

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-503/16	Course title: Anatomy (3)
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: 3.	
Educational level: I.II.	
Prerequisites: JLF.ÚA/J-S-VL-501/17 - Anatomy (1) and JLF.ÚA/J-S-VL-502/15 - Anatomy (2)	
Course requirements: 100% participation in practicals, 100% participation in dissection, at least 60% success rate on written tests Final Exam: <ul style="list-style-type: none"> • the written part: at least 60% success rate for the written exam • practical examination • oral examination 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 should master the anatomy of the human body in the extend necessary for pregradual studies. The graduate should understand principles of human body construction, its parts and organs up to such details, that the knowledge gathered is permanent and becomes a base for understanding of physiological and pathological processes and changes and later is the base for studies of clinical disciplines.	
Class syllabus: Lectures: Cranial nerves. Vessels of the head and neck. Systematic anatomy of the central nervous system, autonomic nervous system. Practicals: Topographical anatomy of the head, neck and trunk - topographic-anatomical dissection of head, neck and trunk. Practical study of the central nervous system at the cadaveric specimens. Visual apparatus. External and middle ear.	
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. wt 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: 810

A	ABS0	B	C	D	E	FX
6,05	0,0	11,11	22,47	19,51	24,94	15,93

Lecturers: doc. MUDr. Yvetta Mellová, CSc., MUDr. Gabriela Hešková, PhD., doc. MUDr. Desanka Výbohová, 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.ÚO/J-S-VL-634/22	Course title: Basics of Nursing Techniques
Educational activities: Type of activities: practicals Number of hours: per week: 1 per level/semester: 14 Form of the course: on-site learning	
Number of credits: 1	
Recommended semester: 3.	
Educational level: I.II.	
Prerequisites:	
Course requirements: The evaluation of the subject takes place in the form of a written test. Student must achieve at least 60 %. Overall evaluation: A: 100 – 91 %, B: 90 – 81 %, C: 80 – 73 %, D: 72 – 66 %, E: 65 – 60 %, FX # 60 %. Scale of assessment (preliminary/final): 0/100	
Learning outcomes: By completing the course the student will demonstrate basic knowledge related to clinically correct and safe practice with respect to the principles of evidence - based practice (EBP). Can describe the basic principles of providing nursing care and standard procedures of selected nursing services and techniques. After completion of this subject while performing nursing procedures student will be able to: <ul style="list-style-type: none"> - argue for and justify the method / technique of the procedure chosen, - prepare equipment and supplies necessary to carry out the procedure, - assess the patient and provide instructions and support the patient prior to the procedure, prepare the patient for the procedure from the physical perspective, - carry out the procedure independently while following clinical standards and guidelines, respecting the ethical principles and principles of asepsis including, - communicate with the patient during the procedure, provide patient education / instruction after the procedure, - record and document the procedure and values assessed, - process all the equipment and items used. 	
Class syllabus: Dressing technique – types of dressing material, principles and principles of dressing technique, basic dressing techniques, training of selected types of bandages (bandage of the hand, forearm, elbow, foot, high compression bandage of the lower limb). Collection of biological material – blood collection – types of examinations, principles and principles of collection, prevention of puncture injuries with a used needle, training in venous blood collection (open and closed), capillary blood collection (ABR and blood glucose testing).	

Parenteral drug administration – general principles of drug preparation and application, preparation of drugs from ampoule and vial, preparation and training application of intradermal, subcutaneous (LMWH, heparin, insulins), intramuscular and intravenous injection.

Gastric tube insertion and enteral nutrition - general principles of insertion and removal gastric tube and administration of enteral nutrition and drugs, training in the introduction and removal of gastric tube.

Vital functions – training in measuring and monitoring vital functions (blood pressure, pulse, breath, body temperature, measuring oxygen saturation with a pulse oximeter).

Bladder catheterization – Indications, types of urinary catheters, general principles catheterization of men and women, urine sampling, physical examination of urine, infection prevention

urinary tract, practice of direct catheter urine sampling in women, introduction and removal of permanent urinary catheter in women.

Nursing techniques and procedures in surgery – principles of surgical asepsis, preparation of a sterile table, care of aseptic and septic wounds, types of dressing material, general principles of treatment and wound dressing; training in handling sterile aids, surgical instruments and packaging materials – dressing table, dressing of aseptic and septic wounds, treatment of the drain area, training in donning and undressing gloves (non-sterile, sterile).

Recommended literature:

Dingová, M., Lepiešová, M., Rosenberg, A. et al.: Basics of Nursing. Textbook for Medical and Nursing Students. Martin: Comenius University in Bratislava, Jessenius Faculty of Medicine in Martin, 2011.

Lepiešová, M., Dingová, M., Nemcová, J., Ovšonková, A., Miertová, M., Tabaková, M., Tomagová, M.: Basics of nursing presentations. Martin: JLFUK – portal MEFANET, 2012, 419 p. [online] ISBN 1337-7396 ISSN 1337-7396. Available at: <http://portal.jfmed.uniba.sk/articles.php?aid=187https://stella.uniba.sk/epc/JL/2012/vtIs000257495.pdf>

Kozier, B., Berman, A., Erb, G., Snyder, S. J.: Fundamentals of Nursing: Concepts, Process and Practice. 7th ed. Pearson Prentice Hall, 2004.

Perry, A. G., Potter, P. A., Ostendorf W.: Clinical Nursing Skills & Techniques. 8th ed. St. Louis, Missouri: Mosby/Elsevier, 2013.

Languages necessary to complete the course:

English language

Notes:

Past grade distribution

Total number of evaluated students: 100

A	ABS0	B	C	D	E	FX
10,0	1,0	42,0	30,0	10,0	7,0	0,0

Lecturers: prof. Mgr. Katarína Žiaková, PhD., Mgr. Martina Lepiešová, PhD., Mgr. Michaela Miertová, PhD., PhDr. Jana Nemcová, PhD., Mgr. Anna Ovšonková, PhD., doc. Mgr. Martina Tomagová, PhD., Mgr. Dominika Kohanová, PhD.

