

Course descriptions

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COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.ÚA/J-S-VL-501/17	Course title: Anatomy (1)
Educational activities: Type of activities: practicals / lecture Number of hours: per week: 3 / 2 per level/semester: 42 / 28 Form of the course: on-site learning	
Number of credits: 7	
Recommended semester: 1.	
Educational level: I.II.	
Prerequisites:	
Course requirements: 100% participation in practicals, at least 60% success rate on written tests Scale of assessment (preliminary/final): 10/90	
Learning outcomes: Graduate acquires detailed knowledge of the systematic anatomy of the locomotor system - general and special osteology, arthrology and myology and vessels and nerves of the upper and lower limb. Knowledge will be the basis for the study of topographical anatomy and also for the subsequent study of physiology, pathological anatomy and clinical disciplines.	
Class syllabus: Lectures : General osteology, arthrology and myology. Joints of the vertebral column and thorax. Joints of the skull. Spaces of the skull. Joints of the upper limb. Joints of the lower limb. Brachial plexus. Lumbar and sacral plexus. Vessels of the upper and lower limb. Practicals: Vertebral column. Skeleton of the thorax. Bones of the skull. Bones and muscles of the upper and lower limb.	
Recommended literature: Paulsen, F. et al. Sobotta Anatomy Textbook, Elsevier Science, 2018. 840 s. ISBN 9780702067600. Drake, R. et al. Gray's Anatomy for Students, 4th Edition. Elsevier Science, 2019, 1180 pp. ISBN 9780323393041 Paulsen, F. et al. Sobotta Atlas of Human Anatomy, (3 Volume Set), Urban and Fische, 2013. 1180 s. ISBN 9780702052507.	
Languages necessary to complete the course: english	
Notes:	

Past grade distribution

Total number of evaluated students: 822

A	ABS0	B	C	D	E	FX
4,14	0,12	11,8	22,38	26,28	24,09	11,19

Lecturers: doc. MUDr. Yveta Mellová, CSc., MUDr. Gabriela Hešková, PhD., MUDr. Lenka Kunertová, RNDr. Magdaléna Marčeková, PhD., doc. MUDr. Desanka Výbohová, PhD., MVDr. Dagmar Kalenská, PhD.

Last change: 13.09.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.ÚA/J-S-VL-502/15	Course title: Anatomy (2)
Educational activities: Type of activities: practicals / lecture Number of hours: per week: 5 / 4 per level/semester: 70 / 56 Form of the course: on-site learning	
Number of credits: 10	
Recommended semester: 2.	
Educational level: I.II.	
Prerequisites:	
Course requirements: 100% participation in practicals, 100% participation in dissection, at least 60% success rate on written tests Study result evaluation: A: 91–100 %, B: 81–90 %, C: 73–80 %, D: 66–72 %, E: 60–65 %, Fx: less than 60 % Scale of assessment (preliminary/final): 10/90	
Learning outcomes: The graduate of anatomy acquires detailed knowledge of systematic anatomy of selected organ systems, including peripheral vessels and peripheral nerves. Knowledge will be the basis for the study of topographical anatomy and also for the subsequent study of physiology, pathological anatomy and clinical disciplines.	
Class syllabus: Lectures: Topographical anatomy of the limbs. Cardiovascular system. Respiratory system. Alimentary system. Urogenital system. Practicals: Topographical anatomy of the limbs - dissection of the upper and lower limbs. Practical study of the organs of cardiovascular system, respiratory system, alimentary system and urogenital system at the cadaveric specimens and models.	
Recommended literature: Paulsen, F. et al. Sobotta Anatomy Textbook, Elsevier Science, 2018. 840 s. ISBN 9780702067600. Paulsen, F. et al. Sobotta Atlas of Human Anatomy, (3 Volume Set), Urban and Fische, 2013. 1180 s. ISBN 9780702052507. Drake, R. et al. Gray's Anatomy for Students, 4th Edition. Elsevier Science, 2019, 1180 pp. ISBN 9780323393041	
Languages necessary to complete the course: english	
Notes:	

Past grade distribution

Total number of evaluated students: 951

A	ABS0	B	C	D	E	FX
2,21	0,0	13,99	35,96	28,6	12,2	7,05

Lecturers: doc. MUDr. Yveta Mellová, CSc., MUDr. Gabriela Hešková, PhD., MUDr. Lenka Kunertová, RNDr. Magdaléna Marčeková, PhD., doc. MUDr. Desanka Výbohová, PhD., MVDr. Dagmar Kalenská, PhD.

Last change: 13.09.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.ÚCJ/J-S-VL-507-Z/15	Course title: Basic of Medical Terminology (1)
Educational activities: Type of activities: practicals Number of hours: per week: 2 per level/semester: 28 Form of the course: on-site learning	
Number of credits: 2	
Recommended semester: 1.	
Educational level: I.II.	
Prerequisites:	
Course requirements: 2 written tests, minimum percentage to pass each test is 60% Evaluation: A: 91-100%, B: 90-81%, C: 80-73%, D: 72-66%, E: 65-60%, FX: less than 60% Scale of assessment (preliminary/final): 50%/50%	
Learning outcomes: The main teaching output is to enable the graduates to get competence in exact and correct use of Latin medical terminology. Graduates in nursing should meet the following requirements: a) to master Latin pronunciation and spelling b) to master selected Latin morphological structures fragment in noun and verb terms/expressions c) to master basic Lexis especially in anatomical terminology, but also in clinical subjects and pharmacology d) to master basic syntactical structure of medical terms (complex terms, close/loose attributives, word-order) e) to master word-building (derivation in one-word terms) affixes different meanings of prefixes/suffixes) and relations of word-building elements (synonym, antonym, homonym).	
Class syllabus: 1. Brief Survey into the History of Medical Terminology. Introduction to Latin Grammar – Pronunciation of Latin Sounds. Word, Noun and Verb Categories. Noun Declension. Structure of Terms. 2. 1st A-Declension, Latin and Greek Nouns, 1st Declension Adjectives. 3. 2nd O-Declension: Latin Nouns – Masculines, Neuters. 4. 2nd O-Declension: Greek Nouns – Masculines, Neuters; 2nd Declension Adjectives. 5. 3rd Latin Consonant-Declension – Masculine, Feminine Nouns. 6. 3rd Latin Consonant-Declension – Neuter Nouns; Nouns of the 3rd Consonant-Declension + Adjectives of the 1st and the 2nd Declensions. 7. TEST I 8. 3rd Latin Vowel-Declension – Masculine and Feminine Nouns. 9. 3rd Latin Vowel-Declension – Neuter Nouns, Special Declension; Nouns of the 3rd Vowel-Declension + Adjectives of the 1st and the 2nd Declensions. 10. 4th Declension – Masculine, Neuter Nouns; Nouns of the 4th Declension + Adjectives of the 1st and the 2nd Declensions.	

