

Provides: PaedDr. Michal Novocký, PhD.

Date of last modification: 20.06.2022

Approved: doc. PhDr. Beata Gajdošová, PhD., doc. RNDr. Stanislav Lukáč, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Science	
Course ID: ÚTVŠ/ ÚTVŠ/CM/13	**Course name:** Seaside Aerobic Exercise

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:
Completion: passed
Condition for successful course completion:
- active participation in line with the study rule of procedure and course guidelines
- effective performance of all tasks- aerobics, water exercise, yoga, Pilates and others

Learning outcomes:
Content standard:
The student demonstrates relevant knowledge and skills in the field, which content is defined in the course syllabus and recommended literature.
Performance standard:
Upon completion of the course students are able to meet the performance standard and:
- perform basic aerobics steps and basics of health exercises,
- conduct verbal and non-verbal communication with clients during exercise,
- organise and manage the process of physical recreation in leisure time

Brief outline of the course:
Brief outline of the course:
1. Basic aerobics – low impact aerobics, high impact aerobics, basic steps and cuing
2. Basics of aqua fitness
3. Basics of Pilates
4. Health exercises
5. Bodyweight exercises
6. Swimming
7. Relaxing yoga exercises
8. Power yoga
9. Yoga relaxation
10. Final assessment

Students can engage in different sport activities offered by the sea resort – swimming, rafting, volleyball, football, table tennis, tennis and other water sports in particular.

Recommended literature:
1. BUZKOVÁ, K. 2006. Fitness jóga. Praha: Grada. 167 s.

2. ČECHOVSKÁ, I., MILEROVÁ, H., NOVOTNÁ, V. Aqua-fitness. Praha: Grada. 136 s.
3. EVANS, M ., HUDSON, J., TUCKER, P. 2001. Umění harmonie: meditace, jóga, tai-či, strečink. 192 s.
4. JARKOVSKÁ, H., JARKOVSKÁ, M. 2005. Posilováni s vlastním tělem 417 krát jinak. Praha: Grada. 209 s.
5. KOVAŘÍKOVÁ, K. 2017. Aerobik a fitness. Karolium, 130 s.

Course language:
Slovak language

Notes:

Course assessment
Total number of assessed students: 54

abs	n
11.11	88.89

Provides: Mgr. Agata Dorota Horbacz, PhD.

Date of last modification: 29.03.2022

Approved: doc. PhDr. Beata Gajdošová, PhD., doc. RNDr. Stanislav Lukáč, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: KF/ VKFV/07	**Course name:** Selected Topics in Philosophy of Education (General Introduction)

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: 16

A	B	C	D	E	FX
37.5	37.5	18.75	6.25	0.0	0.0

Provides: PhDr. Dušan Hruška, PhD.

Date of last modification: 13.04.2022

Approved: doc. PhDr. Beata Gajdošová, PhD., doc. RNDr. Stanislav Lukáč, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚMV/VKA/10	**Course name:** Selected topics in algebra

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:
According to tests and to the exam.

Learning outcomes:
To develop students' abstract thinking. Follow up on the acquired knowledge of algebra, expand it and generalize; be able to apply the acquired knowledge to specific examples. Demonstrate knowledge of mathematical content in context.

Brief outline of the course:
Relations, operations, algebraic structures.
Substructures.
Homomorphisms, isomorphisms.
Congruences, homomorphism theorems.
Terms, term operations, identities.

Recommended literature:
B. Jónsson: Topics in Universal Algebra, Springer-Verlag 1972
M. Kolibiar a kol.: Algebra a príbuzné disciplíny, Bratislava 1992
S.N. Burris and H.P. Sankappanavar: A Course in Universal Algebra 2000, http://www.math.uwaterloo.ca/~snburris/htdocs/ualg.html

Course language:
Slovak

Notes:

Course assessment
Total number of assessed students: 72

A	B	C	D	E	FX
16.67	20.83	25.0	19.44	13.89	4.17

Provides: prof. RNDr. Danica Studenovská, CSc.

Date of last modification: 24.11.2021

Approved: doc. PhDr. Beata Gajdošová, PhD., doc. RNDr. Stanislav Lukáč, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚMV/ VEM/10	**Course name:** Selected topics in elementary mathematics

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: 3

Recommended semester/trimester of the course: 5.

Course level: I.

Prerequisities: ÚMV/MAN2c/10

Conditions for course completion:
It is based on the results of written and oral exam.

Learning outcomes:
Obtain knowledge about the structure of elementary mathematics with respect to advanced mathematics; the development of mathematical skills of prospective teachers.

Brief outline of the course:
Theory of Equations and Inequalities, Solving Higher Order Polynomials, The Role of CAS systems in Solving Equations and Inequalities,
Building the Real Number System, Rational and Irrational Numbers, Farey Sequences, Review of Geometric Series: Preparation for Decimal Representation, Decimal Expansion, Decimal Periodicity, Building the Complex Numbers, Operating on the Complex Numbers, Picturing Complex Numbers and Connections to Transformation Geometry, The Polar Form of Complex Numbers and De Moivre's Theorem, Some Connections to Roots of Polynomials, Euler's Identity and the Irrationality of e,
Functions and Modeling, Ways of Representing Functions, Solutions of Cubic Equations Using Trigonometry

Recommended literature:
W.W. Esty: The Language of Mathematics, Montana State University, 2007.
F. Klein: Elementary mathematics from an advanced standpoint, Dower Publications, 1945.

Course language:
Slovak

Notes:

Course assessment
Total number of assessed students: 45

A	B	C	D	E	FX
6.67	28.89	13.33	26.67	24.44	0.0

Provides: prof. RNDr. Jozef Doboš, CSc.

Date of last modification: 17.09.2021
Approved: doc. PhDr. Beata Gajdošová, PhD., doc. RNDr. Stanislav Lukáč, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Science	
Course ID: KPPaPZ/ECo-C2/14	**Course name:** Self Marketing ECo-C2

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: 4

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

Course level: I., N

Prerequisities:

Conditions for course completion:
1. Active participation in lessons (absence is allowed max. 90 min.), 2. Realization of assignments according to the teacher's instructions.
Detailed information in the electronic bulletin board of the course in AIS2. The teaching of the subject will be realized by a combined method.

Learning outcomes:
The student is able to understand and explain the basic assumptions of good self-marketing, knows the possibilities for the correct presentation of his own person and understands the related knowledge and principles of personal and communication area. He / she can understand his / her competencies, his / her goals, how to make his / her strengths visible and he / she can apply this knowledge and social and professional skills in the personal and professional sphere of his / her life, which will also improve his / her employment opportunities.

Brief outline of the course:
What is marketing? (Marketing - Mix)
Basics of self-marketing (Personal opinion is crucial, Goal setting, Proper use of opportunity)
Me and my influence (What can I offer? What does he / she have unlike me? How do others see me? Ability to defend one's own opinion, Think positively!, I know how to explore myself - what options do I have?),
Competence (Have your own opinion, How to withstand criticism, Be a team player, Competence at work),
Draw attention to yourself (Voice and word selection, Active in meetings, Present yourself successfully).

Recommended literature:
VÝROST, Jozef - SLAMĚNÍK, Ivan. Sociální psychologie. 2., přepr. a rozš. vyd. Praha : GRADA, 2008. 408 s.
VÝROST, Jozef - SLAMĚNÍK, Ivan. Aplikovaná sociální psychologie I : Člověk a sociální instituce. 1. vyd. Praha : Portál, 1998. 384 s. ISBN 80-7178-269-6.
KOMÁRKOVÁ, Růžena - SLAMĚNÍK, Ivan - VÝROST, Jozef. Aplikovaná sociální psychologie III : Sociálněpsychologický výcvik. 1. vyd. Praha : Grada Publishing, 2001. 224 s.

VÝROST, Jozef - SLAMĚNÍK, Ivan. Aplikovaná sociální psychologie II. 1. vyd. Praha : Grada Publishing, 2001. 260 s.

Course language:
slovak

Notes:
After passing the certification exams from all 4 modules (Teamwork, Selfmarketing, Conflict Management, Communication) the student will receive an ECo-C card and an ECo-C certificate.

Course assessment
Total number of assessed students: 113

abs	n
85.84	14.16

Provides: Mgr. Lucia Barbierik, PhD.

Date of last modification: 24.06.2022

Approved: doc. PhDr. Beata Gajdošová, PhD., doc. RNDr. Stanislav Lukáč, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Science	
Course ID: ÚMV/ SHM/10	**Course name:** Seminar on history of mathematics

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., II.

Prerequisities:

Conditions for course completion:
Conditions for continuous evaluation:
1. Participation in teaching in accordance with the study rules and instructions of the teacher.
2. Activity.
3. Homework and tests.
4. Seminar work and its presentation at the seminar – poster from history of mathematics on the selected topic
Conditions for successful completion of the course:
1. Participation in teaching in accordance with the study regulations and according to the instructions of the teacher;
2. Credits will be awarded to students who score at least 50% on homework assignments and tests. Additional points can be achieved for the presentation of a seminar paper.

Learning outcomes:
Students will demonstrate an understanding of the history of the development of some mathematical disciplines and selected concepts, and parallels between the phylogeny and ontogeny of mathematical thinking. They will demonstrate this understanding by scoring at least 50% on tests given at the beginning of the seminar on previous topics and on homework assignments.

Brief outline of the course:
Prehistory, ontogeny and phylogeny.
Mathematics in ancient cultures: Egypt, Mesopotamia, China, India.
Mathematics in ancient Greece: Origins of Greek natural philosophy and mathematics. The discovery of incommensurability and its consequences (Pythagoras and his school). Classical problems of Greek mathematics. Problems with infinity (Zeno). Eudoxus' method. Plato, Aristotle, Euclid and his Foundations. Archimedes of Syracuse, Eratosthenes, Apollónios, Claudios Ptolemy, Diophantos.
Arabic mathematics and its relation to medieval European mathematics.
The origins of modern mathematics. The search for the roots of polynomial equations. The origins of analytic geometry. Probability. Infinitesimal calculus. Number theory. Non-Euclidean geometry. The origin of set theory.
Development of mathematical symbolism.

Selected topics in school mathematics from the perspective of the history of mathematics.

Recommended literature:

Burton, D. M.: The History of Mathematics: An Introduction. McGraw−Hill, 2007.
Devlin, K.: Jazyk matematiky. Dokořán, 2002. (in czech)
Čižmár, J . Dejiny matematiky (Od najstarších čias po takmer súčasnosť) Perfekt, 2017. (in slovak)
Mareš , M . Příběhy matematiky. Pistorius, 2011. (in czech)

Course language:
Slovak

Notes:

Course assessment
Total number of assessed students: 125

A	B	C	D	E	FX
72.0	12.0	8.8	3.2	3.2	0.8

Provides: doc. RNDr. Ingrid Semanišinová, PhD.

Date of last modification: 31.01.2022

Approved: doc. PhDr. Beata Gajdošová, PhD., doc. RNDr. Stanislav Lukáč, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Science	
Course ID: ÚMV/ SMK/17	**Course name:** Seminar to mathematical clubs

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:
Conditions for continuous evaluation:
1. Participation in teaching in accordance with the study rules and instructions of the teacher.
2. Activity.
3. Homework and written tests.
4. Seminar work and its presentation at the seminar - plan the selected topic for one math circle
Conditions for successful completion of the course:
1. Participation in teaching in accordance with the study regulations and according to the instructions of the teacher;
2. Credits will be awarded to a student who scores at least 50% on homework assignments, at least 50% on written tests, and at least 50% on a seminar work. A grade of A requires at least 90%, a grade of B requires at least 80%, a grade of C requires at least 70%, a grade of D requires at least 60%, and a grade of E requires at least 50%.

Learning outcomes:
While solving homework, the student will become familiar with different types of problems from mathematical competitions and demonstrate the ability to solve them with the mathematical apparatus of the student for whom the problem is intended.
While solving problems in written tests, the student will gain proficiency in solving problems from mathematical competitions such as Pythagorean and Mathematical Kangaroo.
The student will demonstrate in the seminar work that he/she can prepare the content of a mathematics circle that are motivating for his/her students.

Brief outline of the course:
The content is focuses on solving problems from mathematical competitions, and on familiarization with activities that will be motivating and fun for pupils and will develop their mathematical thinking
Students will also learn about the structure of mathematical competitions for middle and high school students and will be theoretically prepared for guiding mathematics circle.
The seminars focus on the following topics:
Number theory.
Equations, inequalities, inequalities.

Word problems.
Planimetry.
Stereometry.
Combinatorics. Dirichlet principle. Combinatorial geometry. Probability.
Mathematical games.

Recommended literature:

Acheson, D.: 1089 a další parádní čísla, Dokořán, 2006. (in czech)
Brožúry z edície Škola mladých matematikov. (in slovak)
Séria brožúr: XY. ročník matematickej olympiády. (in slovak)
Ziegler, G.M.: Matematika Vám to spočítá, Universum, Praha, 2011. (in czech)
Zhouf, J. a kol.: Matematické příběhy z korespondenčních seminářu, Prometheus, Praha, 2006. (in czech)

Course language:
Slovak

Notes:

Course assessment
Total number of assessed students: 133

A	B	C	D	E	FX
57.14	20.3	12.03	7.52	3.01	0.0

Provides: doc. RNDr. Ingrid Semanišinová, PhD.

Date of last modification: 18.04.2022

Approved: doc. PhDr. Beata Gajdošová, PhD., doc. RNDr. Stanislav Lukáč, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Science	
Course ID: KPPaPZ/SPMOS/16	**Course name:** Social Psychology for Double-Major Study

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: 4.

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, either in the teaching process or in the assessment process.
Continuous assessment: credit test (min. Number of 11 points) + individual work - power point presentation (min. Number of points 11). Total max. 40 b. - min. 22 b.
Final evaluation (exam, final thesis ...): exam max. 60 points, min. 30 points.
At least 90 points are required to obtain an "A" rating, 80-89 points to obtain an "B" rating, 70-79 points to obtain an "C" rating, 60-69 points to obtain an "D" rating and 51 to obtain an "E" rating 51 -59 points. The final evaluation is calculated as the sum of the points obtained

Learning outcomes:
Analysis of the social and socio-psychological context of human existence, with emphasis on the relationship to oneself, the relationship to others and the relationship to the social environment. The objectives of the study of the subject social psychology can be divided into three basic areas: a / to approach the subject, key areas of building the knowledge system and methods of this psychological discipline; b / specify the place of social psychology in the structure of psychological sciences and its relations to social and behavioral sciences; c / to provide information on the main directions of application of socio-psychological knowledge in research, expertise and routine work.
The basic thematic areas of the course will be the content of lectures. The purpose of the seminars will be to expand the subject matter in the form of presentations by students on the topic (papers) and to illustrate approaches to knowledge of the field (methodologies, research, model situations, socio-psychological influenza procedures).
The student is able to demonstrate an understanding of an individual's behavior in socio-psychological contexts (eg social cognition, social communication, affiliation, aggression, social conflicts, etc.).
The student is able to describe, explain and evaluate basic socio-psychological theoretical concepts and be able to illustrate them with examples.
The student is able to apply the learned knowledge - will be able to predict some forms of human behavior in socio-psychological contexts.

The method of teaching the subject will be oriented to the student. Lecturers 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:
Background, subject and history of social psychology. Social cognition. Social communication. Social psychology of personality. Self-image and identity. Coping. Social impact, conformity. Aggression and aggression.

Recommended literature:

Course language:

Notes:

Course assessment
Total number of assessed students: 139

A	B	C	D	E	FX
20.86	28.06	26.62	15.83	5.76	2.88

Provides: Mgr. Ondrej Kalina, PhD.

Date of last modification: 24.06.2022

Approved: doc. PhDr. Beata Gajdošová, PhD., doc. RNDr. Stanislav Lukáč, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: KPO/ SPKVV/15	**Course name:** Social and Political Context of Education

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:
Evaluation of the developed assignment.
A ... 100,00% - 91,00%
B ... 90,99% - 81,00%
C ... 80,99% - 71,00%
D ... 70,99% - 61,00%
E ... 60,99% - 51,00%
FX ... 50,99% and less

Learning outcomes:
The aim and purpose of teaching the subject is to impart knowledge and promote reflection on the issues of education and training in the context of social and political change.
Development of knowledge: the student will be able to know the current theoretical background related to the process of education and training in a modern democratic society.
The student will be able to navigate the social and political space - politically, legally, socially and culturally. He/she will be able to look for alternatives and solutions to dysfunctions, while at the same time exploiting opportunities and ways to implement them.

Brief outline of the course:
The status, role and functions of education in human life and society. The political, social and economic objectives of education. Education, learning and social change in the context of globalisation. Macrosocial determinants of education. Current roles of education and training in modern performance and democratic society.

Recommended literature:
Domestic and foreign journal literature
Kudláčová, B.(2007) Človek a výchova v dejinách európskeho myslenia. Trnava: PdF TU
Zeus Leonardo (2010) Handbook of Cultural Politics and Education. Rotterdam, The Netherlands.

Course language:
Slovak

Notes:

Course assessment
Total number of assessed students: 157

A	B	C	D	E	FX
60.51	21.02	11.46	4.46	1.27	1.27

Provides: Mgr. Ján Ruman, PhD.

Date of last modification: 13.04.2022

Approved: doc. PhDr. Beata Gajdošová, PhD., doc. RNDr. Stanislav Lukáč, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: KPPaPZ/SV1/08	**Course name:** Social-Psychological Training I

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

Number of ECTS credits: 3

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

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: 102

A	B	C	D	E	FX
98.04	0.0	0.0	1.96	0.0	0.0

Provides:

Date of last modification: 09.11.2022

Approved: doc. PhDr. Beata Gajdošová, PhD., doc. RNDr. Stanislav Lukáč, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: KPPaPZ/SV2/08	**Course name:** Social-Psychological Training II

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: KPPaPZ/SV1/08

Conditions for course completion:

Learning outcomes:

Brief outline of the course:

Recommended literature:
Komárková.R., Slaměník,I., Výrost,J. (Eds.): Aplikovaná sociální psychologie III: Sociálněpsychologický výcvik. Praha, Grada, 2001.
Výrost, J., Slaměník, I.: Sociání psychologie. Praha: Portál 2008.Domestic and foreign magazines

Course language:

Notes:

Course assessment
Total number of assessed students: 67

A	B	C	D	E	FX
100.0	0.0	0.0	0.0	0.0	0.0

Provides:

Date of last modification: 09.11.2022

Approved: doc. PhDr. Beata Gajdošová, PhD., doc. RNDr. Stanislav Lukáč, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Science	
Course ID: KPS/ SOC/05	**Course name:** Sociology

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:
Continuous evaluation: active participation in seminars, test
Final evaluation: Oral exam (In case of an unfavorable epidemiological situation, teaching will take place in an online environment).

Learning outcomes:
Getting acquainted with the basics of sociology as a theoretical-empirical science in an effort to create a basis for the study of other sociological and political science disciplines.

Brief outline of the course:
Origin, development, essence and subject of Sociology;
Relation of Sociology to other scientific disciplines;
Paradigms, Directions and Theories of Sociology;
Culture;
Socialization, Social status, Social role;
Deviation and Social control;
Society, Social structure, Social groups;
Social stratification, Social mobility, Social (in)equalities;
Organizations and Bureaucracy;
Social Change;
Social Institutions: Economics and Politics;
Social Institutions: Family and Religion;
Research in Sociology;

Recommended literature:
BAUMAN, Z.: Myslet sociologicky Praha: Slon, 1996.
BERGER, P. L.: Pozvání do sociologie. Praha: FMO, 1991.
BUOCOVÁ, Z.: Úvod do sociológie. Prešov: FF PU, 2006.
GIDDENS, A.: Sociologie. Praha: Argo, 1999.
HAVLÍK, R.: Úvod do sociologie. Praha: Karolinum, 2005
JANDOUREK, J.: Úvod do sociologie. Praha: Portál, 2003.
KELLER, J.: Úvod do sociologie. Praha: Slon, 1991.
MONTONSSÉ, M.; RENNOARD, G.: Přehled sociologie. Praha: Portál, 2005.

NOVOTNÁ, E.: Základy sociologie. Praha: Grada, 2008.
PETRUSEK, M.; ALAN, J.; DUFFKOVA, J.; HAVLÍK, R.; KABELE, J.: Sociologie. Praha: SPN, 1997.
SOPÓCI, J.; BÚZIK, B.: Základy sociológie. Bratislava: SPN, 1995.
URBAN, L.: Sociologie trochu jinak. Praha: Grada, 2011.

Course language:
Slovak, Czech

Notes:

Course assessment
Total number of assessed students: 873

A	B	C	D	E	FX
40.21	26.92	16.72	9.28	5.27	1.6

Provides: doc. Mgr. Alexander Onufrák, PhD.

Date of last modification: 27.09.2021

Approved: doc. PhDr. Beata Gajdošová, PhD., doc. RNDr. Stanislav Lukáč, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: KGER/ OJPV1/07	**Course name:** Specialised German Language - Natural Sciences 1

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:
Active participation in class and completed homework assignments. Students are allowed to miss 2 classes at the most (2x90 min.). 1 control tests during the semester and written assignments. 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:
The development of students´ language skills - reading, writing, listening, speaking, improvement of their linguistic competence - students acquire knowledge of selected phonological, lexical and syntactic aspects, development of pragmatic competence - students can efectively use the language for a given purpose, with focus on Academic English and English for specific/professional purposes - Natural Science , level B1.

Brief outline of the course:

Recommended literature:
Duden Basiswissen Schule. Abitur: Enthält die Bände Mathematik, Physik, Chemie, Biologie, Geographie, Geschichte. (2007). ISBN: 978-3411002511.
Zettl, E. et al.: Aus moderner Technik und Naturwissenschaft. Ismaning: Hueber, 2003.
Reiss, K.: Basiswissen Zahlentheorie: Eine Einführung in Zahlen und Zahlbereiche (Mathematik für das Lehramt), Springer, 2007. ISBN: 978-3540453772.
Meyer, L., Schmidt, G.- D.: Basiswissen Ausbildung: Physik. Bildungsverlag EINS, 2008. ISBN: 978-3427799337.
Duden. Schülerduden Biologie: Das Fachlexikon von A-Z. Bibliographisches Institut Berlin, 2009. ISBN: 978-3411054275.
Mortimer, Ch. E., Müller, U., Beck, J.: Chemie: Das Basiswissen der Chemie. Stuttgart: Thieme, 2014. ISBN: 978-313484311
Deutsch perfekt, GEO, MaxPlanck Forschung a iné printové a elektronické médiá

Course language:
German

Notes:

Course assessment
Total number of assessed students: 147

A	B	C	D	E	FX
24.49	23.13	23.81	20.41	7.48	0.68

Provides: Mgr. Blanka Jenčíková

Date of last modification: 09.02.2023

Approved: doc. PhDr. Beata Gajdošová, PhD., doc. RNDr. Stanislav Lukáč, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚTVŠ/ TVa/11	**Course name:** Sports Activities I.

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., 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:
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:
BENCE, M. et al. 2005. Plávanie. Banská Bystrica: FHV UMB. 198s. ISBN 80-8083-140-8. [online] Dostupné na: https://www.ff.umb.sk/app/cmsFile.php?disposition=a&ID=571
BUZKOVÁ, K. 2006. Fitness jóga, harmonické cvičení těla I duše. Praha: Grada. ISBN 8024715252.
JARKOVSKÁ, H, JARKOVSKÁ, M. 2005. Posilování s vlastním tělem 417 krát jinak. Praha: Grada. ISBN 9788024757308.
KAČÁNI, L. 2002. Futbal:Tréning hrou. Bratislava: Peter Mačura – PEEM. 278s. ISBN 8089197027.

KRESTA, J. 2009. Futsal.Praha: Grada Publishing, a.s. 112s. ISBN 9788024725345.
LAWRENCE, G. 2019. Power jóga nejen pro sportovce. Brno: CPress. ISBN 9788026427902.
SNER, Wolfgang. 2004. Posilování ve fitness. České Budějovice: Kopp. ISBN 8072322141.
STACKEOVÁ, D. 2014. Fitness programy z pohledu kinantropologie. Praha: Galén. ISBN 9788074921155.
VOMÁČKO, S. BOŠTÍKOVÁ, S. 2003. Lezení na umělých stěnách. Praha: Grada. 129s. ISBN 8024721743.

Course language:
Slovak language

Notes:

Course assessment
Total number of assessed students: 14548

abs	abs-A	abs-B	abs-C	abs-D	abs-E	n	neabs
86.46	0.07	0.0	0.0	0.0	0.05	8.41	5.02

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

Date of last modification: 29.03.2022

Approved: doc. PhDr. Beata Gajdošová, PhD., doc. RNDr. Stanislav Lukáč, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚTVŠ/ TVb/11	**Course name:** Sports Activities II.

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

Number of ECTS credits: 2

Recommended semester/trimester of the course: 2.

Course level: I., 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:
BENCE, M. et al. 2005. Plávanie. Banská Bystrica: FHV UMB. 198s. ISBN 80-8083-140-8. [online] Dostupné na: https://www.ff.umb.sk/app/cmsFile.php?disposition=a&ID=571
BUZKOVÁ, K. 2006. Fitness jóga, harmonické cvičení těla I duše. Praha: Grada. ISBN 8024715252.
JARKOVSKÁ, H, JARKOVSKÁ, M. 2005. Posilování s vlastním tělem 417 krát jinak. Praha: Grada. ISBN 9788024757308.
KAČÁNI, L. 2002. Futbal:Tréning hrou. Bratislava: Peter Mačura – PEEM. 278s. ISBN 8089197027.
KRESTA, J. 2009. Futsal.Praha: Grada Publishing, a.s. 112s. ISBN 9788024725345.

LAWRENCE, G. 2019. Power jóga nejen pro sportovce. Brno: CPress. ISBN 9788026427902.
SNER, Wolfgang. 2004. Posilování ve fitness. České Budějovice: Kopp. ISBN 8072322141.
STACKEOVÁ, D. 2014. Fitness programy z pohledu kinantropologie. Praha: Galén. ISBN 9788074921155.
VOMÁČKO, S. BOŠTÍKOVÁ, S. 2003. Lezení na umělých stěnách. Praha: Grada. 129s. ISBN 8024721743.

Course language:
Slovak language

Notes:

Course assessment
Total number of assessed students: 13211

abs	abs-A	abs-B	abs-C	abs-D	abs-E	n	neabs
84.35	0.51	0.02	0.0	0.0	0.05	10.78	4.29

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

Date of last modification: 29.03.2022

Approved: doc. PhDr. Beata Gajdošová, PhD., doc. RNDr. Stanislav Lukáč, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚTVŠ/ TVc/11	**Course name:** Sports Activities III.

Course type, scope and the method:
Course type: Practice
Recommended course-load (hours):
Per week: 2 **Per study period:** 28
Course method: 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:
BENCE, M. et al. 2005. Plávanie. Banská Bystrica: FHV UMB. 198s. ISBN 80-8083-140-8. [online] Dostupné na: https://www.ff.umb.sk/app/cmsFile.php?disposition=a&ID=571
BUZKOVÁ, K. 2006. Fitness jóga, harmonické cvičení těla I duše. Praha: Grada. ISBN 8024715252.
JARKOVSKÁ, H, JARKOVSKÁ, M. 2005. Posilování s vlastním tělem 417 krát jinak. Praha: Grada. ISBN 9788024757308.
KAČÁNI, L. 2002. Futbal:Tréning hrou. Bratislava: Peter Mačura – PEEM. 278s. ISBN 8089197027.
KRESTA, J. 2009. Futsal.Praha: Grada Publishing, a.s. 112s. ISBN 9788024725345.

LAWRENCE, G. 2019. Power jóga nejen pro sportovce. Brno: CPress. ISBN 9788026427902.
SNER, Wolfgang. 2004. Posilování ve fitness. České Budějovice: Kopp. ISBN 8072322141.
STACKEOVÁ, D. 2014. Fitness programy z pohledu kinantropologie. Praha: Galén. ISBN 9788074921155.
VOMÁČKO, S. BOŠTÍKOVÁ, S. 2003. Lezení na umělých stěnách. Praha: Grada. 129s. ISBN 8024721743.

Course language:
Slovak language

Notes:

Course assessment
Total number of assessed students: 8879

abs	abs-A	abs-B	abs-C	abs-D	abs-E	n	neabs
88.62	0.07	0.01	0.0	0.0	0.02	4.25	7.03

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

Date of last modification: 29.03.2022

Approved: doc. PhDr. Beata Gajdošová, PhD., doc. RNDr. Stanislav Lukáč, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚTVŠ/ TVd/11	**Course name:** Sports Activities IV.

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., 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:
BENCE, M. et al. 2005. Plávanie. Banská Bystrica: FHV UMB. 198s. ISBN 80-8083-140-8. [online] Dostupné na: https://www.ff.umb.sk/app/cmsFile.php?disposition=a&ID=571
BUZKOVÁ, K. 2006. Fitness jóga, harmonické cvičení těla I duše. Praha: Grada. ISBN 8024715252.
JARKOVSKÁ, H, JARKOVSKÁ, M. 2005. Posilování s vlastním tělem 417 krát jinak. Praha: Grada. ISBN 9788024757308.
KAČÁNI, L. 2002. Futbal:Tréning hrou. Bratislava: Peter Mačura – PEEM. 278s. ISBN 8089197027.
KRESTA, J. 2009. Futsal.Praha: Grada Publishing, a.s. 112s. ISBN 9788024725345.

LAWRENCE, G. 2019. Power jóga nejen pro sportovce. Brno: CPress. ISBN 9788026427902.
SNER, Wolfgang. 2004. Posilování ve fitness. České Budějovice: Kopp. ISBN 8072322141.
STACKEOVÁ, D. 2014. Fitness programy z pohledu kinantropologie. Praha: Galén. ISBN 9788074921155.
VOMÁČKO, S. BOŠTÍKOVÁ, S. 2003. Lezení na umělých stěnách. Praha: Grada. 129s. ISBN 8024721743.

Course language:
Slovak language

Notes:

Course assessment
Total number of assessed students: 5628

abs	abs-A	abs-B	abs-C	abs-D	abs-E	n	neabs
82.66	0.28	0.04	0.0	0.0	0.0	8.05	8.97

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

Date of last modification: 29.03.2022

Approved: doc. PhDr. Beata Gajdošová, PhD., doc. RNDr. Stanislav Lukáč, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: KPPaPZ/SI2/09	**Course name:** Statistical Methods II

Course type, scope and the method:
Course type: Practice
Recommended course-load (hours):
Per week: 3 **Per study period:** 42
Course method: present

Number of ECTS credits: 3

Recommended semester/trimester of the course: 6.

Course level: I.

Prerequisities:

Conditions for course completion:
Assessment is based on interim evaluation.

Learning outcomes:
The aim of the subject is to increase the practical capabilities of students in processing statistical data using the SPSS software package. By completing the subject, students will learn and practice basic competences for working with databases. Students will learn how to use the functions of the SPSS application in the context of descriptive and infferential statistics to the extent covered within the subject Statistics I.

Brief outline of the course:

Recommended literature:
1. J Pallant : SPSS Survival manual. A step by step guide to data analysis using SPSS for Windows.

Course language:

Notes:

Course assessment
Total number of assessed students: 60

A	B	C	D	E	FX
96.67	0.0	3.33	0.0	0.0	0.0

Provides: Mgr. Jozef Benka, PhD.

Date of last modification: 18.02.2021

Approved: doc. PhDr. Beata Gajdošová, PhD., doc. RNDr. Stanislav Lukáč, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Science	
Course ID: ÚMV/ SVK/10	**Course name:** Students scientific conference
Course type, scope and the method: **Course type:** **Recommended course-load (hours):** **Per week: Per study period:** **Course method:** present	
Number of ECTS credits: 4	
Recommended semester/trimester of the course:	
Course level: I., II.	
Prerequisities:	
Conditions for course completion:	
Learning outcomes: Individual scientific work of students. Publishing of obtained results in a written form and as a public presentation.	
Brief outline of the course:	
Recommended literature: With respect to the research problematics (article in journals, books).	
Course language: Slovak or English	
Notes:	
Course assessment Total number of assessed students: 17	

abs	n
100.0	0.0

Provides:
Date of last modification: 01.12.2021
Approved: doc. PhDr. Beata Gajdošová, PhD., doc. RNDr. Stanislav Lukáč, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Science	
Course ID: ÚFV/ DGS/21	**Course name:** Students` Digital Literacy

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:
Summary evaluation based on ongoing assessment:
1. Practical ongoing assignments and their defense (at least 50% needed)
3. Active participation during face-to-face contact learning in classical or virtual classroom (3 absences allowed) and during online learning (no absence, uploading all individual ongoing assignments)

Learning outcomes:
The student should obtain and know to apply basic knowledge and skills in working with current digital technologies (mobile phone, tablet, laptop, web technologies):
1. according to the current European framework for the Digital competence DigComp and ECDL
2. for better and more effective learning, work and active life in higher education, later lifelong learning and further career prospects.

Brief outline of the course:
01.-02. Basic digital skills, DigComp framework, ECDL
- modern web browser and its personalization
- security, privacy, responsible use of DT
03.-05. Search, collection and evaluation of digital content
- scanning, audio recording and speech resolution, optical resolution (OCR)
- digital notebooks (Google keep, Evernote, Onenote)
- evaluation of digital resources (Google forms and sections)
06.-08. Editing and creating digital content
- cloud and interactive documents
(text and spreadsheet editors - Google, Microsoft, Jupyter)
- work with pdf documents, e-books and videos
(Kami, Google books, Screencasting)
09. - 10. Organization, protection and sharing of digital content
- modern LMS and cloud storage
(Google Classroom, Microsoft team, Google Drive, Dropbox)
- time management (Google Calendar)
11.-13. Digital communication and cooperation

- collaborative interactive whiteboards (Jamboard, Whiteboard)
- online presentations and online meetings
(Google presentations, Powerpoint, Google meet, Microsoft teams)

Recommended literature:

1. Carretero Gomez, S., Vuorikari, R. and Punie, Y., DigComp 2.1: The Digital Competence Framework for Citizens with eight proficiency levels and examples of use, Luxembourg, 2017, ISBN 978-92-79-68006-9, https://www.ecdl.sk/
2. Bruff, D. (2019). Intentional Tech: Principles to Guide the Use of Educational Technology in College Teaching (1st edition). Morgantown: West Virginia University Press.
3. Baker, Y. (2020). Microsoft Teams for Education. Amazon Digital Services.
4. Miller, H. (2021). Google Classroom + Google Apps: 2021 Edition. Brentford: Orion Edition Limited.

Course language:
slovak

Notes:

Course assessment
Total number of assessed students: 81

A	B	C	D	E	FX
45.68	3.7	7.41	0.0	43.21	0.0

Provides: doc. RNDr. Jozef Hanč, PhD.

Date of last modification: 26.01.2022

Approved: doc. PhDr. Beata Gajdošová, PhD., doc. RNDr. Stanislav Lukáč, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Science	
Course ID: ÚTVŠ/ LKSp/13	**Course name:** Summer Course-Rafting of TISA River

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:
Completion: passed
Condition for successful course completion:
- active participation in line with the study rule of procedure and course guidelines
- effective performance of all tasks: carrying a canoe, entering and exiting a canoe, righting a canoe, paddling

Learning outcomes:
Content standard:
The student demonstrates relevant knowledge and skills in the field, which content is defined in the course syllabus and recommended literature.
Performance standard:
Upon completion of the course students are able to meet the performance standard and:
- implement the acquired knowledge in different situations and practice,
- implement basic skills to manipulate a canoe on a waterway,
- determine the right spot for camping,
- prepare a suitable material and equipment for camping.

Brief outline of the course:
Brief outline of the course:
1. Assessment of difficulty of waterways
2. Safety rules for rafting
3. Setting up a crew
4. Practical skills training using an empty canoe
5. Canoe lifting and carrying
6. Putting the canoe in the water without a shore contact
7. Getting in the canoe
8. Exiting the canoe
9. Taking the canoe out of the water
10. Steering
a) The pry stroke (on fast waterways)
b) The draw stroke

11. Capsizing
12. Commands

Recommended literature:
1. JUNGER, J. et al. Turistika a športy v prírode. Prešov: FHPV PU v Prešove. 2002. ISBN 8080680973.
Internetové zdroje:
1. STEJSKAL, T. Vodná turistika. Prešov: PU v Prešove. 1999.
Dostupné na: https://ulozto.sk/tamhle/UkyxQ2lYF8qh/name/Nahrane-7-5-2021-v-14-46-39#!ZGDjBGR2AQtkAzVkAzLkLJWuLwWxZ2ukBRLjnGqSomICMmOyZN==

Course language:
Slovak language

Notes:

Course assessment
Total number of assessed students: 209

abs	n
37.32	62.68

Provides: Mgr. Dávid Kaško, PhD.

Date of last modification: 29.03.2022

Approved: doc. PhDr. Beata Gajdošová, PhD., doc. RNDr. Stanislav Lukáč, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Science	
Course ID: KPS/ SYP/06	**Course name:** Systems of Psychology

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

Number of ECTS credits: 6

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

Course level: I.

Prerequisities:

Conditions for course completion:
Seminar evaluation (40% of the total evaluation): 1. test examination - 15b test (min 8);
2. test examination - 15b test (min 8); 3. seminar work on a selected topic, paper - possibility to get a maximum of 10b
Final evaluation (60% of the total evaluation): written exam in the examination period max. 60b min.31b.
Overall rating: A (100-90b), B (80-89b), C (70-79b), D (60-69b), E (51-59b), FX (50b and less).
The student is allowed max. 2 absences from exercises.
The information will be yearly specified on the electronic noticeboard of the course in AiS2, aleternatively in LMS UPJŠ or MS Teams environment.

Learning outcomes:
The aim is to acquaint students with the development of psychological thinking with emphasis on the main psychological directions and their representatives. The student will acquire a basic orientation in the main psychological directions of the 20th century and current directions of psychology, through their basic theories, research as well as connection to a broader context
The information will be yearly specified on the electronic noticeboard of the course in AiS2, aleternatively in LMS UPJŠ or MS Teams environment.

Brief outline of the course:
Brief syllabus:
1 Introduction to the study of history and systems of psychology,
2 The influence of philosophy and physiology on modern psychology.
3 The beginnings of modern psychology as a separate scientific discipline.
4 Structuralism in psychology.
5 Functionalism in psychology - CH. Darwin, W. James and his system of psychology, Chicago School J. Dewey. R. S. Woodworth.
6 Russian reflexology and associationism - predecessors of behaviorism.
7 Behaviourism, J.B Watson
8 Skinner's behaviorism and neo-neobehaviorizmus.
9 Gestalt psychology.
10 Psychoanalysis: Freud S. Predecessors of psychoanalysis.

11 Neofreudism: ego psychology A. Freud, analytical psychology of C.G. Jung.
12 Individual psychology - A. Adler, K. Horney, Fromm E, H. Sullivan.
12, Humanistic psychology.
13 Cognitive psychology.
14 Effects of postmodern thinking in psychology. Critical psychology, its main ideas and leaders.
15 Social constructivism J. Shotter and K. J. Gergen. Psychology of discourse and narrative psychology
The information will be yearly specified on the electronic noticeboard of the course in AiS2, aleternatively in LMS UPJŠ or MS Teams environment.

Recommended literature:
Hunt, M.: Dejiny psychológie, Portál, Praha, 2000;
Plháková, A.: Dejiny psycholoie, Grada, 2006;
Hoskovec, J., Hoskovcová, S.: Stručné dejiny stredoeurópskej psychológie. Portál, Praha, 2000
Hergenhahn, B. R. (2001). An introduction to the history of psychology (4th ed.). Wadsworth/ Thomson Learning.

Course language:

Notes:

Course assessment
Total number of assessed students: 871

A	B	C	D	E	FX
17.91	25.72	30.42	17.34	5.97	2.64

Provides: Mgr. René Šebeňa, PhD.

Date of last modification: 16.09.2021

Approved: doc. PhDr. Beata Gajdošová, PhD., doc. RNDr. Stanislav Lukáč, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Science	
Course ID: KPPaPZ/ECo-C1/14	**Course name:** Team Work ECo-C1
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: 4	
Recommended semester/trimester of the course: 3., 5.	
Course level: I., N	
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	

abs	n
98.23	1.77

Provides: PhDr. Anna Janovská, PhD.
Date of last modification: 28.06.2021
Approved: doc. PhDr. Beata Gajdošová, PhD., doc. RNDr. Stanislav Lukáč, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Science	
Course ID: KPS/ ZKP/06	**Course name:** The Fundamentals of Clinical Psychology

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

Number of ECTS credits: 6

Recommended semester/trimester of the course: 3., 5.

Course level: I.

Prerequisities: KPPaPZ/VPMOS/16 or KPS/VP1/05

Conditions for course completion:
Maximum 40 points per semester
Semester 40%,
exam 60% - oral form
Result mark
Sum of points from semester and exam:
A 90 – 100
B 80 – 89
C 70 – 79
D 60 – 69
E 51 – 59
FX 50 and less
The information will be yearly specified on the electronic noticeboard of the course in AiS2, aleternatively in LMS UPJŠ or MS Teams environment.

Learning outcomes:
The course introduces present information from applied psychological discipline - Clinical Psychology. It presents some actual theories, which explain basis of health, illness, dysfunction and disability. It concentrates on practical abilities, which are necessary for clinical psychology praxis. During the semester, students will gain the following knowledge (several included in the topics of the seminars):
- characteristics and content of clinical psychology,
- conditions for undergraduate and postgraduate education in clinical psychology,
- the specifics of clinical research
- a biopsychosocial approach to the treatment of mental disorders,
- clinical-psychological interview, initial psychodiagnostic interview,
- prevention in clinical psychology
- specifics of psychodiagnostics in clinical psychology,
- basics of psychopharmaco-therapy of mental disorders,
- ethical issues in clinical psychology,
They will acquire these skills during the semester
- how to solve ethical dilemmas in clinical psychology

- how to conduct a clinical-psychological interview,
- how to talk to a specific patient (depressed, silent ..)
- how to collect personal hystoro data from the patient,
- how to work with a child patient,
- how to apply theoretical knowledge about the child's early psychomotor development,
- how to proceed in the preoperative preparation of the patient,
- skill in the field of selected therapeutic procedures.

The information will be yearly specified on the electronic noticeboard of the course in AiS2, aleternatively in LMS UPJŠ or MS Teams environment.

Brief outline of the course:

1. The subject of clinical psychology, its position in the system of psychological sciences
2. History of the development of clinical psychology, history of clinical psychology in our country, important personalities in contemporary clinical psychology
3. Practical issues of the work of a clinical psychologist: prevention, crisis intervention, clinical-psychological interview, ethics in clinical psychology
4. Psychopharmacotherapy - overview, effect
5. The methodology of research and individual approach in clinical psychology
6. Systems of classification in psychiatry (ICD-10,DSM-V).
7. Clinical psychological methods in a/ anxiety disorders, b/affective disorders, c/ psychotic disorders, d/ addictions, e/ eating disorders, f/ organic mental disorders, g/ personality disorders. Basic psychotherapeutic strategies – review. Crisis interventions, suicidology.
8. Psychology of the sonmatic disease - change of needs, psychological correlates of pain, communication with the patient
9. Psychodiagnostics in clinical psychology - clinical and test methods
10. Personal history and its place in clinical psychology - specifics for adult and pediatric patients

The information will be yearly specified on the electronic noticeboard of the course in AiS2, aleternatively in LMS UPJŠ or MS Teams environment.

Recommended literature:

Hricová, M. (2022). Úvod do klinickej psychológie. Košice: UPJŠ.
Heretik, A., Heretik, A., a spol. (2016). Klinická psychológia, Nové Zámky: Psychoprof.
Trull, T.J., Prinstein, M. (2012). Clinical psychology. Wadsworth: Cengage Learning.
Baštecká,B., Goldman, P. (2001). Základy klinické psychologie, Praha: Portál.
Baštecká, B. a kol. (2006). Klinická psychologie v praxi, Praha: Portál.
Křivohlavý, J. (2003). Psychologie zdraví. Praha: Portal.
Ondrášová, M. (2005). Psychiatria. Bratislava: Osveta.
Říčan, P., Krejčířová, D. a kol. (2006). Dětská klinická psychologie, Praha: Grada.

Course language:

Slovak, English

Notes:

Course assessment

Total number of assessed students: 771

A	B	C	D	E	FX
40.08	28.79	17.38	8.43	3.11	2.2

Provides: doc. Mgr. Monika Hricová, PhD.

Date of last modification: 30.11.2022

Approved: doc. PhDr. Beata Gajdošová, PhD., doc. RNDr. Stanislav Lukáč, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Science	
Course ID: KPS/ ZPSP/06	**Course name:** The Fundamentals of Psychology of Work

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., 5.

Course level: I.

Prerequisities:

Conditions for course completion:
During semester:
-Credit test (20p), minimum 11p
- Semester assignment - essay (20p), minimum 11p, for detailed information please see electronic noticeboard.
Overall evaluation:
- Semester maximum 40 points (minimum 22p), exam 60 points (minimum 31p)
- together min. 53p
The information will be yearly specified on the electronic noticeboard of the course in AiS2, aleternatively in LMS UPJŠ or MS Teams environment.

Learning outcomes:
Aim of study is to give the opportunity to students to familiarize with basic knowledge from applied field of psychology – work psychology. During the semester, focus is on meaning of job, work conditions, relationships on workplace and interaction between work and family. Besides, students can capture basic skills needed for execution of selected job areas of work psychologist.
During semester students will obtain knowledge in:
- history and development of work psychology, meaning of work in human life
- unemployment and options how to work with unemployed people
- workplace environment and possible negative consequences of it on people´s mental health
- job and organization adaptation
- job satisfaction and interaction between work and family
- basic psychodiagnostics methods used in work psychology
Besides, students can obtain skills in:
- analysis of physical work environment with focus on it´s psychological effect on employee
- preparation of adaptation program
- solving negative consequences of work environment
- setting of work environment design in order to avoid work-family conflicts
- work with selected psychodiagnostics methods
The information will be yearly specified on the electronic noticeboard of the course in AiS2, aleternatively in LMS UPJŠ or MS Teams environment.

Brief outline of the course:
Definition of work psychology, historical preconditions of constitution of work psychology, work and her conditions, work performance, motivation to work and work satisfaction, forming of work environment, relationships on workplace, job-family interaction

Recommended literature:
Rothmann, S., Cooper, C. L., & Rothmann, S. (2015). Work and organizational psychology (Second Edition). Routledge, Taylor & Francis Group.
Schmitt, N., & Weiner, I. B. (Eds.). (2013). Industrial and organizational psychology (2. ed). Wiley.
Muchinsky, P. M. (2006). Psychology applied to work: An introduction to industrial and organizational psychology (8th ed). Thomson/Wadsworth.
Levy, P. E. (Paul E. (2017). Industrial/organizational psychology: Understanding the workplace. Worth Publishers, Macmillan Learning.
Arnold, J., & Randall, R. (2016). Work psychology: Understanding human behaviour in the workplace (Sixth Edition). Pearson.

Course language:
Slovak, English

Notes:
Lectures and activities are adapted to both, physically present and distance form of education. For further information and current changes in the form of teaching (distance vs. full-time), please see electronic noticeboard.

Course assessment
Total number of assessed students: 762

A	B	C	D	E	FX
37.66	28.87	18.24	10.1	4.46	0.66

Provides: Mgr. Denisa Fedáková, PhD., PhDr. Katarína Kušnírová, PhD., Mgr. Simona Ďurbisová, PhD.

Date of last modification: 16.09.2021

Approved: doc. PhDr. Beata Gajdošová, PhD., doc. RNDr. Stanislav Lukáč, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: KPE/ TVE/08	**Course name:** Theory of Education

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: 631

A	B	C	D	E	FX
43.11	31.22	16.8	5.07	1.74	2.06

Provides: Mgr. Katarína Petríková, PhD.

Date of last modification: 20.06.2022

Approved: doc. PhDr. Beata Gajdošová, PhD., doc. RNDr. Stanislav Lukáč, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Science	
Course ID: KPPaPZ/TPPM/19	**Course name:** Theory of psychdiagnostics and psychometrics for inter-disciplinary study program

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.

Prerequisities: KPPaPZ/USMM/19

Conditions for course completion:
The assessment for this subject is based on a combination of interim evaluation and the final exam. Proportionally the interim evaluation represents 40% and the final exam 60% of the overall assessment. 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:
Students will acquire basic theoretical knowledge and practical skills in the field of psychological measurement with an emphasis on the context of the field. Attention is primarily paid to developing the individual ability to use the acquired knowledge in critical evaluation and interpretation of data obtained through psychological and psychodiagnostic measuring tools.

Brief outline of the course:
Psychometrics and definition of its basic concepts. Introduction to measurement and scaling in psychology. Types of tests and their characteristics, types of variables in psychometrics. Characteristics of psychodiagnostic methods. Psychological theories of tests, classical test theory and current models, Introduction to test design and item analysis, Reliability and methods of its detection, validation and sources of evidence of validity. Standardisation and norms.

Recommended literature:
1. Džuka, J. Základy Psychometrie a teórie testov, Prešov, 2006
2. Urbánek,T. - Denglerová,D., Širuček,J.: Psychometrika. Praha: Portál 2011
3. Říčan P.: Základy psychometrie. Bratislava: Psychodiagnostika 1977
4. FERJENČÍK, J.: Základy štatistických metód v sociálnych vedách. Košice: UPJŠ, 2006

Course language:

Notes:

Course assessment
Total number of assessed students: 61

A	B	C	D	E	FX
47.54	18.03	19.67	9.84	4.92	0.0

Provides: Mgr. Jozef Benka, PhD.

Date of last modification: 24.06.2022

Approved: doc. PhDr. Beata Gajdošová, PhD., doc. RNDr. Stanislav Lukáč, PhD.