Last change: 23.03.2022

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-635/20	Course title: Elements of Embryology
Educational activities: Type of activities: practicals Number of hours: per week: 1 per level/semester: 14 Form of the course: on-site learning	
Number of credits: 1	
Recommended semester: 3.	
Educational level: I.II.	
Prerequisites:	
Course requirements: 80% participation on teaching process (at least 11 weeks), final test Evaluation: A - Fx Scale of assessment (preliminary/final): 20/80	
Learning outcomes: Review of human prenatal development with emphasis on chosen organs/systems, considering the fundamental knowledge from cell biology and genetics in given aspects. Attention being paid especially to teratogenic agents.	
Class syllabus: 1) Introduction to embryology, gametogenesis, fertilization. 2) First month of intrauterine development - Review. 3) Placenta development and clinical correlations. 4) Development of CNS and PNS with clinical correlations. 5) Development of cardiovascular system and clinical correlations. 6) Development of respiratory system and clinical correlations. 7) Development of digestive system and clinical correlations. 8) Development of endocrine system and clinical correlations. 9) Development of urogenital system and clinical correlations. 10) Development of skin and its derivatives with clinical correlations. 11) Multiple pregnancy and clinical correlations. 12) Developmental defects and congenital anomalies (genetic, chemical, physical a biological factors). 13) On-demand lecture selected by students.	
Recommended literature: Obligatory literature: Sadler T.W.: Langman's Medical Embryology. Wolters Kluwer, 2019, 432 s. ISBN 978149638907 Recommended literature:	

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

Languages necessary to complete the course:

english

Notes:

Past grade distribution

Total number of evaluated students: 134

A	ABS0	B	C	D	E	FX
76,12	0,0	8,21	2,99	2,99	2,99	6,72

Lecturers: prof. MUDr. Marian Adamkov, DrSc., doc. MVDr. Soňa Báľentová, PhD., RNDr. Mária Kovalská, PhD., RNDr. Veronika Mešťanová, 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.ÚHE/J-S-VL-506/16	Course title: Histology and Embryology (2)
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: 3.	
Educational level: I.II.	
Prerequisites: JLF.ÚHE/J-S-VL-505/15 - Histology and Embryology (1)	
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 diagnose and describe 2 human tissues slides (discussion and final result on responsibility of teacher). The exam in Histology and Embryology includes 2 parts : - practical part - 3 slides (to pass at least two of them – well founded description and discussion), - oral part - 3 exam questions (general histology / cytology, organ functional histology, and embryology). Evaluated: A-Fx Scale of assessment (preliminary/final): 20/80	
Learning outcomes: Students who successfully complete this course is able to identify microscopically main organs and tissues of all human systems and describe their salient histomorphological features in association with characteristic functions. Student understands differential diagnosis between microscopically similar organs of human system (e.g. stomach vs. intestine, cerebral vs. cerebellar cortex, adenohypophysis vs. neurohypophysis). Based on functional histology, student better understands principles of physiological and pathological processes and changes in human tissues and organs. Student should understand a complex dynamics of human being development from gametogenesis to delivery in phylogenetic and ontogenetic relations. The goal is to provide students with an understanding of the principles of embryogenesis that can be used in the diagnosis, care and prevention of birth defects.	

Class syllabus:

- Digestive system I, oral cavity - embryology, epithelial lining, tongue, development of tooth, structure of tooth and associated structures, clinical correlations.
- Digestive system II, alimentary canal - embryology, pharynx, esophagus, stomach, small and large intestines, appendix, anus, GALT system, clinical correlations.
- Digestive system III, glands - embryology, types of secretory cells, salivary glands, saliva, liver, gallbladder, pancreas, clinical correlations.
- Respiratory system - embryology, general organization and subdivision, upper portion, trachea, bronchial tree, respiratory portion, BALM, clinical correlations.
- Endocrine system - embryology, principles of endocrine glands, hormones classification, functional histology of hypothalamus, adenohypophysis and neurohypophysis, thyroid gland, parathyroid glands, adrenal glands, and Langerhans islets, clinical correlations.
- Urinary system - embryology, composition of urinary system, functional histology of kidney, blood circulation, histological structure of ureter, urinary bladder, and urethra, clinical correlations.
- Reproductive systems - embryology, general characteristics of male reproductive system, structure and functions of testes, excretory genital ducts, accessory glands, clinical correlations. General characteristic of female reproductive system – structure and functions of ovaries, uterus, including cervix, uterine tube, and vagina, clinical correlations.
- Skin - embryology, general structure of skin, functional histology of epidermis, including basal lamina, dermis, and hypodermis, structure and functions of epidermal derivatives, wound healing, clinical correlations.
- Breast - embryology, functional histology of inactive (resting) mammary gland, during pregnancy, and during lactation, milk, hormone regulations, clinical correlations.
- Differential diagnosis of human tissues and organs.
- Apoptosis - general characteristics, pathways, regulations, main histomorphological, biochemical, and physiological features, role in normal and pathological tissues, clinical correlations.
- Principles of immunohistochemistry, antigens, antibodies, CD system, application in differential diagnosis of normal and pathological human tissues, clinical correlations.
- Gametogenesis - spermatogenesis and spermiogenesis, functional histology of sperm, spermatogenesis, oogenesis, functional histology of ovum, ovulation, corpus luteum, clinical correlations.
- Fertilization - phases of fertilization, zygote, development of blastocyst, causes of infertility, clinical correlations.
- Menstrual cycle - functional histology of endometrium, phases of menstrual cycle, preparation of endometrium for implantation.
- Implantation - phases of implantation, decidual reaction, simultaneous development of conceptus, clinical correlations.
- Placenta - development of placenta, functional histology of placenta, utero-placental membrane and permeability, clinical correlations.
- Embryonal and fetal period of development, birth defects (review).