11. 5th Declension – Feminine Nouns; Nouns of the 5th Declension + Adjectives of the 1st and the 2nd Declensions.
 12. 3rd Declension – Greek Nouns. Consonant-Declension – Masculines, Feminines, Neuters.
 13. 3rd Declension – Greek Nouns. Vowel-Declension. Terms formed by the suffixes -itis, -oma, -osis.
 14. TEST II

Recommended literature:

BUJALKOVÁ, M., JUREČKOVÁ, A.: Greco-Latin Medical Terminology. Textbook for Students of Medicine. 2nd revised edition. Martin: Vydavatel'stvo Osveta 2020. 190 s. ISBN 978-80-8063-490-2

Languages necessary to complete the course:

English language, Latin language

Notes:

Past grade distribution

Total number of evaluated students: 1026

A	ABS0	B	C	D	E	FX
21,93	0,68	32,07	20,76	15,79	8,38	0,39

Lecturers: PhDr. Božena Džuganová, PhD., Mgr. Miroslav Čovan, PhD., Mgr. Nora Malinovská, PhD., Mgr. Samuel Javornický, PhD., Mgr. Anna Barnau, PhD., Mgr. Desana Kiselová

Last change: 17.03.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.ÚCJ/J-S-VL-507-L/15	Course title: Basic of Medical Terminology (2)
Educational activities: Type of activities: practicals Number of hours: per week: 2 per level/semester: 28 Form of the course: on-site learning	
Number of credits: 2	
Recommended semester: 2.	
Educational level: I.II.	
Prerequisites: JLF.ÚCJ/J-S-VL-507-Z/15 - Basic of Medical Terminology (1)	
Course requirements: 2 written credit tests, minimum percentage to pass each is 60% Evaluation: A: 91-100%, B: 90-81%, C: 80-73%, D: 72-66%, E: 65-60%, FX: less than 60% Scale of assessment (preliminary/final): 40% for credit tests / 60% for written exam	
Learning outcomes: The main teaching output is to enable the graduates to get competence in exact and correct use of Latin medical terminology. Graduates in nursing should meet the following requirements: a) to master Latin pronunciation and spelling b) to master selected Latin morphological structures fragment in noun and verb terms/expressions c) to master basic Lexis especially in anatomical terminology, but also in clinical subjects and pharmacology d) to master basic syntactical structure of medical terms (complex terms, close/loose attributives, word-order) e) to master word-building (derivation in one-word terms) affixes different meanings of prefixes/suffixes) and relations of word-building elements (synonym, antonym, homonym).	
Class syllabus: 1. 3rd Declension Adjectives – One Termination Adjectives, Two Termination Adjectives, Three Termination Adjectives. 2. 3rd Declension Adjectives – Declension; Greek Adjectives of 3rd Declension 3. Comparison of Adjectives – Regular, Irregular, Incomplete Comparison. 4. Comparison of Adjectives – Declension of Comparative and Superlative. 5. Numerals – Cardinal, Ordinal, Multiple Numerals. Declension of Numerals. 6. Medical Prescription – Verb. Decimal Point Metric Prefixes. 7. TEST III 8. Medical Prescription – Grammatical Structure. Extemporaneous MP, Non-Extemporaneous MP (for Brand-Name Drugs). Abbreviations Used in MP. 9. Prefixes – Prefixes Related to Direction, Place and Time. Prefixes Denoting Quality and Negation. 10. Suffixes – Noun Suffixes, Adjective Suffixes. 11. Compound Words – Most Common Roots: Nouns Denoting State/Process, Disease, Branch of Medicine. Nouns Denoting Surgical or Diagnostic Procedure. Nouns Denoting	

Human Body, its Parts and Organs.
12. Compound Words – Most Common Roots: Nouns Denoting Body Fluids, Secretions, Substances. Adjectives/Numerals Denoting State, Quality, Quantity, Colour.
13. Repetition in Exercises.
14. TEST IV

Recommended literature:

BUJALKOVÁ, M., JUREČKOVÁ, A.: Greco-Latin Medical Terminology. Textbook for Students of Medicine. 2nd revised edition. Martin: Vydavatel'stvo Osveta 2020. 190 s. ISBN 978-80-8063-490-2

Languages necessary to complete the course:

English language, Latin language

Notes:

Past grade distribution

Total number of evaluated students: 910

A	ABS0	B	C	D	E	FX
29,78	0,22	34,51	20,33	10,88	4,18	0,11

Lecturers: PhDr. Božena Džuganová, PhD., Mgr. Miroslav Čovan, PhD., Mgr. Nora Malinová, PhD., Mgr. Samuel Javornický, PhD., Mgr. Anna Barnau, PhD., Mgr. Desana Kiselová

Last change: 06.04.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.ÚPF/J-S-VL-630/19	Course title: Basics of First Aid
Educational activities: Type of activities: practicals / lecture Number of hours: per week: 1 / ,5 per level/semester: 14 / 7 Form of the course: on-site learning	
Number of credits: 1	
Recommended semester: 2.	
Educational level: I.II.	
Prerequisites:	
Recommended prerequisites: Not applicable	
Course requirements: 100% attendance Assessment of students takes the form of a practical CPR exam using a high-fidelity simulator and computer software, which evaluates its percentage success and a short oral examination of the theory. Rating: A: 100-91%, B: 90-82%, C: 81-73%, D: 73-68%, E: 67-60%, FX 59% and less Scale of assessment (preliminary/final): final evaluation	
Learning outcomes: The student will understand the basic principles of first aid in traumatic and non-traumatic conditions. He/she can evaluate vital signs of a patient, controls ABCDE access to the first aid. The graduate is able to provide the patient with immediate CPR if the affected person is not breathing and is unconscious according to the latest recommendations of professional organizations.	
Class syllabus: Guiding principles for first aid. Chain of life. Unconsciousness. Basic life-saving procedures (head tilting, first aid when choking on a foreign body, stabilized position). Systematic approach to acute-ill patient ABCDE principle. Stopping breathing and blood circulation. BLS - Basic Life Support - resuscitation I., Use of AED (Automatic External Defibrillator) First aid for traumatic life-threatening conditions (bleeding, fractures, amputations, burns, bites, bites, melting) First aid for non-traumatic life-threatening conditions (cardiac, pulmonary, intoxication, anaphylaxis, seizures). Sudden childbirth Examination with CPR evaluation.	
Recommended literature:	
Languages necessary to complete the course: English Language	
Notes:	