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

<p>Moore, K.L., Persaund 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</p>						
<p>Languages necessary to complete the course: English language</p>						
<p>Notes:</p>						
<p>Past grade distribution Total number of evaluated students: 765</p>						
A	ABS0	B	C	D	E	FX
20,13	0,0	17,12	23,66	16,73	15,82	6,54
<p>Lecturers: prof. MUDr. Marian Adamkov, DrSc., doc. MVDr. Soňa Báľentová, PhD., RNDr. Mária Kovalská, PhD., RNDr. Veronika Mešťanová, PhD., RNDr. Eva Ježková, 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.ÚMI/J-S-VL-603/19	Course title: Immunology
Educational activities: Type of activities: practicals / lecture Number of hours: per week: 1 / 1 per level/semester: 14 / 14 Form of the course: on-site learning	
Number of credits: 3	
Recommended semester: 4.	
Educational level: I.II.	
Prerequisites: JLF.ÚLBI/J-S-VL-513/22 - Medical Biology and Genetics (2)	
Course requirements: - it is obligatory to be present at practicals (1 absence is tolerated) - 1 test during the semester - 2 oral presentations according the schedule Exam: Written exam test or oral exam. Written exam test - The final grade is determined by counting the points for the test during semester and the final exam test. Oral exam - The oral exam consists of 4 questions. Each one is evaluated separately. No question could be graduated Fx for successful exam. Scale of assessment (preliminary/final): 25% / 75%	
Learning outcomes: The student receives information from specific and nonspecific immunity, immune competent cells, mechanisms of regulation of immune answer. The student is able to characterise the antigens, their structure and immunogenic potential as well as immunoglobulins, their function, mechanisms of antibody production, idiotypes, allotypes, isotypes. The reached knowledges enable to understand the problems of vaccination, types of vaccines, hypersensitivity, autoimmunity and immunodeficiencies. Transplantation and tumor immunity are covered at introductory level. The students are able to understand, indicate and interpret the basic immunological diagnostic tests and procedures. The gained information are the base for the further study of in different clinical branches, that can be completed in the study of clinical immunology in the 10th semester.	
Class syllabus: Introduction to immunology, Discrimination between self and non self, Antigens and receptors, Terminology, Nonspecific immunity – barriers, cells, mechanism and functions, Specific immunity – molecules, immunoglobulins, organs and cells differentiation, Lymphocytes –, activation, APC Regulation of immunity, cytokines Tumor immunity, Transplantation immunity, Hypersensitivity, Immunotherapy, Immunostimulation, AIDS, Anti-infective immunity	
Recommended literature: Abbas AK et al. Basic Immunology. Elsevier Saunders 2012, pp. 320. Doan T et al. Lippincott's Illustrated Review Immunology. Lippincott Williams & Wilkins a Wolters Kluwer business 2008, pp. 334.	

Neuschlová, M., Kompaníková, J., Sadloňová, V., Nováková, E.: Immunology – basic laboratory tests. Martin : Portal JLF UK 2021; 152 s. ISBN 978-80-8187-110-8. <https://portal.jfmed.uniba.sk//articles.php?aid=450>.

Neuschlová, M., Nováková, E., Kompaníková, J., Sadloňová, V.: A to Z Glossary of Immunological Terms. Martin : Portal JLF UK 2021; 80 s. ISBN 978-80-8187-088-0. <https://portal.jfmed.uniba.sk//articles.php?aid=435>.

Murray PR et al. Medical Microbiology Seventh Edition. Philadelphia: Elsevier Saunders 2013; pp. 874.

Greenwood D et al. Medical Microbiology Eighteenth Edition. Edinburgh: Elsevier Saunders 2012; pp. 778.

Reading from MEFANET and faculty web site for immunology.

Languages necessary to complete the course:

English language

Notes:

Past grade distribution

Total number of evaluated students: 369

A	ABS0	B	C	D	E	FX
40,11	0,0	30,89	22,22	5,96	0,81	0,0

Lecturers: doc. MUDr. Elena Nováková, PhD., MUDr. Jana Kompaníková, PhD., MUDr. Martina Neuschlová, PhD., MUDr. Vladimíra Sadloňová, 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.ÚLBch/J-S-VL-510/16	Course title: Medical Biochemistry (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: 5	
Recommended semester: 3.	
Educational level: I.II.	
Prerequisites: JLF.ÚLBch/J-S-VL-508/22 - Medical Chemistry (1)	
Course requirements: The form of evaluation is only written. The 60 % of total score points is necessary. Rating: A: 91-100%, B: 81-90%, C: 73-80%, D:66-72%, E:60-65%, Fx:59% and less.	
Learning outcomes: The student receives information such as biomolecules are synthesized, degraded and metabolized in the human body. The students deepen their knowledge about biochemical pathways in different organs under normal circumstances and they also learn how the metabolic processes work under pathological conditions at the molecular level, which is a prerequisite for correct diagnosis, treatment and individualized approach to the subject. The result of learning is understanding formation, causes and treatment of many diseases. The student can apply his theoretical knowledge and try to solve scenarios with diseases and its potential complications during preparing a seminar presentation as well as the practical examination of biological material.	
Class syllabus: The principles of oxidation and reduction in the body. Respiratory chain, ATP production, redox potential, electron transport in mitochondria. Intermedial metabolism, citric cycle, the role of acetyl CoA in metabolism. Glycolysis under aerobic and anaerobic conditions. Carbohydrate metabolism, carbohydrate digestion, absorption and transport, glycogenolysis, glycogenesis, principles and regulation. Gluconeogenesis, principles and regulation. Pentose phosphate pathway, pentoses and NADPH production. Fructose, galactose and glucuronic acid metabolism. Proteoglycans and glycoproteins. Lipid metabolism, lipid digestion and absorption, fatty acid synthesis and degradation, regulation. Metabolism of triacylglycerols, membrane lipids and phospholipids. Cholesterol metabolism, acetyl CoA as a steroid precursor, Bile acid metabolism and blood. Lipoprotein metabolism, lipoproteinemias. Ketone bodies synthesis and degradation. Integration of carbohydrate and lipid metabolism, hormone regulation and clinical aspects in metabolic disorders.	
Recommended literature: P. Račay: Medical chemistry and biochemistry III. Comenius University Bratislava, 2012. 68 pp.	

P. Račay: Selected chapters from enzymology, membrane biochemistry and biochemistry of genetic information. JLF UK portal MEFANET Martin, 2013. 90 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, 2014. 818 pp.
 R. A. Harvey, D. R. Ferrier: Lippincott's Illustrated Reviews: Biochemistry. Lippincott Williams & Wilkins Philadelphia, 2017. 520 pp.

Languages necessary to complete the course:

English language

Notes:

Past grade distribution

Total number of evaluated students: 733

A	ABS0	B	C	D	E	FX
4,64	0,14	28,92	33,42	25,78	6,55	0,55

Lecturers: prof. MUDr. Dušan Dobrota, CSc., prof. RNDr. Peter Kaplán, CSc., doc. Mgr. Monika Kmeťová Sivoňová, PhD., RNDr. Andrea Evinová, PhD., Ing. Ján Strnádel, PhD., doc. Mgr. Eva Babušíková, PhD., RNDr. Katarína Dibdiaková, PhD., doc. RNDr. Jozef Hatok, PhD., Mgr. Jana Jurečeková, PhD., doc. RNDr. Martin Kolísek, Dr.rer.nat, prof. RNDr. Ján Lehotský, DrSc., doc. RNDr. Tatiana Matáková, PhD., Mgr. Radovan Murín, PhD., prof. RNDr. Peter Račay, PhD., doc. Ing. Zuzana Tatarková, 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.ÚLBch/J-S-VL-511/17	Course title: Medical Biochemistry (2)
Educational activities: Type of activities: practicals / lecture Number of hours: per week: 4 / 4 per level/semester: 56 / 56 Form of the course: on-site learning	
Number of credits: 10	
Recommended semester: 4.	
Educational level: I.II.	
Prerequisites: JLF.ÚLBch/J-S-VL-509/15 - Medical Chemistry (2) and JLF.ÚLBch/J-S-VL-510/16 - Medical Biochemistry (1)	
Course requirements: The form of evaluation is written and oral examination. The minimum percentage of success is 60%. Rating: A: 91-100%, B: 81-90%, C: 73-80%, D: 66-72%, E:60-65%, Fx:59% and less.	
Learning outcomes: The students understand of basic metabolic processes in various organs, understand normal the ongoing biochemical processes in healthy tissue as well as pathological tissue. Detailed understanding of the biochemical processes in the human body creates conditions for causal-based therapy with an individual approach to each patient. To maintain of this trend of cognition, as well as the introduction of new knowledge at the molecular level into practice, it is necessary to educate professionals, practitioners are able to cope with a huge increase in biochemical knowledge.	
Class syllabus: Nucleotides metabolism, regulation and metabolic diseases. Protein metabolism, protein digestion and absorption, urea cycle. Amino acids in the intermediate metabolism. Metabolism of individual amino acids, amino acids special metabolites. Carbohydrate, proteins and lipids metabolic interrelationships: obesity, stress, pregnancy, lactation, starvation, aging, exercise, vegetarian diet. Tetrapyroles metabolism, synthesis, degradation and regulation. Biochemical basis of the diabetes mellitus and atherosclerosis. Cell signaling, signal molecules. Hormones and neurohormonal regulation, extracellular and intracellular communication. Biochemical's function of some organs: kidney, liver, muscle, nerve tissue and blood elements Acid-base balance, buffer systems, regulation of acid-base balance, metabolic acidosis and alkalosis and respiratory acidosis and alkalosis. Xenobiochemistry.	
Recommended literature: P. Račay: Medical chemistry and biochemistry III. Comenius University Bratislava, 2012. 68 pp. P. Račay: Selected chapters from enzymology, membrane biochemistry and biochemistry of genetic information. JLF UK portal MEFANET Martin, 2013. 90 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, 2014. 818 pp.
 R. A. Harvey, D. R. Ferrier: Lippincott's Illustrated Reviews: Biochemistry. Lippincott Williams & Wilkins Philadelphia, 2017. 520 pp.

Languages necessary to complete the course:

English language

Notes:

Past grade distribution

Total number of evaluated students: 627

A	ABS0	B	C	D	E	FX
8,93	0,0	17,22	26,63	13,08	21,53	12,6

Lecturers: prof. MUDr. Dušan Dobrota, CSc., prof. RNDr. Ján Lehotský, DrSc., prof. RNDr. Peter Kaplán, CSc., doc. Mgr. Monika Kmet'ová Sivoňová, PhD., doc. Mgr. Eva Babušiková, PhD., doc. Ing. Zuzana Tatarková, PhD., RNDr. Katarína Dibdiaková, PhD., RNDr. Andrea Evinová, PhD., doc. RNDr. Jozef Hatok, PhD., Mgr. Jana Jurečeková, PhD., doc. RNDr. Martin Kolísek, Dr.rer.nat, doc. RNDr. Tatiana Matáková, PhD., Mgr. Radovan Murín, PhD., prof. RNDr. Peter Račay, PhD., Ing. Ján Strnádel, 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.ÚMI/J-S-VL-517/17	Course title: Microbiology (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: 5	
Recommended semester: 4.	
Educational level: I.II.	
Prerequisites: JLF.ÚLBI/J-S-VL-513/22 - Medical Biology and Genetics (2)	
Course requirements: - it is obligatory to be present at practicals (1 absence is tolerated) - test during the semester - oral presentation of seminar work End study evaluation of students is based on written test - The final grade is determined by counting the points for the test during semester and the final exam test. Scale of assessment (preliminary/final): 33,3% / 66,7%	
Learning outcomes: The student receives information from general bacteriology, virology, parasitology and mycology, about their structure, metabolism, pathogenic potential, pathogenesis of infectious diseases, genetics and antibiotics used for the treatment, as well as about methods of disinfection and prevention (vaccination included). The student is trained to use principal diagnostical procedures, to understand their theoretical background, indication and interpretation. The student is able to manage the most common way of sampling of infectious materials, to process them for microscopy, cultivation, identification and ATB susceptibility and tools of pathogenity testing. The student is able to continue the study that requires the basis of bacterial cell structure, metabolism, genetics and to use the gained knowledge for understanding the requirements of the next degree (microbiology 2).	
Class syllabus: Introduction to microbiology, Structure of bacterial cell, Physiology and metabolism of bacterial cell, Genetics of bacterial cell, Antibiotics, vaccines, disinfection, Antibiotics and resistance, Pathogenic potential of microorganisms, Pathogenesis of infection Safety in microbiological laboratory, organization of study, Microscopy, native smear, fixed smear, Staining procedures: Gram, Acid fast, Burri method, Wirtz Conklin for spores, Neisser, Albert for metachromatic granules, Cultivation, inoculation, Identification of bacteria. Cultivation media. Anaerobic bacteria cultivation. Detection of pathogenic potential of bacteria – enzymes, toxins, ATB susceptibility testing	
Recommended literature:	

Murray, P.R., Rosenthal, K.S., Pfaller, M.A. Medical Microbiology. 7th ed. Philadelphia: Elsevier Saunders, 2013. 874 s. ISBN 978-0-323-08692-9.
 Murray, P.R., Rosenthal, K.S., Pfaller, M.A. Medical Microbiology. 8th ed. Philadelphia: Elsevier Saunders, 2016. 836 s. ISBN 978-0323-299956-5
 Harvey, R. A., Champe, P.C., Fischer, B.D. Lippincott's Illustrated Review Microbiology. Lippincott Williams & Wilkins, 2007. 438 s. ISBN 13: 978-0-7817-8215-9
 Greenwood, D., Barer, M., Slack, R., Irwing, W. Medical Microbiology. 18. ed. Edinburgh: Elsevier Saunders, 2012. 778 s. ISBN 978-0-7020-4089-4
 Reading from MEFANET and faculty web site for microbiology

Languages necessary to complete the course:

English language

Notes:

Past grade distribution

Total number of evaluated students: 614

A	ABS0	B	C	D	E	FX
43,65	0,0	24,27	20,85	8,63	2,44	0,16

Lecturers: doc. MUDr. Elena Nováková, PhD., MUDr. Jana Kompaníková, PhD., MUDr. Martina Neuschlová, PhD., MUDr. Vladimíra Sadloňová, 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-TV3/22	Course title: Physical Education (3)
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: 3.	
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: 1	
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-TV4/22	Course title: Physical Education (4)
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: 4.	
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: 1	
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.ÚFy/J-S-VL-515/16	Course title: Physiology (1)
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: 9	
Recommended semester: 3.	
Educational level: I.II.	
Prerequisites: JLF.ÚA/J-S-VL-501/17 - Anatomy (1)	
Course requirements: 1. Completion of 93% of practical exercises and active participation in practical exercises 2. Passing two tests of continuous assessment of the study with at least 60% success (Physiology of Blood, Physiology of nervous system, senses and muscles). 3. Preparation of at least one power-point presentation on selected topic Scale of assessment (preliminary/final): 100/0	
Learning outcomes: The graduate gain a knowledge and understands the functions of the human body on the molecular, subcellular, cellular, tissue, organ and system levels up to an integrated - holistic understanding of the functions of a healthy organism in interaction with society and nature - environmental factors. After completing Physiology 1, he/she understands the functions of the blood, muscles, nervous system, thermoregulation, endocrine system and kidneys. Interactive lectures, analysis of case studies as well as the use of simulation technologies will contribute to the deepening of knowledge. The practical part of the teaching of Physiology 1 will enable the graduate to better understand the abovementioned functions and gain basic experience and skills for independent investigation of some functions by modern methods.	
Class syllabus: Physiology of Blood (body fluids, plasma, erythrocytes, leukocytes, platelets, blood groups, mechanisms of blood clotting, basic methods of blood examination), Physiology of skeletal and smooth muscles, Exercise physiology, Physiology of peripheral, autonomic and central nervous system, Physiology of endocrine system, mechanisms and regulation of urine production and excretion and ontogenetic aspects of given systems.	
Recommended literature: Hall, J.E. et al. Textbook of Medical Physiology. 13th. ed. Philadelphia: Elsevier, 2016. 1145 pp. ISBN: 978-14557-7005-2 Baret KE et al.: Ganong's Review of Medical Physiology. 24th Ed. McGraw-Hill Medical, 2012. 768 pp. ISBN: 978-00-717-8003-2	