Past grade distribution						
Total number of evaluated students: 60						
A	ABS0	B	C	D	E	FX
100,0	0,0	0,0	0,0	0,0	0,0	0,0
Lecturers: prof. MUDr. Jana Plevková, PhD.						
Last change: 29.03.2022						
Approved by:						

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.ÚA/J-S-VL-634/20	Course title: Effective Learning Methods
Educational activities: Type of activities: lecture Number of hours: per week: 1 per level/semester: 14 Form of the course: on-site learning	
Number of credits: 1	
Recommended semester: 1.	
Educational level: I.II.	
Prerequisites:	
Course requirements: Participation in lectures. Participation and evaluation of the questionnaires: motivation for learning, learning styles, coping strategies. Time management diary for successful learning. Scale of assessment (preliminary/final): 50/100 A:95% - 100%, B:88% - 94%, C: 77% - 87%, D: 86% - 76%, E: 60% - 65%	
Learning outcomes: The graduates acquire the information about the effective learning strategies based on the latest evidences from neuropsychology and neuropedagogy, useful information about the memory, forgetting curve, motivation and concentration. Students identify preferred learning styles by using verified questionnaires. The effect of the stress and anxiety on the academic success and learning will be discussed.	
Class syllabus: Learning processes, brain compatible learning. Motivation for learning. Concentration. Memory, repetition and Ebbinghaus forgetting curve. Multitasking and the brain. Time management for learning, procrastination. Learning styles. Sleep, memory and learning. Regime and learning. Stress, memory and learning. Exam stress. Coping strategies and autogenic training. Learning with digital technologies. Alternative learning techniques.	
Recommended literature: Boleková, Výbohová, Hešková et al. How to study and not forget - Principles of brain-compatible learning, Univerzita Pavla Jozefa Šafárika v Košiciach, ŠafárikPress, Košice 2020, ISBN 978-80-8152-897-2. https://unibook.upjs.sk/sk/lekarska-fakulta/1391-how-to-study-and-not-forget-principles-of-brain-compatible-learning Rhodes, Cleary and DeLosh. A Guide to Effective Studying and learning: Practical strategies from the Science of Learning, Oxford University press, 2019. Jensen. Introduction to Brain-Compatible Learning, Corwin, 2007. Our Textbook is prepared under the project KEGA 019UPJŠ – 4 - 2018 in slovak and english language.	
Languages necessary to complete the course:	

Notes:						
Past grade distribution						
Total number of evaluated students: 0						
A	ABS0	B	C	D	E	FX
0,0	0,0	0,0	0,0	0,0	0,0	0,0
Lecturers: doc. MUDr. Desanka Výbohová, PhD.						
Last change: 29.03.2022						
Approved by:						

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.ÚHE/J-S-VL-505/15	Course title: Histology and Embryology (1)
Educational activities: Type of activities: practicals / lecture Number of hours: per week: 4 / 2 per level/semester: 56 / 28 Form of the course: on-site learning	
Number of credits: 6	
Recommended semester: 2.	
Educational level: I.II.	
Prerequisites:	
Course requirements: - Student actively participates in 93% of all practical sessions (a student is allowed to miss out one practical for serious reason). - Forms of knowledge control: 1. discussion by microscope – description of histological slides (in case that student is not able to discuss histomorphology of basic human tissues in question, he/she will be asked to substitute the session in the last compensatory week), 2. student is required to pass 4 written tests (including multiple choice questions with one correct answer; TRUE/FALSE questions; diagram description), minimum percentage to pass each test is 70%, 3. practical (credit exam) – to identify and describe 2 human tissue slides (discussion and final result on responsibility of teacher). Evaluated A-Fx. Scale of assessment (preliminary/final): 20/80	
Learning outcomes: After completion of the subject, the student understands routine work with light microscope and is able to orient in basic staining methods (e.g. HE, Giemsa, PAS, Gomori, Orcein, Cajal, Oil red, Luxol blue, Anilin blue, Trichrom). Students understand histological terminology. Based on theoretical knowledge, student is able to identify microscopically main human tissues including their differential diagnosis and to discuss the topic in question (epithelium, connective tissue, cartilage, bone, muscles, nervous tissues, bone marrow and blood). Student is able to apply histomorphological knowledge in functional histology of organs and systems, e.g. functional histology of gland epithelium, muscle contraction, bone marrow cell production. Along with it, student understands the connection of histology and embryology with other medical branches such as biology, physiology, pathological physiology and pathological anatomy.	
Class syllabus: - Introduction to histology and embryology, role of histology and embryology in medical study. Cell in light microscopy and electron microscopy (review). - Functional histology of epithelial tissue I and II - covering and glandular epithelia, clinical correlations.	

- Functional histology of supporting / connective tissues - cells, extracellular matrix, fibers, types of connective tissues, clinical correlations.
- Functional histology of skeletal tissues - cartilages and bones, clinical correlations.
- Functional histology of bone marrow, peripheral blood, composition of plasma, stem cell, haematopoiesis topography, reactive elements, interstitium, clinical correlations.
- Functional histology of muscles - general characteristics, types of muscles, mechanism of contraction, connective tissue associated with muscles, regeneration of muscles, clinical correlations.
- Functional histology of nervous tissues - neuron synapses, division of nervous system, white and gray matter, degeneration and regeneration, clinical correlations.
- Central and peripheral nervous system - embryology, meninges and spaces, cerebrum, cerebellum, spinal cord, peripheral nerves, functional histology of CNS and PNS, cerebrospinal fluid, clinical correlations.
- Cardiovascular system I - embryology, general organization, structure of heart wall – endocard, myocard, epicard, conducting system, clinical correlations.
- Cardiovascular system II - embryology, arteries, veins, capillaries, lymphatics, clinical correlations.
- Lymphoid system - embryology, classification of lymphocytes, primary and secondary lymphatic organs and tissues, functional histology of thymus, lymph node, spleen, and tonsil, clinical correlations.
- Differential diagnosis of human tissues and organs.