<p>Javorka, K. et al.: Medical Physiology. Laboratory manual.5. vydanie Bratislava: UK, 2019, 162 pp. ISBN: 978-80-223-4792-1</p> <p>Koeppen BM, Stanton BA: Berne & Levy Physiology. 6th Edition. Philadelphia: Mosby/Elsevier, 2008, 864 pp. ISBN: 978-0-323-04582-7.</p> <p>Čalkovská, A., Javorka, K. Lessons in Physiology. Publisher: Jessenius Faculty of Medicine in Martin, Comenius University in Bratislava, 2016. 194 pp. 1st ed. Print: KO & KA spol. s.r.o., Bratislava, ISBN: 978-80-8187-013-2</p>						
<p>Languages necessary to complete the course: english</p>						
<p>Notes:</p>						
<p>Past grade distribution Total number of evaluated students: 827</p>						
A	ABS0	B	C	D	E	FX
20,19	0,6	20,8	38,45	15,36	4,59	0,0
<p>Lecturers: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Kamil Javorka, DrSc., prof. MUDr. Michal Javorka, PhD., prof. MUDr. Daniela Mokra, PhD., prof. MUDr. Ingrid Tonhajzerova, PhD., MUDr. Zuzana Lazarova, PhD., MUDr. Ivan zila, PhD., RNDr. Pavol Mikolka, 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.ÚFy/J-S-VL-516/16	Course title: Physiology (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: 4.	
Educational level: I.II.	
Prerequisites: JLF.ÚLBf/J-S-VL-504/15 - Medical Biophysics and JLF.ÚFy/J-S-VL-515/16 - Physiology (1)	
Course requirements: 1. Completion of 93% of practical exercises and active participation in practical exercises 2. Passing three tests of continuous assessment of the study with at least 60% success (Physiology of gastrointestinal system, Physiology of cardiovascular system and Physiology of respiratory system). 3. Preparation of at least one power-point presentation on selected topic Scale of assessment (preliminary/final): 50/50	
Learning outcomes: The graduate gain a knowledge and understands the functions of the human body on the molecular, subcellular, cellular, tissue, organ and system levels up to an integrated - holistic understanding of the functions of a healthy organism in interaction with society and nature - environmental factors. After completing Physiology 2 he/she understands the functions of the digestive system, cardiovascular system and respiratory system. Interactive lectures, analysis of case studies as well as the use of simulation technologies will contribute to the deepening of knowledge. The practical part of the teaching of Physiology 2 will help the graduate to better understand the abovementioned functions and gain basic experience and skills for independent investigation of some functions by modern methods.	
Class syllabus: Physiology of the digestive system, mechanisms of digestion and resorption of nutrients, regulation of food and water intake, Physiology of nutrition, Physiology of the cardiovascular system (physiology of heart, blood vessels, specific areas of circulation, regulation of cardiovascular system, reflexes, basic methods of cardiovascular examination), Physiology of respiratory system (ventilation, distribution, diffusion, perfusion, pulmonary surfactant, respiratory mechanics, blood gas transport, artificial lung ventilation, regulation of breathing, airway and lung reflexes, examination methods) and ontogenetic aspects of the functions of these systems.	
Recommended literature: Hall, J.E. et al. Textbook of Medical Physiology. 13th. ed. Philadelphia: Elsevier, 2016. 1145 pp.	

<p>ISBN: 978-14557-7005-2 Barett KE et al.: Ganong's Review of Medical Physiology. 24th Ed. McGraw-Hill Medical, 2012. 768 pp. ISBN 978-00-717-8003-2 Javorka, K. et al.: Medical Physiology. Laboratory manual.5. vydanie Bratislava: UK, 2019, 162 pp. ISBN: 978-80-223-4792-1 Koeppen BM, Stanton BA: Berne & Levy Physiology. 6th Edition. Philadelphia: Mosby/Elsevier, 2008, 864 pp. ISBN: 978-0-323-04582-7 Čalkovská, A., Javorka, K. Lessons in Physiology. Publisher: Jessenius Faculty of Medicine in Martin, Comenius University in Bratislava, 2016. 194 pp. 1st ed. Print: KO & KA spol. s.r.o., Bratislava. ISBN 978-80-8187-013-2</p>						
<p>Languages necessary to complete the course: english</p>						
<p>Notes:</p>						
<p>Past grade distribution Total number of evaluated students: 746</p>						
A	ABS0	B	C	D	E	FX
22,92	0,0	24,26	18,5	14,08	9,25	10,99
<p>Lecturers: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Kamil Javorka, DrSc., prof. MUDr. Michal Javorka, PhD., prof. MUDr. Daniela Mokra, PhD., prof. MUDr. Ingrid Tonhajzerova, PhD., MUDr. Zuzana Lazarova, PhD., MUDr. Ivan zila, PhD., RNDr. Pavol Mikolka, 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.ÚCJ/J-S-VL-SJ3/16	Course title: Slovak Language (3)/Foreign Language (3)
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: 3.	
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%. 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 3 and 4 is to teach a foreign student the basic vocabulary used in contact with the patient, but also the basics of Slovak medical terminology, so that the student is able to orient himself in the hospital and at the same time read and understand medical notices, recommendations and instructions.	
Class syllabus: Slovak language: 1. Repetition of contact points of conversation and grammar from the 1st year. 2. Lesson 1: Human body - names of parts, internal organs. Doctor's dialogues, sore throat, cough, abdominal pain. 3. Lesson 2: Hospital - departments, clinics, appointment of specialists, medical staff. 4. Lesson 3: At the doctor 1, the basic questions, what hurts you, examination. Case report: Amputation of the foot. 5. Lesson 3: At the doctor 2 - on call, doctor's instructions. Lesson 4: Anamnesis - questioning, personal, family history, personal data of the patient. 6. Case report: Thyroid surgery. Repetition of lessons 1-4. 7. TEST 1. 8. Lesson 5: Examination - pressure, pulse, temperature, types of examinations. Case report: Unbearable headache. 9. Lesson 6: Drugs - types of drugs, method of use, in the pharmacy - dialogues. 10. Lesson 7: Infectious diseases (names), flu symptoms, sore throat. Case report: Abdominal pain and chills. 11. Lesson 8: Urology - organs, diseases. For a urologist. Case report: Renal failure. 12. Repetition of lessons 5-8. Case report: Kidney stones.	

13. TEST 2.

German language:

1. Endokrinologie

Die exokrinen und endokrinen Drüsen

Hormonbildende Drüsen

Grammatik: Direkte und indirekte Fragesätze

2. Endokrinologie

Hormonbildende Drüsen

Funktion und Wirkung der Hormone

Grammatik: Direkte und indirekte Fragesätze

3. Stoffwechsel- und Hormonerkrankungen

Stoffwechsel

Hormonerkrankungen

Grammatik: Direkte und indirekte Fragesätze

4. Stoffwechsel- und Hormonerkrankungen

Schilddrüsenerkrankungen

Hashimoto-Thyreoiditis

Grammatik: Direkte und indirekte Fragesätze

5. Stoffwechsel- und Hormonerkrankungen

Zuckerkrankheit (Diabetes mellitus)

Fettstoffwechselerkrankungen

Grammatik: Zahlen, Zielwerte ermitteln

6. Test I

7. Augenheilkunde

Aufbau des Auges

Anhangsorgane des Auges Augenmuskeln

Grammatik: Nominalisierung von Verben

8. Funktion des Auges

Sehvorgang

Akkommodation

Grammatik: Nominalisierung von Adjektiven

9. Funktion des Auges

Sehvorgang

Wie die Farbe entsteht

Grammatik: Nominalisierung von Verben und Adjektiven

10. Augenkrankheiten

Augenbeschwerden durch Entzündungen

Uveitis

Grammatik: Passiversatzformen

11. Altersbedingte Augenkrankheiten

Altersbedingte Makuladegeneration

Glaukom, Katarakt

Grammatik: Passiversatzformen

12. Sehschwäche

Fehlsichtigkeit (Weit-, Kurz- und Stabsichtigkeit)

Wie es zur Kurzsichtigkeit kommt

Grammatik: Passiversatzformen

13. Sehschwäche

Augenoperationen

Refraktive Chirurgie Grammatik: Passiversatzformen 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. Balková, D. a kol. (2020) Odborná slovenčina v medicínskej praxi – kazuistiky. 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: 821						
A	ABS0	B	C	D	E	FX
53,71	0,12	28,87	12,55	4,26	0,49	0,0
Lecturers: PhDr. Božena Džuganová, PhD., Mgr. Bojana Ladrová, PhD., Mgr. Anna Barnau, 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.ÚCJ/J-S-VL-SJ4/16	Course title: Slovak Language (4)/Foreign Language (4)
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: 4.	
Educational level: I.II.	
Prerequisites: JLF.ÚCJ/J-S-VL-SJ2/15 - Slovak Language (2)/Foreign Language (2) and JLF.ÚCJ/J-S-VL-SJ3/16 - Slovak Language (3)/Foreign Language (3)	
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 3 and 4 is to teach a foreign student the basic vocabulary used in contact with the patient, but also the basics of Slovak medical terminology, so that the student is able to orient himself in the hospital and at the same time read and understand medical notices, recommendations and instructions.	
Class syllabus: Slovak language: 1. Repetition of the basics from the winter semester. Rescue service - questions, instructions. 2. Lesson 9: Accidents, injuries, first aid, ambulance. Case report: Rheumatic fever. 3. Lesson 10: Cardiovascular diseases - heart disease, examination. Case report: Heart attack. 4. Lesson 11: Diseases of the digestive system - parts of the digestive system, symptoms of diseases. Case report: Appendicitis. 5. Patient communication training Lesson 9-11. Case report: Water in the body. 6. TEST 1. 7. Lesson 12: Gynecology 1 - organs, examination by a gynecologist, cancer. 8. Gynecology 2 - dialogue "Mrs. Pekná". Case report: Breast in the breast. Lesson 13: Pediatrics - childhood. 9. Pediatrics - infectious diseases, "children's speech" - diminutives. Pediatric communication, questions, instructions. 10. Lesson 14: Orthopedics - names of bones and body parts, diseases of the musculoskeletal system and bone diseases. 11. Patient communication training Lessons 12-14. Case report: Cyst in the uterus. 12. TEST 2.	

13. Repetition for oral exam (topics + case studies).

German language:

1. Dermatologie

Aufbau der Haut

Grammatik: Personalpronomen

2. Dermatologie

Funktion der Haut

Grammatik: Reflexivpronomen

3. Hauterkrankungen

Hautkrebs

Neurodermitis

Grammatik: Relativpronomen

4. Hauterkrankungen

Neurodermitis

Grammatik: Personal-, Reflexiv- und Relativpronomen

5. Pädiatrie

Kinderheilkunde

Jugendmedizin

Grammatik: Nebensätze – Temporalsätze

6. Test I

7. Pädiatrie

Vorsorgeuntersuchungen für Kinder und Jugendliche

Jugendgesundheitsuntersuchung J1

Grammatik: Nebensätze – Temporalsätze

8. Kinderkrankheiten

Häufige Kinderkrankheiten (Mumps, Röteln, Scharlach, Windpocken)

Masern

Ein Besuch beim Kinderarzt

Grammatik: Nebensätze – Temporalsätze

9. Neurologie

Zentrales und peripheres Nervensystem

Das Gehirn und die Verknüpfungen im Gehirn

Grammatik: Konjunktiv II

10. Neurologie

Funktionen der Gehirnbereiche

Das Gehirn: Verschiedene Felder – verschiedene Funktionen

Grammatik: Konjunktiv II

11. Neurologische Erkrankungen

Erkrankungen des menschlichen Nervensystems

Vielfalt von Krankheitsbildern

Grammatik: Ratschläge für das Lösen eines Problems

12. Neurologische Erkrankungen

Alzheimer – Krankheit des Vergessens

Ratschläge für Alzheimer-Patienten

Grammatik: Ratschläge für das Lösen eines Problems

13. Neurologische Erkrankungen

Erkrankungen des menschlichen Nervensystems

Ratschläge für Alzheimer-Patienten

Grammatik: Ratschläge für das Lösen eines Problems

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.