Recommended literature:

Adamkov M. et al.: Introduction to functional histology-textbook. Fourth Revised and Updated Edition. Nakladatel'stvo P + M, 2017, 439 s., ISBN 978-80-89694-30-3

Mescher A.L.: Junqueira's basic histology: Text and Atlas. McGraw-Hill Education, 2018, 576 p. ISBN 1260026175

Sadler T.W.: Langman's Medical Embryology. Wolters Kluwer, 2019, 432 p. ISBN 978149638907

Gartner, L.P.: Color Atlas and Text of Histology. Lippincott Williams and Wilkins, 2017, 544 p. ISBN 1496346734

Moore, K.L., Persaud T.V.N., Torchia M.G.: Before we are born (Essentials of Embryology and Birth Defects). Elsevier, 2019, 350 p. ISBN 9780323608497

Ovalle W., Nahirney P.: Netter's Essential Histology, 3rd edition. Elsevier, 2020, 568 p. ISBN 978-0-3236-9464-3

Languages necessary to complete the course:

English language

Notes:

Past grade distribution

Total number of evaluated students: 905

A	ABS0	B	C	D	E	FX
41,55	0,22	27,96	17,57	9,06	3,65	0,0

Lecturers: prof. MUDr. Marian Adamkov, DrSc., doc. MVDr. Soňa Báľentová, PhD., RNDr. Mária Kovalská, PhD., RNDr. Veronika Mešťanová, PhD., RNDr. Eva Ježková, PhD.

Last change: 05.04.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.ÚLBI/J-S-VL-512/21	Course title: Medical Biology and Genetics (1)
Educational activities: Type of activities: practicals / lecture Number of hours: per week: 2 / 2 per level/semester: 28 / 28 Form of the course: on-site learning	
Number of credits: 6	
Recommended semester: 1.	
Educational level: I.II.	
Prerequisites:	
Course requirements: Successful passing of two credit tests (not less than 60%), 100% attendance at practical classes. Preliminary assessment: Test, stand-alone work, preparation of presentation according to given topic. Final assessment: Mark, according to credit tests results. Scale of assessment (preliminary/final): 100 / 0	
Learning outcomes: After completing the subject, the student has knowledge in general cytology – structure, function and pathology of the cell.	
Class syllabus: Biopolymers – proteins, nucleic acids, polysaccharides. The cell theory. Cell as a basic structural and functional unit. Organization of the cell memory system, genetic information. DNA replication. Gene expression. Biological membranes – structure and function. Cell surfaces. Membrane transport. Membrane organelles – nucleus, mitochondria, endoplasmic reticulum, Golgi complex, lysosomes, peroxisomes. Cytoskeleton. Influence of external factors on cell. Cell division – mitosis. Meiosis, gametogenesis. Cell death.	
Recommended literature: Halašová E., Franeková M., Pěč M., Kubatka P.: Selected Lessons in Medical Biology, 2016, 193 pp. Halašová E., Bukovská E., Franeková M.: Medical Biology Practicum, 2015, 140 pp. Karp G.: Cell and molecular biology, John Wiley and Sons, Inc., 2005, 780 pp. Turnpenny P., Ellard S.: Emerys Elements of Medical Genetics, 2007, 423 pp.	
Languages necessary to complete the course: English	
Notes:	

Past grade distribution						
Total number of evaluated students: 205						
A	ABS0	B	C	D	E	FX
7,32	0,0	7,8	9,76	15,12	34,15	25,85
Lecturers: prof. RNDr. Erika Halašová, PhD., RNDr. Mária Franeková, PhD., Mgr. Jana Mazuchová, PhD.						
Last change: 15.03.2022						
Approved by:						

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.ÚLBI/J-S-VL-513/22	Course title: Medical Biology and Genetics (2)
Educational activities: Type of activities: practicals / lecture Number of hours: per week: 3 / 3 per level/semester: 42 / 42 Form of the course: on-site learning	
Number of credits: 7	
Recommended semester: 2.	
Educational level: I.II.	
Prerequisites: JLF.ÚLBI/J-S-VL-512/21 - Medical Biology and Genetics (1)	
Course requirements: Successful passing of two credit tests (not less than 60%), 100% attendance at practical classes, successful passing of oral exam. Preliminary assessment: test, stand-alone work, preparation of presentation according to given topic. Final assessment: mark, according to oral exam. Scale of assessment (preliminary/final): 0 / 100	
Learning outcomes: After completing the subject, the student has knowledge in molecular biology and genetics, in genetics of blood groups, immunogenetics as well as in genetics of cancer cell, viruses and bacteria.	
Class syllabus: Cell genome. Karyotype. General laws of inheritance – Mendel’s laws, gene interactions, gene linkage, sex-linked inheritance. Genetics of blood groups. Mutations – gene, chromosomal, numerical. Population genetics. Pedigree analysis. Genetics of prokaryotes and viruses. Immunogenetics – HLA system. Cancer cell genetics – protooncogenes, oncogenes. Cytogenetic methods, methods of gene engineering.	
Recommended literature: Halašová E., Franeková M., Pěč M., Kubatka P.: Selected Lessons in Medical Biology, 2016, 193 pp. Halašová E., Bukovská E., Franeková M.: Medical Biology Practicum, 2015, 140 pp. Karp G.: Cell and molecular biology, John Wiley and Sons, Inc., 2005, 780 pp. Turnpenny P., Ellard S.: Emerys Elements of Medical Genetics, 2007, 423 pp.	
Languages necessary to complete the course: English	
Notes:	

Past grade distribution						
Total number of evaluated students: 16						
A	ABS0	B	C	D	E	FX
0,0	0,0	12,5	18,75	0,0	12,5	56,25
Lecturers: prof. RNDr. Erika Halašová, PhD., RNDr. Mária Franeková, PhD., Mgr. Jana Mazuchová, PhD.						
Last change: 06.04.2022						
Approved by:						

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.ÚLBf/J-S-VL-504/15	Course title: Medical Biophysics
Educational activities: Type of activities: practicals / lecture Number of hours: per week: 4 / 2 per level/semester: 56 / 28 Form of the course: on-site learning	
Number of credits: 8	
Recommended semester: 1.	
Educational level: I.II.	
Prerequisites:	
Recommended prerequisites: Basic characteristics of the principles of biophysical process in the organism. Biophysical principles of diagnostics methods and therapeutics methods by ionizing and nonionizing radiation in medicine and basic principles of protection counter ionizing radiation (limits, effective dose and personal dosimetry).	
Course requirements: Evaluation of students is based on oral exam, credit test and results from practicals and seminars. The final evaluation of students before oral exam is given by addition of their particular points. This will assign them into the rank: $A \geq 450$, $B \geq 390$, $C \geq 330$, $D \geq 270$, $E \geq 210$, $F_x < 210$ Scale of assessment (preliminary/final): 50/50	
Learning outcomes: After completion of the subject Medical Biophysics, students are able to master the basic physical and physical-chemical processes in biological systems and human body. Students understand biophysical principles of physiological and pathological processes in humans at a level of a cell, tissues and the organ systems. They know and apply to practice the basic biological effects of physical factors affecting the human body and a protection against their harmful influences. They master the biophysical principles of medical instrumentation used in diagnostic and some therapeutical methods.	
Class syllabus: -Structure and function of cell membrane. Transport mechanisms. The resting membrane potential. -The action potential, its origin and propagation. Synapse and synaptic transmission. -Biophysical principles of muscle contraction. Skeletal, cardiac and smooth muscle. Biophysical basics of respiration. External and internal breathing, ventilation, distribution, diffusion and perfusion. -Biophysics of the circulatory system. Heart as a force pump, structure, function, power output. -Laminar and turbulent blood flow - basic laws. Blood pressure. Capillary blood flow, filtration in capillary loop, oedema. -Biophysical mechanism of sensory perception. Biophysics of vision. Biophysics of hearing.	

- Recording of electrical and nonelectrical biosignals.
- Interaction of mechanical and meteorological factors with living systems.
- Interaction of electrical and magnetic fields and nonionising radiation with living systems.
- Radioactivity and ionising radiation.
- Origin of ionizing radiation and the interaction of ionizing radiation with living systems, radiological quantities and units. Detection of ionising radiation.
- X-ray imaging techniques. Imaging techniques using radionuclides.
- Biophysical principles of some diagnostical and therapeutical methods in medicine.
- Biocybernetics. Simulation and modelling of biological processes. Theory of information. Controlled and regulated biological systems.

Recommended literature:

Nave, C.R., Nave, B.C.: Physics for the health sciences. Philadelphia, W.B. Saunders Comp. 1985, 421 pp.

Tarjan, I., et al.: An introduction to biophysics with medical orientation. Budapest. Akademiai Kiado, 1999, 448 pp.

Hoppe, W.: Biophysics. Berlin, Springer Verlag 1983. 941 pp.

Jakuš, J., Poliaček, I., Šimera M.: Practical Tasks in Medical Biophysics, Martin, Osveta, 2013, 144 pp.

Languages necessary to complete the course:

English language

Notes:

Past grade distribution

Total number of evaluated students: 1012

A	ABS0	B	C	D	E	FX
12,55	0,0	20,65	29,94	17,59	16,8	2,47

Lecturers: prof. MUDr. Ján Jakuš, DrSc., prof. RNDr. Ivan Poliaček, PhD., doc. RNDr. Michal Šimera, PhD., Ing. Jakub Míšek, PhD., Ing. Marcel Veterník, PhD., Mgr. Nadežda Višňovcová, PhD.

Last change: 18.03.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.ÚLBch/J-S-VL-508/22	Course title: Medical Chemistry (1)
Educational activities: Type of activities: practicals / lecture Number of hours: per week: 1 / 1,5 per level/semester: 14 / 21 Form of the course: on-site learning	
Number of credits: 3	
Recommended semester: 1.	
Educational level: I.II.	
Prerequisites:	
Recommended prerequisites: Lecture/Practical Extent (in hours) – per week: 1.5/1 Method - attendance form Number of credits: 3 credits	
Course requirements: Evaluation of students is performed as a written exam, minimal level to pass: 60 %. Evaluation: A: 91–100 % B: 81–90 % C: 73–80 % D: 66–72 % E: 60–65 % FX: 59 % and less Scale of assessment (preliminary/final): 100/0	
Learning outcomes: After completion of the subject student gains essential informations about biologically important compounds and about rules of chemical processes in the living systems. Student understands the principles of bioenergetics and enzyme kinetics and rules for chemical reactions in aqueous solutions. Completion of the subject also contributes to understanding of relationship between structure and function of biologically important compounds. Student is able to apply knowledge gained on the lectures and seminars at learning of biological oxidations, metabolism of compounds and acid-base equilibrium of body fluids.	
Class syllabus: - Biologically important elements and their compounds. Weak noncovalent interactions and their importance for biopolymers and biological membranes. - Thermodynamics and living systems. Entropy, Gibbs free energy and coupled reactions in living systems. - Rate of chemical reactions. Types of reactions and their importance in metabolic pathways. Kinetics of enzyme reactions, enzyme inhibition. - Properties of aqueous solutions. Chemical reactions in aqueous solutions: acid-base reactions, oxidation-reduction reactions, precipitation reactions, formation of coordination substances. Properties of colloid systems, biopolymers as colloids. - Chemical properties and biological importance of amino acids, peptides and proteins. Relationship between structure and function of proteins. - Chemical properties and biological importance of myoglobin and hemoglobin. - Chemical properties and biological importance of saccharides and their derivatives. - Chemical properties and biological importance of triacylglycerols, phospholipids, sphingolipids and steroids.	

Recommended literature:

P. Kaplán: Medical Chemistry, P+M Turany, 2012. 127 pp.
P. Račay: Medical chemistry and biochemistry III. Comenius University Bratislava, 2012. 68 pp.
P. Račay: Medical chemistry and biochemistry IV. Comenius University Bratislava, 2012. 86 pp.
J. Lehotský et al.: Medical chemistry and biochemistry II. Comenius University Bratislava, 2012. 139 pp.
R. K. Murray et al.: Harper's Illustrated Biochemistry, McGraw-Hill Medical New York, 2012. 818 pp.
R. A. Harvey, D. R. Ferrier: Lippincott's Illustrated Reviews: Biochemistry. Lippincott Williams & Wilkins Philadelphia, 2012. 520 pp.

Languages necessary to complete the course:**Notes:****Past grade distribution**

Total number of evaluated students: 106

A	ABS0	B	C	D	E	FX
1,89	0,0	0,94	34,91	40,57	21,7	0,0

Lecturers: prof. MUDr. Dušan Dobrota, CSc., prof. RNDr. Peter Račay, PhD., doc. Mgr. Eva Babušiková, PhD., doc. RNDr. Jozef Hatok, PhD., doc. Ing. Zuzana Tatarková, PhD., RNDr. Katarína Dibdiaková, PhD., Mgr. Jana Jurečeková, PhD., prof. RNDr. Peter Kaplán, CSc., doc. Mgr. Monika Kmeťová Sivoňová, PhD., prof. RNDr. Ján Lehotský, DrSc., doc. RNDr. Tatiana Matáková, PhD., Mgr. Radovan Murín, PhD., doc. RNDr. Martin Kolísek, Dr.rer.nat., RNDr. Andrea Evinová, PhD., Ing. Ján Strnádel, PhD.

Last change: 08.03.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.ÚLBch/J-S-VL-509/15	Course title: Medical Chemistry (2)
Educational activities: Type of activities: practicals / lecture Number of hours: per week: 1 / 1,5 per level/semester: 14 / 21 Form of the course: on-site learning	
Number of credits: 4	
Recommended semester: 2.	
Educational level: I.II.	
Prerequisites: JLF.ÚLBch/J-S-VL-508/22 - Medical Chemistry (1)	
Recommended prerequisites: Lecture/Practical Extent (in hours) – per week: 1.5/1 Method - attendance form Credits: 4	
Course requirements: Evaluation of students is performed as a written and oral exam, minimal level to pass: 60 % for written part. Evaluation: A: 91–100 %, B: 81–90 %, C: 73–80 %, D: 66–72 %, E: 60–65 %, FX: 59 % and less. Scale of assessment (preliminary/final): 50/50	
Learning outcomes: After completion of the subject the student understands regulatory mechanisms of chemical processes on enzyme level and gains essential informations about properties of biological membranes, required for understanding the mechanisms of substance exchange, hormone action and cell signaling. Completion of the subject also contributes to knowledge of biochemical foundations of storage and transfer of genetic information and introduces to contemporary applications of genomic technology in clinical medicine. Student gains knowledge of molecular foundation of several diseases and understands the importance of chemistry in search of effective diagnostic and therapeutic procedures.	
Class syllabus: - Enzyme catalysis, regulations at the enzyme level – mechanisms of short-term and long-term control.	

- Structure of biological membranes. Lipid and protein components of membranes, membrane fluidity. Synthetic membranes. Structural changes of membranes at pathological conditions.
- Membrane transport. Mechanisms of passive and active transport of ions and compounds. Transport of polar and nonpolar species, gases and drugs. Transepithelial transport.
- Nucleotides and nucleic acids. Chemical and biological properties of nucleotides. Coenzymes and second messengers derived from nucleotides.
- Primary, secondary and tertiary structure of DNA and genetic information. Organization of eukaryotic genome.
- Mechanism of DNA replication and repair mechanisms of damaged DNA.
- Structure and properties of mRNA, tRNA, rRNA. Synthesis of RNA – transcription and post-transcriptional modification of RNA.
- Proteosynthesis. Characteristics of genetic code, mutations. Mechanism of synthesis of proteins and post-translational modifications. Inhibitors of proteosynthesis, antimetabolites and antibiotics.
- Regulation of gene expression in eukaryotes. Clinical examples of deregulation of gene expression. - Gene manipulations. Technology of recombinant DNA and methods used in gene manipulations. Practical applications of gene manipulation in human genetics, prenatal diagnostics, gene therapy, examples of inherited disease.

Recommended literature:

Languages necessary to complete the course:

English language

Notes:

Past grade distribution

Total number of evaluated students: 926

A	ABS0	B	C	D	E	FX
18,57	0,0	24,3	26,24	14,36	13,39	3,13

Lecturers: prof. MUDr. Dušan Dobrota, CSc., prof. RNDr. Peter Račay, PhD., doc. Mgr. Eva Babušíková, PhD., doc. RNDr. Jozef Hatok, PhD., doc. Ing. Zuzana Tatarková, PhD., Mgr. Jana Jurečeková, PhD., prof. RNDr. Peter Kaplán, CSc., doc. Mgr. Monika Kmet'ová Sivoňová, PhD., prof. RNDr. Ján Lehotský, DrSc., Mgr. Radovan Murín, PhD.

Last change: 06.04.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.ÚTV/J-S-VL-TV1/22	Course title: Physical Education (1)
Educational activities: Type of activities: practicals Number of hours: per week: 2 per level/semester: 28 Form of the course: on-site learning	
Number of credits: 1	
Recommended semester: 1.	
Educational level: I.II.	
Prerequisites:	
Course requirements: presence	
Learning outcomes: The graduate of this subject personify his attitude to the necessity of healthy life style. He will understand the health sense of active movement for the human health. He will bring into his attitude and conviction the role of active movement, sport as a effective prevention against civilization illnesses of today as a part of therapy to improve the state of health of the whole population. He will become own surely about the importance of sport and motion activities by harmonic young human character progress.	
Class syllabus: Deepen the base of collective games knowledge (basketball, volleyball, football, floorball, hockeyball). Explain and show the rules on examples. Collective games needs integration of individual ability and skills for its profit to the whole collective. All listed games support the active life style and offer progress of balance between physical and mental work of students at medical faculty.	
Recommended literature: Lubor Tománek , Teória a didaktika basketbalu Ludmila Zapletalová, Vladimír Přidal, Peter Mačura, 1996 Teória a didaktika volejbalu	
Languages necessary to complete the course:	
Notes:	
Past grade distribution Total number of evaluated students: 3	
ABS0	M
100,0	0,0
Lecturers: PaedDr. Jozef Šimeček	

Last change: 08.03.2022
Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.ÚTV/J-S-VL-TV2/22	Course title: Physical Education (2)
Educational activities: Type of activities: practicals Number of hours: per week: 2 per level/semester: 28 Form of the course: on-site learning	
Number of credits: 1	
Recommended semester: 2.	
Educational level: I.II.	
Prerequisites:	
Course requirements: presence	
Learning outcomes: The graduate of this subject personify his attitude to the necessity of healthy life style. He will understand the health sense of active movement for the human health. He will bring into his attitude and conviction the role of active movement, sport as a effective prevention against civilization illnesses of today as a part of therapy to improve the state of health of the whole population. He will become own surely about the importance of sport and motion activities by harmonic young human character progress.	
Class syllabus: Deepen the base of collective games knowledge (basketball, volleyball, football, floorball, hockeyball). Explain and show the rules on examples. Collective games needs integration of individual ability and skills for its profit to the whole collective. All listed games support the active life style and offer progress of balance between physical and mental work of students at medical faculty.	
Recommended literature: Lubor Tománek , Teória a didaktika basketbalu Ludmila Zapletalová, Vladimír Přidal, Peter Mačura, 1996 Teória a didaktika volejbalu	
Languages necessary to complete the course:	
Notes:	
Past grade distribution Total number of evaluated students: 2	
ABS0	M
100,0	0,0
Lecturers: PaedDr. Jozef Šimeček	

Last change: 08.03.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.ÚCJ/J-S-VL-SJ1/15	Course title: Slovak Language (1)/Foreign Language (1)
Educational activities: Type of activities: practicals Number of hours: per week: 3 per level/semester: 42 Form of the course: on-site learning	
Number of credits: 2	
Recommended semester: 1.	
Educational level: I.II.	
Prerequisites:	
Course requirements: 95% participation in seminars, two written credit tests, the minimum percentage to pass each test is 60%. Evaluation: A: 91-100%, B: 90-81%, C: 80-73%, D: 72-66%, E: 65-60%, FX: less than 60% Scale of assessment (preliminary/final): 50% / 50%	
Learning outcomes: The aim of teaching Slovak language 1 and 2 is to teach a foreign student the grammar basics, the appropriate vocabulary of Slovak language so that he is able to manage everyday situations.	
Class syllabus: Slovak language: 1. Lesson 1: Introduction to the Slovak language - alphabet, pronunciation, addresses, greetings, courtesy phrases, numbers 1-10, introduce yourself. 2. Courtesy phrases 2, surnames and professions, masculine, feminine, verb byť/ negative, genders - nouns / adjectives. 3. Lesson 2: description of a person, adjectives + opposition, demonstrative, verb to have + negative. 4. Possessive adjectives, numbers from 11. Lesson 3: Our family, family members, possessive pronouns. 5. Accusative singular, verb classes - verb tenses, Slovak calendar. Lesson 4: Student Róbert Jesenský, part of the day. 6. Substantives - nominative of the plural, timing of verbs. Repetition of lessons 1 - 4. 7. TEST 1. 8. Lesson 5: At home, ordinal numbers, verb tenses 1. 9. Verb tenses 2, plural accusatives. Lesson 6: Clothes, colours. 10. Timing of verbs, date, and weather. 11. Lesson 7: At the medical school, what time is it, modal verbs. 12. Lesson 8: In Slovak class, singular local. Repetition of lessons 5 - 8. 13. TEST 2. German language:	

1. Anatomieunterricht
Anatomie des menschlichen Körpers
Körperteile
Grammatik: Konjugation der regelmäßigen Verben – Präsens

2. Anatomieunterricht
Skelett Typen und Bau der Knochen
Gelenktypen
Grammatik: Konjugation der unregelmäßigen Verben – Präsens

3. Anatomie und Krankheiten
Gelenkerkrankungen: Arthrose
Künstliche Körperteile
Anatomieunterricht am Tablet- PC
Grammatik: Passivformen

4. Kardiologie
Das Herz
Lungen- und Körperkreislauf
Grammatik: Deklination von Adjektiven, Imperativ

5. Herzerkrankungen
Myokardinfarkt – Ursachen,
Symptome und Therapie
Grammatik: Imperativ

6. Test I

7. Pneumologie
Die Lunge
Aufbau der Atmungsorgane
Grammatik: Trennbare Verben

8. Pneumologie
Funktion der Atmungsorgane
Gespräch beim Hausarzt
Grammatik: Untrennbare Verben

9. Lungenerkrankungen
Die Atemwegserkrankungen
COPD, Asthma, Grippe
Grammatik: Verben – Vergangenheit

10. Urologie
Urogenitaltrakt bei der Frau und beim Mann
Aufbau und Funktion der Nieren
Grammatik: Nebensätze

11. Erkrankungen der Nieren und Harnwege
Erkrankungen der Prostata (Vorsteherdrüse)
Harnsteine (Urolithiasis)
Harnwegsinfekt; Blasenschwäche (Harninkontinenz)
Grammatik: Infinitiv mit zu

12. Verdauung
Aufbau und Funktion des Verdauungssystems
Der Verdauungsprozess
Grammatik: Hilfsverben mit Infinitiv + zu

13. Erkrankungen des Verdauungstraktes
Darmerkrankungen

Darmspiegelung (Koloskopie)
Grammatik: Präpositionen mit Dativ und Akkusativ
14. Test II

Recommended literature:

Slovak language:

Kolektív autorov (2020) Slovenčina pre zahraničných študentov. Bratislava: Vydavateľstvo UK.

Kolektív autorov (2013) Slovensko-anglický a anglicko-slovenský slovník pre zahraničných študentov. Bratislava: Vydavateľstvo UK.

German language:

Bujalková, M., Barnau, A.: Fachdeutsch Medizin. Ein Lehrbuch für zukünftige Ärzte. Martin: Vydavateľstvo Osveta, 2018. 227 s., učebnica.

Džuganová, B. Barnau, A.: Nemčina pre lekárov a pracovníkov v zdravotníctve, Bratislava: Easton Books, 2017. 274s., učebnica.

Firnhaber-Sensen, U. - Rodi, M.: Deutsch im Krankenhaus Neu. Berlin: Langenscheidt 2009. 128 s.

Languages necessary to complete the course:

Slovak language, English language, German language

Notes:

Past grade distribution

Total number of evaluated students: 1054

A	ABS0	B	C	D	E	FX
44,88	0,09	27,23	16,22	7,02	4,55	0,0

Lecturers: PhDr. Božena Džuganová, PhD., Mgr. Bojana Ladrová, PhD., Mgr. Anna Barnau, PhD.

Last change: 16.03.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.ÚCJ/J-S-VL-SJ2/15	Course title: Slovak Language (2)/Foreign Language (2)
Educational activities: Type of activities: practicals Number of hours: per week: 3 per level/semester: 42 Form of the course: on-site learning	
Number of credits: 2	
Recommended semester: 2.	
Educational level: I.II.	
Prerequisites: JLF.ÚCJ/J-S-VL-SJ1/15 - Slovak Language (1)/Foreign Language (1)	
Course requirements: 95% participation in seminars, two written credit tests, the minimum percentage to pass each test is 60%, final written and oral exam. Evaluation: A: 91-100%, B: 90-81%, C: 80-73%, D: 72-66%, E: 65-60%, FX: less than 60% Scale of assessment (preliminary/final): 40% / 60%	
Learning outcomes: The aim of teaching Slovak language 1 and 2 is to teach a foreign student the basic Slovak grammar, the appropriate vocabulary of Slovak language so that he is able to manage everyday situations.	
Class syllabus: Slovak language: 1. Repetition of language content from the winter semester. Lesson 9: I took the exam yesterday, past tense. 2. Lesson 9: Singular instrumental, future tense, adjective formation. 3. Repetition: formation of past / present / future tenses. 4. Lesson 10: free time, interests. Local of the plural, world sides, indefinite pronouns. 5. Negative pronouns. Lesson 11: We talk about food, meals during the day, instrumental, plural forms. 6. Repetition of lessons 9-11. 7. TEST 1. 8. Lesson 12: We travel. Adverbs: gradation, singular dative. 9. Plural dative. Lesson 13: Services, comparison of adjectives, gradation. 10. Lesson 14: We do shopping. Genitive singular. 11. Repetition of lessons 12-14. 12. TEST 2. 13. Students' presentations (My country, my city, my family ...). German Language: 1. Gynäkologie und Geburtshilfe Frauenheilkunde Anatomie der Gebärmutter	

Grammatik: Wortbildung
2. Schwangerschaft
Geburtshilfe
Gefahren in der Schwangerschaft
Grammatik: Adjektive
3. Frauenkrankheiten
Brustkrebs
Postmenstrualsyndrom
Grammatik: Mehrteilige Konjunktionen
4. Hämatologie
Das Blut – Zusammensetzung des Blutes
Physiologie des Blutes – Hämostase
Grammatik: Partizipien I und II
5. Blutgruppen
Blutgruppen - Systeme
Rhesus Faktor
Grammatik: Partizipien als Adjektivattribute
6. Test I
7. Bluterkrankungen
Anämie
Hämophilie
Grammatik: Präpositionen mit Genitiv
8. Bluterkrankungen
Leukämie – Blutkrebs
Ablauf der Blutgerinnung
Grammatik: Präpositionen mit Genitiv
9. Otorhinolaryngologie
Aufbau und Funktion des Ohres, das Hören
Die Nase – Aufbau und Funktion
Grammatik: Erweiterte Partizipialattribute
10. H-N-O-Krankheiten
Heuschnupfen, Sinusitis, Angina
Larynxkarzinom, Tinnitus, Otitis media
Grammatik: n-Deklination der Substantive
11. H-N-O-Krankheiten
Formen von Sinusitis
Medizinische Berufe
Grammatik: n-Deklination der Substantive
12. Stomatologie
Aufbau der Zähne
Milchgebiss Erwachsenenengebiss
Grammatik: Pronominaladverbien und Fragewörter
13. Zahnerkrankungen
Karies, Plaque, Parodontitis und Zahnausfall
Stufen bei Karies
Gespräch beim Zahnarzt
Grammatik: Antonyme
14. Test II

Recommended literature:

<p>Slovak language: Kolektív autorov (2020) Slovenčina pre zahraničných študentov. Bratislava: Vydavateľstvo UK. Kolektív autorov (2013) Slovensko-anglický a anglicko-slovenský slovník pre zahraničných študentov. Bratislava: Vydavateľstvo UK.</p> <p>German language: Bujalková, M., Barnau, A.: Fachdeutsch Medizin. Ein Lehrbuch für zukünftige Ärzte. Martin: Vydavateľstvo Osveta, 2018. 227 s., učebnica. Džuganová, B. Barnau, A.: Nemčina pre lekárov a pracovníkov v zdravotníctve, Bratislava: Easton Books, 2017. 274s., učebnica. Firnhaber-Sensen, U. - Rodi, M.: Deutsch im Krankenhaus Neu. Berlin: Langenscheidt 2009. 128 s.</p>						
<p>Languages necessary to complete the course: Slovak language, English language, German language</p>						
<p>Notes:</p>						
<p>Past grade distribution Total number of evaluated students: 912</p>						
A	ABS0	B	C	D	E	FX
58,66	0,11	24,67	9,76	4,5	2,3	0,0
<p>Lecturers: PhDr. Božena Džuganová, PhD., Mgr. Bojana Ladrová, PhD., Mgr. Anna Barnau, PhD.</p>						
<p>Last change: 06.04.2022</p>						
<p>Approved by:</p>						

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.ÚTV/J-S-VL-TV5/22	Course title: Winter Practice in Physical Education
Educational activities: Type of activities: practicals Number of hours: per week: 4 per level/semester: 56 Form of the course: on-site learning	
Number of credits: 1	
Recommended semester: 1.	
Educational level: I.II.	
Prerequisites:	
Course requirements: presence	
Learning outcomes: The graduate of this subject personify his attitude to the necessity of healthy life style. He will understand the health sense of active movement for the human health. He will bring into his attitude and conviction the role of active movement, sport as a effective prevention against civilization illnesses of today as a part of therapy to improve the state of health of the whole population. He will become own surely about the importance of sport and motion activities by harmonic young human character progress.	
Class syllabus:	
Recommended literature: Sjezdové lyžování Příbramský M., Maršík J	
Languages necessary to complete the course:	
Notes:	
Past grade distribution Total number of evaluated students: 0	
ABS0	M
0,0	0,0
Lecturers: PaedDr. Jozef Šimeček	
Last change: 08.03.2022	
Approved by:	