Balková, D. a kol. (2020) Odborná slovenčina v medicínskej praxi – kazuistiky. 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: 706

A	ABS0	B	C	D	E	FX
53,12	0,0	25,78	12,61	6,09	2,41	0,0

Lecturers: PhDr. Božena Džuganová, PhD., Mgr. Bojana Ladrová, PhD., Mgr. Anna Barnau, 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.ÚO/J-S-VL-520/19	Course title: Summer Practice - Nursing Practice
Educational activities: Type of activities: practice Number of hours: per week: per level/semester: 80s Form of the course: on-site learning	
Number of credits: 1	
Recommended semester: 4.	
Educational level: I.II.	
Prerequisites: JLF.ÚO/J-S-VL-634/22 - Basics of Nursing Techniques	
Course requirements: To complete the subject (ABS0) student must meet the following conditions: # completion of 80 hours of nursing practice under the supervision of a nurse in real conditions of clinical nursing practice (2 weeks, 8 hours per day) # submission of following documents to responsible teacher: confirmation about safety regulations and record of arrivals and departures to/from workplace, confirmed allocation sheet for Nursing practice, list of practical outputs (for check) – student is obliged to perform each output at least 3 times during nursing practice. Scale of assessment (preliminary/final): 0/100	
Learning outcomes: Within completion of the subject student will apply fundamental principles of nursing care provision and will respect standard procedures of selected nursing techniques and interventions while providing nursing care to the patients in real conditions of clinical nursing practice. Student will implement reliable evidence-based information for safe healthcare practice. Acquired clinical competences together with ability to argue for and justify the method / technique of the procedure chosen will be the basis for the ability to manage basic and frequently occurring clinical nursing situations and react to them correctly in real clinical practice in the future. After completion of this subject while performing nursing procedures student can: <ul style="list-style-type: none"> - argue for and justify the method / technique of the procedure chosen, - prepare equipment and supplies necessary to carry out the procedure, - assess the patient in relation to the procedure, - provide instructions and support the patient prior to the procedure, - prepare the patient for the procedure from physical perspective, - perform hand hygiene (hand washing and hygienic / surgical disinfection) - carry out the procedure independently while following clinical standards and guidelines, respecting the principles of asepsis, - communicate with the patient during the procedure, provide patient education / instruction after the procedure, 	

- record and document the procedure and value assessed,
- process all the equipment and items used.

Class syllabus:

Dressing technique – types of dressing material, principles and principles of dressing technique, basic dressing techniques, training of selected types of bandages (bandage of the hand, forearm, elbow, foot, high compression bandage of the lower limb).

Collection of biological material – blood collection – types of examinations, principles and principles of collection, prevention of puncture injuries with a used needle, training in venous blood collection (open and closed), capillary blood collection (ABR and blood glucose testing).

Parenteral drug administration – general principles of drug preparation and application, preparation of drugs from ampoule and vial, preparation and training application of intradermal, subcutaneous (LMWH, heparin, insulins), intramuscular and intravenous injection.

Gastric tube insertion and enteral nutrition - general principles of insertion and removal gastric tube and administration of enteral nutrition and drugs, training in the introduction and removal of gastric tube.

Vital functions – training in measuring and monitoring vital functions (blood pressure, pulse, breath, body temperature, measuring oxygen saturation with a pulse oximeter).

Bladder catheterization – Indications, types of urinary catheters, general principles catheterization of men and women, urine sampling, physical examination of urine, infection prevention

urinary tract, practice of direct catheter urine sampling in women, introduction and removal of permanent urinary catheter in women.

Nursing techniques and procedures in surgery – principles of surgical asepsis, preparation of a sterile table, care of aseptic and septic wounds, types of dressing material, general principles of treatment and wound dressing; training in handling sterile aids, surgical instruments and packaging materials – dressing table, dressing of aseptic and septic wounds, treatment of the drain area, training in donning and undressing gloves (non-sterile, sterile).

Recommended literature:

Dingová, M., Lepiešová, M., Rosenberg, A. et al.: Basics of Nursing. Textbook for Medical and Nursing Students. Martin : Comenius University in Bratislava, Jessenius Faculty of Medicine in Martin, 2011.

Lepiešová, M., Dingová, M., Nemcová, J., Ovšonková, A., Miertová, M., Tabaková, M., Tomagová, M.: Basics of nursing presentations. Martin : JLFUK – portal MEFANET, 2012, 419 p. [online] ISBN 1337-7396ISSN 1337-7396. Available on: <http://portal.jfmed.uniba.sk/articles.php?aid=187https://stella.uniba.sk/epc/JL/2012/vtIs000257495.pdf>

Kozier, B., Berman, A., Erb, G., Snyder, S. J.: Fundamentals of Nursing: Concepts, Process and Practice. 7th ed. Pearson Prentice Hall, 2004.

Perry, A. G., Potter, P. A., Ostendorf W.: Clinical Nursing Skills & Techniques. 8th ed. St. Louis, Missouri: Mosby/Elsevier, 2013.

Languages necessary to complete the course:

English language

Notes:

Past grade distribution

Total number of evaluated students: 1

ABS0	M
100,0	0,0

Lecturers: prof. Mgr. Katarína Žiaková, PhD., PhDr. Jana Nemcová, PhD.

Last change: 06.04.2022

Approved by:
