CONTENT

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Medicine	
Course ID: UA/A-GM1/22	**Course name:** Anatomy 1

Course type, scope and the method:
Course type: Lecture / Practice
Recommended course-load (hours):
Per week: 4 / 5 **Per study period:** 56 / 70
Course method: present

Number of ECTS credits: 10

Recommended semester/trimester of the course: 1.

Course level: I.II.

Prerequisities:

Conditions for course completion:

In order to successfully complete the subject as a "prerequisite for registration the subsequent subject Anatomy 2" it is necessary to:

- 75 % active presence in lectures (three absences without giving a reason are allowed).
- 100% active mandatory participation in practical lessons. If student is not present in practical lesson (maximum 3 times) due to serious healthy or personal reasons, his/her absence must be excused by the teacher and compensation of the missing practical lesson completed at the Department of Anatomy within ongoing practical lessons/seminars of the other groups until the end of winter semester. Compensation is not allowed one week before the practical test (so-called repetition week) !
- Theoretical and methodical mastery of practical tasks.

In order to successfully complete the subject Anatomy 1 as a "prerequisite for completion the subject Anatomy 2", the student:

• is obliged to pass all ongoing theoretical (written) and practical tests – i.e. 3 theoretical and 3 practical tests (controls) – the total number of points he/she can achieve from theoretical tests is 120 and from practical tests 60

• must achieve at least 60% success rate, i.e. 24 points from each theoretical test and 12 points from each practical test.

If the student does not achieve the minimum number of points from each part of the thematic unit, he/she is entitled one retake test at the beginning of the WS examination period and one retake test at the end of the WS examination period, i.e. 2 retake tests

The student will take the retake test only from that part of the thematic unit in which he/she did not achieve the minimum number of points (24 from the theoretical test and 12 from the practical test)

If the student does not take part in the theoretical and practical tests for any reason (personal, family, health), he/she will not have an alternative date, but will take the given exam on the first or second retake tests

If the student does not take part in the first or second retake tests for any reason, he/she is not entitled to a replacement date

Other conditions:

- A student who does not justify his non-participation in writing the tests in accordance with the established rules, does not achieve at least 60% of the theoretical and practical tests (individually)

and does not succeed even in the retaken term, will be automatically evaluated with the grade Fx – "failed".
- Continuous control tests are evaluated based on the number of points achieved (%) with evaluation according to the Study Regulations of the UPJŠ in Košice, Faculty of Medicine, II. part, Art. 13, paragraph 4.
- Final credit rating "passed A to E"
- The final assessment takes into account the results of the continuous assessment
100 – 91 /A/ excellent
90 – 84 /B/ very good
83 – 75 /C/ good
74 – 68 /D/ satisfactorily
67 – 60 /E/ enough
59 and lower /FX/ not enough
Continuous assessment (test, independent work): 3 theoretical and 3 practical tests

Learning outcomes:
The aim of this subject is to use anatomical nomenclature, to know the structure of upper and lower limbs – bones, joints, muscles, vessels, and nerves, the thorax and abdomen – comprising bones, joints, muscles, vessels, and nerves, including the heart and organs of respiratory, digestive system, and peritoneum as well. Study of anatomical structures location in individual regions of upper and lower limbs, thorax, and abdomen in mutual topographical relationships with the ability to apply it in practical medicine. Knowledge gained from the study of both systemic and regional anatomy of upper and lower limbs, respiratory and digestive systems, thorax, and abdomen should be used for application from the functional anatomy point of view.

Brief outline of the course:
Ethical principles in teaching of anatomy, introduction to anatomy. Knowledge of anatomical nomenclature and their using during the study of anatomy and in practical medicine. Become familiar with general knowledge of bones, joints, muscles, vessels, and nerves. Study of the skeleton, joints, and muscles of upper and lower limbs, thorax and abdomen including organs, blood and lymphatic systems and innervation. Superficial and deep structures in individual regions of limbs, thorax, and abdomen with emphasis on their topographical relationships and practical application.

Recommended literature:
Povinná literatúra:
PLATZER, W.: Color Atlas of Human Anatomy: Locomotor System. Thieme, 2014
FRITSCH, H., KUEHNEL, W.: Color Atlas of Human Anatomy: Internal organs. Thieme, 2014
KAHLE, W., FROTSCHER, M.: Color Atlas of Human Anatomy: Nervous system and Sensory organs. Thieme, 2015
Odporúčaná literatúra:
DRAKE, R., VOGL, A., MITCHELL, A.: Gray's Anatomy for students. Elsevier, 2019
HUDÁK, R., KACHLÍK, D. et al.: Memorix of Anatomy, Triton, 2015
MOORE, K.L. et al.: Clinically Oriented Anatomy. Wolters Kluwer Health, 2022
NETTER, F.H.: Atlas of Human Anatomy. Elsevier Science, 2018
PAULSEN, F., WASCHKE, J.: Sobotta Atlas of Human Anatomy: General Anatomy and Musculoskeletal System. Elsevier, 2013
PAULSEN, F., WASCHKE, J.: Sobotta Atlas of Human Anatomy: Internal Organs. Elsevier, 2013
PAULSEN, F., WASCHKE, J.: Sobotta Atlas of Human Anatomy: Head, Neck, and Neuroanatomy. Elsevier, 2013

ROHEN, J.W, YOKOSHI, CH., LŰTJEN-DRECOLL, E.: Photographic Atlas of Anatomy. Wolters Kluwer Health, 2021

Course language:
English

Notes:

Course assessment
Total number of assessed students: 1157

abs	abs-A	abs-B	abs-C	abs-D	abs-E	neabs
0.0	2.77	5.1	13.92	21.52	40.54	16.16

Provides: prof. MUDr. Ingrid Hodorová, PhD., doc. MVDr. Jozef Mihalik, CSc., doc. MUDr. Dalibor Kolesár, PhD., MUDr. Janka Vecanová, PhD., MUDr. Marko Vrzgula, PhD., MVDr. Natália Hvizdošová, PhD., MVDr. Andrea Kreheľová, PhD., Andriana Pavliuk-Karachevtseva, PhD., doc. MVDr. Květuše Lovásová, PhD.

Date of last modification: 14.12.2023

Approved: prof. MUDr. Peter Jarčuška, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Medicine	
Course ID: UA/A-GM2/22	**Course name:** Anatomy 2

Course type, scope and the method:
Course type: Lecture / Practice
Recommended course-load (hours):
Per week: 4 / 5 **Per study period:** 56 / 70
Course method: present

Number of ECTS credits: 11

Recommended semester/trimester of the course: 2.

Course level: I.II.

Prerequisities: UA/A-GM1/22

Conditions for course completion:
In order to successfully complete the subject and obtain credits, it is necessary to:
- 75 % active presence in lectures (three absences without giving a reason are allowed).
- 100% active mandatory participation in practical lessons. If student is not present in practical lesson (maximum 3 times) due to serious healthy or personal reasons, his/her absence must be excused by the teacher and compensation of the missing practical lesson completed at the Department of Anatomy within ongoing practical lessons/seminars of the other groups until the end of summer semester (SS). Compensation is not allowed one week before the practical test !
- Theoretical and methodical mastery of practical tasks.
Student:
• is obliged to pass all ongoing theoretical (written) and practical tests – i.e. 3 theoretical and 3 practical tests (controls) – the total number of points he/she can achieve from theoretical tests is 120 and from practical tests 60
• must achieve at least 60% success rate, i.e. 24 points from each theoretical test and 12 points from each practical test.
If the student does not achieve the minimum number of points from each part of the thematic unit, he/she is entitled one retake test at the beginning of the SS examination period and one retake test at the end of the SS examination period, i.e. 2 retake tests
The student will take the retake test only from that part of the thematic unit in which he/she did not achieve the minimum number of points (24 from the theoretical test and 12 from the practical test)
If the student does not take part in the theoretical and practical tests for any reason (personal, family, health), he/she will not have an alternative date, but will take the given exam on the first or second retake tests
If the student does not take part in the first or second retake tests for any reason, he/she is not entitled to a replacement date
Other conditions:
- Student who does not justify his/her non-participation in writing tests in accordance with the established rules, does not achieve at least 60% of the written and practical tests and does not succeed even in the retaken term, will automatically be graded X - "unclassified".

- Continuous control tests are evaluated based on the number of points achieved (%) with evaluation according to the Study Regulations of the UPJŠ in Košice, Faculty of Medicine, II. part, Art. 13, paragraph 4.
- Student who fulfilled conditions mentioned above and “prerequisite for completion the subject Anatomy 2”,
https://www.upjs.sk/app/uploads/sites/9/2023/03/GM1-requirements-new-Anatomy-1.pdf
is allowed to register for the final exam.
- Final exam: evaluation according to the table attached "A to E"
- The final assessment takes into account the results of the interim assessment
Evaluation of the final exam:
100 – 91 /A/ excellent
90 – 84 /B/ very good
83 – 75 /C/ good
74 – 68 /D/ satisfactory
67 – 60 /E/ sufficient
59 and below /FX/ fail

Learning outcomes:
Study of anatomical structures of the retroperitoneal space and lesser pelvis including the urinary system, male and female genital organs in mutual topographical relationships. Detailed study of skull, joints, and muscles of the head and neck. Become familiar with the blood supply, venous and lymphatic drainage of the head and neck. Detailed study of cranial nerves, their topography, branches, and function. Become familiar with other nerves of the head and neck (cervical plexus, sympathetic trunk). The need of knowledge all areas of the head and neck and their relationships. Understanding of individual parts of the central nervous system (CNS), study of external and internal features of the brain, its function as a control center for all systems of human body. Acquiring knowledge about the blood supply, venous drainage, coverings, and ventricles of the brain. Anatomical description and function of the eye, ear, skin, and endocrine glands complete the information needed for students. Knowledge obtained are important for functional anatomy and neuroanatomy to acquire an overview of the human body and interrelationships between various anatomical systems.

Brief outline of the course:
Neurovascular structures of the retroperitoneal space and lesser pelvis including the organs of urinary and genital systems. Skull – neurocranium and splanchnocranium. Cavities and spaces of the skull. Muscles of the head and neck. Blood supply, venous, and lymphatic drainage of the head and neck. Cranial nerves, innervation and topography of the head and neck. CNS – spinal cord, brain stem, cerebellum, diencephalon. Functional regions of telencephalon, rhinencephalon, limbic system, basal ganglia and their connections, nerve pathways. Ventricles, coverings, blood supply a venous drainage of CNS. Ear, Eye, including nerve tracts. Skin. Endocrine glands.

Recommended literature:
Povinná literatúra:
PLATZER, W.: Color Atlas of Human Anatomy: Locomotor System. Thieme, 2014
FRITSCH, H., KUEHNEL, W.: Color Atlas of Human Anatomy: Internal organs. Thieme, 2014
KAHLE, W., FROTSCHER, M.: Color Atlas of Human Anatomy: Nervous system and Sensory organs. Thieme, 2015
CROSSMAN, A.R., NEARY, D.: Neuroanatomy. An illustrated colour text. Churchill Livingstone, 2019
Odporúčaná literatúra:
HUDÁK, R., KACHLÍK, D. et al.: Memorix of Anatomy, Triton, 2015

LOVÁSOVÁ, K., KLUCHOVÁ, D.: Topographical Anatomy of Hardly Accessible and Clinically Significant Areas of Head. Typopress, 2010
DRAKE, R., VOGL, A., MITCHELL, A.: Gray's Anatomy for students. Elsevier, 2019
MOORE, K.L. et al.: Clinically oriented anatomy. Wolters Kluwer Health, 2022
NETTER, F.H.: Atlas of Human Anatomy. Elsevier Science, 2018
PAULSEN, F., WASCHKE, J.: Sobotta Atlas of Human Anatomy: General Anatomy and Musculoskeletal System. Elsevier, 2013
PAULSEN, F., WASCHKE, J.: Sobotta Atlas of Human Anatomy: Internal Organs. Elsevier, 2013
PAULSEN, F., WASCHKE, J.: Sobotta Atlas of Human Anatomy: Head, Neck, and Neuroanatomy. Elsevier, 2013
ROHEN, J.W, YOKOSHI, CH., LŰTJEN-DRECOLL, E.: Photographic Atlas of Anatomy. Wolters Kluwer Health, 2021

Course language:
English

Notes:

Course assessment
Total number of assessed students: 787

A	B	C	D	E	FX
1.78	2.8	13.6	15.88	43.71	22.24

Provides: prof. MUDr. Ingrid Hodorová, PhD., doc. MVDr. Květuše Lovásová, PhD., doc. MUDr. Dalibor Kolesár, PhD., doc. MVDr. Jozef Mihalik, CSc., MUDr. Janka Vecanová, PhD., MVDr. Natália Hvizdošová, PhD., Andriana Pavliuk-Karachevtseva, PhD., MUDr. Juraj Teslík, MUDr. Marko Vrzgula, PhD.

Date of last modification: 11.02.2025

Approved: prof. MUDr. Peter Jarčuška, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Medicine	
Course ID: UA/ AD-GM1/14	**Course name:** Anatomy Dissection 1

Course type, scope and the method:
Course type: Lecture / Practice
Recommended course-load (hours):
Per week: 0 / 2 **Per study period:** 0 / 28
Course method: present

Number of ECTS credits: 2

Recommended semester/trimester of the course: 5.

Course level: I.II.

Prerequisities: UA/A-GM3/17 or UA/A-GM2/22

Conditions for course completion:
For successful obtained of the credits from subject is necessary:
1. 100% of active presence at practical lessons
2. Active exploration and dissection of the human body by the student
3. Students are allowed to be absent for a maximum of 3 practical lessons per semester.
4. The final oral presentation of individual work - autopsy
100 – 91 /A/ excellent
90 – 84 /B/ very good
83 – 75 /C/ good
74 – 68 /D/ satisfactorily
67 – 60 /E/ enough
59 and lower /FX/ not enough

Learning outcomes:
Students have the opportunity to deepen their knowledge of anatomy by performing anatomical dissection under the supervision of the teacher and preparing material for teaching medical students in the lower grades of medical school. Students improve their practical skill to work with tweezers and a scalpel, which will be helpful to them in their own medical practice.

Brief outline of the course:
Dissection of subcutaneous structures on the palmar and dorsal side of upper limb, dissection of axillary fossa, dissection of subfascial layer in anterior region of arm and forearm, cubital fossa, anterior region of wrist, palm of hand, scapular region, posterior region of arm and forearm, posterior region of wrist and dorsum of hand.

Recommended literature:
Rohen, Yokochi: Color Atlas of Anatomy, Lippincott Williams & Wilkins, 2011
Netter F. H.: Atlas of Human Anatomy.

Course language:
English

Notes:
Total number of assessed students: 18

Course assessment
Total number of assessed students: 207

abs	abs-A	abs-B	abs-C	abs-D	abs-E	neabs
15.46	77.29	0.0	0.0	0.0	0.0	7.25

Provides: MUDr. Janka Vecanová, PhD., MVDr. Natália Hvizdošová, PhD., MUDr. Marko Vrzgula, PhD., MVDr. Andrea Kreheľová, PhD., Andriana Pavliuk-Karachevtseva, PhD.

Date of last modification: 14.12.2023

Approved: prof. MUDr. Peter Jarčuška, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: UA/ AD-GM2/14	**Course name:** Anatomy Dissection 2

Course type, scope and the method:
Course type: Lecture / Practice
Recommended course-load (hours):
Per week: 0 / 2 **Per study period:** 0 / 28
Course method: present

Number of ECTS credits: 2

Recommended semester/trimester of the course: 6.

Course level: I.II.

Prerequisities: UA/A-GM3/17 or UA/A-GM2/22

Conditions for course completion:
During semester, students help to teacher with prosection of the thorax and abdomen. Results of the prosection are demonstrated to the other students. Credits will not be awarded to a student who misses more than 6 hours of practical exercises.
- Final credit rating "passed A to E"
100 – 91 /A/ excellent
90 – 84 /B/ very good
83 – 75 /C/ good
74 – 68 /D/ satisfactorily
67 – 60 /E/ enough
59 and lower /FX/ not enough

Learning outcomes:
Anatomical dissection is carried out under the supervision of teacher. Students prepare cadaveric material for teaching of medical students. Students improve their knowledge of anatomy of the trunk and abdomen. Participants can develop manual dexterity skills

Brief outline of the course:
Dissection of subcutaneous structures of the anterior chest wall, dissection of intercostal spaces, opening of thoracic cavity, dissection of upper mediastinum, taking off lungs, heart and pericardium, dissection of arteries and veins of heart, dissection of hert chambers, dissection of posterior mediastinum. Dissection of subcutaneous structures of abdominal wall, abdominal muscles, inguinal canal, opening of abdomen, dissection branches of abdominal aorta.

Recommended literature:
Rohen, Yokochi: Color Atlas of Anatomy, Lippincott Williams & Wilkins, 2011
Netter F. H.: Atlas of Human Anatomy.

Course language:
English

Notes:
The subject is provided only in the summer semester, capacity of the subject is limited to 10 students, in case of higher interest students will be selected.

Course assessment
Total number of assessed students: 156

abs	abs-A	abs-B	abs-C	abs-D	abs-E	neabs
16.03	69.23	0.0	0.0	0.0	0.0	14.74

Provides: MUDr. Janka Vecanová, PhD., MVDr. Natália Hvizdošová, PhD., doc. MUDr. Dalibor Kolesár, PhD.

Date of last modification: 11.02.2025

Approved: prof. MUDr. Peter Jarčuška, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: IK/ AaIMA-GM/24	**Course name:** Angiology and Investigative Methods in Angiology

Course type, scope and the method:
Course type: Lecture / Practice
Recommended course-load (hours):
Per week: 0 / 1 **Per study period:** 0 / 14
Course method: present

Number of ECTS credits: 2

Recommended semester/trimester of the course: 8.

Course level: I.II.

Prerequisities: IK/IM-GM1/16 and UFR/PM-GM1/19

Conditions for course completion:
The criterion for successful completion of the course is participation in seminars and completion of assigned tasks.

Learning outcomes:
Students will acquire knowledge in the field of angiology and become familiar with the most common vascular diagnoses. We will explain diagnostic procedures and pharmacological and non-pharmacological treatment of vascular diseases.

Brief outline of the course:
Diseases of peripheral arteries
Vein diseases
Diseases of the aorta
Vasoneurosis
Vasculitis
Diagnostic methods for diseases of arteries and veins
Possibilities of pharmacological and endovascular treatment

Recommended literature:
Kumar and Clark: Clinical Medicine 10th Edition, ELSEVIER 2020

Course language:
English

Notes:

Course assessment
Total number of assessed students: 0

abs	abs-A	abs-B	abs-C	abs-D	abs-E	neabs
0.0	0.0	0.0	0.0	0.0	0.0	0.0

Provides: MUDr. Lucia Dekanová, PhD., Bc. MUDr. Marek Hudák, PhD., doc. MUDr. Mária Rašiová, PhD.

Date of last modification: 26.03.2024

Approved: prof. MUDr. Peter Jarčuška, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: UHE/ FE-GM/18	**Course name:** Basic Embryology

Course type, scope and the method:
Course type: Lecture / Practice
Recommended course-load (hours):
Per week: 0 / 2 **Per study period:** 0 / 28
Course method: present

Number of ECTS credits: 2

Recommended semester/trimester of the course: 3.

Course level: I.II.

Prerequisities:

Conditions for course completion:
Presentation of seminar project evaluated: A-E

Learning outcomes:
Basic Embryology is a medical subject focused on developmental processes in the human body from fertilization, embryonic development to fetal period under physioplogical and pathological conditions. Students will use acquired knowledge of developmental processes and fundamentals of organ development in preclinical and clinical subjects.

Brief outline of the course:
Fertilization, blastogenesis, implantation, development of placenta and fetal membranes.
Primitive embryonic organs development: notochord, somites, neural tube, nephrotomes, folding of embryo, primitive gut, early development of cardiovascular system. Development of systems: cardiovascular and nerve systems, urogenital system, respiratory and digestive systems, head development, sensory organs development.
https://www.upjs.sk/public/media/9552/EN_GM_%20Basic%20Embryology_Content.pdf

Recommended literature:
K.L. Moore, T.V.N. Persaud, M.G. Torchia: Before we are born. Essentials of Embryology and Birth Deffects. Elsevier.
Thomas W. Sadler: Langman´s Medical Embryology. Wolters Kluwer Health.
Gary C. Schoenwolf: Larsen's Human Embryology, 2020 Elsevier
https://www.upjs.sk/public/media/9552/EN_Basic%20Embryology_Literature%20GM.pdf

Course language:
English

Notes:

Course assessment
Total number of assessed students: 49

abs	abs-A	abs-B	abs-C	abs-D	abs-E	neabs
0.0	26.53	20.41	22.45	14.29	8.16	8.16

Provides: prof. MUDr. Eva Mechírová, CSc.
Date of last modification: 17.05.2022
Approved: prof. MUDr. Peter Jarčuška, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: ULBL/ B-GM1/09	**Course name:** Biology 1

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

Number of ECTS credits: 4

Recommended semester/trimester of the course: 1.

Course level: I.II.

Prerequisities:

Conditions for course completion:
For the successful completion of the subject, as "prerequisite for registration" in the follow-up subject Biology 2, it is necessary:
100% active participation in all practical lessons
For successful completion of the subject, as "prerequisite for completion of the subject" Biology 2, it is necessary:
obtaining at least 60% from each test

Learning outcomes:
To introduce the basic concepts of cell biology and molecular biology, including cell structure, biomacromolecules, cell cycle, cell reproduction, gene exprression and cell communications. To give students a thorough grounding in the theoretical and practical foundations of molecular biology and cytology. Students have acquired an understanding of the major concepts in cell and molecular biology and have obtained basic information related to cytogenetics in clinical practice.

Brief outline of the course:
Biomacromolecules – the fundamental components of biological macromolecules, common characteristics, the structure and function of saccharides, lipids, proteins and nucleic acids. Cell structure – prokaryotic and eukaryotic cells, cell organelles, their structure and function. General characteristic of biomembranes, molecular structure of biomembranes; movement of molecules through the membrane. The structural organization of genome - organization of DNA in genomes, the basic principles of human cytogenetics. Replication of DNA. Cell cycle – phases, control of cell cycle, mitosis, meiosis, spermatogenesis, oogenesis. Cell signalling. Gene expression – gene structure and function, transcription, post-transcriptional RNA processing, translation, synthesis of proteins, posttranslation modifications, regulation of gene expression. The basic principles of epigenetics. Cell differentiation, cell ageing and cell death. Genomics and medicine.

Recommended literature:
Židzik J. et al.: Medical Biology and Genetics. Second edition, Equilibria, 2015, 296 p.
Mičková et al.: Biology: practical lessons. Second edition, Equilibria, 2020, 98 p.

Course language:
English

Notes:
English language

Course assessment
Total number of assessed students: 4676

abs	abs-A	abs-B	abs-C	abs-D	abs-E	neabs
28.91	3.61	4.58	10.91	19.4	21.79	10.8

Provides: prof. RNDr. Ján Šalagovič, PhD., RNDr. Helena Mičková, PhD., RNDr. Jozef Židzik, PhD., RNDr. Viera Habalová, PhD., RNDr. Lucia Klimčáková, PhD., doc. RNDr. Peter Solár, PhD., RNDr. Martina Šemeláková, PhD., RNDr. Eva Slabá, PhD., prof. RNDr. Janka Vašková, PhD.

Date of last modification: 06.03.2023

Approved: prof. MUDr. Peter Jarčuška, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: ULBL/B-GM2/22	**Course name:** Biology 2

Course type, scope and the method:
Course type: Lecture / Practice
Recommended course-load (hours):
Per week: 2 / 3 **Per study period:** 28 / 42
Course method: present

Number of ECTS credits: 6

Recommended semester/trimester of the course: 2.

Course level: I.II.

Prerequisities: ULBL/B-GM1/09

Conditions for course completion:
All practical lessons (100%) are obligatory for all students.
Assessment of the student´s learning achievements is carried out as a combination of continuous monitoring of the study during the teaching part of the semester (40%) with the final examination for the period of the semester concerned (60%). Prerequisite for the final examination (to register for the final examination) is the acquirement of 20 points minimum from continuous assessments during the semester.

Learning outcomes:
To introduce the basic concepts of general biology and human genetics, including mutations and their role in pathogenesis in human diseases, Mendelian genetics, quantitative and population genetics. To give students a thorough grounding in the theoretical and practical foundations of basic genetics. Students have acquired an understanding of the major concepts in human and molecular genetics and have obtainined basic information related to genetic and molecular biology methods in clinical practice.

Brief outline of the course:
Mutations I. - classification of mutations, mechanisms of mutagenesis, gene (point) mutations, structural and numerical chromosome mutations. Mendelian genetics - historical overview, general characteristics, Mendel´s laws of inheritance. Quantitative genetics - polygenic inheritance, heritability, multifactorial diseases. Gene linkage. Heredity and sex. Genetics in pathogenesis of human diseases. Inheritance of blood group systems I. - ABO, Rh, MNss, Lewis, ... HLA system. Population genetics - Hardy-Weinberg law, population equilibrium, panmixis, inbreeding, genetic drift, eugenics, euphenics. Genealogy and genetic counselling. Genetics of cancer. Molecular biology methods in human genetics and clinical practice. Ethical issues in human genetics.

Recommended literature:
Židzik J. et al.: Medical Biology and Genetics. Second edition, Equilibria, 2015, 296 p.
Mičková et al.: Biology: practical lessons. Second edition, Equilibria, 2020, 98 p.

Course language:
English

Notes:

Course assessment
Total number of assessed students: 4133

A	B	C	D	E	FX
11.13	13.28	19.09	20.23	27.37	8.9

Provides: prof. RNDr. Ján Šalagovič, PhD., RNDr. Helena Mičková, PhD., RNDr. Lucia Klimčáková, PhD., RNDr. Jozef Židzik, PhD., RNDr. Viera Habalová, PhD., doc. RNDr. Peter Solár, PhD., RNDr. Martina Šemeláková, PhD., RNDr. Eva Slabá, PhD., prof. RNDr. Janka Vašková, PhD.

Date of last modification: 06.03.2023

Approved: prof. MUDr. Peter Jarčuška, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: ULCHBKB/BCHM-GM/14	**Course name:** Bioorganic Chemistry in Medicine

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

Number of ECTS credits: 2

Recommended semester/trimester of the course: 2.

Course level: I.II.

Prerequisities:

Conditions for course completion:
seminars, lectures; more details: https://www.upjs.sk/lekarska-fakulta/en/department/medical-and-clinical-biochemistry/education/subjects/general-medicine/

Learning outcomes:
The graduate knows the structures and functions of selected organic and bioorganic molecules that participate in chemical processes taking place in living systems, which leads to a better understanding of the functions of the whole organism. Bioorganic chemistry is the chemical basis for mastering and properly understanding medical biochemistry, which is its superstructure and also forms the theoretical basis of several medical disciplines.

Brief outline of the course:
Organic compounds (e.g. hydrocarbon derivatives, carboxylic acids. Structure and biochemically significant reactions of organic compounds. Heterocyclic compounds. Saccharides. Lipids and steroids. Nucleic acids. Amino acids and peptides. Proteins - structure and function. Natural substances - e.g. vitamins, alkaloids. More details: https://www.upjs.sk/lekarska-fakulta/en/department/medical-and-clinical-biochemistry/education/subjects/general-medicine/

Recommended literature:
Mareková M. et al.: Lectures, 2021; https://portal.lf.upjs.sk/articles.php?aid=250
Stupák M. et al.: Medical Chemistry - "Hand book", 2020; https://portal.lf.upjs.sk/articles.php?aid=69
Urban P. et al.: Chemistry - Repetitorium, 2017; https://portal.lf.upjs.sk/articles.php?aid=236
Stupák M. et al.: Medical Chemistry - Calculation, 2017; https://portal.lf.upjs.sk/articles.php?aid=232
Országová Z. et al.: Medical Chemistry, 2008

Course language:
english

Notes:

Course assessment
Total number of assessed students: 481

abs	abs-A	abs-B	abs-C	abs-D	abs-E	neabs
17.05	9.77	12.89	18.5	8.94	6.86	25.99

Provides: doc. RNDr. Vladimíra Tomečková, PhD., univerzitná profesorka, doc. RNDr. Marek Stupák, PhD., RNDr. Jana Mašlanková, PhD., doc. Ing. Beáta Hubková, PhD.

Date of last modification: 17.02.2023

Approved: prof. MUDr. Peter Jarčuška, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: ULI/B-GM/09	**Course name:** Biostatistics

Course type, scope and the method:
Course type: Lecture / Practice
Recommended course-load (hours):
Per week: 0 / 2 **Per study period:** 0 / 28
Course method: present

Number of ECTS credits: 2

Recommended semester/trimester of the course: 4., 6., 8., 10.

Course level: I.II.

Prerequisities: ULI/MInf-GM/09

Conditions for course completion:
1. 100% and active attendance.
2. Min. 60% from each test during the term.
3. Elaboration of all assigned tasks.

Learning outcomes:
The student will acquire basic knowledge of statistical terminology, mainly methods of collecting, sorting and processing statistical data. He will be able to use standard application software and acquire practical skills in data processing. Student will be able to correctly apply selected statistical methods and interpret the results of experimental medical data processing.

Brief outline of the course:
Basic terms, experiment, survey, statistical set, statistical unit. Descriptive statistics, measures of location, variability and shape. Data grouping methods. Theoretical models of probability distribution. Statistical estimation. General theory of statistical hypothesis testing. Outlier tests. Parametric and non-parametric tests. Hypothesis tests about the mean value, hypothesis tests about the variance. Analysis of variance of simple sorting. Regression and correlation analysis. Tightness measures of statistical dependence. Examples of incorrect conclusions when interpreting the results. Solving sample tasks using available software.

Recommended literature:
1. Majerník J.:Biostatistics, Multimedia support in the education of clinical and health care disciplines :: Portal of Faculty of Medicine [online], Available from WWW: <http://portal.lf.upjs.sk/articles.php?aid=45>. ISSN 1337-7000.
2. Cleophas T.J., Zwinderman A.H., Statistics Applied to Clinical Studies, Fifth Edition, Springer, 2012.
3. Mattson D.E., Statistics, Difficult concepts, understandable explanations, Bolchay - Carducci Publishers, 1999.
4. Douglas G. Altman, Practical Statistics for Medical Research, CHAPMAN @ HALL, London, 1994.
5. Handbooks for applications and information systems used during practical lessons.
6. Notes from practical lessons.

Course language:
English

Notes:

Course assessment
Total number of assessed students: 237

abs	abs-A	abs-B	abs-C	abs-D	abs-E	neabs
18.57	2.95	10.13	18.14	18.57	7.59	24.05

Provides: doc. Ing. Jaroslav Majerník, PhD.

Date of last modification: 25.03.2023

Approved: prof. MUDr. Peter Jarčuška, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Medicine	
Course ID: G-PK/ CGO-GM/24	**Course name:** Clerkship - Gynaecology and Obstetrics

Course type, scope and the method:
Course type: Practice
Recommended course-load (hours):
Per week: Per study period: 80s
Course method: present

Number of ECTS credits: 2

Recommended semester/trimester of the course: 10.

Course level: I.II.

Prerequisities: G-PK/GO-GM2/09

Conditions for course completion:
After completing the clerkship, the student acquires the practical knowledge obtained in the theoretical classes.

Learning outcomes:
Course Objectives:
Acquaintance with basic examination and therapeutic procedures in gynaecology and obstetrics.

Brief outline of the course:
Brief outline of the course:
Basic examination methods in gynaecology and obstetrics, course of physiological and pathological pregnancy, physiological and pathological delivery, menstrual cycle disorders, gynaecological inflammations and infections, benign and malignant tumours of female genital organs, infertility, urogynaecology, breast diseases

Recommended literature:

Course language:
Study literature:
Čech E., et al., Porodnictví, 1999
Citterbart, K., et al., Gynekologie, 2001
Martius G., et al., Gynekológia a pôrodníctvo, 1997
Ponťuch A., et al., Gynekológia a pôrodníctvo, 1989
Ponťuch A., et al., Gynekológia a pôrodníctvo, 1987
Poradovský K., et al., Gynekológia, zv. 1, 1982
Poradovský K., et al., Pôrodníctvo, zv. 2, 1982
Chamberlain G., et al., Illustrated textbook of obstetrics, 1991
Tindall V. R., et al., Illustrated textbook of gynaecology, 1991
Gabbe S. G., et al., Obstetrics, 1996
Varga J., et al., Praktikum z gynekológie a pôrodníctva, 2022

Notes:

Course assessment
Total number of assessed students: 1672

abs	abs-A	abs-B	abs-C	abs-D	abs-E	neabs
99.88	0.0	0.0	0.0	0.0	0.0	0.12

Provides: MUDr. Katarína Balasičová, PhD., MUDr. Barbora Baranovičová, prof. MUDr. Róbert Dankovčík, PhD., MPH, doc. MUDr. Rastislav Dudič, PhD., MHA, MUDr. Viera Dudičová, PhD., MUDr. Andrea Grendelová, PhD., MUDr. Alena Nagyová, PhD., MUDr. Lule Tomiq, doc. MUDr. Silvia Toporcerová, PhD., MBA, MUDr. Dávid Tóth, prof. MUDr. Peter Urdzík, PhD., MPH, doc. MUDr. Ján Varga, PhD., MHA, MUDr. Zuzana Ballová, doc. MUDr. Erik Dosedla, Ph.D., MBA, MUDr. Michal Michna, MUDr. Martina Sitáš

Date of last modification: 24.07.2024

Approved: prof. MUDr. Peter Jarčuška, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Medicine	
Course ID: IK/ CIM-GM/24	**Course name:** Clerkship - Internal Medicine

Course type, scope and the method:
Course type: Practice
Recommended course-load (hours):
Per week: Per study period: 120s
Course method: present

Number of ECTS credits: 4

Recommended semester/trimester of the course: 8.

Course level: I.II.

Prerequisities: IK/IM-GM1/16

Conditions for course completion:
1. For successful obtained of the credits from subject is necessary:
- successful completion of professional practice
- complete the evaluation of Clerkship of Internal Medicine

Learning outcomes:
Get acquainted with and master the work in the department under the guidance of a practice assistant.

Brief outline of the course:
All medical students are required to undertake the clinical internship in the hospital wards under the supervision of the clinical tutor or other clinician who is responsible for the internship. The students make the ward rounds daily, they make daily medical notes, write case histories of newly admitted patients, read and assess X-rays, ECGs and other laboratory findings with their supervisor and at the same time they acquaint themselves with other medical records and work in the hospital ward.
Practical clinical work (under tutorial guidance nad support) includes taking various biological samples for laboratory testing, administration of subcutaneous, intramuscular, intravenous injections and transfusions. The students take responsible part in therapeutic procedures and physical examinations such as pleural, abdominal and sternal punction in monitored patients (or in other cases interesting from the diagnostic view), USG, X-ray, ECG, bicycle ergometry, pulmonary function examination, endoscopy, and autopsy in the case of death.
According to hospital possibilities the clinical internship requires 1-2 days of laboratory work to perform in order to become familiar with available basic diagnostic techniques such as doing urine tests, blood counts and blood smears. In more common internal diseases sternal biopsies are demonstrated to students.
According to hospital possibilities, the students are required to become familiar with the work of Central Admission Department, Intesive Care Unit, Dialysis Unit and Anaesthesiology and Resuscitation Department.
The students are required to take part in seminars. If it is possible they are supposed to perform night duties with qualified medical staff at least twice during their internship

course.
The students are required to write an internship diary with the records of all the performed procedures during their internship. The diary will be regularly checked by the clinical tutor at the end of each week.
CONTENT OF THE SUBJECT
Procedure:
Patient's entrance physical examination and writing a receiving report form
Ward round with the Head of Department
Patient release – writing a dismissal report form
Measuring vital signs (P, blood pressure, respiratory rate), objective status of patients, patient's disease course – separately – daily
Work at the Department of Anaesthesiology and Intensive Care or at the Coronary and Arythmologic Intensive Care Unit – 2 days
Examination per rectum ork (stay) at the Admission Outpatient Department
Assistance in puncture of ascites, pleura, liver, kidney
Assistance in gastroscopy
Assistance in colonoscopy
Loading electrodes, ECG, and make its assessment by an ECG Doctor
Chest X-ray - escorting a patient, assessment of chest X-ray, native stomach, gastrointestinal passage K. L.
Assistance in USG examination of abdomen and heart
Active participation in a dif. dg. seminar: heart failure primary and secondary hypertension dif. dg. hepatosplenomegaly

Recommended literature:

Course language:
english

Notes:
The subject Clerkship of Internal Medicine is provided only in the summer term.

Course assessment
Total number of assessed students: 1993

abs	abs-A	abs-B	abs-C	abs-D	abs-E	neabs
99.9	0.0	0.0	0.0	0.0	0.05	0.05

Provides: prof. MUDr. Želmíra Macejová, PhD., MPH, prof. MUDr. Daniel Pella, PhD., prof. MUDr. Ivan Tkáč, PhD., prof. MUDr. Peter Mitro, DrSc., prof. MUDr. Ivica Lazúrová, DrSc., FRCP, prof. MUDr. Gabriel Valočik, PhD., prof. MUDr. Ružena Tkáčová, DrSc., prof. MUDr. Jozef Pella, PhD., prof. MUDr. Ľubomír Legáth, PhD., doc. MUDr. Jozef Gonsorčík, CSc., prof. MUDr. Peter Jarčuška, PhD., doc. MUDr. Eva Szabóová, PhD., doc. MUDr. Viola Vargová, PhD., doc. MUDr. Ivana Valočiková, PhD., MUDr. Peter Horváth, MUDr. Jana Deptová, PhD., MUDr. Ivan Majerčák, MPH, doc. MUDr. Martin Janičko, PhD., doc. MUDr. Miriam Kozárová, PhD., MPH, doc. MUDr. Ingrid Dravecká, PhD., MUDr. Alojz Rajnič, PhD., doc. MUDr. Pavol Joppa, PhD., doc. MUDr. Eduard Veseliny, PhD., MUDr. Ján Pobeha, MUDr. Martin Javorský, PhD., MUDr. Marek Varga, PhD., MUDr. Lucia Vaszilyová, PhD., MUDr. Lucia Tomková, PhD., MUDr. Mgr. Ivana Jochmanová, PhD., MUDr. Jana Figurová, PhD., MUDr. Anna Ürgeová, PhD., MUDr. Katarína Tokarčíková, PhD., MUDr. Ivana Gotthardová, PhD., MUDr. Zora Lazúrová, PhD., doc. MUDr. Mária Rašiová, PhD., MUDr. Alena Yaluri, PhD.

Date of last modification: 24.07.2024

Approved: prof. MUDr. Peter Jarčuška, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: KDaD/ CPae-GM/22	**Course name:** Clerkship - Paediatrics

Course type, scope and the method:
Course type: Practice
Recommended course-load (hours):
Per week: Per study period: 40s
Course method: present

Number of ECTS credits: 2

Recommended semester/trimester of the course: 10.

Course level: I.II.

Prerequisities: KDaD/PE-GM1/15

Conditions for course completion:
Succesful completion of practice in pediatrics
Submission of evaluation of clinical practice
Evaluation during course (test, individual work): individual work under guidance of tutor
Final evaluation (exam): Final evaluation of internship – awarding credits

Learning outcomes:

Brief outline of the course:
A student participates at work at the department under the supervision of a tutor. He/she improves his/her skills in examining children and assessing the clinical conditions and participates in the diagnostic and therapeutic process of newly admitted patients.
List of clinical procedures, which are necessary to be completed by the student under the supervision of a tutor:
• Initial clinical examination, writing an admission report
• Morning rounds with the head of a ward
• Discharge of patients – writing an discharge report
• Assistance during (abdominal) USG investigation
• Assistance during collection of biologic material and insertion of intravenous cannulas

Recommended literature:
Marcdante KJ, Kliegman RM, Jenson HB, et al.: Nelson Essentials of Pediatrics, Sixth Edition, Saunders Elsevier 2011, ISBN-13: 978-1-4377-0643-7, 831 pp.
Roberton DM, South M: Practical Paediatrics, Sixth Edition, Churchill Livingstone Elsevier, 2007, ISBN: 978-0-443-10280-6, 861 pp.

Course language:
English language

Notes:
The subject is to be completed by the end of the summer term (at a paediatric ward of selected facility closest to the place of living).

Course assessment
Total number of assessed students: 63

abs	abs-A	abs-B	abs-C	abs-D	abs-E	neabs
100.0	0.0	0.0	0.0	0.0	0.0	0.0

Provides:

Date of last modification: 23.03.2023

Approved: prof. MUDr. Peter Jarčuška, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: ChK/ CS-GM/24	**Course name:** Clerkship - Surgery

Course type, scope and the method:
Course type: Practice
Recommended course-load (hours):
Per week: Per study period: 80s
Course method: present

Number of ECTS credits: 2

Recommended semester/trimester of the course: 10.

Course level: I.II.

Prerequisities: ChK/S-GM3/17

Conditions for course completion:
1. For successful completion of the practical exercises / lectures is required:
- successful completion of clerkship in surgery
- submit the evaluation of completion of clerkship in surgery

Learning outcomes:
The students will have the practical knowledge and skills in the investigation and treatment the patients in the ambulance, department of surgery and in the operating rooms. The students will learn the ethical principles of healthcare delivery. The students will increase the ability to communicate effectively with the patient on the surgical ambulance and bedside department.

Brief outline of the course:
To work in surgical ambulance in daytime and emergency service. The activity of outpatient clinics. Patient management. Examination and collection of material for examination. Interpretation of laboratory and imaging examinations. Assistance during surgical operations in the operating rooms.

Recommended literature:
Frankovičová Surgical for Medical Students.

Course language:
English

Notes:

Course assessment
Total number of assessed students: 1678

abs	abs-A	abs-B	abs-C	abs-D	abs-E	neabs
99.7	0.06	0.0	0.0	0.0	0.12	0.12

Provides: doc. MUDr. Miroslav Gajdoš, CSc., MPH, prof. MUDr. Mária Frankovičová, PhD., prof. MUDr. Miroslav Kitka, PhD., prof. MUDr. Jozef Radoňak, CSc., MPH, doc. MUDr. Gabriel Vaško, CSc., prof. MUDr. Vincent Nagy, PhD., MPH, prof. MUDr. Jana Kaťuchová, PhD., MBA, MUDr. Pavol Harbuľák, MUDr. Marián Kudláč, MUDr. Milan Šudák, PhD., MUDr. Peter Cibur,

PhD., prof. MUDr. Radoslav Morochovič, PhD., MUDr. Andrej Vrzgula, PhD., prof. MUDr. Marek Lacko, PhD., MUDr. Milan Stebnický, PhD., MUDr. Róbert Šimon, PhD., MPH
Date of last modification: 24.07.2024
Approved: prof. MUDr. Peter Jarčuška, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Medicine	
Course ID: KVL Šaca/CGPM-GM/23	**Course name:** Clerkship of General Practice Medicine

Course type, scope and the method:
Course type: Practice
Recommended course-load (hours):
Per week: Per study period: 40s
Course method: present

Number of ECTS credits: 1

Recommended semester/trimester of the course: 10.

Course level: I.II.

Prerequisities: KVL Šaca/GPM-GM/23

Conditions for course completion:
Completion of General medicine course

Learning outcomes:
Familiarize students with the operation, organization and administration outpatient facility of general practitioner. Teach students practical knowledge and skills in examinbation and treatment of patients at clinic of general practitioner. Control the ethical-legal principles of healthcare provision. Demonstrate the ability to communicate effectively wth patients at the clinic . Handle keeping the medical records in written and electronical form. The student should learn to apply the examination and treatment procedures on medicine based on evidence and correct clinical practice.The student should be competent to execute detailed withdraw of medical history, handle physical examination, make a diagnosis and consider differencial diagnosis options. Followed by the treatment (by the nature of diagnosis definitive, primary, acute in situations that require follow-up diagnosis and treatment in specialized facilities ambulatory or hospital type).

Brief outline of the course:
Students will fully patricipate in work at the clinic under the guidance of the teacher and after acquiring the theoretical knowledge of general medicine they should master the following processes:
1. Preventive care, particularly in terms of periodic medical examinations which consider all factors that affect the health of the patient (age, living and working conditions, eating habits , etc.)
2. Diagnostic and therapeutic care in patient affected by acute or chronic diseases
3. Available diagnostic methods – in hematology, biochemistry, microbiology and manage different sampling of biological material in relation with particular disease
4. Assesment of the health status and subsequent managment either in his discretion or request for a consultation or hospitalization
5. Assesment activity – especially with reagrds to medical ability to carried out work and generally in relation to sickness absence in each category (defined by working Health Service)
6. Contact with professional and social institutions with which the practitioner for adults necessarily cooperates (eg. Public health, ADOS, Health insurance companies, Health Unions)
7. Technically master application of different types of medication (especially subcutaneous,

intramuscular, intravenous)
8. Manage all acute conditions (eg. cardiovascular, anaphylactic, psychiatric, basics of CPR)
9. Keep the recorder during the clerskship

Recommended literature:
OXFORD MEDICINE ONLINE:
1. Chantal Simom, Hazel Everitt, Francoise van Dorp, and Matt Burkes, Oxford Handbook of General
Practice, Oxford Univerzity Press, 2014, ISBN: 9780199671038

Course language:
English language

Notes:

Course assessment
Total number of assessed students: 1347

abs	abs-A	abs-B	abs-C	abs-D	abs-E	neabs
99.48	0.0	0.0	0.0	0.0	0.0	0.52

Provides:

Date of last modification: 28.04.2023

Approved: prof. MUDr. Peter Jarčuška, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: ULCHBKB/CB-GM/18	**Course name:** Clinical Biochemistry

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

Number of ECTS credits: 2

Recommended semester/trimester of the course: 9.

Course level: I.II.

Prerequisities: ULCHBKB/MBCH-GM2/20 and UPF/PP-GM2/16

Conditions for course completion:
lectures, seminars; more details: https://www.upjs.sk/lekarska-fakulta/en/department/medical-and-clinical-biochemistry/education/subjects/general-medicine/

Learning outcomes:
The graduates should understand and be able to explain the principal pathobiochemical mechanisms of selected diseases, understand the relationships between metabolism and the results of laboratory tests and be familiar with routine clinical-biochemical tests. The students will learn on typical case reports, respectively the results of tests of model patients, how to select appropriate laboratory tests and use clinical-biochemical diagnostic algorithms. Correct and targeted indication of laboratory tests related to the expected diagnosis and proper interpretation of test results is an important part of the daily work of a physician.

Brief outline of the course:
Introduction to clinical biochemistry. Water and mineral homeostasis (e.g. regulation of osmolality). Acid-base balance disorders. Renal function. Liver function. Biochemistry background of diabetes mellitus. Cardiac markers. Calcium-phosphate and magnesium balance. Biochemical tests in endocrinology. Laboratory markers of malignant diseases. Disorders of iron metabolism. Biochemistry of extreme age. More details.: https://www.upjs.sk/lekarska-fakulta/en/department/medical-and-clinical-biochemistry/education/subjects/general-medicine/

Recommended literature:
Ďurovcová E. et al.: Lectures, 2020; https://portal.lf.upjs.sk/articles.php?aid=145
Ďurovcová E. a Mareková M.: Clinical Biochemistry - selected chapters; 2021 https://portal.lf.upjs.sk/articles.php?aid=114
Ďurovcová E. a Mareková M.: Clinical Biochemistry, 2013
Nessar A.: Clinical Biochemistry, 2nd edition, Oxford University Pres, 2016
Gaw A. et al.: Clinical Biochemistry, Elsevier, 2013

Course language:
english

Notes:

Course assessment
Total number of assessed students: 1891

abs	abs-A	abs-B	abs-C	abs-D	abs-E	neabs
21.21	11.58	17.4	19.67	15.97	13.11	1.06

Provides: MUDr. Eva Ďurovcová, PhD., prof. Ing. Mária Mareková, CSc.

Date of last modification: 17.02.2023

Approved: prof. MUDr. Peter Jarčuška, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Medicine	
Course ID: ULBF/ CBf-GM/09	**Course name:** Clinical Biophysics

Course type, scope and the method:
Course type: Lecture / Practice
Recommended course-load (hours):
Per week: 0 / 1 **Per study period:** 0 / 14
Course method: present

Number of ECTS credits: 2

Recommended semester/trimester of the course: 9.

Course level: I.II.

Prerequisities: ULBF/MBF-GM/22

Conditions for course completion:
Presence at practical lessons, the student may have maximum three absences. Compensations are mandatory. Final exam - at least 60% form written test. The minimum number of students is 5 students.

Learning outcomes:
Clinical biophysics comprises the scientific and technological basis of clinical technigues and procedures that are based on physics. Most direct diagnostic tests and many of the therapeutic procedures use the efffects of physical forces, ionizing and non-ionizing radiation on human body. Clinical biophysics implies that an understanding of the function, as wellas an appreciation of the scope and limitations of the equipment used in diagnosis or therapy, are absolutely necessary for good medical practise.

Brief outline of the course:
Lasers in medicine, Physical basics of lasers, types of lasers used in medicine, safety aspects of the use lasers, Clinical application of lasers in ophthalmology, diabetic retinopathy - panretinal photocoagulation, glaucoma – iridotomy, capsulotomy, correction of refractive properties of the eye, laser surgery observation,
Physiotherapy in rehabilitation, Physical and biophysical basics of galvanic current, diathermy and diadynamic current, magnetotherapy and ultrasound in physiotherapy of vertebral diseases, Observation of practical application of physiotherapy,
Nuclear magnetic resonance tomography, Physical basics of nuclear magnetic resonance, magnetic properties of nuclei, larmor equation, resonance and relaxation, relaxation times, Basic principles of imaging, spatial encoding of signal, possible hazards of NMR imaging, Clinical application of magnetic resonance (MR), equipment in local hospital, modelling of the examination of patient, images of tissues with disorders, advantages and disadvantages MR compared to CT, Observation of the examination of patient.

Recommended literature:
Fundamentals of Biophysics and Medical Technology, I. Hrazdira, V. Mornstein et al., Masaryk University, Faculty of Medicine, 2nd revised edition, Brno 2012
Clinical MR Imaging, A Practical Approach, P. Reimer, P.M. Parizel, J.F.M. Meaney, F. A. Stichnoth (Eds.), 3rd Edition, Springer-Verlag Berlin Heidelberg 2010

Clinical Rehabilitation, Pavel Kolář et al., Praha, 2013

Course language:
English language

Notes:

Course assessment
Total number of assessed students: 0

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

Provides: RNDr. Imrich Géci, PhD.

Date of last modification: 24.03.2023

Approved: prof. MUDr. Peter Jarčuška, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: ULM/ CI-GM/09	**Course name:** Clinical Immunology

Course type, scope and the method:
Course type: Lecture / Practice
Recommended course-load (hours):
Per week: 0 / 1 **Per study period:** 0 / 14
Course method: present

Number of ECTS credits: 2

Recommended semester/trimester of the course: 9.

Course level: I.II.

Prerequisities: ULM/FI-GM/18 and UPF/PP-GM2/16

Conditions for course completion:
Successful completion of continuous control of study and final exam
Continuous assessment (test, individual work): elaboration of seminar work
Final assessment (exam): written and oral exam
Link to the Conditions of graduation on the website of the Department of Paediatrics and Adolescent Medicine
https://www.upjs.sk/lekarska-fakulta/klinika/deti-a-dorast/vyucba/predmety/dr/

Learning outcomes:
To provide students with basic knowledge and understanding of the use of knowledge of basic immunology in the medical and preventive care of patients with immunologically mediated diseases.
After completing the course, students will be able to use the acquired theoretical concepts, distinguish between basic theories and concepts that they use. Students will be able to evaluate and use the acquired knowledge in further study and at the same time will be able to apply the acquired theoretical knowledge in practice.

Brief outline of the course:
Beginning with the basic concepts: development of immune system, allergy and anaphylaxis, immunodeficiency, autoimmunity.
Detailing: characterization, clinical presentation, diagnosis and differential diagnosis of immune-based diseases.
Deals with indications, contraindications and side effects of immunomodulatory therapy.
The current timetable for a given semester is published on the website of the Department of Paediatrics and Adolescent Medicine.

Recommended literature:
Rich R. et al.: Clinical Immunology, Elsevier-Sauders, 2018
Bernstein J.: Primary and Secondary Immunodeficiency, Springer, 2021
Abul K. Abbas, Andrew H. Lichtman: Basic Immunology - Functions and Disorders of the Immune System Third Edition / Updated Edition, Elsevier – Saunders, 2010

Course language:

English language

Notes:
The course is provided only in the winter semester, if at least 3 students enroll in it.

Course assessment
Total number of assessed students: 114

A	B	C	D	E	FX
97.37	0.88	0.0	0.88	0.88	0.0

Provides: doc. MUDr. Veronika Vargová, PhD., MUDr. Tatiana Baltesová, PhD., doc. MUDr. Gabriel Koľvek, PhD., MUDr. Nicolas Kardos

Date of last modification: 23.03.2023

Approved: prof. MUDr. Peter Jarčuška, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: UFZ/ CPSM-GM/09	**Course name:** Clinical Physiology - Sleep Medicine

Course type, scope and the method:
Course type: Lecture / Practice
Recommended course-load (hours):
Per week: 0 / 1 **Per study period:** 0 / 14
Course method: present

Number of ECTS credits: 2

Recommended semester/trimester of the course: 9.

Course level: I.II.

Prerequisities: UFZ/Ph-GM2/14 and UPF/PP-GM2/16

Conditions for course completion:
Continuous assessment in the form of solving assigned tasks, 100% and active participation in lectures and practical lessons. Final evaluation in the form of a written exam, at least 60% success rate.

Learning outcomes:
Acquisition of basic knowledge about physiological and pathophysiological mechanisms of sleep and breathing during sleep, adaptive, regulatory and integration mechanisms of individual systems of the human body necessary for understanding the pathogenetic mechanisms of sleep disorders, their diagnosis and therapeutic interventions. A visit to the patient's all-night polysomnographic examination and a demonstration of a comprehensive evaluation of the examination records should enable the diagnosis of various sleep disorders and the consequent failure of individual vital functions of the organism.

Brief outline of the course:
· Sleep and its regulation: sleep neurogenesis, mammalian sleep, EEG findings (REM and NREM).
· Sleep disorders: Insomnia, hypersomnia, narcolepsy, circadian rhythms, parasomnias, restless legs syndrome.
· Genesis and changes in respiration and circulation in sleep: Chemical regulation, hypoxia, asphyxia, somato- and viscero-motor changes in sleep, unconsciousness, coma.
· Sleep-disordered breathing, epidemiology and pathogenesis: Obstructive, mixed and central apnea, central hypoventilation syndrome, SIDS.
· Diagnosis of sleep-disordered breathing: Snoring, OSA, MSA, CSA, cardiovascular, endocrine-metabolic and neuro-psychiatric consequences and treatment proposal for individual disorders.
· Visit to the Sleep Lab: Demonstration of polysomnographic recording, anamnesis, diagnosis and treatment (CPAP, Bi PAP, Auricular stimulation).
· Demonstration of a comprehensive evaluation of the anamnesis, PSG findings, treatment proposal: final protocol.

Recommended literature:
· Meir H. Kryger MD. FRCPC, Thomas Roth PhD, William C. Dement MD PhD: Principles and Practice of Sleep Medicine (Kryger'sSleepMedicine) 6th Edition, ISBN: 9780323242882, Elsevier 2017, p. 1784

· Continuous review of relevant articles and book literature

Course language:
english

Notes:

Course assessment
Total number of assessed students: 130

A	B	C	D	E	FX
30.0	36.92	20.0	6.15	3.08	3.85

Provides: prof. MUDr. Viliam Donič, CSc., prof. MUDr. Mária Pallayová, PhD., doc. MUDr. Roman Beňačka, CSc., doc. RNDr. Soňa Grešová, PhD., MUDr. Igor Peregrim, PhD.

Date of last modification: 10.03.2023

Approved: prof. MUDr. Peter Jarčuška, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: ULI/ CBm-GM/17	**Course name:** Computer Biometrics

Course type, scope and the method:
Course type: Lecture / Practice
Recommended course-load (hours):
Per week: 0 / 1 **Per study period:** 0 / 14
Course method: present

Number of ECTS credits: 2

Recommended semester/trimester of the course: 3.

Course level: I.II.

Prerequisities: ULI/MInf-GM/09

Conditions for course completion:
1. 100% and active attendance.
2. At least 60% of each test during the semester.
3. Elaboration of all assigned tasks.
4. Final exam.

Learning outcomes:
This subject provides students with the information necessary to understand the basic principles behind biometrics, as well as the background of identification and verification techniques. The basic performance measures of biometrics systems, their operation and requirements, including security issues, are explained. The related research design, data analysis and interpretation of results are also presented, allowing students to understand a wide range of important statistical analyses.

Brief outline of the course:
Basic terms. Meaning and the main aims of biometrics. General levels of identification. Biometric technologies principles. Biometric traits. Properties of ideal biometric characteristics (traits). History of biometrics systems. Performance Measures in Biometrics. Biometric system operation. Performance of biometric systems. Biometric systems and requirements. Biometric systems environments, design of biometric systems. Description of selected and commonly applied authentication methods used to identify persons. Biometric systems security and attacks. Data protection in information systems, rules of safe and confidential communication. Introduction into cryptography. Selected legal aspects of obtaining and processing of biometric related data.

Recommended literature:
1. Majerník J.: Computer Biometrics, Multimedia support in the education of clinical and health care disciplines :: Portal of Pavol Jozef Šafárik University in Košice Faculty of Medicine [online], Available from WWW: <https://portal.lf.upjs.sk/articles.php?aid=71>. ISSN 1337-7000.
2. Ashbourn J., Practical Biometrics – From Aspiration to Implementation, second edition, Springer, ISBN 978-1-4471-6716-7, 2015.
3. Jain A.K., Ross A.A., Nandakumar K., Introduction to Biometrics, Difficult concepts, Springer, ISBN 978-0-387-77325-4, 2011.
4. Fairhurst M., Biometrics: A Very Short Introduction, Oxford University Press, ISBN 978–0–19–880910–4, 2018.

5. Notes from exercises.
6. Manuals of software products used during exercises.

Course language:
english

Notes:

Course assessment
Total number of assessed students: 155

A	B	C	D	E	FX
33.55	33.55	20.65	1.94	5.81	4.52

Provides: doc. Ing. Jaroslav Majerník, PhD.

Date of last modification: 10.04.2025

Approved: prof. MUDr. Peter Jarčuška, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: KD/ CAD-GM/24	**Course name:** Corrective and Aestetic Dermatology

Course type, scope and the method:
Course type: Lecture / Practice
Recommended course-load (hours):
Per week: 0 / 2 **Per study period:** 0 / 28
Course method: present

Number of ECTS credits: 2

Recommended semester/trimester of the course: 7.

Course level: I.II.

Prerequisities: ULM/MB-GM1/09 and UP/PA-GM1/22 and UPF/PP-GM1/16

Conditions for course completion:
To participate at all of practical exercises. In the case of excused absence, student may substitute up to 2
exercises. To get at least 60 % in the final credit test.

Learning outcomes:
Graduates of the optional subject Corrective and aesthetic dermatology will acquire theoretical and practical knowledge in the field of using injection, chemical, physical and surgical methods
to correct signs of aging, in the treatment of selected skin conditions - scars, hyperhidrosis or hair diseases, benign and malignant skin tumors.

Brief outline of the course:
Facial anatomy, mechanisms and types of aging. Use of plasma therapy in trichology, aesthetic and regenerative medicine, mesotherapy.
Use of botulinum toxin in aesthetic medicine and dermatology. Characteristics and classification of fillers, their use.
Use of hyaluronic acid in aesthetic medicine, bioremodeling.
Chemical peeling (types, indications), thread lifting.
Options for scar correction, lipolysis and lipotransfer. Use of light in aesthetic medicine (low-level laser therapy, IPL, LED...)
Permanent epilation, hair transplant and scalp tattoo. Removal of skin bumps - cryotherapy, cauterization, excochleation.
Excision of pigment naevi and skin tumors (scalpel, punch biopsy).
Basics of oncodermatology - diff dg of skin tumors in the face area.
Varicose sclerotization

Recommended literature:
Baran r. et al. Textbook of Cosmetic Dermatology. 5th ed. CRC Press. , 2017
https://www.perlego.com/book/1573090/textbook-of-cosmetic-dermatology-pdf.
Baumann L. et al. Cosmetic Dermatology: Principles and Practice, 2e. The McGraw-Hill Companies, Inc 2009
Goldber D.J.: Laser Dermatology 2nd edition Springer-Verlag Berlin Heidelberg 2013

Course language:
English language

Notes:
Students are accepted for the subject according to the order of registration - a maximum of 15 students. After reaching the maximum number, other students must choose another subject.

Course assessment
Total number of assessed students: 12

abs	abs-A	abs-B	abs-C	abs-D	abs-E	neabs
0.0	50.0	33.33	8.33	0.0	0.0	8.33

Provides: doc. MUDr. Janette Baloghová, PhD., MUDr. Zuzana Baranová, PhD., MUDr. Zuzana Fedáková, MUDr. Vladimíra Nagyová, MUDr. Gabriela Takáčová, MBA

Date of last modification: 13.08.2024

Approved: prof. MUDr. Peter Jarčuška, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: SK/Ds-GM/12	**Course name:** Dentistry

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

Number of ECTS credits: 2

Recommended semester/trimester of the course: 7.

Course level: I.II.

Prerequisities: UP/PA-GM1/22 and UPF/PP-GM1/16 and ULM/MB-GM1/09

Conditions for course completion:
Completion of 100% participation in practical exercises and lectures. Continuous review with a record of assessment during clinical teaching. Passing a test from lectures with a minimum rating of 60%.
Final test with a grade of at least 60%.
The interim assessment for each subject will be registered in AIS. During the practical exercises, the student is evaluated by the teacher, each continuous evaluation is recorded in the AIS. The evaluation of the final test for the lectures will be recorded in AIS. The minimum threshold for meeting the conditions for passing the test for lectures is 60%.
The minimum threshold to meet the conditions for passing the subject is 60%.

Learning outcomes:
Point out the relationship between oral health and the overall health of the patient. To clarify the importance of oral organisms and their influence on focal infection of dentogenic origin.

Brief outline of the course:
Examination of the oral cavity, hygiene of the oral cavity, cariology, diseases of the dental pulp, periodontal diseases. Negative effect of untreated diseases of hard dental tissues, pulp and periodontium on the overall health of the patient. Surgical procedures in oral cavity, possibilities of local anesthesia, indications, contraindications and side effect of local anesthesia. Peculiarities in the treatment of children and elderly patients. Orthodontic treatment. The manifestation of various systemic diseases in oral cavity. Odontogenic infections, their symptoms, treatment and complications. Orofacial oncology. Salivary gland diseases. The cooperation between dentists and other medical specializations. Preventive dentistry.

Recommended literature:
Dostálová T., Seydlová M.: Dentistry and Oral Diseases, Grada, 2010
Kotsanos N., Sarnat H., Park K.: Pediatric Dentistry, Springer, 2022
Mehra P., D´Innocenzo R.: Manual of Minor Surgery for the General Dentists, WILLEY Blackwell, 2015
Professional, scientific and domestic foreign magazines and books.

Course language:

English

Notes:

Course assessment
Total number of assessed students: 2118

A	B	C	D	E	FX
22.52	19.78	21.1	16.1	16.71	3.78

Provides: MDDr. Marcel Riznič, PhD., MUDr. Andrej Jenča, PhD., MBA, MDDr. MUDr. Beáta Bolerázska, PhD., MDDr. Zuzana Kotuličová, MDDr. Karolina Kamila Glińska, MUDr. Peter Kizek, PhD., MHA, MPH, MDDr. René Koudelka, MDDr. Filip Lukáč, MDDr. Andrea Sinčák Konečná, PhD., MDDr. Lenka Soták Benedeková, MDDr. Dominika Ivančáková

Date of last modification: 20.03.2023

Approved: prof. MUDr. Peter Jarčuška, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Medicine	
Course ID: KD/D-GM/22	**Course name:** Dermatovenerology

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

Number of ECTS credits: 5

Recommended semester/trimester of the course: 7.

Course level: I.II.

Prerequisities: ULM/MB-GM1/09 and UP/PA-GM1/22 and UPF/PP-GM1/16

Conditions for course completion:
To participate at all of practical exercises. In the case of excused absence practice, student may substitute up to 3 exercise. To get at least 60 % of total score for ongoing review of the theoretical training to practical exercises. Compulsory attendance in at least 7 lectures requirements

Learning outcomes:
To familiarize the students with the field of dermatology through an overview of types of disorders, differential diagnosis of skin diseases, procedures, and treatment methods common in dermatology. Students have to be certain of history taking and should develop a basic dermatologic vocabulary that enables them to appropriately describe skin lesions. The students should be familiar with the epidemiology of sexually transmitted diseases, their clinical manifestations, modes of transmission, diagnostic methods and their appropriate treatment.

Brief outline of the course:
General dermatology, Dermatological terminology and morphology. Skin infections (viral, bacterial, mycotic, parasitic). Erythematosquamous disseases. Psoriasis. Lichen planus. Endogenous and exogenous eczemas. Atopic dermatitis. Drug eruptions, urticaria, allergic reactions. Facial dermatoses. Bullous dermatoses. Autoimmune connective tissue diseases. Hair and nail disorders. Chronic venous insufficiency. Differential diagnosis of leg ulcers. Pediatric dermatovenerology. Skin tumours. Malignant melanoma. Syphilis. STD´s.

Recommended literature:
Braun-Falco, Plewig,Wolff, Winkelmann: Dermatology. Springer-Verlag, Berlin Heidelberg, 3rd, 2000.
Richard P.,J.B.Weller, John A.A., Hunter, John A.Savin and Mark V.Dahl. Clinical Dermatology. ©2008 R.Weller, J.Hunter, J.Savin, M.Dahl. 2008
Wolfram Sterry, Ralf Paus, Walter Burgdorf: Dermatology. Thieme clinical companions 2010
Švecová, D. and Danilla, T. :Textbook of Dermatology. 3rd rev. ed. Bratislava: Comenius University, 2017.384 p. ISBN 978-80-223-4277-3 2017
Baloghová, J.: General Dermatovenerology: a Practical Guide for Medical Students. 1.vyd.- Košice: Vydavateľstvo Šafárik Press UPJŠ – 99p. 2019
James G. H. Dinulos, Habif's: Clinical Dermatology, 7th Edition. A Color Guide to Diagnosis and Therapy. Elsevier. 2021

Course language:
English language

Notes:

Course assessment
Total number of assessed students: 2119

A	B	C	D	E	FX
27.18	19.16	19.87	14.77	15.29	3.73

Provides: doc. MUDr. Janette Baloghová, PhD., MUDr. Zuzana Baranová, PhD., MUDr. Gabriela Takáčová, MBA, MUDr. Zuzana Fedáková, MUDr. Zuzana Hudáková, MUDr. Viktória Palovčíková

Date of last modification: 17.05.2022

Approved: prof. MUDr. Peter Jarčuška, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: IK/ DMC-GM/22	**Course name:** Diagnostic Methods in Cardiology

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

Number of ECTS credits: 2

Recommended semester/trimester of the course: 8.

Course level: I.II.

Prerequisities: IK/IP-GM/15

Conditions for course completion:
The criterion for succesful completion of the course is active participation in lectures, practicals and elaboration of assigned tasks.

Learning outcomes:
Students will gain new knowledge in the field of examination methods in cardiology.
They will learn the basics of diagnosis of ischemic heart disease, heart failure, valve defects, heart rhythm disorders and consciousness disorders.

Brief outline of the course:
Electrocardiography
Holter ECG
Stress ergometry
Echocardiography
Head up tilt test
CT coronarography
Selective coronarography
Electrophysiology Procedure

Recommended literature:
Electrocardiogram in Clinical Medicine, John Wiley & Sons, 2020
Feather A, Randall D, Waterhouse M. Kumar & Clark's Clinical Medicine, Elsevier Science, 2020

Course language:
english

Notes:

Course assessment
Total number of assessed students: 34

abs	abs-A	abs-B	abs-C	abs-D	abs-E	neabs
0.0	100.0	0.0	0.0	0.0	0.0	0.0

Provides: MUDr. Mikuláš Huňavý, PhD., MUDr. Marta Jakubová, PhD., MUDr. Dominik Pella, PhD., prof. MUDr. Daniel Pella, PhD., doc. MUDr. Martin Studenčan, PhD., MHA, MUDr. Miloš Šimurda, PhD.
Date of last modification: 06.04.2022
Approved: prof. MUDr. Peter Jarčuška, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: Dek. LF UPJŠ/DTD-GM/24	**Course name:** Diploma Thesis and Diploma Thesis Defence

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

Number of ECTS credits: 8

Recommended semester/trimester of the course: 11., 12..

Course level: I.II.

Prerequisities: Dek. LF UPJŠ/SDT-GM1/22 and Dek. LF UPJŠ/SDT-GM2/22

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

Learning outcomes:
With the diploma thesis the student demonstrates mastery of extended theory and professional terminology of the field of study, acquisition of knowledge, skills and competences in accordance with the declared profile of the graduate of the study program, as well as the ability to apply them in an original way in solving a selected problem of the field of study. The student demonstrates the ability of independent professional work in terms of content, form and ethics. Further details of the diploma thesis are determined by Directive no. 1/2011 on the basic requirements of final theses and the Study Rules of Procedure of UPJŠ FM in Košice.

Brief outline of the course:

Recommended literature:

Course language:
English

Notes:

Course assessment
Total number of assessed students: 1606

A	B	C	D	E	FX
53.05	26.4	13.14	4.3	2.99	0.12

Provides:

Date of last modification: 01.06.2024

Approved: prof. MUDr. Peter Jarčuška, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Medicine	
Course ID: IK/ DTP-GM/21	**Course name:** Donation and Transplantation Programme
Course type, scope and the method: **Course type:** Lecture / Practice **Recommended course-load (hours):** **Per week:** 2 / 0 **Per study period:** 28 / 0 **Course method:** present	
Number of ECTS credits: 2	
Recommended semester/trimester of the course: 10.	
Course level: I.II.	
Prerequisities:	
Conditions for course completion: To graduate successfully and to get credits from the subject it is necessary to: - to participate in lectures - to get through the final written test and to obtain at least 60% of the total score of the final written test	
Learning outcomes: Getting to know basic principles of organ donor and transplantation programme.	
Brief outline of the course: basic information about donation and transplantation programme, history of transplantations, ethical issues, legislative issues, potential organ donor, organ donor, brain death diagnosis, organ donor – clinical management, organ retrieval, indications for the kidney transplantation, types of kidney transplantation, waiting list for the transplantation, organ allocation principles, clinical management post KTx, immunosuppression post KTx, posttransplant complications (non-immunological), outcomes of transplantations, transplantation of other organs, tissue transplantations, regenerative medicine, cell therapies, personalized therapies, future of transplantations	
Recommended literature: Guide to the quality and safety of organs for transplantation, European Committee on Organ Transplantation (CD-P-TO), EDQM 7th Edition, 2018	
Course language: English language	
Notes: The course Donation and Transplantation Programme is provided only in the summer term. The minimum number of registered students is 3 and more.	

Course assessment
Total number of assessed students: 30

abs	abs-A	abs-B	abs-C	abs-D	abs-E	neabs
0.0	56.67	16.67	0.0	3.33	20.0	3.33

Provides:

Date of last modification: 19.05.2022

Approved: prof. MUDr. Peter Jarčuška, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: CJP/LFKZAL1/16	**Course name:** English Language Communication Skills for Medical Practice 1

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

Number of ECTS credits: 2

Recommended semester/trimester of the course: 7.

Course level: I.II.

Prerequisities: CJP/LFAJV/09

Conditions for course completion:

Learning outcomes:

Brief outline of the course:

Recommended literature:

Course language:

Notes:

Course assessment
Total number of assessed students: 0

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

Provides: Mgr. Viktória Mária Slovenská

Date of last modification: 11.03.2022

Approved: prof. MUDr. Peter Jarčuška, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: UE/E-GM/22	**Course name:** Epidemiology

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

Number of ECTS credits: 3

Recommended semester/trimester of the course: 7.

Course level: I.II.

Prerequisities: ULM/MB-GM2/14 and UPF/PP-GM1/16

Conditions for course completion:
Active participation in lectures and seminars.
Elaboration of a seminar paper.
Exam - written test.

Learning outcomes:
Student of the subject will receive the basic knowledge about occurrence and distribution of infectious diseases and chronic diseases with outbreaks in a population, about fundamental factors influencing their occurrence, about preventive and repressive measures against their spread and to improve the health status of the population.

Brief outline of the course:
Epidemiology, its social significance. Basic epidemiological methods, causality. Descriptive method, analytical method, an experiment in epidemiology, and surveillance. Sources of infection in the light of the evolution of parasitic properties of microorganisms, forms of sources, their characteristics, significance, and epidemiological measures. Transmission mechanism, its phases, and forms. Classification of infectious diseases, basic groups, intestinal, respiratory, blood, skin and superficial mucous membranes, zoonoses, nosocomial infections, and their general characteristics. Epidemic process, its basic conditions, and characteristics. Importance of natural and social factors. Principles of infectious diseases control - Specific prophylaxis. Passive and active immunization. Decontamination: disinfection, sterilization, disinsection, deratization. Information systems.

Recommended literature:
Bakoss et al. Compendium of Epidemiology. Comenius University: Bratislava, 1999
Epidemiology and Prevention of Vaccine-Preventable Diseases. 12th Edition. CDC: Atlanta, 2011
Rothamn KJ.: Epidemiology. An Introduction. Oxford University Press, 2002.
Glossary of Epidemiology Terms. CDC: Atlanta, 2012

Course language:
english

Notes:

Course assessment
Total number of assessed students: 1588

A	B	C	D	E	FX
9.19	25.76	32.75	22.29	9.51	0.5

Provides: prof. MVDr. Monika Halánová, PhD., MUDr. Ingrid Babinská, PhD., MPH, Mgr. Daniela Fiľakovská, PhD., MVDr. Veronika Bednárová, PhD., MVDr. Elena Hatalová, PhD., doc. MUDr. Ingrid Urbančíková, PhD., MPH

Date of last modification: 28.02.2023

Approved: prof. MUDr. Peter Jarčuška, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: ULI/ MZND-GM/12	**Course name:** Evidence Based Medicine

Course type, scope and the method:
Course type: Lecture / Practice
Recommended course-load (hours):
Per week: 0 / 1 **Per study period:** 0 / 14
Course method: present

Number of ECTS credits: 2

Recommended semester/trimester of the course: 6., 8., 10.

Course level: I.II.

Prerequisities: ULI/MInf-GM/09

Conditions for course completion:
1. 100% and active attendance.
2. Min. 60% from each test during the term.
3. Elaboration of all assigned tasks.

Learning outcomes:
Understand basic principles of Evidence based Medicine (EBM). The students will get skills to obtain information about clinical scientific outputs; they will know how to critically evaluate clinical information as well as they will know to present benefits for clinical praxis. Basics of scientific work related to the medicine will be also explained.

Brief outline of the course:
The history, the development and the recent state on Evidence Based Medicine. Characteristics of clinical trials. Formulation of clinical questions. Specialized information resources for evidence based medicine. Methodology of clinical information searching. Qualitative evaluation of clinical studies and reviews. Presentation of practical works.

Recommended literature:
1. Heneghan C., Badenoch D.: Evidence-based Medicine Toolkit, BMJ Books, Blackwel Publishing, 2006, ISBN 978-0-7279-1841-3.
2. Majerník J., Švída M., Majerníková Ž.: Medicínska informatika, UPJŠ, Košice 2010, Equilibria, ISBN 978-80-7097-811-5.
3. Notes from exercises.

Course language:
english

Notes:

Course assessment
Total number of assessed students: 99

abs	abs-A	abs-B	abs-C	abs-D	abs-E	neabs
25.25	29.29	13.13	3.03	0.0	0.0	29.29

Provides: doc. Ing. Jaroslav Majerník, PhD.
Date of last modification: 25.03.2023
Approved: prof. MUDr. Peter Jarčuška, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: 1. KAIM/FAID-GM/09	**Course name:** First Aid

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

Number of ECTS credits: 2

Recommended semester/trimester of the course: 1.

Course level: I.II.

Prerequisities:

Conditions for course completion:
1. Pass all excercises - 100% participation in exercises
2. Final test - min. 60% criteria

Learning outcomes:
Acquisition of practical skills by students so that they are able to provide first aid before the arrival of the rescue service.

Brief outline of the course:
Emergency Rescue and Transfer – Removal from Automobile. Basic Resuscitation Steps: Respiratory Emergencies, Airway Obstructions, Cardiopulmonary Resuscitation - Basic life support. Unconscious Victim. Wounds – Definition, Causes, First Aid for Open Wounds. Heat Stroke. Burns – First Aid

Recommended literature:
First Aid Manual (Dk First Aid) John Ambulance (Author), 10th edition, 2014, ISBN: 978-1-4093-4200-7.
First Aid for Babies and Children by DK, DK (Author) , 5th edition, 2012, ISBN: 978-1409379126.
www.erc.com

Course language:
English language

Notes:

Course assessment
Total number of assessed students: 4611

abs	abs-A	abs-B	abs-C	abs-D	abs-E	neabs
30.73	15.7	15.46	11.78	7.89	15.68	2.75

Provides: MUDr. Judita Capková, PhD., MUDr. Vladimír Hudák, PhD., MUDr. Štefan Ivanecký, prof. MUDr. Radoslav Morochovič, PhD., MUDr. Adam Fabian, MUDr. Roman Kyseľ, MUDr. Miroslav Sučko, MUDr. Jana Šimonová, PhD., MPH

Date of last modification: 23.03.2023
Approved: prof. MUDr. Peter Jarčuška, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Medicine	
Course ID: USL/ FC-GM/24	**Course name:** Forensic Criminalistics

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

Number of ECTS credits: 2

Recommended semester/trimester of the course: 8., 10.

Course level: I.II.

Prerequisities: 1. PK/PMC-GM/22

Conditions for course completion:
Attendance on lectures and seminars to the specified extent, successful presentation of seminar work. Detailed conditions for mandatory participation and forms of evaluation are available on the department's website.
https://www.upjs.sk/en/faculty-of-medicine/department/forensic-medicine/teaching/courses/dr/

Learning outcomes:
Criminalistics is one of the important components of medical and legal science that provides knowledge and skill for analysis and assessment of criminal offenses – from committing a crime to punishing the offender. The teaching of the subject Forensic Criminalistics is focused on selected procedures and methods of forensic investigation, which are in many aspects built on the basic knowledge of the human body and chemical processes associated with the study of general medicine. The course also offers a demonstration and analysis of real criminal cases, which can be an interesting addition to content of studies not only for the future forensic doctors.

Brief outline of the course:
Introduction to forensic sciences. Areas of forensic science. History of forensic sciences. Forensic science organization in Slovakia. Expert activities. Process of investigation (STAIR tool). Crime scene investigation. Types of evidence. Collection of evidence at the crime scene. Bloodstain patterns. Forensic identification. Techniques and procedures in postmortem identification. Dactyloscopy. Portrait identification. Forensic odorology. Forensic biology and genetics. Forensic anthropology. Trasology. Firearms and toolmarks. Criminalistic tactics. Interviewing, questioning, and interrogation. Forensic psychology. Sanity evaluations and criminal responsibility. Criminology. Different schools of criminology. Areas of focus of criminologist. Victimology. Famous murder cases that took place in Slovakia.

Recommended literature:
JAMES, S. H., J. J. NORDBY, and S. BELL. Forensic Science: An Introduction to Scientific and Investigative Techniques. 4th ed. New York: CRC Press, 2014.
ERZINCLIOGLU, Z. The Illustrated Guide to Forensics: True Crime Scene Investigations. London: Carlton Book Ltd., 2004.
REDDY, K. S. N. and MURTY, O. P. The Essentials of Forensic Medicine and Toxicology. 33rd edition. New Delhi: Jaypee Brothers Medical Publishers Ltd., 2014.

KARCH, S. B. Postmortem Toxicology of Abused Drugs. New York: CRC Press, 2008.
MOREWITZ, S. J., GOLDSTEIN, M. L. Handbook of Forensic Sociology and Psychology. New York: Springer, 2014.
SIEGEL, L. J. Criminology: Theories, Patterns and Typologies. 13th ed. Boston: Cengage Learning, 2016.

Course language:
English

Notes:
Maximum class size is 20 students.

Course assessment
Total number of assessed students: 160

abs	abs-A	abs-B	abs-C	abs-D	abs-E	neabs
15.0	70.0	0.0	0.0	0.0	0.0	15.0

Provides: doc. MUDr. Silvia Farkašová Iannaccone, PhD., MUDr. Ingrid Nerantzakis, MUDr. Dorota Sopková, PhD., MBA, MUDr. Viktória Briškárová

Date of last modification: 01.06.2024

Approved: prof. MUDr. Peter Jarčuška, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: USL/ FMML-GM/22	**Course name:** Forensic Medicine and Medical Law

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

Number of ECTS credits: 3

Recommended semester/trimester of the course: 10.

Course level: I.II.

Prerequisities: ChK/S-GM3/17 and IK/IM-GM3/22 and NLK/NL-GM2/22

Conditions for course completion:
Attendance on lectures and seminars to the specified extent, successful completion of a credit test and oral exam. Detailed conditions for mandatory participation and forms of evaluation are available on the department's website.
https://www.upjs.sk/en/faculty-of-medicine/department/forensic-medicine/teaching/courses/dr/

Learning outcomes:
The aim of the subject is to acquaint students with the role of Forensic Medicine, as one of the main branches of medicine. The students will learn how to identify and assess the effects of violence on the human body, determine the cause of death in cases of non-violent and violent death, as well as apply medical knowledge to questions of civil and criminal law. Emphasis is placed on acquiring the basic knowledge necessary to perform an examination of the dead body at the scene of death, as a knowledge required of every future doctor.

Brief outline of the course:
Introduction to the forensic medicine. Role of forensic medicine in Slovakia and worldwide. Concept of forensic medicine in Slovakia. Health Care Surveillance Authority. Examination of the dead body at the scene of death. Coroner system and medical examiner system. Medical examination of the dead in Slovakia. Types of autopsies. Autopsy procedure. Neonatal autopsy. Documentation required for the autopsy. Autopsy diagnosis. Autopsy report. Medicolegal death investigation. Postmortem changes. Supravital and vital reactions. Identification of the living and the dead. Forensic dentistry. Identity of decomposed or skeletalised remains. Identification in mass disasters. Exhumation. Natural (non-violent) death in adults. Natural (non-violent) death in children. Sudden infant death syndrome. Violent death in children. Child abuse and neglect. Pregnancy and childbirth. Sexual offenses. Violent death. Mechanical injuries. Examination of wounds. Blunt and sharp force injuries. Firearm and blast injuries. Forensic investigation of traffic accidents. Suffocation. Mechanical asphyxia. Drowning. Thermal injuries. Electrical injuries. Diving accidents (barotrauma, decompression sickness). High altitude illness. Ionizing radiation injury and illness. Medical errors. Iatrogenic damage. Expert activity in medical profession. Forensic expert activity. Forensic medical examination of the living persons. Forensic toxicology. General aspects of poisoning. Types of poisons. Forensic diagnosis of poisoning. Methods in forensic toxicology. Gaseous poisons. Agrochemical poisons. Corrosive poisons. Heavy metals.

Mushroom poisoning. Forensic toxicology. Alcohols. Medicolegal aspects of ethanol intoxication. Methanol poisoning. Ethylene glycol poisoning. Drugs of abuse and dependence. Forensic histopathology. Immunohistochemistry.

Recommended literature:

REDDY, K. S. N., and O. P. MURTY. The Essentials of Forensic Medicine and Toxicology. 33rd edition. New Delhi: Jaypee Brothers Medical Publishers Ltd., 2014.
DIMAIO, V. J., and D. DIMAIO. Forensic Pathology. 2nd edition. Boca Raton: CRC Press, 2001.
PAYNE-JAMES, J., JONES, R., KARCH, S. B. and MANLOVE, J. Simpson's Forensic Medicine. 13th edition, London: Hodder Arnold, 2011.
BURTON, J., S. SAUNDERS, and S. HAMILTON. Atlas of Adult Autopsy Pathology. Boca Raton: CRC Press, 2015.
LONGAUER, F., N. BOBROV, and P. LÁBAJ. Practising in Forensic Medicine. Košice: UPJŠ, 2000.

Course language:
English

Notes:

Course assessment
Total number of assessed students: 1798

A	B	C	D	E	FX
65.96	16.96	10.34	4.17	2.11	0.44

Provides: doc. MUDr. Silvia Farkašová Iannaccone, PhD., MUDr. Dorota Sopková, PhD., MBA, MUDr. Ingrid Nerantzakis, MUDr. Viktória Briškárová

Date of last modification: 22.03.2022

Approved: prof. MUDr. Peter Jarčuška, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Medicine	
Course ID: Dek. LF UPJŠ/FMF/24	**Course name:** Foundation of Mindfulness

Course type, scope and the method:
Course type: Lecture / Practice
Recommended course-load (hours):
Per week: 0 / 2 **Per study period:** 0 / 28
Course method: present

Number of ECTS credits: 2

Recommended semester/trimester of the course: 2., 4., 6., 8., 10.

Course level: I.II.

Prerequisities:

Conditions for course completion:
Thought exercises – students will complete a thought exercise assignment. These exercises will ask students to reflect upon their own practice (20 points).
Daily practices and mindfulness journals – students will commit to completing daily mindfulness exercises designed to cultivate and strengthen greater mindfulness practice.
Daily brief reflections (1-2 paragraphs) in their mindfulness journals will chronicle insights.
At least five entries per week required for full credit (70 points).
Assessments - both at the beginning and end of the course, students will take the Mindfulness Attention Awareness Scale (MAAS), a self-administered and scientifically validated tool, to quantifiably measure any changes in perceived level of mindfulness.
Scores are not recorded for grading purposes; students receive points for completion (10 points).
Evaluation according to the current study rules and regulations.

Learning outcomes:
At the completion of this course, students will be able to:
1. Define the history and philosophical basics of spiritual and secular mindfulness practice.
2. Recognize how theory and research support the benefits of mindfulness practice.
3. Describe the practices and benefits of mindfulness practice.
4. Apply an informed mindfulness practice of their own.
5. Describe how mindfulness training can help them in their own lives and careers.
6. Identify the connections between mindfulness, stress, resilience, connection, and sense of belonging.

Brief outline of the course:
Definition of Mindfulness
Practicing Mindfulness
Attending to the Present
Acceptance
Mindfulness and the Self

Recommended literature:

Harris, Dan. 10% Happier: How I Tamed the Voice In My Head, Reduced Stress Without Losing My Edge, and Found Self-Help That Actually Works—A True Story. Harper Collins: New York. 2014
Kabat-Zinn J. Full Catastrophe Living: Using the Wisdom of Your Body and Mind to Face Stress, Pain, and Illness. Bantam Books: New York. 2013
Kabat-Zinn J. Wherever You Go, There You Are: Mindfulness Meditation. Hyperion Books: New York. 1994
Salzberg S. Real Happiness: The Power of Meditation—A 28-Day Program. Workman Publishing: New York. 2011.
Sapolsky R. Why Zebras Don’t Get Ulcers: The Acclaimed Guide to Stress, Stress-Related Diseases, and Coping, 3rd Ed. St. Martin’s Griffin: New York. 2004.

Course language:
English

Notes:

Course assessment
Total number of assessed students: 0

abs	abs-A	abs-B	abs-C	abs-D	abs-E	neabs
0.0	0.0	0.0	0.0	0.0	0.0	0.0

Provides:

Date of last modification: 09.04.2024

Approved: prof. MUDr. Peter Jarčuška, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Medicine	
Course ID: 1. IK/ FNCD-GM/16	**Course name:** Fundamentals in Nutrition and Clinical Dietology

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

Number of ECTS credits: 2

Recommended semester/trimester of the course: 10.

Course level: I.II.

Prerequisities: IK/IM-GM3/22

Conditions for course completion:
1. For successful completion of the practical exercises/seminars is required:
- To participate at all of practical exercises, theoretical and practical performance of all exercises/seminars.
- To get at least 60 % of total score for ongoing review of written test or the theoretical training to practical exercises.
- Two absences are allowed /justified/
2. For successful obtained of the credits from subject is necessary:
- To gain the credit from practical exercises (paragraph 1 above).
- Evaluation: Study rules of procedure UPJŠ in Košice, the Faculty of Medicine, Par II, Art13
- The final classification includes the evaluation of the written test and the results obtained in practical exercises

Learning outcomes:
Point out the importance of proper nutrition in the prevention and treatment of various diseases.

Brief outline of the course:
Characteristics of individual nutrients.The importance of diet in the development of lifestyle diseases.Principles of diet in lipid disorders, obesity and diabetes type 2 patients
Obesity, clinical dietology guide, cardiovascular protection diet.Enteral and Parenteral Nutrition
Water and electrolytes (sodium, potassium, chloride).Protein, carbohydrate, fat, fiber intake
Vitamin, mineral, trace element, antioxidant, electrolyte intake.Function of the gastrointestinal (GI) tract.Hormonal control of nutrient metabolism.Nutrition and immunity
Characteristics of an adequate diet, Veganism/vegetarianism.Diarrhea, water, electrolytes, acid-base balance.Chronic diseases (cancer, cardiovascular disease, hyperlipidemia, hypertension, osteoporosis.
Omega 3-PUFA a metabolic syndrome .Malnutrition .Weight loss diet plans and evidence based medicine .Principles of diet in lipid disorders, obesity and
diabetes type 2 patients.Probiotics .Obesity.Antioxidants , Protein (deficiency, metabolism,

bioavailability, food sources, requirements) .Dietary fiber, energy balance.Carbohydrates (food sources, requirements) .Physiology related to thirst, hunger, satiety.Nutrient intake recommendations .Nutritional anemias, Laboratory evaluation,
Growth.Sources, bioavailability, action, deficiency,
excess of micronutrients.

Recommended literature:

Catherine Hankey PhD RD, Kevin Whelan PhD RD FBDA : Advanced Nutrition and Dietetics in Obesity, Print ISBN:9780470670767
Online ISBN:9781118857991
DOI:10.1002/9781118857991© 2018 John Wiley & Sons Ltd.
Ronald Watson : Nutrition in the Prevention and Treatment of Abdominal Obesity 2nd EditioneBook ISBN: 9780128137819,Paperback ISBN: 9780128160930,Imprint: Academic Press,Published Date: 6th December 2018,Page Count: 522

Course language:

english

Notes:

The course Fundamentals in Nutrition and Clinical Dietology is provided only in the summer term.

Course assessment

Total number of assessed students: 98

abs	abs-A	abs-B	abs-C	abs-D	abs-E	neabs
34.69	62.24	1.02	0.0	0.0	0.0	2.04

Provides: doc. MUDr. Viola Vargová, PhD.

Date of last modification: 09.03.2023

Approved: prof. MUDr. Peter Jarčuška, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: UVZH/ FHRA-GM/15	**Course name:** Fundamentals of Health Risk Assesment

Course type, scope and the method:
Course type: Lecture / Practice
Recommended course-load (hours):
Per week: 2 / 0 **Per study period:** 28 / 0
Course method: present

Number of ECTS credits: 2

Recommended semester/trimester of the course: 9.

Course level: I.II.

Prerequisities:

Conditions for course completion:
Attendance on lectures, active participation and discussion.
Seminar - written essay on chosen topic, with presentation which will be evaluated by teacher.

Learning outcomes:
Student of the subject will receive the knowledge about elementary roles of risk assessment in environment and occupational conditions.

Brief outline of the course:
Risk assessment, risk evaluation, risk of exposure. The concept of concentration, dose, internal dose. The risk assessment is carried out in four basic steps: Identification of risk (hazard identification). Evaluation of the dose / concentration / level. Exposure - response / action on the body (evaluating the relationship dose - response). Risk management.
Exposure assessment. The principles of risk assessment in the field of environmental and working environment. Risk characterization, the effective dose – response, method HIA. Specific approaches to analyze the environmental risk for the individual components of environment. Factors of working environment, exposure monitoring, qualitative and quantitative assessment. Effects of chemicals, carcinogens, mutagens and teratogens. Stochastic and non - stochastic effects. NOEL, LOEL RFD. Factors of change, uncertainty factor, confounding factor. Risks of physical activity (one term excessive burden, JNDZ). Risk management and risk categorization.

Recommended literature:
1. RIMÁROVÁ, K.: Environmental medicine – hygiene. Košice, Univerzita Pavla Jozefa Šafárika v Košiciach, 2006. - 148 s. - ISBN 80-7097-646-2.
2. RIMÁROVÁ, K.: Compendium of Hygiene. Košice, Univerzita Pavla Jozefa Šafárika, 2014. - 210 s. - ISBN 9788081521676 (brož.).
3. KOLARZYK, E.: Selected topics on hygiene and human ecology. Edited by http://www.e-nujag.cm-uj.krakow.pl/materialy/higiena/main.pdf.
4. PAUSTENTBACH, D. J.: The Risk Assessment of Environmental and Human Health Hazards: Textbook of Case Studies, 1989, 220 s., ISBN. 978-0471849988.

Course language:
English

Notes:

Course assessment
Total number of assessed students: 85

A	B	C	D	E	FX
69.41	18.82	3.53	3.53	3.53	1.18

Provides: prof. MUDr. Kvetoslava Rimárová, CSc.

Date of last modification: 13.03.2023

Approved: prof. MUDr. Peter Jarčuška, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: KVL Šaca/GPM-GM/23	**Course name:** General Practice Medicine

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

Number of ECTS credits: 2

Recommended semester/trimester of the course: 10.

Course level: I.II.

Prerequisities: IK/IP-GM/15 and ChK/SP-GM/15

Conditions for course completion:
Lectures, Practice, Fellowhips, completion of the course

Learning outcomes:
Medical history: current condition, personal, family, work and medication history.
Physical examination (and rectal).
Preventive examination. Vaccination. Prescription of the drugs and medical devices.
Acute conditions.
Therapy.
Consultant examination. Auxiliary examination.
Hospitalization. Etics. Law. Documentation.

Brief outline of the course:
1. General medicine : definition, basic concepts
2. Work of general practitioner : medical and non- medical
3. Diagnosis and treatment : symptoms, syndrome, diagnosis, differential diagnosis , therapy
4. Work particularities of general practitioner : preventive exam, vaccination, prehospital care, medical service of first aid, visits, occupational health services, sickness absence
5. Acute conditions
6. The principles of communication with different groups
7. Medical files. Examination of the dead. Possession of weapons. Motor vehicles. Cooperation with police.
8. eHealth

Recommended literature:
TEXTBOOK OF FAMILY MEDICINE, NINTH EDITION
1. Drs. Robert E. Rakel and Dr. David P. Rakel, Elsevier - Health Sciences Division, Philadelphia, PA,
2015, ISBN: 9780323239905
OXFORD MEDICINE ONLINE
2. Chantal Simom, Hazel Everitt, Francoise van Dorp, and Matt Burkes, Oxford Handbook of General
Practice, Oxford Univerzity Press, 2014, ISBN: 9780199671038

TEXTBOOK OF FAMILY MEDICINE
3. Robert E. Rakel, David P. Rakel, Textbook of Family Medicine, 2011, ISBN 9781437711608

Course language:
English

Notes:

Course assessment
Total number of assessed students: 1918

abs	abs-A	abs-B	abs-C	abs-D	abs-E	neabs
21.01	76.12	1.72	0.26	0.16	0.63	0.1

Provides: MUDr. Matej Šajty, PhD., MPH, MUDr. Katarína Šajtyová, PhD., MPH, MUDr. Jana Annová, PhD., MUDr. Michal Fečík, prof. MUDr. PhDr. Peter Kalanin, PhD., MHA, MUDr. Beatrica Kováryová, MUDr. Drahomíra Balogová, MUDr. Ivana Nickel Bakalárová, MUDr. Lukáš Olšavský, MUDr. Réka Pulen

Date of last modification: 28.04.2023

Approved: prof. MUDr. Peter Jarčuška, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Medicine	
Course ID: G-PK/ GO-SS-GM/21	**Course name:** Gynaecology and Obstetrics
Course type, scope and the method: **Course type:** **Recommended course-load (hours):** **Per week: Per study period:** **Course method:** present	
Number of ECTS credits: 2	
Recommended semester/trimester of the course: 11., 12..	
Course level: I.II.	
Prerequisities: G-PK/GO-GM3/22 and UFR/PM-GM2/25	
Conditions for course completion: Obtaining at least 300 credits for compulsory and compulsory elective courses in the prescribed composition by the study plan for the 1st to 5th year of study + completion of the compulsory course Gynaecology and Obstetrics 3.	
Learning outcomes: Verify the student's acquired practical and theoretical knowledge and skills in the matter of the state examination.	
Brief outline of the course:	
Recommended literature: Study literature: Čech E., et al., Porodnictví, 1999 Citterbart, K., et al., Gynekologie, 2001 Martius G., et al., Gynekológia a pôrodníctvo, 1997 Ponťuch A., et al., Gynekológia a pôrodníctvo, 1989 Ponťuch A., et al., Gynekológia a pôrodníctvo, 1987 Poradovský K., et al., Gynekológia, zv. 1, 1982 Poradovský K., et al., Pôrodníctvo, zv. 2, 1982 Chamberlain G., et al., Illustrated textbook of obstetrics, 1991 Tindall V. R., et al., Illustrated textbook of gynaecology, 1991 Gabbe S. G., et al., Obstetrics, 1996 Varga J., et al., Praktikum z gynekológie a pôrodníctva, 2022	
Course language: English	
Notes:	

Course assessment
Total number of assessed students: 1565

A	B	C	D	E	FX
49.39	17.06	14.7	7.86	8.18	2.81

Provides:

Date of last modification: 13.05.2022

Approved: prof. MUDr. Peter Jarčuška, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: G-PK/ GO-GM1/09	**Course name:** Gynaecology and Obstetrics 1

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

Number of ECTS credits: 3

Recommended semester/trimester of the course: 9.

Course level: I.II.

Prerequisities: IK/IM-GM3/22

Conditions for course completion:
100 % presences on lectures, minimum 60 % of point in exam test

Learning outcomes:
Learning outcomes: Getting to knowledge the principal investigation in gynecology: digital assessment, assessment in specula, oncocytology and colposcopy. In Second goal student obtain knowledge in imaging ,methid as ultrasonography, CT and MRI. Student in this part of study obtain knowledge about principal surgical methods as: curettage, hysteroscopy, laparoscopy, surgical treatment of pelvic organe prolapse and urinary incointinence and basic in oncogynecology. In the same part will be presented diagnostic and terapeutic options in women infertility. Student will also obtain knowledge about diagnostic a terapeutic options of breast diseases. Inseparable part of study will be training skill in center of simulations and virtual medicine.

Brief outline of the course:
Brief outline of the course: Digital assessment, assessment in specula, oncocytology, colposcopy, USG, CT, MRI, menstrual disorders infertility, urogynecology, breast dissease, infertility, oncogynecology

Recommended literature:
Literatúra:
Ostró A., et al., Peripartální hemoragie 2, 2018
Ostró A., et al., Vybrané kapitoly z gynekológie detí a dospívajících, 2017
Ostró A., et al., Peripartální hemoragie, 2013
Toporcerová S., Základy reprodukčnej medicíny 2015
Urdzík P., Základy urogynekológie, 2011
Čech E., et al., Porodnictví, 1999
Citterbart, K., et al.,Gynekologie, 2001
Martius G., et al., Gynekológia a pôrodníctvo, 1997
Ponťuch A., et al., Gynekológia a pôrodníctvo, 1989
Ponťuch A., et al., Gynekológia a pôrodníctvo, 1987
Poradovský K., et al., Gynekológia, zv. 1, 1982
Poradovský K., et al., Pôrodníctvo, zv. 2, 1982
Chamberlain G., et al., Illustrated textbook of obstetrics, 1991

Tindall V. R., et al., Illustrated textbook of gynaecology, 1991
Gabbe S. G., et al., Obstetrics, 1996
Novak´s and Berek J., et al., Gynaecology, 1996

Course language:
english

Notes:

Course assessment
Total number of assessed students: 1992

abs	abs-A	abs-B	abs-C	abs-D	abs-E	neabs
20.28	14.16	16.47	19.88	17.27	11.7	0.25

Provides: prof. MUDr. Róbert Dankovčík, PhD., MPH, prof. MUDr. Alexander Ostró, CSc., MBA, doc. MUDr. Silvia Toporcerová, PhD., MBA, prof. MUDr. Peter Urdzík, PhD., MPH, doc. MUDr. Ján Varga, PhD., MHA, doc. MUDr. Erik Dosedla, Ph.D., MBA, MUDr. Katarína Balasičová, PhD., MUDr. Barbora Baranovičová, doc. MUDr. Rastislav Dudič, PhD., MHA, MUDr. Viera Dudičová, PhD., MUDr. Andrea Grendelová, PhD., MUDr. Vladimír Kraus, PhD., MUDr. Gabriel Lipčei, MUDr. Alena Nagyová, PhD., MUDr. Lule Tomiq, MUDr. Dávid Tóth, MUDr. Zuzana Ballová, MUDr. Michal Michna, MUDr. Martina Sitáš

Date of last modification: 13.05.2022

Approved: prof. MUDr. Peter Jarčuška, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: G-PK/ GO-GM2/09	**Course name:** Gynaecology and Obstetrics 2

Course type, scope and the method:
Course type: Lecture / Practice
Recommended course-load (hours):
Per week: 2 / 3 **Per study period:** 28 / 42
Course method: present

Number of ECTS credits: 4

Recommended semester/trimester of the course: 10.

Course level: I.II.

Prerequisities: G-PK/GO-GM1/09

Conditions for course completion:
- 100 % participation in practical lesson, signed in logbook
- 100% attendance of lectures
- obtain at least 60% from credit test (mark E)

Learning outcomes:
Aim of subject:
get to know basic knowledge about examination in obstetrics: digital assessment, pelvic leveles and obstetric hostory. Student obtain knowledge abou physioligal, pathological, vaginal instrumental delivery and ceasarean section. Stusdent also obtain knowledge about ultrasioography in obstetrics, prenatal screening methods and prenatal care. Student obtain knowledge about premature labour and newborn care. During bloks stuident will traine skill s on obstetrcina simulators.

Brief outline of the course:
Basic structure of subject:
basic examination methods in obsterics, process of physiocogical and pathological pregnancy, pshysiological and pathological bitrh

Recommended literature:
Chamberlain G., et al., Illustrated textbook of obstetrics, 1991
Tindall V. R., et al., Illustrated textbook of gynaecology, 1991
Gabbe S. G., et al., Obstetrics, 1996
Novak´s and Berek J., et al., Gynaecology, 1996

Course language:
English

Notes:

Course assessment
Total number of assessed students: 1788

abs	abs-A	abs-B	abs-C	abs-D	abs-E	neabs
22.26	14.71	21.03	19.18	15.27	7.49	0.06

Provides: prof. MUDr. Róbert Dankovčík, PhD., MPH, prof. MUDr. Alexander Ostró, CSc., MBA, doc. MUDr. Silvia Toporcerová, PhD., MBA, prof. MUDr. Peter Urdzík, PhD., MPH, doc. MUDr. Ján Varga, PhD., MHA, doc. MUDr. Erik Dosedla, Ph.D., MBA, MUDr. Katarína Balasičová, PhD., MUDr. Barbora Baranovičová, doc. MUDr. Rastislav Dudič, PhD., MHA, MUDr. Viera Dudičová, PhD., MUDr. Andrea Grendelová, PhD., MUDr. Vladimír Kraus, PhD., MUDr. Gabriel Lipčei, MUDr. Alena Nagyová, PhD., MUDr. Lule Tomiq, MUDr. Dávid Tóth, MUDr. Zuzana Ballová, MUDr. Michal Michna, MUDr. Martina Sitáš
Date of last modification: 13.05.2022
Approved: prof. MUDr. Peter Jarčuška, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Medicine	
Course ID: G-PK/ GO-GM3/22	**Course name:** Gynaecology and Obstetrics 3
Course type, scope and the method: **Course type:** Practice / Controlled study hour **Recommended course-load (hours):** **Per week: Per study period:** 160s / 60s **Course method:** present	
Number of ECTS credits: 9	
Recommended semester/trimester of the course: 11., 12..	
Course level: I.II.	
Prerequisities: G-PK/GO-GM2/09 and G-PK/CGO-GM/24	
Conditions for course completion: - 100 % participation in practical lectures, signed in logbook - obtain at least 60% from credit test (Mark E)	
Learning outcomes: aim of subject: basic structure: basic operative techniques in gynecology and obsterics, techniques in urogynecology and oncogynecology, prenatal diagnostic techniques (amniocentesis), techniques in minimal invasive surgery (hysterescopy, laparoscopy), process of physiological and pathological gravidity, psysiological birt, menstrual cycle disorders, infection in gynecology, benign and malignant tumors, inferility, urogynecology,and breast disease.	
Brief outline of the course: basic structure: basic operative techniques in gyn&obs specialiyed operative, techniques, prenatal diagnostic techniques (amniocentesis), techniques in minimal invasive surgery (hysterescopy, laparoskopy), process of physiological and pathological gravidity, psysiological birt, menstrual cycle disorders, infection in gynecology, benign and malignant tumors, sterility, urogynecology, breast disease	
Recommended literature: Obsterics and gyneacology Steven G. Gabbe Jeniffe R. Niebyl Joe Leih simpson ISBN 978-1-4377-1935-2 2012	
Course language: English	
Notes:	

Course assessment
Total number of assessed students: 1591

abs	abs-A	abs-B	abs-C	abs-D	abs-E	neabs
18.54	28.41	14.39	15.4	10.81	12.13	0.31

Provides: prof. MUDr. Róbert Dankovčík, PhD., MPH, doc. MUDr. Silvia Toporcerová, PhD., MBA, prof. MUDr. Peter Urdzík, PhD., MPH, doc. MUDr. Ján Varga, PhD., MHA, doc. MUDr. Erik Dosedla, Ph.D., MBA, MUDr. Katarína Balasičová, PhD., MUDr. Barbora Baranovičová, doc. MUDr. Rastislav Dudič, PhD., MHA, MUDr. Viera Dudičová, PhD., MUDr. Andrea Grendelová, PhD., MUDr. Vladimír Kraus, PhD., MUDr. Gabriel Lipčei, MUDr. Alena Nagyová, PhD., MUDr. Lule Tomiq, MUDr. Dávid Tóth, MUDr. Zuzana Ballová, MUDr. Michal Michna, MUDr. Martina Sitáš

Date of last modification: 13.05.2022

Approved: prof. MUDr. Peter Jarčuška, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: USL/ HDMP-GM/24	**Course name:** Health Damage in Medical Practice

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

Number of ECTS credits: 2

Recommended semester/trimester of the course: 8., 10.

Course level: I.II.

Prerequisities: ChK/SP-GM/15

Conditions for course completion:
Attendance on lectures and seminars to the specified extent, successful presentation of seminar work. Detailed conditions for mandatory participation and forms of evaluation are available on the department's website.
https://www.upjs.sk/en/faculty-of-medicine/department/forensic-medicine/teaching/courses/dr/

Learning outcomes:
The subject offers a comprehensive view on the various types and causes of health damage that every doctor might encounter during clinical practice. Unlike clinically oriented subjects that are focusing on pathological conditions in terms of their etiology, diagnosis and treatment, this elective course focuses rather on the assessment of specific health damage such as one resulting from a criminal offence, accident or medical malpractice. Topics regarding epidemics, pandemics and bioterrorism also deal with specific approach of health professionals and altered conditions for provision of health care, especially in terms of protection of own health.

Brief outline of the course:
Definition of health damage and its classification from different points of view. Health damage due to a disease and external factors. Bodily harm from legal point of view. Assessment of traumatic injury. Medical records management. Diagnoses, their arrangement and relevance for forensic and legal purposes. Assessment of the causal link between diagnosis and patient data. Assessment of long-term sickness absence. Traumatic health damage. Traffic accidents – forensic assessment. Quantification of injuries in traffic accidents. Quantification of injuries in traffic accidents. Direct and associated complications of traumatic injuries. Injury Severity Score (ISS). Abbreviated Injury Scale (AIS). Health damage resulting from the offense. Forms of physical abuse. CAN syndrome. Examination of the person injured while committing a crime and the person suspected of committing a crime. External examination of the person after the committed crime. Biological and chemical weapons of mass destruction in connection with damage to human health. Bioterrorism. Biohazard Safety Level (BSL) and its importance. Work in a BSL regime in case of biological threat. Mass casualty incident. M.E.T.H.A.N.E. method. Sorting of wounded people. Triage (START). Health services in epidemic/pandemic. Challenges of epidemic/pandemic for the health care system. Working conditions of healthcare professionals during epidemic/pandemic. Compensation for the pain and deteriorated social and work capacity in Slovak legislation. Damage

to health during provision of health care. Medical malpractice. Lege artis. Supervision of provision of health care and. Health Care Surveillance Authority (HCSA) in Slovakia. Expert activity in the field of healthcare and pharmacy in cases of health damage. HCSA vs. medical expert activity in case of damage to health during provision of health care.

Recommended literature:

REDDY, K. S. N. and MURTY, O. P. The Essentials of Forensic Medicine and Toxicology. 33rd edition. New Delhi: Jaypee Brothers Medical Publishers Ltd., 2014.
PAYNE-JAMES, J., JONES, R., KARCH, S. B. and MANLOVE, J. Simpson's Forensic Medicine. 13th edition, London: Hodder Arnold, 2011.
BARTLEY, G. P. Traffic Accidents: Causes and Outcomes. New York: Nova Publishers, 2008.
JENNY, C. Child Abuse and Neglect: Diagnosis, Treatment and Evidence. Cambridge: Elsevier, 2010.

Course language:
English

Notes:
Maximum class size is 20 students.

Course assessment
Total number of assessed students: 10

abs	abs-A	abs-B	abs-C	abs-D	abs-E	neabs
0.0	90.0	10.0	0.0	0.0	0.0	0.0

Provides: doc. MUDr. Silvia Farkašová Iannaccone, PhD., MUDr. Ingrid Nerantzakis, MUDr. Dorota Sopková, PhD., MBA, MUDr. Viktória Briškárová

Date of last modification: 01.06.2024

Approved: prof. MUDr. Peter Jarčuška, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: UHE/ HE-GM1/22	**Course name:** Histology and Embryology 1

Course type, scope and the method:
Course type: Lecture / Practice / Controlled study hour
Recommended course-load (hours):
Per week: 2 / 3 / 1 **Per study period:** 28 / 42 / 14
Course method: present

Number of ECTS credits: 6

Recommended semester/trimester of the course: 2.

Course level: I.II.

Prerequisities:

Conditions for course completion:
Requirements for completion of subject:
1. Student has to attend all practical lessons (100%)
2. Limits to pass the subject Histology and Embryology 1:
control tests during practical classes – average minimum 60%
semestral slide test – minimum 60% of each slide
semestral written test – minimum 60%
If these conditions are not completed the student is evaluated - Fx
https://www.upjs.sk/app/uploads/sites/9/2025/01/GM-HE1-requirements-2024-25-1.pdf

Learning outcomes:
The student gains knowledge about the microscopic structure and function of the cells and tissues within living human organism. This serves as the base for studying pathology and pathophysiology. Cells and tissues are studied practically by the light microscope.
Embryology 1 is concerned with basic principles of early human development.

Brief outline of the course:
Histologic technic; Cytology; Epithelial tissue; Connective tissue proper; Cartilage; Bone tissue; Ossification; Blood - hemopoiesis and bone marrow; Muscle tissue; Nervous tissue; Embryology - blastogenesis, early organogenesis.
https://www.upjs.sk/app/uploads/sites/9/2025/01/GM-HE-1-Sylabus-2024-25-1.pdf

Recommended literature:
Compulsory literature:
1. Adamkov M. et al.: Introduction to FUNCTIONAL HISTOLOGY, Nakladatelství Barbara, 2016
2. Mechírová E. and Domoráková I.: *HISTOLOGY, Practical lessons, 2020
3. Mechírová E., Domoráková I., Tóth Š. et al.: Study material of Histology and Embryology – Supplement http://www.lf.upjs.sk/uhe/histology_topics/
4. Junqueira L. C. et al.: Basic Histology, Elsevier, 2016
5. Moore K. L. and Persaud T. V. N.: Before We Are Born, Essentials of Embryology and Birth Deffects, Elsevier, 2015
Recommended literature:

1. Mechírová E., Domoráková, I., Tóth Š., Veselá J.: Lectures HE1 pdf. - https://portal.lf.upjs.sk/
2. Ross M.H. and Pawlina W.: Histology: A Text and Atlas: With Correlated Cell and Molecular Biology, Wolters Cluver, 2021
3. Ovalle W. K. and Nahirnay P. C.: Netters´s ESSENTIAL HISTOLOGY, Ilustrations, colour atlas, Saunders, 2020
https://www.upjs.sk/app/uploads/sites/9/2022/11/EN-HE1_Literature-GM.pdf

Course language:
English

Notes:

Course assessment
Total number of assessed students: 4433

abs	abs-A	abs-B	abs-C	abs-D	abs-E	neabs
30.3	2.91	5.3	11.37	15.47	25.2	9.45

Provides: prof. MUDr. Eva Mechírová, CSc., doc. MVDr. Iveta Domoráková, PhD., doc. MVDr. Štefan Tóth, PhD., MVDr. Zuzana Fagová, PhD., MUDr. Alexandra Kunová, RNDr. Kristína Čurgali, PhD., MVDr. Monika Holodová, PhD.

Date of last modification: 07.02.2025

Approved: prof. MUDr. Peter Jarčuška, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: UHE/ HE-GM2/17	**Course name:** Histology and Embryology 2

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

Number of ECTS credits: 7

Recommended semester/trimester of the course: 3.

Course level: I.II.

Prerequisities: UHE/HE-GM1/22

Conditions for course completion:
Requirements of HE2 during semester:
1. Student has to attend all practical lessons (100%).
2. Control tests – average minimum 60%
3. Semestral slide test (two slides) in 14th week of semester - each slide minimally 60%.
Final exam of HE2 consists of 2 parts:
A. Final written test - minimum 60% to continue to the final oral exam.
B. Final oral exam - three questions – evaluation for each minimally 60%:
a) histologic technics, cytology and tissues
b) microscopic anatomy
c) embryology
https://www.upjs.sk/app/uploads/sites/9/2024/09/GM-HE2-requirements-1.pdf

Learning outcomes:
Histology and embryology II. The student gains knowledge about the microscopic structure and function of the cells, tissues, organs and organ systems within living human organism. This serves as the base for studying pathology and pathophysiology. The microscopic structure of the organs are studied practically by the light microscope.
Embryology II. is concerned with basic principles of early human development, organogenesis and malformations during prenatal development.

Brief outline of the course:
Cardiovascular system, Lymphoid system, Digestive system, Respiratory system, Urinary system, Male and Female reproductive systems, Endocrine and Nervous system, Skin, Sense organs. Embryology II. - organogenesis.
https://www.upjs.sk/app/uploads/sites/9/2024/09/GM-HE2-Curricullum-1.pdf

Recommended literature:
Adamkov M. et al. Introduction to FUNCTIONAL HISTOLOGY, P+M Turany 2016
Mechírová E. and Domoráková I. *HISTOLOGY, Practical lessons, 2020
Mechírová E., Domoráková I., Tóth Š. et al. Study material of Histology and Embryology – Supplement http://www.lf.upjs.sk/uhe/histology_topics/ 2013

Mechírová E., Domoráková, I., Tóth Š., Veselá J. Lectures HE1 pdf. - https://portal.lf.upjs.sk/ 2020
Junqueira L. C. et al. Basic Histology, Elsevier 2016
Moore K. L. and Persaud T. V. N. Before We Are Born, Essentials of Embryology and Birth Deffects, Elsevier 2015
Ross M.H. and Pawlina W. Histology: A Text and Atlas: With Correlated Cell and Molecular Biology, Wolters Cluver 2021
Ovalle W. K. and Nahirnay P. C. Netters´s ESSENTIAL HISTOLOGY, Ilustrations, colour atlas, Saunders 2013, 2020
https://portal.lf.upjs.sk/index-en.php
https://www.upjs.sk/app/uploads/sites/9/2022/11/EN-HE2_Literature-GM.pdf

Course language:
English

Notes:

Course assessment
Total number of assessed students: 4012

A	B	C	D	E	FX
4.96	6.83	15.0	18.2	25.27	29.74

Provides: prof. MUDr. Eva Mechírová, CSc., doc. MVDr. Štefan Tóth, PhD., MVDr. Zuzana Fagová, PhD., MUDr. Alexandra Kunová, MVDr. Monika Holodová, PhD., RNDr. Kristína Čurgali, PhD., MVDr. Katarína Hajovská, PhD.

Date of last modification: 12.09.2024

Approved: prof. MUDr. Peter Jarčuška, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Medicine	
Course ID: ULI/ HIS-GM/17	**Course name:** Hospital Information System

Course type, scope and the method:
Course type: Lecture / Practice
Recommended course-load (hours):
Per week: 0 / 1 **Per study period:** 0 / 14
Course method: present

Number of ECTS credits: 2

Recommended semester/trimester of the course: 3.

Course level: I.II.

Prerequisities: ULI/MInf-GM/09

Conditions for course completion:
1. 100% and active attendance.
2. Min. 60% from each test during the term.
3. Elaboration of all assigned tasks.
4. Final exam.

Learning outcomes:
The main aim is to manage work with the real hospital information system. Students should understand principles of electronic health records, to know how to organize patients administration using individual modules of information system and to understand flow of information across the hospital departments and clinics.

Brief outline of the course:
Basics of hospital information systems. Parts of complex HIS (modules), access rights, interface description. Communication between users of HIS. Central register, Central card. Module of Outpatient clinic, creation of new outpatient clinic card, entry examination, anamnesis, emergency data set, score schemes, examination requests and orders, waiting room, outpatient clinic examination, consilium report, dispensatory treatment. Module of Hospital departments, administrative acceptance of patient for hospitalisation, entry examination, organisation of patients in rooms and beds, creation of health care records, displacement of patients in and between hospital departments, administrative discharge of hospitalised patients, final report. Gynaecological and maternity department. Module of Intensive Care Units. Module of Surgery departments. HIS for nurses and caregivers.

Recommended literature:
1. Majerník J., Kotlárová K.: Medicínska informatika 2 - Nemocničný informačný systém, UPJŠ, Košice 2010, Equilibria, ISBN 978-80-7097-812-2.
2. Majerník J., Švída M., Majerníková Ž.: Medicínska informatika, UPJŠ, Košice 2010, Equilibria, ISBN 978-80-7097-811-5.
3. Notes from exercises and manuals of hospital information systems.

Course language:
English

Notes:

Course assessment
Total number of assessed students: 192

A	B	C	D	E	FX
52.08	27.6	7.81	3.65	3.13	5.73

Provides: doc. Ing. Jaroslav Majerník, PhD.

Date of last modification: 25.03.2023

Approved: prof. MUDr. Peter Jarčuška, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Medicine	
Course ID: UVZH/ H-GM/22	**Course name:** Hygiene

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

Number of ECTS credits: 3

Recommended semester/trimester of the course: 8.

Course level: I.II.

Prerequisities: UFZ/Ph-GM2/14

Conditions for course completion:
Participation in practical classes and seminars and received administrative report a measurement, preparation and presentation of the thematic topic of the seminar.
Mandatory attendance at lectures.
Final exam in written form.

Learning outcomes:
Students will acquire knowledge about patterns of factors resulting from living and working environment, the impact of the different lifestyle factors on health, health promotion, health protection principles, population health and will receive the knowledge through addressing preventive measures.

Brief outline of the course:
Primary prevention in health care of the population. Primary, secondary and tertiary prevention, risk factors of chronic non-infectious diseases (cardiovascular, cancer, mental, metabolic, accidents, chronic respiratory, etc.). State health supervision, its meaning, structure of governmental service for public health, public health institutes. Public health service in Slovakia. Principles for evaluating health risks in living and working environment. Impact of factors resulting from environmental health. Environmental health, air quality, air contaminants effect on the health. Water its quality and its impact on health. Essential nutrients, their importance and the daily intake, rational nutrition. Food hygiene, principles of food control, contaminants in food. Occupational hygiene, health in the workplace, distribution and influence of factors from working conditions and occupational environment on health (physical, chemical, biological, ergonomic, specific, unspecific, hazardous work). Hygiene and sanitary in health care facilities. Effect of ionizing and non-ionizing radiation on health, protection of the population. Hygienic problems of housing and urbanization. Hygiene of children and youth. Growth and development of children, their health determinants, depending on the environment. Practical and theoretical principles in design, implementation and monitoring of population-based studies determinants of health. Practical visit of selected departments.

Recommended literature:
1. RIMÁROVÁ, K.: Environmental medicine – hygiene. Košice, Univerzita Pavla Jozefa Šafárika v Košiciach, 2006. - 148 s. - ISBN 80-7097-646-2.

2. RIMÁROVÁ, K.: Compendium of Hygiene. Košice, Univerzita Pavla Jozefa Šafárika, 2014. - 210 s. - ISBN 9788081521676 (brož.). 3. KOLARZYK, E.: Selected topics on hygiene and human ecology. Edited by http://www.e-nujag.cm-uj.krakow.pl/materialy/higiena/main.pdf

Course language:
English

Notes:

Course assessment
Total number of assessed students: 1562

A	B	C	D	E	FX
8.32	13.96	22.79	28.94	23.56	2.43

Provides: prof. MUDr. Kvetoslava Rimárová, CSc., prof. MVDr. Tatiana Kimáková, PhD., MVDr. Zlatana Sulinová, PhD., MVDr. Martina Hrubovčák Tejová

Date of last modification: 27.03.2023

Approved: prof. MUDr. Peter Jarčuška, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: KICM/ IFM-GM/19	**Course name:** Infectology

Course type, scope and the method:
Course type: Lecture / Practice
Recommended course-load (hours):
Per week: 1 / 3 **Per study period:** 14 / 42
Course method: present

Number of ECTS credits: 3

Recommended semester/trimester of the course: 9.

Course level: I.II.

Prerequisities: IK/IM-GM3/22

Conditions for course completion:

Learning outcomes:
Epidemiological aspects and basic diagnostics of infectious diseases, the basic principles of antiinfectious treatment, current problems of infectology in the 21st century.

Brief outline of the course:
The nature of infectious diseases, principles of diagnosis. Intestinal infections. Viral hepatitis. Respiratory infections. Neuroinfections. HIV / AIDS. Anti-infective therapy. Exanthematous diseases. Differential diagnosis of fever of unknown origin.

Recommended literature:
Mandell G.L., Douglas R.G., Bennett J.E., Dolin R., Principles and practise of infectious diseases. 8th edithion, 2015. P. 3904. ISBN 9781455748013
Mandal B. K., Wilkins E.G.L, Dunbar E.M., Mayon-White R.T., Infectious diseases . Fifth edition, 1997.
ISBN 0-632-03351-7
John E. Bennett, Raphael Dolin, Martin J. Blaser, Mandell, Douglas and Bennett's Infectious Disease Essentials (Principles and Practice of Infectious Diseases) 1st Edition, Elsevier, 2017

Course language:

Notes:

Course assessment
Total number of assessed students: 1961

A	B	C	D	E	FX
41.66	21.32	16.11	9.59	8.67	2.65

Provides: prof. MUDr. Ivan Schréter, CSc., Dr.h.c. prof. MUDr. Pavol Jarčuška, PhD., prof. MUDr. Pavol Kristian, PhD., MUDr. Martin Novotný, PhD., doc. MUDr. Zuzana Paraličová, PhD., MUDr. Ivana Hockicková, PhD., MUDr. Patrícia Denisa Lenártová, PhD., MUDr. Štefan Porubčin, PhD., MUDr. Ondrej Zahornacký, PhD.

Date of last modification: 26.08.2021

Approved: prof. MUDr. Peter Jarčuška, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Medicine	
Course ID: IK/IM-SS-GM/22	**Course name:** Internal Medicine
Course type, scope and the method: **Course type:** **Recommended course-load (hours):** **Per week: Per study period:** **Course method:** present	
Number of ECTS credits: 2	
Recommended semester/trimester of the course: 11., 12..	
Course level: I.II.	
Prerequisities: IK/IM-GM6/22 and IK/CIM-GM/24 and UFR/PM-GM2/25 and 1. PK/PT-GM2/24 and 1. KAIM/AIM-GM/24 and ULCHBKB/CB-GM/18 and KICM/IFM-GM/19	
Conditions for course completion: 1. For successful completion of the practical exercises/seminars is required: - To participate at all of practical exercises, theoretical and practical performance of all exercises/seminars. - To get at least 60 % of total score for ongoing review of written test /60 questions/ and of the theoretical training to practical exercises. - Two absences are allowed /justified/ 2. For successful obtained of the credits from subject is necessary: - To gain the credit from practical exercises (paragraph 1 above). - Examining of the patient, dg., dif. dg., treatment - Evaluation: Study rules of procedure UPJŠ in Košice, the Faculty of Medicine, Par II, Art13 - Students attending IM 6 abroad must complete a practical part of the exam including a test no later than 10 days prior to the final state examination in the original study group - The final classification includes the evaluation of the written test and the results obtained in practical exercises - To the state exam bring the student´s book with the appreciation Education can alternatively by conducted in a distant mode. The teachers will communicate with students by email, skype or other teleconference applications. 1. The presence of the students at individual practices will be recorded by their teachers. 2. Teachers will assign the tasks to students in the form of essays and solving case reports. 3. Knowledge assessment will be carried out by a distance test. 4. Completion of the course will be evaluated on the basis of the records of presence, written assignments and test results.	
Learning outcomes: Graduate acquires knowledge in accordance with the profile of the graduating general medicine	

Brief outline of the course:

1. Methods of investigation in cardiology
2. Pericarditis
3. Myocarditis
4. Endocarditis
5. Mitral stenosis and regurgitation
6. Aortic stenosis and regurgitation
7. Aortic disorders - aneurysm, dissection, syndrome of aortic arch
8. Systemic hypertension – classification, complications, treatment
9. Secondary hypertension
10. Acute pulmonary embolism
11. Pulmonary hypertension
12. Vein diseases – varices, superficial thrombophlebitis and deep phlebothrombosis of lower extremities
13. Atherosclerosis – aetiopathogenesis, risk factors, clinical manifestations
14. Peripheral arterial disease
15. Coronary heart disease – clinical symptoms, treatment
16. Acute coronary syndrome – unstable angina pectoris, acute myocardial infarction
17. Hypertrophic cardiomyopathy
18. Dilated cardiomyopathy
19. Atrial septal defect
20. Supraventricular tachycardia, atrial fibrillation
21. Ventricular tachycardia, ventricular fibrillation
22. Bradyarrhythmias - sick sinus syndrome, A-V blocks
23. Congestive heart failure
24. Syncope
25. Shock - differential diagnosis, treatment
26. Cardiopulmonary resuscitation
27. Methods of investigation in pneumology
28. Bronchial asthma
29. Chronic obstructive pulmonary disease, bronchiectasis
30. Respiratory failure
31. Pneumonias and complications
32. Tumours of the respiratory tract – lungs and pleura
33. Tuberculosis – epidemiology, aetiopathogenesis, diagnosis, clinical symptoms, treatment
34. Mediastinal lesions, sarcoidosis
35. Disorders of the pleura
36. Diffuse interstitial lung disorders
37. Methods of investigation in nephrology and differential diagnosis of kidney diseases
38. Acute glomerulonephritis
39. Chronic glomerulonephritis
40. Nephrotic syndrome
41. Tubulo-interstitial nephritis
42. Tumours of the kidney, nephrolithiasis, cystic renal disease
43. Acute renal failure
44. Chronic renal failure
45. Methods of investigation in gastroenterology
46. Methods of investigation in hepatology
47. Methods of investigation in diseases of pancreas

48. Diseases of the oesophagus
49. Gastritis - acute and chronic, peptic ulcer disease – complications and treatment
50. Gastric tumours
51. Inflammatory bowel diseases
52. Tumours of the small intestine and colonic tumours
53. Chronic hepatitis
54. Liver cirrhosis
55. Liver failure – acute and chronic
56. Differential diagnosis of jaundice
57. Toxic liver damage. Liver and metabolic disorders
58. Gastrointestinal bleeding – ethiopatogenesis, clinical symptoms, diagnosis and treatment
59. Upper and lower dyspeptic syndrome, colon irritabile
60. Tumours of the liver and biliary tract
61. Diseases of the gallbladder and biliary tract – clinical symptoms and complications
62. Pancreatitis
63. Tumours of the pancreas
64. Malabsorption
65. Acute states in gastroenterology
66. Methods of investigation in thyreology
67. Investigation methods of adrenal glands
68. Hyperpituitarism
69. Hypopituitarism
70. Diseases of neurohypophysis - diabetes insipidus, SIADH
71. Goitre, inflammatory diseases, and tumours of the thyroid gland
72. Hyperthyroidism
73. Hypothyroidism
74. Parathyroid glands disorders
75. Hypocorticism
76. Hypercorticism - Cushing syndrome
77. Disorders of sympathoadrenal system, pheochromocytoma
78. Primary and secondary hyperaldosteronism
79. Disorders of male and female reproduction
80. Diagnosis and treatment of acute states in endocrinology
81. Methods of investigations in haematology
82. Anaemias - classification and differential diagnosis
83. Microcytic anaemias
84. Macrocytic anaemias
85. Haemolytic anaemias
86. Acute leukaemias
87. Myeloproliferative disorders
88. Myelodysplastic syndrome
89. Chronic lymphocytic leukaemia
90. Hypocoagulation – congenital and acquired
91. Thrombocytopenias and thrombocytopathies
92. Hypercoagulation, disseminated intravascular coagulopathy
93. Anticoagulant and fibrinolytic treatment
94. The lymphomas
95. Monoclonal gammapathies
96. Aplastic anaemia

97. Blood transfusion and treatment with blood derivatives
98. Coma states in internal medicine
99. Differential diagnosis of oedema in internal medicine
100. Differential diagnosis of chest pain
101. Differential diagnosis of back pain
102. Differential diagnosis of dyspnoea
103. Differential diagnosis of subfebrilities and febrilities in internal medicine
104. Focal infection and sepsis
105. Splenomegaly and hypersplenism
106. Antibiotics - classification, indications, adverse reactions
107. Disorders of water and electrolytes
108. Disorders of acid – base balance
109. Methods of investigation in clinical genetics and its indications
110. Paraneoplastic syndromes
111. Brain stroke
112. Lipid disorders
113. Diabetes mellitus – pathogenesis, classification, diagnosis, criteria of compensation
114. Diabetes mellitus - acute complications and treatment
115. Diabetes mellitus – chronic complications and treatment
116. Diabetes mellitus type 1 – etiopathogenesis, diagnosis and treatment
117. Diabetes mellitus type 2 – etiopathogenesis, diagnosis and treatment
118. Obesity – diagnosis and treatment, metabolic syndrome
119. Porphyrias
120. Vitamins deficiencies
121. Rheumatoid arthritis
122. Seronegative spondylarthritis – morbus Bechterev, reactive, psoriatic and enteropatic arthritis
123. Arthritis urica, hyperuricemic syndrome
124. Osteoporosis and osteomalacia
125. Systemic lupus erythematosus
126. Vasculitis – classification, polyarteritis nodosa
127. Connective tissue disorders – progressive systemic sclerosis, scleroderma, Sjögren´s syndrome, dermatomyositis
128. Acute poisoning - general principles of management
129. Drug poisoning - CNS stimulating drugs, CNS depressants (ethanol, methanol)
130. Mushrooms poisoning
131. Organophosphate and carbon monoxide poisoning
132. Drug poisoning - paracetamol, ibuprofen, salicylates, antihistamines
133. Corticosteroids treatment - indications and contraindications, side effects
134. Immune disorders - immunodeficiency states, hypersensitivity states, autoimmunity
135. Imunomodulatory treatment - immunosuppressive, immunostimulatory and immunorestaurant - indications in internal medicine

Recommended literature:
Kumar and Clark: Clinical Medicine 10th Edition, ELSEVIER 2020 Kasper D, Fauci A.: Harrison s principles of Internal medicine, 20 ed 2017

Course language:
English

Notes:

Course assessment Total number of assessed students: 1585					
A	B	C	D	E	FX
17.92	18.49	24.54	19.05	17.85	2.15
Provides:					
Date of last modification: 17.03.2023					
Approved: prof. MUDr. Peter Jarčuška, PhD.					

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: IK/IP-GM/15	**Course name:** Internal Medicine - Propedeutics

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

Number of ECTS credits: 5

Recommended semester/trimester of the course: 5.

Course level: I.II.

Prerequisities: (UA/A-GM2/14 or UA/A-GM2/22) and UFZ/Ph-GM1/22

Conditions for course completion:
I. The following are required for successful completion of the practical exercises/seminars: - 100% participation in practical exercises, theoretical and practical performance of all exercises - Obtaining at least 60 % of the total score in the form of a test and theoretical preparation for the practical exercises/seminars. - 2 excused absences allowed II. The following are required for successful completion of the course and to receive credits: - Successful completion of the practical exercises/ seminars, with the possibility of practical exercises in the Simulator Training Centre - Control tests are evaluated on the basis of the number of points achieved (%) with evaluation according to the Study Regulations of the UPJŠ in Košice, Faculty of Medicine Part II, Article 13, paragraph 4 - The final evaluation takes into account the results of the interimediate evaluation - To the exam bring the student´s book with the appreciation /patient/ - For the pre-term, a teacher's recommendation is required based on the student's active approach, excellent theoretical and practical knowledge and passing the test with at least 90%

Learning outcomes:
Basic clinical nomenclature, evaluation of anamnestic data and physical examination in internal medicine. Evaluation of basic auxiliary examination methods.

Brief outline of the course:
Introduction to clinical medicine. History taking .Inspection – part I. General inspection, consciousness, position, shape and size, skin inspection. Inspection – part II. Special inspection.Palpation – the head, neck, chest (lungs and heart), abdomen, physical examination of ascites. Palpation of the peripheral vessels, Examination of the pulse.Main symptoms in the diseases of the GIT (liver, gallbladder, pancreas) and diseases of the kidneys and urinary tract.Percusion of the lungs, heart and abdomen – physiology and pathology.Auscultation of the lungs – physiological and pathological findings. Main symptoms in most frequent diseases (bronchitis, asthma, pneumothorax, pneumonia and pleuritis.Auscultation of the heart. Heart sounds and murmurs. Physical findings in the most frequent heart diseases (inspection, palpation, auscultation).Principles of clinical electrocardiography - normal ECG, pathologic changes, myocardial hypertrophy, electrolyte disturbances.ECG – coronary heart disease, acute myocardial infarction, pulmonary embolism, pulmonary heart disease, myocarditis, pericarditis.ECG – arrhythmias.Basic principles of X-ray in Internal Medicine. X-rey of the cest – patological findings.

The current timetable for a given term is published on the electronic bulletin board of the course in AiS2 or on the clinic's website.

Recommended literature:

1. Chrobák L, Grall T, Kvasnička J. Physical examination in Internal Medicine, 1997, GRADA Publishing.
2. P.J. Toghill: Examining Patients. An Intoduction to Clinical Medicine, 1993

Course language:

english

Notes:

The subject Internal propeadeutics is provided only in the winter term.

Course assessment

Total number of assessed students: 3081

A	B	C	D	E	FX
16.13	21.75	23.47	15.19	19.51	3.96

Provides: prof. MUDr. Peter Mitro, DrSc., prof. MUDr. Gabriel Valočik, PhD., prof. MUDr. Ivica Lazúrová, DrSc., FRCP, prof. MUDr. Daniel Pella, PhD., doc. MUDr. Jozef Gonsorčík, CSc., prof. MUDr. Ľubomír Legáth, PhD., doc. MUDr. Ivana Valočiková, PhD., doc. MUDr. Pavol Joppa, PhD., prof. MUDr. Jozef Pella, PhD., prof. MUDr. Ivan Tkáč, PhD., prof. MUDr. Ružena Tkáčová, DrSc., doc. MUDr. Eva Szabóová, PhD., doc. MUDr. Viola Vargová, PhD., doc. MUDr. Mária Rašiová, PhD., doc. MUDr. Martin Janičko, PhD., doc. MUDr. Zbynek Schroner, PhD., doc. MUDr. Slavomír Perečinský, PhD., doc. MUDr. Miriam Kozárová, PhD., MPH, doc. MUDr. Eduard Veseliny, PhD., MUDr. Marek Varga, PhD., doc. MUDr. Pavol Pobeha, PhD., MUDr. Ivana Paraničová, PhD., MUDr. Katarína Tokarčíková, PhD., MUDr. Stanislav Juhás, CSc., doc. MUDr. Branislav Stančák, CSc., MUDr. Anna Ürgeová, PhD., doc. MUDr. Ingrid Dravecká, PhD., MUDr. Martin Ihnatko, PhD., MUDr. Erika Komanová, PhD., doc. MUDr. Marian Sninčák, PhD., doc. MUDr. Martin Studenčan, PhD., MHA

Date of last modification: 17.03.2023

Approved: prof. MUDr. Peter Jarčuška, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Medicine	
Course ID: IK/IM-GM1/16	**Course name:** Internal Medicine 1

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

Number of ECTS credits: 5

Recommended semester/trimester of the course: 6.

Course level: I.II.

Prerequisities: UFZ/Ph-GM2/14 and IK/IP-GM/15

Conditions for course completion:
1. For successful completion of the practical exercises/seminars is required:
- To participate at all of practical exercises, theoretical and practical performance of all exercises/seminars,it is possible to complete practical exercises in the Center for Simulator Teaching
- To get at least 60 % of total score for ongoing review of written test and the theoretical training to practical exercises.
- Two absences are allowed /justified/
2. For successful obtained of the credits from subject is necessary:
- To gain the credit from practical exercises (paragraph 1 above).
- Evaluation: Study rules of procedure UPJŠ in Košice, the Faculty of Medicine, Part II, Art13
- The final classification includes the evaluation of the written test and the results obtained in practical exercises

Learning outcomes:
Gain basic theoretical knowledge of cardiology and pneumology, get acquainted with the examination procedures used in these diseases. .

Brief outline of the course:
Coronary heart disease- diagnosis and treatment.Myocardial infarction – clinical features, diagnosis and treatment .Endocarditis, myocarditis and pericarditis – dif. diagnosis and treatment. Heart failure .Heart rhythm disorders I. Heart rhythm disorders II. Angiology. Peripheral vascular diseases. Acute and chronic cor pulmonale. Thromboembolic disease .Arterial hypertension Syncope. Shock .Echocardiography.Secondary hypertension – differential diagnosis.Cardiomyopathy.Diseases of the aorta.Investigation methods in pneumology. Inflammatory lung diseases. Chronic obstructive pulmonary disease. Chronic respiratory insuficiency.Tuberculosis – epidemiology, prevention and treatment.Bronchogenic carcinoma, other lung tumours Bronchial asthma – diagnosis and treatment .Interstitial lung diseases.
The current timetable for a given term is published on the electronic bulletin board of the course in AiS2 or on the clinic's website.

Recommended literature:

Kumar and Clark: Clinical Medicine 10th Edition, ELSEVIER 2020
Kasper D, Fauci A.: Harrison s principles of Internal medicine, 20 ed 2017

Course language:
english

Notes:
The course Internal Medicine 1 is provided only in the summer term.

Course assessment
Total number of assessed students: 2716

abs	abs-A	abs-B	abs-C	abs-D	abs-E	neabs
27.69	47.2	13.77	5.93	2.47	2.8	0.15

Provides: prof. MUDr. Ružena Tkáčová, DrSc., prof. MUDr. Ivan Tkáč, PhD., prof. MUDr. Ivica Lazúrová, DrSc., FRCP, prof. MUDr. Daniel Pella, PhD., prof. MUDr. Gabriel Valočik, PhD., prof. MUDr. Peter Mitro, DrSc., doc. MUDr. Jozef Gonsorčík, CSc., doc. MUDr. Branislav Stančák, CSc., doc. MUDr. Pavol Joppa, PhD., prof. MUDr. Jozef Pella, PhD., doc. MUDr. Eva Szabóová, PhD., doc. MUDr. Zbynek Schroner, PhD., doc. MUDr. Miriam Kozárová, PhD., MPH, doc. MUDr. Mária Rašiová, PhD., MUDr. Katarína Tokarčíková, PhD., doc. MUDr. Marian Sninčák, PhD., MUDr. Lucia Dekanová, PhD., MUDr. Dominik Pella, PhD., Bc. MUDr. Marek Hudák, PhD., MUDr. Miloš Šimurda, PhD., MUDr. Alena Yaluri, PhD., doc. MUDr. Pavol Pobeha, PhD., MUDr. Ivana Paraničová, PhD., MUDr. Martin Ihnatko, PhD., doc. MUDr. Viola Vargová, PhD., doc. MUDr. Marianna Barbierik Vachalcová, PhD., MUDr. Eva Gajdošová, prof. MUDr. Ingrid Schusterová, PhD., MUDr. Erika Komanová, PhD., MUDr. Lucia Vaszilyová, PhD., doc. MUDr. Martin Studenčan, PhD., MHA, MUDr. Jana Figurová, PhD.

Date of last modification: 27.09.2023

Approved: prof. MUDr. Peter Jarčuška, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: IK/IM-GM2/22	**Course name:** Internal Medicine 2

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

Number of ECTS credits: 4

Recommended semester/trimester of the course: 7.

Course level: I.II.

Prerequisities: IK/IM-GM1/16

Conditions for course completion:
1. For successful completion of the practical exercises/seminars is required:
- To participate at all of practical exercises, theoretical and practical performance of all exercises/seminars,it is possible to complete practical exercises in the Center for Simulator Teaching
- To get at least 60 % of total score for ongoing review of written test and the theoretical training to practical exercises.
- Two absences are allowed /justified/
2. For successful obtained of the credits from subject is necessary:
- To gain the credit from practical exercises (paragraph 1 above).
- Evaluation: Study rules of procedure UPJŠ in Košice, the Faculty of Medicine, Part II, Art13
- The final classification includes the evaluation of the written test and the results obtained in practical exercises

Learning outcomes:
Gain basic theoretical knowledge of endocrinology, diabetology and hematology, get acquainted with the examination procedures used in these diseases.

Brief outline of the course:
Investigative methods in endocrinology.Hypothalamus – pituitary system axis and its disorders. Male and female reproductive endocrinology.Thyroid gland disorders.Parathyroid glands disorders. Differential diagnosis of hypercalcemia and hypocalcemia.Adrenal glands disorders.Diabetes mellitus type 1 – acute complications .Diabetes mellitus type 2 – chronic complications .Disorders of the lipid metabolism. Investigation methods in hematology .Anemias I: classification, iron deficiency anemia, anemia of chronic diseases, aplastic anemia .Anemias II– hemolytic anemia, macrocytic anemia.Lymphoproliferative disorders – differential diagnosis. Myeloproliferative disorders. The current timetable for a given term is published on the electronic bulletin board of the course in AiS2 or on the clinic's website.

Recommended literature:
Kumar and Clark: Clinical Medicine 10th Edition, ELSEVIER 2020
Kasper D, Fauci A.: Harrison s principles of Internal medicine, 20 ed 2017

Course language:
english

Notes:
The course Internal Medicine 2 is provided only in the winter term.

Course assessment
Total number of assessed students: 2384

abs	abs-A	abs-B	abs-C	abs-D	abs-E	neabs
23.07	47.61	14.43	8.85	2.94	3.1	0.0

Provides: prof. MUDr. Ivan Tkáč, PhD., prof. MUDr. Ivica Lazúrová, DrSc., FRCP, doc. MUDr. Eva Szabóová, PhD., doc. MUDr. Viola Vargová, PhD., MUDr. Martin Javorský, PhD., MUDr. Alojz Rajnič, PhD., doc. MUDr. Ingrid Dravecká, PhD., doc. MUDr. Miriam Kozárová, PhD., MPH, MUDr. Ivana Gotthardová, PhD., MUDr. Anna Ürgeová, PhD., MUDr. Jana Deptová, PhD., MUDr. Mgr. Ivana Jochmanová, PhD., MUDr. Zora Lazúrová, PhD., MUDr. Alena Yaluri, PhD., MUDr. Jana Figurová, PhD., MUDr. Marek Felšőci, PhD., MUDr. Emil Fraenkel, PhD., MUDr. Juliana Gabzdilová, PhD., MBA, MUDr. Tomáš Guman, PhD., MBA, doc. MUDr. Zbynek Schroner, PhD., MUDr. Soroush Rastin, MUDr. Mundher Abdulkareem Salma Aljubouri, PhD.

Date of last modification: 15.03.2023

Approved: prof. MUDr. Peter Jarčuška, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Medicine	
Course ID: IK/IM-GM3/22	**Course name:** Internal Medicine 3

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

Number of ECTS credits: 4

Recommended semester/trimester of the course: 8.

Course level: I.II.

Prerequisities: IK/IM-GM2/22

Conditions for course completion:
1. For successful completion of the practical exercises/seminars is required:
- To participate at all of practical exercises, theoretical and practical performance of all exercises/seminars,it is possible to complete practical exercises in the Center for Simulator Teaching
- To get at least 60 % of total score for ongoing review of written test and the theoretical training to practical exercises.
- Two absences are allowed /justified/
2. For successful obtained of the credits from subject is necessary:
- To gain the credit from practical exercises (paragraph 1 above).
- Evaluation: Study rules of procedure UPJŠ in Košice, the Faculty of Medicine, Part II, Art13
- The final classification includes the evaluation of the written test and the results obtained in practical exercises

Learning outcomes:
Complete examination and differential diagnosis of a patient with disorders of hematopoesis and lymphatic system, gastrointestinal tract.

Brief outline of the course:
Investigation methods in gastroenterology and hepatology.Diseases of the oesophagus
Diseases of the stomach and doudenum. Acute states in gastroenterology
Diseases of the small bowel. Malabsorption.Inflammatory bowel diseases
Tumours of the small and large bowel.Diseases of the gallbladder and biliary tract
Diseases of the pancreas.Chronic hepatitis. Liver tumors.Toxic and metabolic liver diseases
Liver cirrhosis. Hepatic failure.Enteral and parenteral nutrition.Liver transplantation
Immunodeficiency. Immunomodulatory and immunosupressive treatment
(except glucocorticoids.
The current timetable for a given term is published on the electronic bulletin board of the course in AiS2 or on the clinic's website.

Recommended literature:
Kumar and Clark: Clinical Medicine 10th Edition, ELSEVIER 2020

Kasper D, Fauci A.: Harrison s principles of Internal medicine, 20 ed 2017

Course language:
english language

Notes:
The course Internal Medicine 3 is provided only in the summer term.

Course assessment
Total number of assessed students: 2126

abs	abs-A	abs-B	abs-C	abs-D	abs-E	neabs
24.84	52.4	14.25	4.19	1.79	2.49	0.05

Provides: prof. MUDr. Peter Jarčuška, PhD., doc. MUDr. Eduard Veseliny, PhD., doc. MUDr. Martin Janičko, PhD., doc. MUDr. Laura Gombošová, PhD., MUDr. Jaroslav Rosenberger, PhD., doc. MUDr. Zbynek Schroner, PhD., doc. MUDr. Sylvia Dražilová, PhD., MUDr. Igor Gaľa, PhD., MPH, MUDr. Jakub Gazda, PhD., MUDr. Tomáš Koky, MUDr. Martin Kučera, doc. MUDr. Ľubomír Skladaný, PhD., MUDr. Martin Tomáš, MUDr. Zuzana Žeňuchová, MUDr. Marián Macej, PhD., MUDr. Filip Treľo

Date of last modification: 18.09.2023

Approved: prof. MUDr. Peter Jarčuška, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: IK/IM-GM4/22	**Course name:** Internal Medicine 4 (Occupational Medicine, Geriatrics)

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

Number of ECTS credits: 3

Recommended semester/trimester of the course: 9.

Course level: I.II.

Prerequisities: IK/IM-GM3/22 and ULCHBKB/MBCH-GM2/20

Conditions for course completion:
1. For successful completion of the practical exercises/seminars is required:
- To participate at all of practical exercises, theoretical and practical performance of all exercises/seminars,it is possible to complete practical exercises in the Center for Simulator Teaching
- To get at least 60 % of total score for ongoing review of written test or the theoretical training to practical exercises.
- Evaluation: Study rules of procedure UPJŠ in Košice, the Faculty of Medicine, Part II, Art13
2. For successful obtained of the credits from subject is necessary:
- To gain the credit from practical exercises (paragraph 1 above).
- The final exam is written in the form of the Rogo test
- It is necessary to bring student´s book to the exam with evidence of practical exercises.
- The final classification includes the evaluation of the written test and the results obtained in practical exercises

Learning outcomes:
Acquisition of examination and treatment methods of geriatric patients and with specific problems of gerontology, acquisition of diagnostic and treatment methods for occupational diseases and also the basics of diagnosis and treatment of some intoxications

Brief outline of the course:
Toxicology I - diagnostic and therapeutic approaches in acute and chronic poisonings, mushroons, drugs, toxicomania.Toxicology II - poisoning by organic compounds (ethanol and methanol, chlorinated hydrocarbons, organophosphates) and inorganic compounds (heavy metals, CO).Professional diseases of the respiratory system -pneumoconiosis, professional asthma, professional rhinitis, hypersensitivity pneumonitis.Damage to the body from physical causes - vibration, prolonged excessive unilateral load, noise, electromagnetic radiation.Geriatrics - the most common diseases in the elderly, specifics of treatment, preoperative preparation of elderly patients.Geriatric cardiology and cardiac geriatrics.Clinical geriatrics.
The current timetable for a given term is published on the electronic bulletin board of the course in AiS2 or on the clinic's website.

Recommended literature:

Kumar and Clark: Clinical Medicine 10th Edition, ELSEVIER 2020
Kasper D, Fauci A.: Harrison s principles of Internal medicine, 20 ed 2017
Macejová Ž., Aljubouri A.: Selected rheumatology topics for medical students, Academic text book 2019
Levy B.S Wegman D.H. Occupational Health, 2000
Brent J. et al.: Crical Care Toxicology, 2017

Course language:

english

Notes:

The subject Internal Medicine 4 is provided only in the winter term in block teaching.

Course assessment

Total number of assessed students: 1120

A	B	C	D	E	FX
33.57	41.7	18.3	4.82	1.61	0.0

Provides: prof. MUDr. Jozef Pella, PhD., prof. MUDr. Ľubomír Legáth, PhD., MUDr. Marek Varga, PhD., doc. MUDr. Marian Sninčák, PhD., doc. MUDr. Slavomír Perečinský, PhD., MUDr. Miriam Jarčušková, PhD., prof. MUDr. Ján Fedačko, PhD., doc. MUDr. Zbynek Schroner, PhD., doc. MUDr. Štefan Tóth, PhD., MBA

Date of last modification: 02.07.2024

Approved: prof. MUDr. Peter Jarčuška, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Medicine	
Course ID: IK/IM-GM5/22	**Course name:** Internal Medicine 5 (Rheumatology, Nephrology)

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

Number of ECTS credits: 3

Recommended semester/trimester of the course: 10.

Course level: I.II.

Prerequisities: IK/IM-GM4/22

Conditions for course completion:
1. For successful completion of the practical exercises/seminars is required:
- To participate at all of practical exercises, theoretical and practical performance of all exercises/ seminars.
- To get at least 60 % of total score for ongoing review of written test or the theoretical training to practical exercises.
- Evaluation: Study rules of procedure UPJŠ in Košice, the Faculty of Medicine, Part II, Art13
2. For successful obtained of the credits from subject is necessary:
- To gain the credit from practical exercises (paragraph 1 above).
- The final exam is written in the form of the Rogo test
- It is necessary to bring student ´s book to the exam with evidence of practical exercises.
- The final classification includes the evaluation of the written test and the results obtained in practical exercises

Learning outcomes:
Diagnosis and treatment of rheumatic and kidney diseases. Acquisition of examination and treatment methods in rheumatological and nephrological patients.

Brief outline of the course:
Investigation methods in rheumatology, Rheumatoid arthritis. Spondylarthropaties. Metabolic (crystal) induced arthropaties. Vasculitis . Systemic connective tissue diseases - SLE, systemic sclerosis, dermatomyositis. Sjogren syndrome.Immunity, autoimmunity. imunodeficiency – hereditary and acquired. Allergy. Metabolic bone diseases. Fluid and electrolyte disorders. Investigation methods in nephrology.Acute anf chronic renal failure. Dialysis, kidney transplantation.Nephrotic syndrome. Differential diagnosis of proteinuria.Acute and chronic glomerulonephritis. Tubulointerstitial nephropathy. Nephrolithiasis.Fluid and electrolyte disorders. Atherosclerosis – risk factors, clinical manifestations, prevention and treatment.Eating disorders – obesity and cachexia.Sleep apnea syndrome.
The current timetable for a given term is published on the electronic bulletin board of the course in AiS2 or on the clinic's website.

Recommended literature:
1. Kumar and Clarks: Clinical Medicine, 8th Edition

2. Kasper D, Fauci A. Harrison ´s principles of Internal Medicine
3. Macejová Ž., Aljubouri A.: Selected rheumatology topics for medical students

Course language:
english

Notes:
The subject Internal Medicine 5 is provided only in the summer term in block teaching.

Course assessment
Total number of assessed students: 1934

A	B	C	D	E	FX
34.54	35.47	17.53	7.29	4.71	0.47

Provides: MUDr. Anna Ürgeová, PhD., MUDr. Katarína Tokarčíková, PhD., MUDr. Ivana Gotthardová, PhD., MUDr. Martin Javorský, PhD., doc. MUDr. Miriam Kozárová, PhD., MPH, MUDr. Zora Lazúrová, PhD., MUDr. Alojz Rajnič, PhD., prof. MUDr. Ivan Tkáč, PhD., doc. MUDr. Ivana Valočiková, PhD., prof. MUDr. Ivica Lazúrová, DrSc., FRCP, MUDr. Alena Yaluri, PhD., prof. MUDr. Želmíra Macejová, PhD., MPH, MUDr. Mundher Abdulkareem Salma Aljubouri, PhD., MUDr. Igor Gaľa, PhD., MPH, MUDr. Jaroslav Rosenberger, PhD., doc. MUDr. Pavol Joppa, PhD.

Date of last modification: 25.08.2023

Approved: prof. MUDr. Peter Jarčuška, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Medicine	
Course ID: IK/IM-GM6/22	**Course name:** Internal Medicine 6

Course type, scope and the method:
Course type: Practice / Controlled study hour
Recommended course-load (hours):
Per week: Per study period: 320s / 60s
Course method: present

Number of ECTS credits: 13

Recommended semester/trimester of the course: 11., 12..

Course level: I.II.

Prerequisities: IK/IM-GM5/22 and NLK/NL-GM2/22

Conditions for course completion:
1. For successful completion of the practical exercises/seminars is required:
- To participate at all of practical exercises, theoretical and practical performance of all exercises/seminars.
- To get at least 60 % of total score for ongoing review of written test /60 questions/ and of the theoretical training to practical exercises.
- Two absences are allowed /justified/
2. For successful obtained of the credits from subject is necessary:
- To gain the credit from practical exercises (paragraph 1 above).
- Examining of the patient, dg., dif. dg., treatment
- Evaluation: Study rules of procedure UPJŠ in Košice, the Faculty of Medicine, Par II, Art13
- Students attending IM 6 abroad must complete a practical part of the exam including a test no later than 10 days prior to the final state examination in the original study group
- The final classification includes the evaluation of the written test and the results obtained in practical exercises
- To the state exam bring the student´s book with the appreciation
Education can alternatively by conducted in a distant mode. The teachers will communicate with students by email, skype or other teleconference applications.
1. The presence of the students at individual practices will be recorded by their teachers.
2. Teachers will assign the tasks to students in the form of essays and solving case reports.
3. Knowledge assessment will be carried out by a distance test.
4. Completion of the course will be evaluated on the basis of the records of presence, written assignments and test results.

Learning outcomes:
Problem-based teaching with a differential diagnostic approach to individual diseases within the sub-disciplines and mastering the issue of acute conditions in individual sub-disciplines

Brief outline of the course:
Differential diagnosis of jaundice. Alcoholic liver disease.Acid – base balance disorders. Immunodeficiency. Immunomodulatory, immunosupressive and immunorestaurant treatment.Syncope. Shock.Paraneoplastic syndrome.Differential diagnosis of chest pain.Medical genetics in clinical practice.Focal infection and sepsis. Fever – differential diagnosis in internal medicine.Differential diagnosis of oedema in internal medicine. Cardiology - ischemic heart disease, congestive heart failure - arrhythmias - valvular heart disease - cardiomyopathy - arterial hypertension, secondary hypertension - ECG evaluation - echocardiographic investigation Pneumology - asthma bronchiale, chronic obstructive lung disease - respiratory insufficiency - tumours of the respiratory tract - pneumonias, disorders of the pleura - spirometry investigation - differential diagnosis of dyspnoea Gastroenterology - acute stages in gastroenterology - inflammation bowel disease - differential diagnosis of jaundice - liver cirrhosis, liver failure - diseases of the gallbladder and biliary tract - pancreatitis and tumours of the pancreas Nephrology - acute kidney injury - chronic kidney disease - glomerulonephritis - tubulointerstitial nephritis Endocrinology and diabetology - thyroid gland disorders - adrenal gland disorders - acute states in diabetology and endocrinology - diabetes mellitus type 1 - diabetes mellitus type 2 - obesity and metabolic syndrome Haematology - differential diagnosis of anaemias - myeloproliferative disorders - lymphoproliferative disorders - blood transfusion - inherited and acquired coagulation disorders - leukaemia Rheumatology - rheumatoid arthritis - seronegative spondylarthritis - systemic lupus erythematosus - vasculitis - osteoporosis Varia - poisoning: drugs, ethyl alcohol, methyl alcohol, ethylene glycol, mushrooms - acid-base disorders - water-electrolyte disorders - cardiopulmonary resuscitation - antibiotics and immunosuppressive treatment

Recommended literature:
Kumar and Clark: Clinical Medicine 10th Edition, ELSEVIER 2020
Kasper D, Fauci A.:Harrison s principles of Internal medicine, 20 ed 2017
Pobeha P., Paraničová Z., Joppa P.:Respiratory Medicine and Tuberculosis. Selected chapters, 2022
Link: https://unibook.upjs.sk/sk/lekarska-fakulta/1686-respiratory-medicine-and-tuberculosis-selected-chapters

Course language:
english

Notes:
The subject Internal Medicine 6 is provided in the winter and summer term in block teaching.

Course assessment
Total number of assessed students: 1586

abs	abs-A	abs-B	abs-C	abs-D	abs-E	neabs
18.03	47.86	22.01	9.58	2.14	0.38	0.0

Provides: prof. MUDr. Peter Mitro, DrSc., doc. MUDr. Ivana Valočiková, PhD., prof. MUDr. Peter Jarčuška, PhD., doc. MUDr. Ingrid Dravecká, PhD., MUDr. Ivan Majerčák, MPH, prof. MUDr. Ivan Tkáč, PhD., prof. MUDr. Gabriel Valočik, PhD., prof. MUDr. Jozef Pella, PhD., prof. MUDr. Ľubomír Legáth, PhD., doc. MUDr. Viola Vargová, PhD., doc. MUDr. Jozef Gonsorčík, CSc., doc. MUDr. Martin Janičko, PhD., doc. MUDr. Miriam Kozárová, PhD., MPH, doc. MUDr. Eduard Veseliny, PhD., MUDr. Alojz Rajnič, PhD., MUDr. Martin Javorský, PhD., MUDr. Ivana Gotthardová, PhD., doc. MUDr. Branislav Stančák, CSc., MUDr. Pavol Murín, PhD., MUDr. Anna Ürgeová, PhD., MUDr. Katarína Tokarčíková, PhD., doc. MUDr. Laura Gombošová, PhD., MUDr. Jana Deptová, PhD., MUDr. Mgr. Ivana Jochmanová, PhD., MUDr. Zora Lazúrová, PhD., MUDr.

Jana Figurová, PhD., MUDr. Alena Yaluri, PhD., MUDr. Marek Felšőci, PhD., MUDr. Emil Fraenkel, PhD., MUDr. Martin Ihnatko, PhD., MUDr. Lucia Vaszilyová, PhD., MUDr. Mundher Abdulkareem Salma Aljubouri, PhD., prof. MUDr. Ivica Lazúrová, DrSc., FRCP, MUDr. Jakub Gazda, PhD., MUDr. Martin Kučera
Date of last modification: 25.08.2023
Approved: prof. MUDr. Peter Jarčuška, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: ULCHBKB/LDCP-GM/13	**Course name:** Laboratory Diagnosis in Clinical Practice

Course type, scope and the method:
Course type: Lecture / Practice
Recommended course-load (hours):
Per week: 0 / 1 **Per study period:** 0 / 14
Course method: present

Number of ECTS credits: 2

Recommended semester/trimester of the course: 7., 9.

Course level: I.II.

Prerequisities:

Conditions for course completion:
lectures, practical exercise; more informations: https://www.upjs.sk/lekarska-fakulta/en/department/medical-and-clinical-biochemistry/education/subjects/general-medicine/

Learning outcomes:
Laboratory diagnostics is an everyday part of the practice of both general practitioners and specialists. In addition to the basic approaches in the diagnosis, treatment and prevention of diseases, there are also laboratory examinations of body fluids, the analysis of which the graduate of the course should be able to handle. In recent years, many new analytes and approaches have emerged in the field of laboratory diagnostic procedures, not only in the field of molecular biological or proteomic techniques, with which students will be acquainted. The graduate knows the current laboratory methods and their use in clinical diagnostics at the theoretical and practical level, including changes and adjustments to recommended procedures, reference intervals and methods used.

Brief outline of the course:

Recommended literature:
McPherson, R. A. a Pincus M. R.: Henry´s Clinical Diagnosis and Management by Laboratory Methodsd, ELSEVIER, 2011
Burtis C. A., Ashwood E. R., Bruns D. E.: Tietz Textbook of Clinical Chemistry and Molecular Diagnostics, ELSEVIER, 2006

Course language:
english

Notes:

Course assessment
Total number of assessed students: 51

abs	abs-A	abs-B	abs-C	abs-D	abs-E	neabs
37.25	15.69	15.69	9.8	0.0	0.0	21.57

Provides: doc. Ing. Katarína Dubayová, PhD., prof. Ing. Mária Mareková, CSc., doc. RNDr. Miroslava Rabajdová, PhD., univerzitná profesorka, doc. Ing. Beáta Hubková, PhD., RNDr. Jana Mašlanková, PhD.
Date of last modification: 17.02.2023
Approved: prof. MUDr. Peter Jarčuška, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: ULCHBKB/MBCH-GM1/20	**Course name:** Medical Biochemistry 1

Course type, scope and the method:
Course type: Lecture / Practice
Recommended course-load (hours):
Per week: 2 / 3 **Per study period:** 28 / 42
Course method: present

Number of ECTS credits: 5

Recommended semester/trimester of the course: 3.

Course level: I.II.

Prerequisities: ULCHBKB/MCH-GM/22

Conditions for course completion:
lectures, practical exercises, seminars, exam; more details: https://www.upjs.sk/lekarska-fakulta/en/department/medical-and-clinical-biochemistry/education/subjects/general-medicine/

Learning outcomes:
In the medical study, medical biochemistry plays an irreplaceable role, which is to teach students to perceive life processes as events taking place at the molecular level. Only with such a view can the future doctor take an objective and exact opinion when deciding on the treatment procedure. The graduate masters the course of biochemical processes, is able to distinguish pathological processes from physiological processes at the level of reactions taking place in the cell. It perceives biochemical reactions in the cell as part of metabolism and understand the regularities of metabolism regulation.

Brief outline of the course:
Enzymes and their role in metabolism (e.g. kinetics of enzymatic reactions, coenzymes – the structure and function). Intermediary metabolism – cell biochemistry (e.g. macroergic compounds, respiratory chain, the citric acid cycle, oxidation stress). Carbohydrate metabolism (e.g. oxidative decarboxylation of pyruvate, glycolysis, gluconeogenesis, metabolism of glycogen). Degradation and synthesis of triacylglycerols and fatty acids. Metabolism of phospholipids, leukotriens, cholesterol, lipoproteins. Intermediary metabolism relationships between lipids and saccharides. Disorders of metabolism saccharides and lipids. More information: https://www.upjs.sk/lekarska-fakulta/en/department/medical-and-clinical-biochemistry/education/subjects/general-medicine/

Recommended literature:
Mareková M et al.: Medical Biochemistry - Lectures, 2021, https://portal.lf.upjs.sk/articles.php?aid=165
Ferrier D.: Biochemistry 7th edition (Lippincott Illustrated Reviews), 2017
Mareková M. et al.: Seminars from medical biochemistry, 2013
Mašlanková et al.: Practical exercises from Medical Biochemistry for students GM, 2021, https://portal.lf.upjs.sk/articles.php?aid=162
Rodwell v. et al.: Harper´s illustrated Biochemistry, 31st wddition, 2018
Baynes J.W., Dominiczak J.G.: Medical Biochemistry (Elsevier), 2018

Course language:
english

Notes:

Course assessment
Total number of assessed students: 3846

abs	abs-A	abs-B	abs-C	abs-D	abs-E	neabs
26.47	0.99	2.99	7.96	14.59	35.86	11.15

Provides: doc. RNDr. Marek Stupák, PhD., prof. Ing. Mária Mareková, CSc., doc. Mgr. Peter Urban, PhD., RNDr. Jana Mašlanková, PhD., doc. Ing. Beáta Hubková, PhD., doc. RNDr. Miroslava Rabajdová, PhD., univerzitná profesorka, doc. MUDr. Anna Birková, PhD., doc. RNDr. Vladimíra Tomečková, PhD., univerzitná profesorka, doc. RNDr. Lukáš Smolko, PhD., doc. Ing. Katarína Dubayová, PhD., doc. RNDr. Beáta Čižmárová, PhD., RNDr. Ivana Špaková, PhD.

Date of last modification: 17.02.2023

Approved: prof. MUDr. Peter Jarčuška, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: ULCHBKB/MBCH-GM2/20	**Course name:** Medical Biochemistry 2

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

Number of ECTS credits: 7

Recommended semester/trimester of the course: 4.

Course level: I.II.

Prerequisities: ULCHBKB/MBCH-GM1/20

Conditions for course completion:
lectures, practical exercisess, seminars, exam; more details.: https://www.upjs.sk/lekarska-fakulta/en/department/medical-and-clinical-biochemistry/education/subjects/general-medicine/

Learning outcomes:
The graduate will understand the course of biochemical processes of physiological life processes as events taking place in individual organs and tissues of man. He can distinguish basic pathological processes from physiological processes, while he perceives biochemical processes in individual organs and tissues as a part of cellular metabolism. The graduate masters the laws of biochemical regulation of metabolism and learns the basics of clinical-biochemical diagnostics.

Brief outline of the course:
Metabolism of amino acids (e.g. ammonia formation and urea synthesis, biogenic amines, biosynthesis of catecholamines). Metabolism of nucleotides. Intermediary metabolism relationships. Nucleic acids (e.g. replication, transcription, translation). Regulation of gene expression and gene engineering. Synthesis and modification of native proteins. Chemical communication in living systems (e.g. homrmones). Biochemistry of blood. Pathobiochemical processes in cell. Special metabolic processes (e.g. liver, kidney, metabolism of minerals and trace elements). Biochemistry and pathobiochemistry of digestion and nutrition. Metabolism of foreign compounds – xenobiochemistry. Introduction to clinical biochemistry. More details: https://www.upjs.sk/lekarska-fakulta/en/department/medical-and-clinical-biochemistry/education/subjects/general-medicine/

Recommended literature:
Mareková M et al.: Medical Biochemistry - Lectures, 2021, https://portal.lf.upjs.sk/articles.php?aid=165
Ferrier D.: Biochemistry 7th edition (Lippincott Illustrated Reviews), 2017
Mareková M. et al.: Seminars from medical biochemistry, 2013
Mašlanková J. et al.: Practical exercises from Medical Biochemistry for students GM, 2021, https://portal.lf.upjs.sk/articles.php?aid=162
Rodwell V. et al.: Harper´s illustrated Biochemistry, 31st wddition, 2018
Baynes J.W., Dominiczak J.G.: Medical Biochemistry (Elsevier), 2018

Course language:
english

Notes:

Course assessment
Total number of assessed students: 3375

A	B	C	D	E	FX
3.11	3.82	10.19	17.75	43.08	22.04

Provides: doc. RNDr. Lukáš Smolko, PhD., doc. MUDr. Anna Birková, PhD., doc. Mgr. Peter Urban, PhD., doc. Ing. Beáta Hubková, PhD., RNDr. Jana Mašlanková, PhD., doc. RNDr. Miroslava Rabajdová, PhD., univerzitná profesorka, doc. RNDr. Marek Stupák, PhD., doc. Ing. Katarína Dubayová, PhD., prof. Ing. Mária Mareková, CSc., RNDr. Ivana Špaková, PhD.

Date of last modification: 17.02.2023

Approved: prof. MUDr. Peter Jarčuška, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Medicine	
Course ID: ULBF/ MBF-GM/22	**Course name:** Medical Biophysics

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

Number of ECTS credits: 8

Recommended semester/trimester of the course: 2.

Course level: I.II.

Prerequisities:

Conditions for course completion:
The assessment of the student's knowledge in the teaching part of the period consists of the written tests on the exercises, reports on the measured topic and a written test on the topics from the lectures. Mandatory attendance at the lectures is at least 60%. The student must master the lecture topics at the final exam in the content and form presented, even when he has not participated in the lecture. The admittance for the final examination is allowed, if the student obtains at least 60% of the maximum theoretically attainable number of points during the semester.
The exam takes place in a written form (100%) by the full-time method. The condition for successfull passing of the exam is to elaborate an answer to at least 60% of the required knowledge.

Learning outcomes:
At the end of the course students will become familiar with the elementary knowledge about physical background of processes in human body on molecular, atomic and subatomic level. The students will understand physical principles of diagnostic and therapeutic devices, as well as biophysical effects in human body after application of biophysical technigues, encountered side effects and safe, efficient usage of medical devices in practice. Course will introduce also the subjects of molecular biophysics, membrane biophysics, and bioenergetics. As the aditional benefit from the course students will be able to address biophysical problems having close relationship to health and sickness in man.

Brief outline of the course:
Relation physics and medicine, Structure of matter, Nuclear radiation and its application in medicine, Magnetic resonance imaging, Lasers in medicine, X rays – the nature and physical properties, Conventional radiography and CT, Light absorption, Pulse oximetry, Ultrasound– physical characteristics, Medical application of ultrasound, Disperse system – classification and physical properties, Colligative properties of disperse systems, Transport processes – flow, diffusion, Membrane biophysics, Biomechanics, Biophysical characteristics of macromolecules, Biophysics of cardiovascular system, The interaction of the living matter with non ionizing as well as ionizing electromagnetic radiation, used in both - the therapy and diagnostics, Nanotechnology in the medicine.

Recommended literature:

Fundamentals of Biophysics and Medical Technology, I. Hrazdira, V. Mornstein et al., Masaryk University, Faculty of Medicine, Brno 2012
An Introduction to biophysics with medical orientation, edited by G.Rontó, I.Tarján, Akadémiai Kiadó, Budapest, 1991
Medical biophysics practical exercises, M. Legiň et al., VŠ učebné texty, Košice 2009

Course language:
English

Notes:

Course assessment
Total number of assessed students: 4372

A	B	C	D	E	FX
3.13	5.28	14.02	22.19	46.02	9.35

Provides: RNDr. Imrich Géci, PhD., RNDr. Martin Menkyna, PhD., RNDr. Michaela Šuliková, PhD., RNDr. Soňa Tkáčiková, PhD., doc. RNDr. Ján Sabo, CSc., univerzitný profesor, RNDr. Miroslav Marcin, PhD.

Date of last modification: 22.01.2024

Approved: prof. MUDr. Peter Jarčuška, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: ULCHBKB/MCH-GM/22	**Course name:** Medical Chemistry

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

Number of ECTS credits: 5

Recommended semester/trimester of the course: 1.

Course level: I.II.

Prerequisities:

Conditions for course completion:
lectures, seminars, practical exercise, exam;
more details: https://www.upjs.sk/lekarska-fakulta/en/department/medical-and-clinical-biochemistry/education/subjects/general-medicine/

Learning outcomes:
The graduate will acquire knowledge of general, physical, inorganic and bioorganic chemistry as well as methodologically very important - analytical chemistry. Graduates know the structures and functions of medically important substances, they will know the importance of acid-base properties of substances, energy processes and will understand the essence of chemical processes taking place in living systems. The acquired knowledge will contribute to a better understanding of the functions of the whole organism and is the basis for successful mastery and correct completion of medical biochemistry, which is a good theoretical basis for several medical disciplines.

Brief outline of the course:
Properties of disperse systems and biological importance of water. Buffer solutions and pH calulation (titration). Colloid systems. Thermodynamics and kinetics of chemical reactions. Biochemical aspects of redox reactions. Elements and their compounds in medicine. Solution (concentration, dilution - calculations). Organic chemistry (e.g. heterocyclic compounds, carboxylic acids). Saccharides. Lipids. Amino acids. Proteins. Nucleic acids. Natural compounds (e.g. vitamins).
More details: https://www.upjs.sk/lekarska-fakulta/en/department/medical-and-clinical-biochemistry/education/subjects/general-medicine/

Recommended literature:
Mareková M. et al.: Medical Chemistry - Lectures for GM students, 2021, https://portal.lf.upjs.sk/articles.php?aid=250
Stupák M. et al.: Medical Chemistry - "hand book" for student GM and DM, 2018, https://portal.lf.upjs.sk/articles.php?aid=69, 2018
Urban P. et al.: Chemistry – Repetitorium, 2017, https://portal.lf.upjs.sk/articles.php?aid=236
Stupák M. et al.: Medical Chemistry - Calculation, 2017, https://portal.lf.upjs.sk/articles.php?aid=232

Országhová Z., Žitňanová I. et al.: Medical chemistry, 2008

Course language:
english

Notes:

Course assessment
Total number of assessed students: 2981

A	B	C	D	E	FX
3.35	5.74	11.44	22.14	42.91	14.42

Provides: doc. MUDr. Anna Birková, PhD., doc. RNDr. Lukáš Smolko, PhD., RNDr. Ivana Špaková, PhD., doc. RNDr. Vladimíra Tomečková, PhD., univerzitná profesorka, doc. Ing. Beáta Hubková, PhD., RNDr. Jana Mašlanková, PhD., doc. RNDr. Miroslava Rabajdová, PhD., univerzitná profesorka, doc. RNDr. Marek Stupák, PhD., doc. Ing. Katarína Dubayová, PhD., doc. Mgr. Peter Urban, PhD., prof. Ing. Mária Mareková, CSc., doc. RNDr. Beáta Čižmárová, PhD., RNDr. Katarína Fiedlerová, RNDr. Monika Švecová, PhD., RNDr. Ivana Večurkovská, PhD.

Date of last modification: 17.02.2023

Approved: prof. MUDr. Peter Jarčuška, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Medicine	
Course ID: CJP/ LFMCS/11	**Course name:** Medical Communication in Slovak

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

Number of ECTS credits: 2

Recommended semester/trimester of the course: 3.

Course level: I.II.

Prerequisities: Dek. LF UPJŠ/SL-GM1/09 or Dek. LF UPJŠ/SL-GM2/15 or Dek. LF UPJŠ/SL-DM2/15 or Dek. LF UPJŠ/SL-DM1/09

Conditions for course completion:
Active participation is required. Students are not allowed to have more than 2 absences during the semester. There are 2 written tests (weeks 7 and 13). The result of each test must be at least 60%. Students are given the opportunity to retake the tests in the last week of the semester (week 14). Students with a result lower than 60% are not allowed to register for the final exam, i.e., their final grade is FX. The final assessment is based on the result of the final written exam. Grading scale: A 100-91%, B 90-84%, C 83-75%, D 74-68%, E 67-60%, FX 59%. The study form: in person/ distance/combined in accordance with epidemiological situation and the Rector's ordinances.

Learning outcomes:
After completing the course, students are able to communicate with patients in various departments in the hospital. They can take a history using specific questions and giving instructions to the patients depending on the department/clinic.

Brief outline of the course:
Basic Doctor-Patient Communication. Formal and Informal You in Slovak. General Communication Depending on the Environment (Pharmacy, Hospital, Outpatient Department). Basic Medical Anamneses in the Slovak Language - General Anamnesis, Patient Admission. Family History and Past Illnesses. Pain - Time Factors, Types and Causes of Pain. Creating a Medical Report. Drug History - Types of Drugs, Contraindications, Side Effects. Neurological Examination. Unpleasant Examinations. Orthopaedic Examination. Basic Phrases, Creating Dialogues, Reading Comprehension. Surgical Examination. Injuries We Might Encounter at the Department of Surgery- Discussion. Cardiovascular Examination.

Recommended literature:
Materials prepared by teachers in print and electronic forms.

Course language:
Slovak Language A1.1 - A1.2

Notes:

Course assessment Total number of assessed students: 351					
A	B	C	D	E	FX
51.85	15.38	13.68	9.12	6.55	3.42
Provides: Mgr. Veronika Pálová, PhD.					
Date of last modification: 16.09.2024					
Approved: prof. MUDr. Peter Jarčuška, PhD.					

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Medicine	
Course ID: UVZH/ MEc-GM/15	**Course name:** Medical Ecology

Course type, scope and the method:
Course type: Lecture / Practice
Recommended course-load (hours):
Per week: 0 / 1 **Per study period:** 0 / 14
Course method: present

Number of ECTS credits: 2

Recommended semester/trimester of the course: 3.

Course level: I.II.

Prerequisities: ULBL/B-GM1/09

Conditions for course completion:
Attendance at practical lessons, preparation of final semester report which will be evaluated.
Active participation and discussion on seminars.
The final exam: test minimum 60%

Learning outcomes:
Students will acquire knowledge about the relationship between human exposure and the environment, will receive the knowledge about mutual interaction and consequences of human activities on the quality of the environment. They will identify options for addressing governmental protective measures and preventive activities as to prevent the damage of the health and the environment.

Brief outline of the course:
Fundamental of ecology. Basic factors in ecology influencing on health. Methods of epidemiological work, the strategy on environment and health. Biological features of human population. Adaptation of man on the environment. Adaptability. Forms of stress. Global perspective in terms of human ecology. Urban environment and health risks. The components of the environment (atmosphere, hydrosphere, lithosphere, waste) and health, the possible environmental impact of the polluted environment on population health, health risks. The inorganic and organic pollutants. Allergies, allergens, distribution, concepts, preventive measures. Effects of different factors on health (physical, chemical, biological, microbiological factors, infectious risk factors and disease, presence in the environment and working environment). Ecology of parasites and pathogen emergence and spread conditions, effects on human health (cause disease and prevention). Cancer disease and prevention. The impact of carcinogens in living and working environment, risk of cancer - for gastrointestinal tumors, respiratory system, blood, sexual organs of men and women skin. Cancer risk prevention.

Recommended literature:
1. RIMÁROVÁ, K.: Environmental medicine – hygiene. Košice, Univerzita Pavla Jozefa Šafárika v Košiciach, 2006. - 148 s. - ISBN 80-7097-646-2.
2. RIMÁROVÁ, K.: Compendium of Hygiene. Košice, Univerzita Pavla Jozefa Šafárika, 2014. - 210 s. - ISBN 9788081521676 (brož.).
3. KOLARZYK, E.: Selected topics on hygiene and human ecology. Edited by

http://www.e-nujag.cm-uj.krakow.pl/materialy/higiena/main.pdf. 4. Paustenbach, D.J.: The Risk Assessment of Environmental and Human Health Hazards: Textbook of Case Studies, 1989, 220 s., ISBN. 978-0471849988.

Course language:
English

Notes:

Course assessment
Total number of assessed students: 635

A	B	C	D	E	FX
15.59	14.65	17.95	24.57	24.41	2.83

Provides: prof. MUDr. Kvetoslava Rimárová, CSc.

Date of last modification: 27.03.2023

Approved: prof. MUDr. Peter Jarčuška, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Medicine	
Course ID: CJP/ LFME/11	**Course name:** Medical English
Course type, scope and the method: **Course type:** Practice **Recommended course-load (hours):** **Per week:** 1 **Per study period:** 14 **Course method:** present	
Number of ECTS credits: 2	
Recommended semester/trimester of the course: 3.	
Course level: I.II.	
Prerequisities: KKF/LFMT/07	
Conditions for course completion: Test, attendance. Final exam - test. Grading scale: A 100-93 %, B 92-85 %, C 84-77 %, D 76-69 %, E 68-60 %, FX 59% and less.	
Learning outcomes: The development of students´ language skills (reading, listening, speaking), improvement of their linguistic competence (fonological, lexical and syntactic aspects), and pragmatic competence, students students can efectively use the language for a given purpose, with focus on English for specific/professional purposes - General medicine, level B2.	
Brief outline of the course: Medical English. Vocabulary and pronunciation. Formal/informal, technical (medical)/common vocabulary. The human body. Functions of the human body. Diseases and their symptoms. Functional grammar - defining, classifying, expressing function.	
Recommended literature: Glendinning, E.H.- Howard, R.: Professional English in Use – Medicine, CUP, 2007 Fitzgerald, P., McCullagh, M., Wright, R.: English for Medicine in Higher Education Studies. Garnet Education, 2010 http://www.bbc.co.uk/worldservice/learningenglish	
Course language: English language, level B2 according to CEFR.	
Notes:	

Course assessment Total number of assessed students: 2302					
A	B	C	D	E	FX
35.53	18.9	16.9	13.21	12.03	3.43
Provides: PhDr. Marianna Škultétyová, Mgr. Zuzana Kolaříková, PhD.					
Date of last modification: 21.11.2024					
Approved: prof. MUDr. Peter Jarčuška, PhD.					

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Medicine	
Course ID: USL/ ME-GM/16	**Course name:** Medical Ethics

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

Number of ECTS credits: 2

Recommended semester/trimester of the course: 3.

Course level: I.II.

Prerequisities:

Conditions for course completion:
Attendance on lectures and seminars to the specified extent, successful completion of a credit test and oral exam. Detailed conditions for mandatory participation and forms of evaluation are available on the department's website.
https://www.upjs.sk/en/faculty-of-medicine/department/forensic-medicine/teaching/courses/dr/

Learning outcomes:
The student acquires knowledge of ethical dimension and requirements of health care profession, and learns how to recognize principles of medical ethics in solving complicated ethical issues in selected areas of medical practice, such as informed consent of the patient, terminally ill and dying patients, euthanasia, assisted suicide, biomedical research, etc.

Brief outline of the course:
Ethics and morality. Bioethics and Medical Ethics. Landmark events in the evolution of bioethics. Global ethics and bioethics. Goals and ethical aspects of health care. Medical ethics. The basic principles of medical ethics. Ethical dilemma. The ethics of medical education. UPJŠ in Košice Code of Student Conduct. Hippocratic Oath. Physician's Pledge. Character requirements for medical profession. WMA International Code of Medical Ethics. Ethical Code for Health Care Providers in Slovakia. Important international conventions and declarations relevant to the health care professions. Patients' rights. Slovak Medical Chamber and Health Care Surveillance Authority in Slovakia. Human dignity in health care. Doctor – patient relationship. Informed consent/refusal – ethical and legal issues. Previously expressed wish of the patient. Communication in medical care. Guide to medical interview. Approach to specific patient groups. Burnout syndrome in medical profession. Ethical and legal issues in pediatrics. The rights of hospitalized children. Elderly patient. Risks in the hospital by elderly patients. Terminal illness. Ethical aspects of resuscitation and intensive care. Futile treatment. Dying patient – ethical and legal issues. Ethical issues in thanatology. Euthanasia and dysthanasia. Assisted suicide. Ethical aspects of organ and tissue transplantation. Living and dead donors. Ethical status of the dead human body. Ethics of autopsy and exhumation. Ethical aspects of examination in forensic medicine and pathology. Reproductive medicine and responsible parenthood. Methods used to achieve or prevent pregnancy. Surrogacy. Ethical issues of abortions. Surrogacy. Ethical issues in selected medical divisions [neonatal and fetal medicine, gynecology and obstetrics, surgery, nephrology, psychiatry, prehospital emergency

care]. Ethics of expert activities in medicine. Ethics in biomedical research. Ethical and legal regulations regarding biomedical research involving human subjects. Ethical issues in animal experimentation. Ethics Committees. Publication ethics. Ethical issues in human genetics and genomics. Genetic testing and preimplantation genetic diagnosis. Gene therapy and genetic manipulation. Ethics of 'designer babies'. Ethical aspects of human cloning. Ethical issues in stem cell research and therapy.

Recommended literature:

BOBROV, N., FARKAŠOVÁ IANNACCONE, S., SOPKOVÁ, D., NERANTZAKIS, I. Medical Ethics. Košice: Pavol Jozef Šafárik University, 2017.
BOYLAN, M. Medical Ethics. 2nd edition. New York: Wiley-Blackwell, 2014.
TALBOT, M. Bioethics: an introduction. Cambridge: Cambridge University Press, 2012.
JONSEN, A. R., SIEGLER, M., WINSLADE, W. J. Clinical Ethics: A Practical Approach to Medical Decisions in Clinical Medicine. 6th edition. New York: The McGraw-Hill Company Inc., 2007.
HOPE, T. Medical Ethics: A Very Short Introduction. New York: Oxford University Press Inc., 2004.
CAMPBELL, A., GILLETT, G. and JONES G. Medical Ethics. 3rd edtion. Victoria: Oxford University Press, 2001.

Course language:
English

Notes:

Course assessment
Total number of assessed students: 3690

A	B	C	D	E	FX
56.48	22.74	11.11	5.2	3.2	1.27

Provides: doc. MUDr. Silvia Farkašová Iannaccone, PhD., MUDr. Ingrid Nerantzakis, MUDr. Dorota Sopková, PhD., MBA, MUDr. Viktória Briškárová, MUDr. Michaela Pristášová

Date of last modification: 21.07.2021

Approved: prof. MUDr. Peter Jarčuška, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: ULI/ MInf-GM/09	**Course name:** Medical Informatics

Course type, scope and the method:
Course type: Lecture / Practice
Recommended course-load (hours):
Per week: 0 / 2 **Per study period:** 0 / 28
Course method: present

Number of ECTS credits: 2

Recommended semester/trimester of the course: 1.

Course level: I.II.

Prerequisities:

Conditions for course completion:
1. 100% and active attendance.
2. Min. 60% from each test during the term.
3. Elaboration of all assigned tasks.

Learning outcomes:
Master the basic concepts, procedures and means of information and communication technologies that are necessary for understanding the principles of working with data in the electronic healthcare environment. Achieve computer literacy among students at a level that will allow them to effectively use elements of informatics when processing various assignments, tasks, student professional activities as well as scientific papers. Master the work with database systems, basic statistical data processing, orientation in information sources of evidence-based medicine and understand the essence of the functioning of information systems in healthcare.

Brief outline of the course:
Basic terms, informatics, information technologies, eHealth, electronic health record, ePrescription, eAllocation, DRG, telemedicine. Database system, relational database structure, creating forms, searching for information in the database, filtering and sorting records, creating queries, working with reports. IS in healthcare. Introduction to biomedical statistics, sorting and filtering data, descriptive statistics, frequencies. Evidence-based medicine. Terminology in medicine.

Recommended literature:
1. Majerník J., Švída M., Majerníková Ž.: Medicínska informatika, UPJŠ, Košice 2010, Equilibria, ISBN 978-80-7097-811-5.
2. Majerník J., Kačmariková A.: Databázy v MS Access - sprievodné texty k praktickým cvičeniam, UPJŠ, ŠafárikPress, Košice 2023, ISBN 978-80-574-0236-7, DOI: https://doi.org/10.33542/DMA-0236-7.
3. Majerník J., Kačmariková A., Urbanská L.: Databázy v MS Access. Multimediálna podpora výučby klinických a zdravotníckych odborov :: Portál UPJŠ LF, <http://portal.lf.upjs.sk/clanky.php?aid=57>. ISSN 1337-7000.
4. Majerník J.: Základy (bio)štatistiky pre medikov, UPJŠ, ŠafárikPress, Košice 2021, Equilibria, ISBN 978-80-574-0066-0.

5. Majerník J., Urbanská L., Kačmariková A.: Úvod do (bio)štatistiky. Multimediálna podpora výučby klinických a zdravotníckych odborov :: Portál UPJŠ LF, <http://portal.lf.upjs.sk/clanky.php?aid=112>. ISSN 1337-7000.
6. Poznámky z cvičení, príručky k používaným softvérovým nástrojom a informačným systémom.

Course language:
English

Notes:

Course assessment
Total number of assessed students: 4548

abs	abs-A	abs-B	abs-C	abs-D	abs-E	neabs
27.77	4.6	9.15	20.12	19.2	12.14	7.04

Provides: doc. Ing. Jaroslav Majerník, PhD., Ing. Andrea Kačmariková, PhD., Ing. Lenka Urbanská, PhD.

Date of last modification: 07.02.2025

Approved: prof. MUDr. Peter Jarčuška, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Medicine	
Course ID: USL/ ML-GM/16	**Course name:** Medical Law

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

Number of ECTS credits: 2

Recommended semester/trimester of the course: 8., 10.

Course level: I.II.

Prerequisities: KKF/LFMT/07 and UO/NC-GM2/09

Conditions for course completion:
Attendance on lectures and seminars to the specified extent, successful presentation of seminar work. Detailed conditions for mandatory participation and forms of evaluation are available on the department's website.
https://www.upjs.sk/en/faculty-of-medicine/department/forensic-medicine/teaching/courses/dr/

Learning outcomes:
Every doctor is obliged to practice his profession in accordance with generally binding legal regulations. Knowledge of the legal norms concerning provision of health care, basic duties of a health care professional, as well as basic rights and obligations of patients, is therefore a necessary requirement of every future doctor. The aim of teaching the subject Medical Law is development of legal thinking required for everyday situations arising during the provision of health care such as informed consent of the patient, management and access to the medical records, resolution of legal issues in the relationship between the doctor and the patient, the doctor and his/her colleagues, and the doctor and the employer, medical errors, expert activities, and cooperation with state authorities, including law enforcement agencies.

Brief outline of the course:
Medical law. Health care regulations in different countries. Rights and duties of people during provision of health care. Patients' rights. Health insurance, medicine and law. Health Care Surveillance Authority and its role in Slovak Republic. International organizations in health care. Legal requirements to medical profession. Rights and duties of health care professionals: doctor, nurse, medical laboratory technician. De lege artis. Confidentiality in medicine. Informed consent in medical care. Informed refusal in medical care. Difficult patient – legal approach. Types of legal responsibilities of the doctor. Duty of care. Medical malpractice: errors, mistakes, negligence. Civil vs. criminal case of medical malpractice. Legal issues related to the dying patient. Withholding and withdrawing life sustaining treatment. Physician assisted dying. Legal aspect of autopsy practice. Legal status of human corpse. Legal issues in reproductive medicine. Assisted reproduction. Surrogacy. Abortion laws. Legal regulations of biomedical research. Animal experimentation. Research involving human subjects. Legal regulations of genetic testing and therapy. Legal regulations of stem cell research and human cloning. Expert activity in health care.

Doctor as a witness. Doctor as an expert witness. Compensation of pain and deteriorated work capacity.

Recommended literature:

BUCHANAN, A. Justice & Health Care. New York: Oxford University Press, Inc., 2009.
VEITCH, K. The Jurisdiction of Medical Law. Hampshire: Ashgate Publishing Limited, 2007.
WELLMAN, C. Medical Law and Moral Rights. Dordrecht: Springe, 2005.
DEVEREUX, J. Medical Law. 2nd edition. Newport: Cavendish Publishing, 2002.

Course language:

English

Notes:

Maximum class size is 20 students.

Course assessment

Total number of assessed students: 39

A	B	C	D	E	FX
94.87	2.56	2.56	0.0	0.0	0.0

Provides: doc. MUDr. Silvia Farkašová Iannaccone, PhD., MUDr. Dorota Sopková, PhD., MBA, MUDr. Viktória Briškárová, MUDr. Ingrid Nerantzakis

Date of last modification: 21.07.2021

Approved: prof. MUDr. Peter Jarčuška, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Medicine	
Course ID: KKF/ LFMT/07	**Course name:** Medical Terminology

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

Number of ECTS credits: 2

Recommended semester/trimester of the course: 1.

Course level: I.II.

Prerequisities:

Conditions for course completion:
PLEASE READ: Some parts of lessons may continue as distance e-learning. Students must follow NEWS BOARD (see point 5).
1)ACTIVE PARTICIPATION has effect on the final mark. It consists of: being 100 % present on every class in the winter semester, cooperation with the teacher, preparing given homework. Each of the students has maximum of 2 absences. The student that has more than 2 absences (without providing legitimate official documents explaining the reason of missed classes) will be excluded from taking pre-term exam (see Notes) or can be considered to fail the subject Medical Terminology.
2)HOMEWORK is compulsory. For each lesson, the students are expected to prepare any kind of homework that teacher gives as it is fundamental for the final exam.
3)TWO CREDIT TESTS DURING THE SEMESTER. There will be two written short tests focused on translation of medical terms. Each of the tests has 20 points maximum (therefore 40 points together). These points will be counted in the final exam's points.
4)FINAL EXAM. The final exam test itself has 110 points maximum. All three parts together (two short tests + final exam) have 150 points maximum. Students need more than 89 points out of 150 (60%) from all three parts together to pass the Medical Terminology subject. Maximum of points (all three parts together) is presented here:
SCALE:
A = 150 - 139
B = 138 - 127
C = 126 - 114
D = 113 - 102
E = 101–90
FX = 89 – 0
5) NEWS BOARD. It is mandatory for every student to follow all the news that will be uploaded on this page: https://upjsmedicalterminology.blogspot.com
Students can find there: information about cancellation of classes, change of rooms, information for tests and exams, all the additional information and documents for homeworks, etc.

Learning outcomes:
The aim of the Medical Terminology is to provide students with the basics of Latin and Greek medical terms that are necessary for further study of medicine. After completing the course, the

student classifies Latin nouns and adjectives into individual declensions. Based on the acquired grammar rules, the student translates medical terms from Latin into English and vice versa. The student identifies individual parts of words and on this basis correctly derives the meaning of individual terms in Latin and also in English.

Brief outline of the course:

The whole course is based on the book: KAVEČANSKÁ, A., & ŠALAMON, P. (2017). The basics of Graeco-Latin medical terminology (First edition.). Košice: University of Pavol Jozef Šafárik in Košice

1. week: Introduction to Medical Terminology
2. week: UNIT 1 - 1st Latin and Greek declensions, adjectives
3. week: UNIT 2
4. week: UNIT 3
5. week: UNIT 4 + UNIT 6
6. week: CREDIT TEST 1 + UNIT 5
7. week: UNIT 7
8. week: UNIT 8
9. week: UNIT 9 + repetition
10. week: CREDIT TEST 2 + UNIT 10
11. week: UNIT 11
12. week UNIT 12
13. week: UNIT 13 + repetition

Recommended literature:

KAVEČANSKÁ, A., & ŠALAMON, P. (2017). The basics of Graeco-Latin medical terminology (First edition.). Košice: University of Pavol Jozef Šafárik in Košice
BUJALKOVÁ, M., JUREČKOVÁ, A. (2004). Introduction to latin medical terminology. Bratislava: Univerzita Komenského.
ČERNÝ, K. (2013). Guide to Basic Medical Terminology. Praha: Karolinum.
SVOBODOVÁ, D. (2006). An introduction to Greco-Latin Medical Terminology. 3. vyd. Praha: Karolinum.
COHEN, B. J., & DePETRIS, A. (2014). Medical terminology: An illustrated guide (7th ed.). Philadelphia: Wolters Kluwer Health/Lippincott Williams & Wilkins.
DORLAND, I. (1988). Dorland´s illustrated medical dictionary (27th ed.). Philadelphia ; London ; Toronto: W. B. Saunders Company.
NETTER, F. H. (2006). Atlas of human anatomy (4th ed.). Philadelphia, Pa.: Saunders.
Recommended online courses and exercises:
https://medterminology.com

Course language:

English language

Notes:

PRE-TERM FINAL EXAM. Only those students that will have 100% full attendace record (list) with no absences will be allowed to take a pre-term final exam.

Course assessment

Total number of assessed students: 5081

A	B	C	D	E	FX
11.97	13.52	17.87	21.02	31.73	3.9

Provides: PhDr. Pavol Šalamon, Mgr. Alexandra Kavečanská, PhD., prof. PhDr. František Šimon, CSc.
Date of last modification: 14.09.2024
Approved: prof. MUDr. Peter Jarčuška, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Medicine	
Course ID: NLK/ NL-GM1/19	**Course name:** Neurology 1

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

Number of ECTS credits: 4

Recommended semester/trimester of the course: 7.

Course level: I.II.

Prerequisities: (UA/A-GM3/17 or UA/A-GM2/22)

Conditions for course completion:
1. Active participation in practical exercises.
2. Practical examination of the neurological patient.
3. Successful completion of the test, evaluation A – E (possibility to repeat the test 2 times).
4. Successful passing the final exam.
5. Attendance at the lectures is optional..

Learning outcomes:

Brief outline of the course:
Neurology - general considerations. History taking. Cranial nerves I-XII, anatomy, physiology, pathology. Affection of the upper and the lower motor neurons – anatomic and physiologic considerations, diagnosis of paralytic states – lesion of corticospinal tract, brain stem syndromes, lower motor neuron lesions. Sensation. Anatomy, pathology. Cerebellum. Anatomy. Paleocerebellar and neocerebellar syndromes. Disorders of stance and gait. Extrapyramidal system. Hypertonic - hypokinetic syndrom. Hypotonic - hyperkinetic syndrom. Dystonia. Language and higher cortical function. Physiological and anatomical considerations. Language disorders, brain lobes pathology. Consciousness and unconsciousness. Causes of unconsciousness, quantitative disorders of consciousness: drowsiness, stupor, coma. The investigation of unconscious patient. Glasgow coma scale. Delirium. Brain death.Meningeal syndrom. Cerebrospinal fluid. Physiology, pathology. Lumbar puncture. Intracranial hypertension. Herniation of the brain – temporal, occipital. Plane X-ray of the skull and spine. Computer tomography of the brain and spinal column. MRI of the brain and spinal cord. PET, SPECT, DAT SCAN. Neurophysiological examination in neurology.
Evoked potentials, electromyography. General considerations, clinical value. Electroencephalography. Polysomnography. Ultrasound examintaion in neurology. Duplex ultrasound of extracranial and intracranial cerebral arteries. Angiography of cerebral arteries. General considerations, clinical value. Head injury. Concussion, subdural, epidural hematoma, contusion of the brain. Spinal column and spinal cord injury. Dementia. Diagnosis, diferencial diagnosis. Alzheimer disease, Lewy body disease, frontotemporal dementia. Vascular dementia, other dementias. Diagnostic, therapy. Sleep disorders. Hypersomnia of the CNS origin. Restless leg syndrome. Developmental diseases of the nervous system. Cranial abnormities, cerebral

palsy, fakomatosis, neurofibromatosis (M. Recklinghausen,) angiomatosis, myelodysplazy, syringomyelia.

Recommended literature:

Literature:

Gdovinová Z., Szilasiová J.: Textbook of general neurology. Košice : Aprilla Ltd. for Hanzluvka Books, 2009. 189 s. ISBN 9788089346158 (brož.), also 3d edition 2019, ISBN 978-1-259-83531-5, ISSN 1932-1074

Brust J.C.M.: Neurology. Current Diagnosis and treatment. Lange Medical Books/McGraw-Hill, 2007. 601 pp. ISBN: 13: 978-0-07-110554-5, also 3d edition 2019, ISBN 978-1-259-83531-5, ISSN 1932-1074

Course language:

english language

Notes:

Course assessment

Total number of assessed students: 2362

abs	abs-A	abs-B	abs-C	abs-D	abs-E	neabs
22.9	9.1	9.06	19.6	22.1	16.09	1.14

Provides: prof. MUDr. Zuzana Gdovinová, CSc., FESO, FEAN, prof. MUDr. Jarmila Szilasiová, PhD., MUDr. Mária Tormašiová, PhD., doc. MUDr. Eva Feketeová, PhD., MUDr. Norbert Leško, PhD., doc. MUDr. Marianna Vitková, PhD., prof. MUDr. Matej Škorvánek, PhD., MUDr. Vladimír Haň, PhD., MUDr. Milan Maretta, PhD., MUDr. Miroslav Benča, MUDr. Petra Paveleková, PhD., MUDr. Alexandra Lacková, PhD., MUDr. Joaquim Maria de Santa Cruz Ribeiro Ven, PhD., MUDr. Dominik Koreň, PhD., MUDr. Kristína Kulcsárová, PhD., MUDr. Miriama Ostrožovičová, PhD.

Date of last modification: 09.03.2023

Approved: prof. MUDr. Peter Jarčuška, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: NLK/ NL-GM2/22	**Course name:** Neurology 2

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

Number of ECTS credits: 5

Recommended semester/trimester of the course: 8.

Course level: I.II.

Prerequisities: NLK/NL-GM1/19

Conditions for course completion:
1. 100 % participation in practical exercises in the distance form at the time of their holding, can be replaced by maximum of 3 exercises
2. Passing the ROGO test with a minimum of 60% achieved in the test
3. The condition for registering for the exam is the fulfillment of conditions 1-2.
4. Only students who pass the Neurology 2 test with a grade A or B can apply for the preterm.
5. The condition for passing Neurology 2 is successful completion of oral exam in regular term or 1st or 2nd repeat exam.

Learning outcomes:

Brief outline of the course:
Epilepsy and seizures. Classification, generalized and partial seizures. Diagnostic, therapy. Febrile convulsions. Ischemic stroke. Risk factors, clinical feature, diagnosis, therapy. Brain haemorrhage, subarachnoid haemorrhage. Risk factors, clinical feature, diagnosis, therapy. Brain tumors. Classification, clinical feature, general and focal signs, diagnostic, therapy. Brain MTS. Paraneoplastic disorders. Pseudotumor cerebri. Demyelinating disorders - multiple sclerosis. Infectious disorders of the nervous system –menin gitis, encephalitis. Neurosyfilis. Lyme disease. AIDS. Brain abscess. Polyradiculoneuritis Guillain-Barre. Muscle diseases. Metabolic disorders.

Recommended literature:
Gdovinová Z., Szilasiová J.: Textbook of general neurology. Košice : Aprilla Ltd. for Hanzluvka Books, 2009. 189 s. ISBN 9788089346158 (brož.).
Brust J.C.M.: Neurology. Current Diagnosis and treatment. Lange Medical Books/McGraw-Hill, 3rd edition, 2019. 624 pp. ISBN: 13: 978-1259835315, ISBN-10: 1259835316

Course language:
english language

Notes:

Course assessment
Total number of assessed students: 2204

A	B	C	D	E	FX
14.61	15.88	20.96	15.97	20.15	12.43

Provides: prof. MUDr. Jarmila Szilasiová, PhD., doc. MUDr. Eva Feketeová, PhD., prof. MUDr. Matej Škorvánek, PhD., MUDr. Vladimír Haň, PhD., prof. MUDr. Zuzana Gdovinová, CSc., FESO, FEAN, MUDr. Milan Maretta, PhD., MUDr. Miroslav Benča, MUDr. Alexandra Lacková, PhD., MUDr. Petra Paveleková, PhD.

Date of last modification: 09.03.2023

Approved: prof. MUDr. Peter Jarčuška, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: KNM/ NM-GM/23	**Course name:** Nuclear Medicine

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

Number of ECTS credits: 2

Recommended semester/trimester of the course: 7.

Course level: I.II.

Prerequisities: ULBF/MBF-GM/22 and UFZ/Ph-GM2/14

Conditions for course completion:
During semester the students will pass 2 checkpoints – each for one credit. Students with results A-C can pass the preterm and other will pass the standard oral exam in normal term. Students with both results Fx – cannot go on exam and must repeat course in next semester.

Learning outcomes:
Students will understand the principles of Nuclear medicine. The diagnostics and therapy by NM methods and known indications; contraindications of the method and prepare of patients for them. Understand methods of radioprotection, new methods in imaging and its place in diagnostic process

Brief outline of the course:
1. Principals and history of nuclear medicine;
2. Principals and methods of radioprotection in medicine;
3. Radiopharmaceuticals (RF): definitions, methods of preparing and quality control;
4. The instrumentation in nuclear medicine: Gamma camera, SPECT and PET hybrid methods with CT and MRI tomography and principals of metabolic imaging and image quantification;
5. Bone scintigraphy in orthopedics and oncology and therapy of bone MTS;
6. Diagnostic proces in nuclear medicine, quality, indications, evaluation of examinations;
7. Nuclear cardiology and diagnostics of pulmonary diseases by radionuclide methods;
8. Nuclear medicine in endocrinology diagnostics and therapy and per operative detection;
9. Radionuclide diagnostics in oncology, diagnostic and therapy by RF – Teranostics;
10. Radionuclide diagnostics in nephrology specifics in diagnostics of children;
11. Nuclear medicine in gastroenterology diagnostics and therapy of liver tumors by RF;
12. Evidence based medicine in imaging – principles of method selections and interpretation;
13. Radionuclide methods in brain imaging.
14. Telemedicine in radiology and nuclear medicine and artificial intelligence in imaging - Radiomics

Recommended literature:
Mettler F.A.- Guiberteau, M.J.: Essentials of Nuclear Medicine and Molecular Imaging 7th ed. 2019

Course language:

English language

Notes:

Course assessment
Total number of assessed students: 2384

A	B	C	D	E	FX
12.67	20.93	24.71	20.55	16.74	4.4

Provides: doc. MUDr. Ján Lepej, CSc., MUDr. Igor Marin, MBA

Date of last modification: 15.05.2023

Approved: prof. MUDr. Peter Jarčuška, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Medicine	
Course ID: IK/O-GM/22	**Course name:** Obesitology

Course type, scope and the method:
Course type: Lecture / Practice
Recommended course-load (hours):
Per week: 0 / 1 **Per study period:** 0 / 14
Course method: present

Number of ECTS credits: 2

Recommended semester/trimester of the course: 10.

Course level: I.II.

Prerequisities: IK/IP-GM/15 and IK/PSM-GM/22

Conditions for course completion:
For successful obtained of the credits from subject is necessary:
- By completing the course, the student will understand the issues of obesity as a disease, the principle of etiopathogenesis, diagnosis and treatment options. The student will be able to evaluate a patient with obesity, recognizes the multidisciplinary nature of obesity as part of the metabolic syndrom and manage it.
- To participate at all of practical exercises, theoretical and practical performance of all seminars,excused two absences.
- To get at least 60 % of total score for ongoing review of written test and the theoretical training to practical exercises.
- Evaluation: Study rules of procedure UPJŠ in Košice, the Faculty of Medicine, Part II, Art13
- the final classification includes the evaluation of the written test and the results obtained in practical exercises

Learning outcomes:
Case study processing - obtaining max. 10 points.
The student demonstrates the ability to diagnose and treat through a clear and concise case report of an obese patient.
The student submits the case report by the end of the 10th week of teaching.
Epidemiology, etiology, diagnosis of obesity, communication with an obese patient, conservative treatment of obesity, surgical treatment of obesity - obtaining max. 10 points.
Within the case study processing, the student will critically re-evaluate the proposed treatment model, his / her own originally proposed procedure, the form of communication based on evidence-based medicine and evaluate the strengths and weaknesses.
The processing of the analysis is handed over at the end of the semester.
Mandatory active participation in seminars - obtaining max. 12 points.
Content standard :
The student demonstrates knowledge and skills in the field of content, which is given by the content of the result of education and a wide range of recommended literature.

Brief outline of the course:

Epidemiology, etiology, diagnosis of obesity, temporal and professional approach to treatment. Conservative treatment of obesity based on four basic pillars: influencing dietary patterns, physical activity, cognitive-behavioral approach aimed at permanent lifestyle change and pharmacotherapy and / or bariatric surgery. The multidisciplinary nature of obesity issues based on evidence-based medicine.

Recommended literature:

1. Peter G.Kopelman, WilliamH. DietzClinical Obesity in Adults and Children 4e
ISBN: 1119695279John Wiley and Sons Ltd 2022
2. Robin P.BlackstoneObesity,The Medical Practitioner's Essential Guide
ISBN: 331939407XSpringer International Publishing AG 2016

Course language:

English

Notes:

The subject Obesitology is provided only in the summer term.

Course assessment

Total number of assessed students: 15

abs	abs-A	abs-B	abs-C	abs-D	abs-E	neabs
0.0	73.33	20.0	0.0	0.0	0.0	6.67

Provides: MUDr. Ivan Majerčák, MPH

Date of last modification: 17.03.2023

Approved: prof. MUDr. Peter Jarčuška, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: OK/OF-GM/13	**Course name:** Ophthalmology

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

Number of ECTS credits: 3

Recommended semester/trimester of the course: 10.

Course level: I.II.

Prerequisities: UPF/PP-GM2/16 and IK/IM-GM3/22

Conditions for course completion:
Test
Oral exam

Learning outcomes:
Basic knowledge of Ophthalmology, especialy most common causes leading to blidness, acute diseases and general medicine aspects of Ophthalmology

Brief outline of the course:
Loss of vision, Ocular pain and discomfort,Abnormal appearance, Abnormal eye movement, Double vision and squint,Traumatology of the eye,The eye systemic disease,Pharmacology of the eye

Recommended literature:
Lectures, Jogi, R.: Basic Ophthalmology, Kozák, I., Juhás, T. : Ophthalmology Outline, Košice, 2004, Ahmed, E.: Test Book of Ophthalmology, Oxford University, Press, 1998,

Course language:
english

Notes:

Course assessment
Total number of assessed students: 1904

A	B	C	D	E	FX
46.22	23.84	15.91	6.67	6.36	1.0

Provides: MUDr. Miriama Skirková, PhD., MUDr. Monika Moravská, MUDr. Marek Horňák, MPH, MUDr. Paulína Hribová, MUDr. Jozef Szilasi, MUDr. Simona Knížová

Date of last modification: 12.05.2022

Approved: prof. MUDr. Peter Jarčuška, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: KORLaF/ORL-GM/14	**Course name:** Otorhinolaryngology

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

Number of ECTS credits: 3

Recommended semester/trimester of the course: 9.

Course level: I.II.

Prerequisities: NLK/NL-GM1/19 and ChK/S-GM3/17 and UFR/PM-GM1/19

Conditions for course completion:
Test
Exam

Learning outcomes:
Diagnosis and treatment of the most common diseases in ENT. Examination procedure and differential diagnosis of life-threatening conditions. Get information on the full range of ENT examinations and performances, even in border industries.

Brief outline of the course:
Nose and paranasal sinuses traumatology, inflamations, complications, Laryngeal and tracheal stenosis inflamation of lymphoid pharyngeal tissue, Tumours of the nose, paranasal sinuses, pharyngx and laryngx, Acoustic neurinoma, Tumours of the ear, External ear diseases, Acute otitis media amd its complications, Chronica otitis media, Otogenic intracranial complication, Otosclerosis.

Recommended literature:
Šuster : Otorhinolaryngológia
Profant M., : Otorhinolaryngológia
Kovaľ J., : Nervus facialis

Course language:
English

Notes:

Course assessment
Total number of assessed students: 1824

A	B	C	D	E	FX
13.43	14.31	22.53	27.14	22.31	0.27

Provides: prof. MUDr. Juraj Kovaľ, CSc., MPH, MUDr. Michal Molčan, CSc., MUDr. Tímea Koštialová, MUDr. Andrej Koman

Date of last modification: 10.05.2022
Approved: prof. MUDr. Peter Jarčuška, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: KDaD/ PE-SS-GM/17	**Course name:** Paediatrics

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

Number of ECTS credits: 2

Recommended semester/trimester of the course: 11., 12..

Course level: I.II.

Prerequisities: KDaD/PE-GM3/22 and UFR/PM-GM2/25 and 1. KAIM/AIM-GM/24 and 1. PK/ PT-GM2/24

Conditions for course completion:
Obtaining the minimum number of credits for compulsory and optional subjects in the prescribed composition by the study plan.

Learning outcomes:
Graduate acquires knowledge in accordance with the profile of the graduating general medicine.

Brief outline of the course:
Pneumonia in Infants and Toddlers
Pneumonia in Older Children
Tuberculosis
Bronchial Asthma
Acute Bronchitis and Bronchiolitis
Sinusitis, Tonsillitis and Adenoids
Otitis Media, Mastoiditis, Hearing Screening
Cystic Fibrosis
Foreign Body Aspiration
Acute Infectious Laryngitis, Acute Epiglottitis
Differential Diagnosis of Unconsciousness
Differential Diagnosis of Lymphadenopathy
Differential Diagnosis of Nonconjugated Hyperbilirubinemia
Differential Diagnosis of Conjugated Hyperbilirubinemia
Differential Diagnosis of Nausea and Vomiting in Children
Differential Diagnosis of Haematuria
Differential Diagnosis of Proteinuria
Differential Diagnosis of Oedema
Differential Diagnosis of Chronic Cough
Differential diagnosis of Dyspnoe
Differential diagnosis of Chest Pain
Differential Diagnosis of Syncope
Differential Diagnosis of Hepatosplenomegaly

Primary and Secondary Immunodeficiencies (AIDS)
Fever and its Treatment, Fever of Unknown Origin (FUO), PIMS
Vaccination - Principles, Schedule
Side Effects of Longterm Treatment with Corticosteroids and Prevention's Possibilities
Infective Endocarditis
Cardiomyopathies
Myocarditis and Pericarditis
Congenital Heart Diseases with Left to Right Shunt
Congenital Heart Diseases with Right to Left Shunt
Dysrhythmias in Children
Heart Failure and its Treatment
Arterial Hypertension
ALTE and Sudden Infant Death Syndrome
Childs Growth and Development
Breastfeeding, Complementary feeding and Weaning Principles and
Indications of Formula Feeding, Formula Types
Congenital Viral and Bacterial Newborn's Infections (TORCH, GBS, E. coli)
Neonatal Screening, Birth Trauma
Prematurity and Low Birth Weights Complications and Consequences
The Most Frequent Respiratory Complications in Term Neonates (RDS, PPNH, Transitory Tachypnea of Newborn, MAS)
Juvenile Idiopathic Arthritis
Bone Diseases (Osteomyelitis, Aseptic Necrosis, Osteoporosis)
Systemic Lupus Erythematosus, Juvenile Dermatomyositis and Scleroderma
Seizures in Children
Adrenal Gland Cortex Diseases
Hypoglycaemia in Children
Disorders of Thyroid Gland
Growth Disorders
Diabetes Mellitus Type 1
Disorders of Puberty
Obesity in Childhood, Dyslipidaemias
Disorders of Calcium and Phosphorus Metabolism, Disorders of Parathyroid Gland Cutaneous Infections in Children
Solid Tumours in Children (including Tumours of Central Nervous System)
Congenital and Acquired Coagulopathies
Iron Deficiency Anaemias
Anaemias (except for Iron Deficiency Anaemias)
Congenital and Acquired Thrombocytopenias and Thrombocytopathies
Acute Leukaemias, Malign Lymphomas
Numeric and Structural Anomalies of Autosomes and Gonosomes
Defects in Metabolism of Carbohydrates (Galaktosemia, Fructose Disorders, Glycogenoses)
Primary Monosymptomatic Nocturnal Enuresis, Undescended Testis
Upper and Lower Urinary Tract Infections
Vesicoureteral Reflux and Obstructive Uropathy
Chronic Kidney Disease (CKD)
Acute Kidney Injury, Haemolytic-Uremic Syndrome
Nephrotic Syndrome
Acute Poststreptococcal and Rapidly Progressive glomerulonephritis

Chronic glomerulonephritis (IgA Nephropathy, Henoch-Schönlein Purpura), Alport Syndrome
Differential Diagnosis of Polydipsia and Polyuria
Disorders of Water Balance
Disorders of Sodium and Potassium metabolism
Acid-Base Disorders
Shock in children Infant and Child Resuscitation
Sepsis in Childhood
Acute Abdomen
Meningitis and Encephalitis
Congenital Abnormalities of Digestive System
Oesophageal (GERD) and Stomach Disorders
Vitamin D and K deficiency (rickets)
Malnutrition and Failure to Thrive
Acute Diarrhoea in Children
Inflammatory Bowel Disease in Children
Malabsorption and Celiac Disease
Liver Insufficiency, metabolic Disorders of Liver
Viral hepatitis and Chronic Hepatitis
Disorders of Amino Acid Metabolism (Phenylketonuria, Disorders of Ammonia Detoxification)
Antibiotic Therapy in Children
Child Abuse and Neglect
Scope and History of Pediatrics, Pediatric Epidemiology
Non-infectious Cutaneous Disorders in Children (Atopic Dermatitis, Urticaria, Seborrhei Dermatitis, Haemangiomas)
Congenital Malformations of Central Nervous System

Recommended literature:

Lissauer, T.: Illustrated Textbook of Paediatrics, 4th Edition, ISBN: 978-0-7234-3565-5, 2012, s. 552.
Roberton, DM., South, M.: Practical Paediatrics, Churchill Livingstone, UK, 6 edition, ISBN 978-0-443-10280-6, 2007, s. 874
Kliegman, R.: Nelson Textbook of Pediatrics E-dition (Book/Website) Package, 19th Edition, Saunders, 2011, ISBN 9781437707557, s. 2680.

Course language:
English language

Notes:

Course assessment
Total number of assessed students: 1585

A	B	C	D	E	FX
22.27	19.12	24.1	15.39	16.53	2.59

Provides:

Date of last modification: 23.03.2023

Approved: prof. MUDr. Peter Jarčuška, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: KDaD/ PE-GM1/15	**Course name:** Paediatrics 1

Course type, scope and the method:
Course type: Lecture / Practice
Recommended course-load (hours):
Per week: 2 / 3 **Per study period:** 28 / 42
Course method: present

Number of ECTS credits: 3

Recommended semester/trimester of the course: 9.

Course level: I.II.

Prerequisities: UFR/PM-GM1/19

Conditions for course completion:
1. Attendance on practical lessons confirmed by assistant´s signature in the record book of the student
- it is obligatory to compensate more than one legitimate absence
- (in case of 2 absent practical lessons their compensation in the corresponding form shall be determined by the teaching assistant, in case of more than 3 absences the Head of the department shall decide how to compensate)
2. Compulsory attendance in at least 10 lectures in winter term
3. Active participation on practical lessons – estimated by the teaching assistant
4. Successful passing of the credit test – achieving minimum 60 % of total score from credit test
5. Credits from the subject are going to be administered on the basis of fulfillment of criterias 1 - 4.

Learning outcomes:
Examination and health care of a child patient on pediatric department. Acquisition of theoretical and practical skills beginning from admission of the patient to his discharge from hospital (medical history taking, physical examination, layout of diagnostic procedures, their interpretation, differential diagnosis, treatment). Working with medical records, documentation.
Learning of basic diagnostic and therapeutic algorithms following the most common diseases of chilhood, according to systems presented on lectures.

Brief outline of the course:
Diseases of the respiratory system – acute infections, asthma bronchiale, non-inflammatory diseases. Cardiovascular system – congenital heart diseases, inflammatory diseases, hypertension. Congenital anomalies of the Gastrointestinal tract, malabsorptive syndrome, IBD, liver diseases. Disorders of the thyroid gland, diabetes mellitus, disorders of calcium-phosphate metabolism, most common inborn errors of metabolism.

Recommended literature:
Lissauer T.: Ilustrated Textbook of Paediatrics, 2012
Kovács L: Introduction to Paediatrics, 2001
Schusterová I.: Pediatric Cardiology: selected chapters, 2016

Course language:

English language

Notes:

Course assessment
Total number of assessed students: 1990

abs	abs-A	abs-B	abs-C	abs-D	abs-E	neabs
20.6	19.35	19.5	18.64	12.76	8.69	0.45

Provides: MUDr. Miroslava Petrášová, PhD., MUDr. Juliana Ferenczová, PhD., doc. MUDr. Veronika Vargová, PhD., MUDr. Juraj Hedvig, PhD., MUDr. Marianna Fajdelová, MUDr. Simona Drobňaková, MUDr. Tatiana Baltesová, PhD., MUDr. Veronika Kučeravá, PhD., doc. MUDr. Gabriel Koľvek, PhD., MUDr. Kristína Kubejová, PhD., prof. Dr. László Lajos Barkai, MUDr. Martin Mráz, PhD., MUDr. Nina Kalinová, MUDr. Nicolas Kardos

Date of last modification: 23.03.2023

Approved: prof. MUDr. Peter Jarčuška, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: KDaD/ PE-GM2/12	**Course name:** Paediatrics 2

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

Number of ECTS credits: 3

Recommended semester/trimester of the course: 10.

Course level: I.II.

Prerequisities: KDaD/PE-GM1/15

Conditions for course completion:
1. Attendance on practical lessons confirmed by assistant´s signature in the record book of the student
- it is obligatory to compensate more than one legitimate absence
- (in case of 2 absent practical lessons their compensation in the corresponding form shall be determined by the teaching assistant, in case of more than 3 absences the Head of the department shall decide how to compensate)
2. Compulsory attendance in at least 10 lectures in summer term
3. Active participation on practical lessons – estimated by the teaching assistant
4. Successful passing of the credit test – achieving minimum 60 % of total score from credit test
5. Credits from the subject are going to be administered on the basis of fulfillment of criterias 1-4 .

Learning outcomes:
Examination and health care of a child patient on pediatric department. Acquisition of theoretical and practical skills beginning from admission of the patient to his discharge from hospital (medical history taking, physical examination, layout of diagnostic procedures, their interpretation, differential diagnosis, treatment). Working with medical records, documentation.
Learning of basic diagnostic and therapeutic algorithms following the most common diseases of chilhood, according to systems presented on lectures.

Brief outline of the course:
- Acute and chronic heart failure, collapses
- Bronchial asthma, interpretation of chest X-ray findings
- Liver disorders, cystic fibrosis
- Hepatosplenomegaly, differential diagnosis of oedema
- Infections in newborn, complications of prematurity
- Puberty and its disorders
- Calcium and phosphorus metabolism disorders
- Inborn errors of metabolism, congenital malformations
- Juvenile idiopathic arthritis
- Bone and joint disorders
- Obesity, dyslipidemia, metabolic syndrom

- Viral hepatitis and chronic hepatitis
- Acute kidney injury, hemolytic-uremic syndrom
- Nephrotic syndrom
- Chronic kidney disease
- Seizures in children
- Malignancy in children (leukemia, lymphoma), sideropenic anaemia
- Evaluation of dehydratation, most common acid-base disorders in children

Recommended literature:

Lissauer T.: Ilustrated Textbook of Paediatrics, 2012
Kovács L: Introduction to Paediatrics, 2001
Roberton, DM.: Practical Paediatrics, 2007

Course language:

English language

Notes:

Course assessment

Total number of assessed students: 1914

abs	abs-A	abs-B	abs-C	abs-D	abs-E	neabs
20.9	26.65	24.66	14.37	7.58	5.59	0.26

Provides: doc. MUDr. Veronika Vargová, PhD., MUDr. Juraj Hedvig, PhD., MUDr. Miroslava Petrášová, PhD., MUDr. Juliana Ferenczová, PhD., MUDr. Peter Krcho, PhD., MUDr. Marianna Fajdelová, MUDr. Simona Drobňaková, prof. Dr. László Lajos Barkai, doc. MUDr. Gabriel Koľvek, PhD., MUDr. Tatiana Baltesová, PhD., MUDr. Kristína Kubejová, PhD., MUDr. Veronika Kučeravá, PhD., MUDr. Martin Mráz, PhD., MUDr. Gabriela Kiss, doc. MUDr. Ingrid Urbančíková, PhD., MPH, MUDr. Nina Kalinová, MUDr. Nicolas Kardos

Date of last modification: 23.03.2023

Approved: prof. MUDr. Peter Jarčuška, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Medicine	
Course ID: KDaD/ PE-GM3/22	**Course name:** Paediatrics 3

Course type, scope and the method:
Course type: Practice / Controlled study hour
Recommended course-load (hours):
Per week: Per study period: 200s / 60s
Course method: present

Number of ECTS credits: 10

Recommended semester/trimester of the course: 11., 12..

Course level: I.II.

Prerequisities: KDaD/PE-GM2/12 and NLK/NL-GM2/22

Conditions for course completion:
1. For successful completion of the practical exercises is required:
- To participate at all of practical exercises, theoretical and practical performance of all exercises.
- Active participation in work on the ward under the supervision of a teacher.
- Two absences are allowed /justified/
2. For successful obtained of the credits from subject is necessary:
- Successful completion of the practical exercises
- Practical exam – evaluation of the physical examination of the patient in written form evaluated (A-E)
The teaching proces may alternatively take place in a distance mode, through MS teams platform.

Learning outcomes:
Teach students to work as a residents at the ward in hospital, lead them to work independently in both the practical procedures and differential-diagnostic thinking. Daily work at the ward includes taking history, physical examination, drafting diagnostic and treatment process. Students learn to operate with documentation, including admitting and releasing process, also reporting the patients to the head of department during main ward rounds. Each student has to participate on “a patient of the week” analysis.

Brief outline of the course:
Fever of unknown origin
Alergological examination
Cystic fibrosis
Premature and hypotrophic newborn
Diff. dg. of unconsciousness
Diff. dg. of hypoglycemia
Growth retardation
Diff. dg. of polydipsia and polyuria
Hematuria and proteinuria
Adrenal cortex disorders

ALTE and SIDS
Sepsis in children
Cardiopulmonary resuscitation
Anaemia in children
Thrombocytes disorders
Dysrhytmias
Endocarditis, myocarditis, pericardiatis
Inflammatory bowel disease
Meningitis and encephalitis
Diff. dg. of dyspnoe and chest pain
Rheumatic diseases
Lymphadenopathy
Primary and secondary immunodeficiency
Malnutrition and failure to thrive
Solid tumors in children
Congenital malformation of neural tube

Recommended literature:
Lissauer T.: Ilustrated Textbook of Paediatrics, 2012
Kliegman R.: Nelson Textbook of Pediatrics, 2011
Schusterová I.: Pediatric Cardiology: selected chapters, 2016
Roberton DM.: Practical Paediatrics, 2007

Course language:
English language

Notes:

Course assessment
Total number of assessed students: 1619

abs	abs-A	abs-B	abs-C	abs-D	abs-E	neabs
18.34	61.46	14.27	4.82	0.68	0.43	0.0

Provides: doc. MUDr. Veronika Vargová, PhD., MUDr. Miroslava Petrášová, PhD., MUDr. Juliana Ferenczová, PhD., MUDr. Marianna Fajdelová, MUDr. Simona Drobňaková, MUDr. Mária Pisarčíková, PhD., prof. Dr. László Lajos Barkai, MUDr. Tatiana Baltesová, PhD., doc. MUDr. Gabriel Koľvek, PhD., MUDr. Veronika Kučeravá, PhD., MUDr. Kristína Kubejová, PhD., MUDr. Martin Mráz, PhD., MUDr. Pavol Fedor, MUDr. Gabriela Kiss, MUDr. Nina Kalinová, MUDr. Nicolas Kardos, MUDr. Milan Kurák

Date of last modification: 23.03.2023

Approved: prof. MUDr. Peter Jarčuška, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Medicine	
Course ID: KF/ ZFL/17	**Course name:** Philosophical Aspects of the Medical Practice, Basic Philosophy for Medical Doctors

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

Number of ECTS credits: 2

Recommended semester/trimester of the course: 1., 2.., 3., 4.., 5., 6.., 7., 8.., 9., 10..

Course level: I.II.

Prerequisities:

Conditions for course completion:
The students will be evaluated according to their activity in the classes. The condition to pass and to get the credits will be the final exam written during the last lesson of the semester, which will be in form of a short essay, where the basic knowledge and the skills received during the semester should be applied. In case of online courses, the final essay sent at the end of semester, will be evaluated.

Learning outcomes:
During the classes, the students of the medical sciences should be informed about the basic existential problems and extreme situations, which they can be facing during their medical practice, in the wider interdisciplinary context. This should be realized in discussion about an interconnection between the medical, the psychological, the philosophical and the anthropological view of the human being, of the patient, in consideration of the present globalized and multicultural society.

Brief outline of the course:
1.Who or what is a human being? Different views of the human, 2. Human and the culture: language, science, art and religion, 3. Freedom and responsibility. Human being and the principal of responsibility, 4. Life, death and dying. The sense of the human life. Problem of suicide and of euthanasia, 5. Love as an answer on the questions of the human existence, 6. Happiness, the ways of seeking and finding it, 7. Pain and suffering, 8. Human dignity. Human being as a purpose itself.

Recommended literature:
JASPERS, K.: Philosophy is for everyman: a short course in philosophical thinking. Harcourt, Brace & World: 1967, 125 pp.,
SCHELER, M.: The human place in the cosmos. Evanston, Illinois, Northwestern University Press: 2009.,
BUBER, M.: Between Man and Man. New York: Rutledge 1947,
FROMM, E.: The Art of Loving. New York: Harper and Row 1956.

Course language:
English

Notes:

Course assessment Total number of assessed students: 346	
abs	n
99.71	0.29
Provides: doc. PhDr. Kristína Bosáková, PhD.	
Date of last modification: 17.09.2020	
Approved: prof. MUDr. Peter Jarčuška, PhD.	

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Medicine	
Course ID: KFBLR/PRM-GM/16	**Course name:** Physical and Rehabilitation Medicine

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

Number of ECTS credits: 2

Recommended semester/trimester of the course: 6.

Course level: I.II.

Prerequisities: (UA/A-GM2/14 or UA/A-GM2/22)

Conditions for course completion:
https://www.upjs.sk/lekarska-fakulta/vyucbove-zakladne/rehabilitacia/vyucba/predmety/bc/
Prerequisites:
Successful completion of the interim study checks and the final exam.
Continuous assessment (test, independent work): written test
Final assessment (exam): exam, grade A, B, C, D, E, FX.
The final evaluation shall take into account the results of the mid-term evaluation and the final evaluation.

Learning outcomes:
Learning outcomes:Prepare the students for the diagnostics, treatment and prevention of disabilities of all types and holistic approach to patient care, working with an interdisciplinary team of experts in many fields - nursing, physical therapy, occupational therapy, speech and language pathology, psychology, social work and others, help patients achieve their maximum functional capacity and highest quality of life.

Brief outline of the course:
Concepts of rehabilitation, definitions in rehabilitation medicine, International Classification of functioning, Disability and Health (WHO).Clinical decision making and examination
Approaches to rehabilitation, benefits of rehabilitation, outcomes measurement in rehabilitation Musculoskeletal examination .The rehabilitation team. Medical conditions requiring intensive rehabilitation services. Examination of motor function General principles in physical medicine. Physical therapy methods and concepts. General principles in comprehensive rehabilitation . Intervention strategies for rehabilitation. Modalities in physical medicine.Classification of modalities based on applied energy and their primary effects. Exercise therapy,benefits, mechanisms, precautions .Muscle strength exercises, active assistive exercise, passive movements Rehabilitation therapy in myoskeletal medicine.Kinesiology and clinical examination of the musculoskeletal system .Rehabilitation in cardiology.Key components of the complex rehabilitation plan. Rehabilitation of pulmonary diseases. Methods and approaches used in the rehabilitation of patients with pulmonary system dysfunction. Rehabilitation in neurology. Rehabilitation strategies in central and peripheral nervous system disorders. Rehabilitation in traumatology. Rehabilitation

treatment principles in various conditions. Rehabilitation in geriatrics.Principles of movement activity selection in the aging population. Rehabilitation in psychiatry, oncology Rehabilitation specifics, basic goals and assessment.

Recommended literature:

Basic study literature:
Ceravolo M, Christodoulou N. et al. Physical and Rehabilitation Medicine for Medical Students, Edi-Ermes-Milan, 2018
Next study literature:
Mayer S. Physical Medicine and Rehabilitation Oral Board Review: Interactive Case Discussions, Demos Health, 2021

Course language:

english

Notes:

Course assessment

Total number of assessed students: 2564

A	B	C	D	E	FX
92.43	5.5	0.7	0.31	0.2	0.86

Provides: doc. MUDr. Peter Takáč, PhD., univerzitný profesor, MUDr. Anna Kubincová, PhD., prof. et doc. PhDr. Magdaléna Hagovská, PhD., MPH

Date of last modification: 07.03.2023

Approved: prof. MUDr. Peter Jarčuška, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: UFZ/ Ph-GM1/22	**Course name:** Physiology 1

Course type, scope and the method:
Course type: Lecture / Practice / Controlled study hour
Recommended course-load (hours):
Per week: 3 / 4 / 1 **Per study period:** 42 / 56 / 14
Course method: present

Number of ECTS credits: 7

Recommended semester/trimester of the course: 3.

Course level: I.II.

Prerequisities:

Conditions for course completion:
lectures, practical exercises, seminars, exam; more details: https://www.upjs.sk/lekarska-fakulta/en/department/medical-physiology/teaching/subjects/doctoral-studies/

Learning outcomes:
To obtain a comprehensive picture of the functions of individual systems in the dynamics of mutual relations with regulatory mechanisms in a healthy person. Understanding these relationships creates a prerequisite for the rational management of pathological processes occurring in individual diseases, and at the same time creates a prerequisite for choosing an appropriate therapy and thereby returning to the physiological norm.

Brief outline of the course:
Physiological principles. Homeostasis. Blood. Respiratory system. Cardiovascular system Excretory system. Digestive system.

Recommended literature:
Guyton and Hall Textbook of Medical Physiology 14th Edition Ganong's Review of Medical Physiology, Twenty sixth Edition 26th Edition (25th, 24th) Linda S. Costanzo Physiology 6th Edition, (5th, 4th) Pallayova M. et al.: Textbook of Practical Physiology Part I Kujanik Š. et al.: Textbook of Practical Physiology Part II

Course language:
English

Notes:

Course assessment
Total number of assessed students: 3935

abs	abs-A	abs-B	abs-C	abs-D	abs-E	neabs
29.63	0.69	2.41	7.62	17.51	39.67	2.47

Provides: prof. MUDr. Viliam Donič, CSc., prof. MUDr. Mária Pallayová, PhD., prof. RNDr. Pavol Švorc, CSc., doc. RNDr. Soňa Grešová, PhD., RNDr. Judita Štimmelová, PhD., MUDr. Andrea Brandeburová, PhD., MUDr. Igor Peregrim, PhD., Mgr. Viktória Kapsdorferová

Date of last modification: 03.03.2023
Approved: prof. MUDr. Peter Jarčuška, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: UFZ/ Ph-GM2/14	**Course name:** Physiology 2

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

Number of ECTS credits: 8

Recommended semester/trimester of the course: 4.

Course level: I.II.

Prerequisities: UFZ/Ph-GM1/22

Conditions for course completion:
credit tests, practical exam, final written test,oral exam,

Learning outcomes:
exam

Brief outline of the course:
Thermoregulation. General neurophysiology. Sensory physiology. Motor nervous system. Autonomous nervous system. Higher functions of the CNS. Physiology of the muscles and work. Endocrinology. Specialized lectures (childhood physiology, stress, biorhythms)

Recommended literature:
Guyton - Hall: Textbook of Medical Physiology
Š.Kujaník: Practical lessons in Physiology. Part II. 1998

Course language:
English

Notes:

Course assessment
Total number of assessed students: 3640

A	B	C	D	E	FX
11.81	9.51	19.09	16.35	34.64	8.6

Provides: prof. MUDr. Viliam Donič, CSc., prof. MUDr. Mária Pallayová, PhD., prof. RNDr. Pavol Švorc, CSc., RNDr. Judita Štimmelová, PhD., doc. RNDr. Soňa Grešová, PhD., MUDr. Andrea Brandeburová, PhD., MUDr. Igor Peregrim, PhD., Mgr. Viktória Kapsdorferová

Date of last modification: 28.02.2023

Approved: prof. MUDr. Peter Jarčuška, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: CJP/ LFPAGM/16	**Course name:** Practical English Grammar for Medical Students

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

Number of ECTS credits: 2

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

Course level: I.II.

Prerequisities: KKF/LFMT/07

Conditions for course completion:
Active participation, max. 2 absences.
2 tests, mini-presentation.
A minimum final overall average of 60 percent is required. Students with a final overall average lower than 60 percent are not allowed to register for the final exam, i. e. their final grade is FX.
Exam - written test.
Finall assesment is based on the results of exam (50%) and continuous assessment (50%).
Scale: A 93-100 %, B 85-92 %, C 77-84 %, D 69-76 %, E 60-68 %, FX 59% and less.

Learning outcomes:
The development of language skills (reading, writing, speaking), improvement of linguistic competence, students acquire knowledge and practical skill in the use of selected grammar and syntactic aspects of medical English with focus on general and dental medicine, level B1.

Brief outline of the course:
Tenses
Irregular verbs
Passive and active voice
Countable and uncountable nouns, adjectives and adverbs
Prepositions
Relative clauses
Modal verbs
Conditionals
Text cohesion and coherence
Language functions: defining, classifying, expressing function, cause and effect, purpose, result, making suggestions, giving advice.

Recommended literature:
Vince, M.: Macmillan English Grammar In Context. Intermediate. Macmillan Publishers Limited, 2007.
Vince, M.: Macmillan English Grammar In Context. Advanced. Macmillan Publishers Limited, 2008.
Thaine, C.: Cambridge Academic English. Intermediate. CUP, 2012.

James, D.V.: Medicine. Prentice Hall International Limited, 1992.

Course language:

Notes:

Course assessment
Total number of assessed students: 281

A	B	C	D	E	FX
37.72	24.91	18.51	9.61	6.41	2.85

Provides: Mgr. Zuzana Kolaříková, PhD.

Date of last modification: 30.03.2022

Approved: prof. MUDr. Peter Jarčuška, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: CJP/ LFPSG/11	**Course name:** Practical Slovak Grammar

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

Number of ECTS credits: 2

Recommended semester/trimester of the course: 3.

Course level: I.II.

Prerequisities: Dek. LF UPJŠ/SL-GM1/09 and Dek. LF UPJŠ/SL-GM2/15

Conditions for course completion:
Active participation is required. Students are not allowed to have more than 2 absences during the semester. There are 2 written tests (weeks 7 and 13). The result of each test must be at least 60%. Students are given the opportunity to retake the tests in the last week of the semester (week 14). Students with a result lower than 60% are not allowed to register for the final exam, i.e., their final grade is FX. The final assessment is based on the result of the final written exam. Grading scale: A 100-91%, B 90-84%, C 83-75%, D 74-68%, E 67-60%, FX 59% and less. The study form: in person/ distance/combined in accordance with epidemiological situation and the Rector's ordinances.

Learning outcomes:
Students with acquired skills of Slovak grammar are able to participate effectively with patients and also in a variety of common situations of everyday communication.

Brief outline of the course:
At the University. Human Body. Medical and Health Professions. In Hospital. Medical Examination. Communication Doctor – Patient. Selected Grammatical Features (grammatical cases; present, past and future tenses; prepositional phrases; imperative forms; conditional sentences; reflexive verbs with “sa/si“).

Recommended literature:
Materials prepared by teachers in print and electronic forms.

Course language:
Slovak Language A1.1 - A1.2

Notes:

Course assessment
Total number of assessed students: 321

A	B	C	D	E	FX
31.78	25.55	16.51	9.03	8.1	9.03

Provides: Mgr. Veronika Pálová, PhD.

Date of last modification: 16.09.2024

Approved: prof. MUDr. Peter Jarčuška, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: Dek. LF UPJŠ/PxOCS-GM/23	**Course name:** Practice from an Optional Clinical Subject

Course type, scope and the method:
Course type: Practice
Recommended course-load (hours):
Per week: Per study period: 40s
Course method: present

Number of ECTS credits: 2

Recommended semester/trimester of the course: 5., 6.., 7., 8.., 9., 10..

Course level: I.II.

Prerequisities: UP/PA-GM1/22 and UPF/PP-GM1/16

Conditions for course completion:
Confirmation of the completion of practice in the range of 40 hours

Learning outcomes:
By completing the subject, the student will expand his knowledge and practical skills in the field in which the clinical practice will take place. Acquire basic knowledge about diagnosis, differential diagnosis, treatment procedure and prognosis of individual diseases. He will expand his knowledge and practical skills in the examination and treatment of the hospitalized patient, taking anamnestic data, He will improve in the physical examination of the patient, in determining the diagnosis and developing a treatment-preventive procedure. He will learn the ethical and legal principles of health care provision. He will acquire the ability to communicate effectively with the hospitalized patient. He will acquire knowledge on how to manage health documentation in both electronic and written form. The student will learn how to apply examination and treatment procedures based on evidence-based medicine and good clinical practice.

Brief outline of the course:
Student will participate in the work in the clinic/department of their choice under the supervision of a more experienced physician to whom they will be assigned. He will acquire theoretical knowledge and become familiar with practical procedures in a specific department and master the following processes:
1. history taking
2. physical examination
3. determination of the working diagnosis and specification of subsequent examinations necessary to clarify the diagnosis
4. diagnostic and treatment care for acute as well as chronic patients
5. analysis of diagnostic methods - in hematology, biochemistry, microbiology
6. collection of biological material in relation to the given disease
7. theoretical mastery and, under the supervision of a more experienced doctor, performing simple diagnostic tests, therapeutic actions
8. assessment of health status and its subsequent management

Recommended literature:

Course language:
english

Notes:

Course assessment
Total number of assessed students: 5

abs	abs-A	abs-B	abs-C	abs-D	abs-E	neabs
80.0	0.0	20.0	0.0	0.0	0.0	0.0

Provides:

Date of last modification: 28.04.2023

Approved: prof. MUDr. Peter Jarčuška, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Medicine	
Course ID: CJP/ LFPE/11	**Course name:** Presentations in English
Course type, scope and the method: **Course type:** Practice **Recommended course-load (hours):** **Per week:** 1 **Per study period:** 14 **Course method:** present	
Number of ECTS credits: 2	
Recommended semester/trimester of the course: 3.	
Course level: I.II.	
Prerequisities: KKF/LFMT/07	
Conditions for course completion: Active participation, max. 1 absence (2x45 min.) Continuous assessment (50% of the final assessment): 1 test (60%), oral case presentation (40%) A minimum final overall average of 60 percent is required. Students with a final overall average lower than 60 percent are not allowed to register for the final exam, i.e. their final grade is FX. Exam - conference presentation (50% of the final assessment) Final assessment is based on the results of exam (50%) and continuous assessment (50%). Scale: A 93-100 %, B 85-92 %, C 77-84 %, D 69-76 %, E 60-68 %, FX 59% and less.	
Learning outcomes: Students extend the knowledge of medical English vocabulary and acquire skills for preparing and delivering different types of oral presentations in medical context.	
Brief outline of the course: Types of presentations Language of presentations Conference presentations Poster presentation Structure of presentations Presentation of data Case presentation Selected grammar (prepositional phrases, collocations, etc.)	
Recommended literature: Glendinning, E. H.- Howard, R.: Professional English in Use – Medicine, CUP, 2007 McCarthy, M., Felicity O´Dell: English Vocabulary in Use. Advanced. CUP, 2002 Williams, Erica J.: Presentations in English. MacMillan, 2008 Dictionary of Medicine. Peter Collin Publishing, 1996 Powel, M.: Dynamic Presentations. CUP, 2010 Armer, T.: Cambridge English for Scientists. CUP, 2011	
Course language: B1-B2 level according to CERF	

Notes:

Course assessment
Total number of assessed students: 519

A	B	C	D	E	FX
58.77	23.51	11.18	3.47	0.58	2.5

Provides: Mgr. Viktória Mária Slovenská, Mgr. Lýdia Markovičová, PhD.

Date of last modification: 21.09.2022

Approved: prof. MUDr. Peter Jarčuška, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: IK/ PSM-GM/22	**Course name:** Preventive and Sports Medicine

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

Number of ECTS credits: 3

Recommended semester/trimester of the course: 8.

Course level: I.II.

Prerequisities: IK/IM-GM1/16

Conditions for course completion:
1. For successful completion of the practical exercises/seminars is required:
- To participate at all of practical exercises, theoretical and practical performance of all exercises/ seminars.
- To get at least 60 % of total score for ongoing review of written test and the theoretical training to practical exercises.
- Two absences are allowed /justified/
2. For successful obtained of the credits from subject is necessary:
- To gain the credit from practical exercises (paragraph 1 above).
- Evaluation: Study rules of procedure UPJŠ in Košice, the Faculty of Medicine, Part II, Art13
- The final classification includes the evaluation of the written test and the results obtained in practical exercises

Learning outcomes:
To acquaint students with the issues of preventive and sports medicine, aspects of rehabilitation and sports training.Point out the importance of preventive medicine in practice.

Brief outline of the course:
Introduction to sports medicine, organization, support at athletic events.Physiological aspects of exercise, energy metabolism.Physiological aspects of nutrition, sports nutrition.Aerobic threshold, anaerobic threshold, lactate curve.Sports traumatology – most frequent injuries, specific aspects of sports trauma, treatment, rehabilitation, prevention.Doping, doping control.Recreational sports activities, prescription of exercise in civilization diseases.Preventive medicine, definition, organization, education, public health.Physical exercise – how much is too much.Prevention of obesity, nutrition.Preventive cardiology.Cancer – epidemiology, statistics, prevention.Metabolic syndrome as a cardiovascular risk factor.Prevention of Internal diseases from the perspective of patients with dental diseases.

Recommended literature:
Dzurenková, D., Marček, T., Hájková, M.: Essentials of Sports Medicine. Bratislava: CU, 2000.,22 pp. 2000
Marček, T. et all.:Sports Medicine (Manual of Practical Sports Medicine). Bratislava: CU, 1995. 76 p.

1995
Harries, M., Williams, C., Stanish, W.D., Micheli, L.J.:Oxford Textbook of Sports Medicine. Oxford: Oxford University Press, 1994. 748 p 1994
Thomas P. Gullotta and Martin Bloom Encyclopedia of Primary Prevention and Health Promotion
2014
David L. Katz,Ather Ali - IOM: Preventive Medicine, Integrative Medicine and the Health of the Public
2009

Course language:
english

Notes:

Course assessment
Total number of assessed students: 3296

abs	abs-A	abs-B	abs-C	abs-D	abs-E	neabs
19.54	78.97	0.18	0.15	0.06	1.09	0.0

Provides: MUDr. Peter Horváth, doc. MUDr. Viola Vargová, PhD., MUDr. Ivan Majerčák, MPH, prof. MUDr. Daniel Pella, PhD., doc. MUDr. Štefan Tóth, PhD., MBA

Date of last modification: 17.03.2023

Approved: prof. MUDr. Peter Jarčuška, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: 1. PK/ PT-GM1/24	**Course name:** Psychiatry 1

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

Number of ECTS credits: 4

Recommended semester/trimester of the course: 8.

Course level: I.II.

Prerequisities: 1. PK/PMC-GM/22 and UPF/PP-GM1/16

Conditions for course completion:
1. Student has to attend minimally 90% of the practical lessons and minimally 50% of the lectures. In the case of absence, may substitute up to 3 practical lessons per semester.
2. Evaluation: active participation in practicals; permanent study check (control questions); Successful completion of the written test - minimum 60

Learning outcomes:
- to learn about the content of the subject, etiology and pathophysiology of mental disorders, psychopathology, principles of classification in psychiatry, syndromology of mental disorders, diagnosis and treatment of mental disorders and with the stress on communication with mentally ill patients

Brief outline of the course:
- psychiatry - history of psychiatry and its content
- etiology and pathophysiology
- psychopathology, signs and symptoms of mental disorders /disturbances of perception, mood, thinking, memory, motor activity and behavior, intelligence, consciousness and attention, personality/
- diagnosis in psychiatry
- syndroms of mental disorders
- principles of classification in clinical psychiatry
- treatment of mental disorders
- legal and ethical aspects considering psychiatric patients
- communication with mentally ill patients – training of communication´s skills

Recommended literature:
1. Puri, Treasaden, Textbook of Psychiatry, 3rd edition, Churchill Livingstone, Elsevier, 2011
2. Pridmore S. Download of Psychiatry, Front matter. Last modified: October, 2015. http://eprints.utas.edu.au/287/

Course language:
English language

Notes:

Course assessment
Total number of assessed students: 1970

abs	abs-A	abs-B	abs-C	abs-D	abs-E	neabs
28.43	30.56	18.53	9.44	7.21	4.82	1.02

Provides: doc. MUDr. Ivan Dóci, PhD., Mgr. MUDr. Jozef Dragašek, PhD., MHA, MUDr. Jana Vančíková, PhD., doc. MUDr. Aneta Bednářová, PhD., MUDr. Dominika Jarčušková, PhD., MUDr. Zuzana Vančová, PhD., MUDr. Simona Čarnakovič

Date of last modification: 14.06.2024

Approved: prof. MUDr. Peter Jarčuška, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: 1. PK/ PT-GM2/24	**Course name:** Psychiatry 2

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

Number of ECTS credits: 3

Recommended semester/trimester of the course: 9.

Course level: I.II.

Prerequisities: 1. PK/PT-GM1/24 and UFR/PM-GM1/19

Conditions for course completion:
1. Student has to attend minimally 90% of the practical lessons and minimally 50% of the lectures. In the case of absence, may substitute up to 3 practical lessons per semester.
2. Evaluation: active participation in practicals; permanent study check (control questions); Successful completion of the written test - minimum 60%.
3. Practical exam – case report and oral exam.

Learning outcomes:
To build up student´s skills on basic diagnostics, differential diagnosis and principles of therapy of specific groups of mental disorders, principles of first aid in psychiatry. He/she has been taught about legal status of mentally ill. Student fulfils requirements for communication with mentally ill patients and communication with another specialists and psychiatrists.

Brief outline of the course:
- schizophrenia and schizophrenia - like disorders
- mood disorders
- organic and symptomatic mental disorders, cognitive disorders
- reactive (stress-related) mental disorders, anxiety, obsessive - compulsive, somatoform and dissociative disorders,...
- alcoholism and other substance use disorders
- mental disorders of childhood and adolescence
- geriatric psychiatry
- personality disorders
- psychiatric sexuology
- emergency psychiatry, first aid in psychiatry
- biological treatment in psychiatry
- psychopharmacology
- psychotherapy, psychoeducation, rehabilitation in psychiatry
- social psychiatry
- legal and ethical principles in psychiatry

Recommended literature:

Psychiatry and Pedopsychiatry, Hosák Ladislav - Hrdlička Michal et al. Karolinum 2017 ISBN 9788024633787
Pridmore, S (2006) Download of Psychiatry, University of Tasmania, http:// eprints.utas.edu.au/287/

Course language:
English language

Notes:

Course assessment
Total number of assessed students: 1865

A	B	C	D	E	FX
82.73	10.83	3.97	1.34	0.97	0.16

Provides: doc. MUDr. Ivan Dóci, PhD., Mgr. MUDr. Jozef Dragašek, PhD., MHA, doc. MUDr. Aneta Bednářová, PhD., MUDr. Jana Vančíková, PhD., MUDr. Dominika Jarčušková, PhD., MUDr. Zuzana Vančová, PhD., MUDr. Simona Čarnakovič

Date of last modification: 14.06.2024

Approved: prof. MUDr. Peter Jarčuška, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Medicine	
Course ID: 1. PK/ PMC-GM/22	**Course name:** Psychology and Medical Communication

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

Number of ECTS credits: 3

Recommended semester/trimester of the course: 6.

Course level: I.II.

Prerequisities: ULBL/B-GM2/22 and UFZ/Ph-GM2/14

Conditions for course completion:
Conditions for course completion:
1. 90% active participation in practical exercises; regarding the absence, at most 3exercises can be compensated per semester.
2. Active participation in practical exercises, ongoing knowledge assessment, andsuccessful written test (at least 60%).

Learning outcomes:
Educating the medical students in general concepts of psychology, psychology of personality,and social psychology in a view of their potential applications in practice; providing afundamental understanding of psychological work's principles, practical experiences using thepsychological methods, as well as seeking the best strategies for enhancing communicationand solutions in model situations.

Brief outline of the course:
An introduction to psychology (as a scientific discipline studying individual´s experience andbehaviour, theoretical scope, internal field division with an emphasis on application areas, andpossibilities of cooperation with different medical fields). General psychology andpsychology of personality (biological aetiology of psyche, development of personality, basicpsychological processes and conditions, personality theories overview, issues of personalityregulation). Clinical psychology (psychopathology of mental health, major mental disordersoverview, factors of their origin and development, biopsychosocial model of disease, clinicalpsychology utilization). Psychology in the doctor´s practice (factors affecting treatmentbehaviour, types of difficult patients and general procedures facilitating treatment, doctor-patient relationship, and medical psychology). Psychodiagnostics and psychotherapy(overview of basic diagnostic methods relating to performance abilities and personality,overview of basic approaches and methods in psychotherapy with an emphasis on measuresrelevant for medical practice). Social psychology (psychological factors influencingbehaviour in social interaction and social group, social skills and options of theirimprovement). Specifics of communication in medicine (verbal and non-verbalcommunication, doctor-patient relationship, principles of effective communication, risks ofprofessional deformation and failures).

Recommended literature:

Ruzickova M, Dragasek J. Psychology in Medicine, UPJS Kosice, 2023.https://unibook.upjs.sk/sk/lekarska-fakulta/1838-psychology-in-medicine. Portal UPJS.
Pomerantz, A. M. Clinical psychology: Science, Practice & Diversity. Sage, USA, 2020.Ayers S., de Visser R. Psychology for Medicine. Sage, London 2011.
Eysenck ME. Fundalmentals of Psychology. Taylor & Francis Group, New York 2009.
Nolen-Hoeksema S.et al. ATKINSON & HILGARD'S Introduction to Psychology. 15th edts.Cengage Learning EMEA, UK 2009.
Bennet, P. Abnormal and Clinical Psychology: An Introductory Textbook. Open UniversityPress, 2003.
Kennedy P, Llewelyn S. Clinical Health Psychology. John Wiley and Sons, West Sussex2006.
Taylor SE. Health Psychology. McGraw-Hill, 2006.

Course language:
English language

Notes:

Course assessment
Total number of assessed students: 2905

A	B	C	D	E	FX
20.45	25.92	23.96	16.87	11.84	0.96

Provides: PhDr. Martina Ružičková, PhD., Mgr. Juraj Martonyik, PhD., Mgr. Matúš Hrebenár

Date of last modification: 25.09.2024

Approved: prof. MUDr. Peter Jarčuška, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: 1. PK/ PTR-GM/09	**Course name:** Psychotherapy

Course type, scope and the method:
Course type: Lecture / Practice
Recommended course-load (hours):
Per week: 0 / 1 **Per study period:** 0 / 14
Course method: present

Number of ECTS credits: 2

Recommended semester/trimester of the course: 9.

Course level: I.II.

Prerequisities: 1. PK/PMC-GM/22 and UFZ/Ph-GM2/14

Conditions for course completion:
1. Compulsory attendance on at least 90 % of all of lectures held during semester and participate in all seminars.
2. Evaluation: active participation in practicals; permanent study check (control questions).
3. Final exam

Learning outcomes:
Practical application of theoretic knowledge on main psychotherapeutic approaches and methods – psychoanalysis, cognitive-behavioral, gestalt, and training procedures. Possibilities and limits of psychotherapy in psychiatry and other medical settings. Diagnostic vs. psychotherapeutic interview. Construction of the psychotherapeutic plan. Principles of individual and group psychotherapy.

Brief outline of the course:
• Psychotherapy as profession, its history and development
• Psychotherapeutic methods – interview, dialog, training
• Indications of pschotherapy (psychiatry, other medical settings)
• Relaxation and hypnosis
• Psychological transfer in medicine

Recommended literature:
M. W. Eysenck: Fundamentals of psychology, Psychology Press, 2009

Course language:
English language

Notes:

Course assessment
Total number of assessed students: 499

A	B	C	D	E	FX
69.74	27.66	0.6	0.2	0.0	1.8

Provides: Mgr. MUDr. Jozef Dragašek, PhD., MHA, PhDr. Martina Ružičková, PhD., MUDr. Dominika Jarčušková, PhD., MUDr. Zuzana Vančová, PhD., Mgr. Juraj Martonyik, PhD.

Date of last modification: 12.05.2022
Approved: prof. MUDr. Peter Jarčuška, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: KRZM/R-GM/23	**Course name:** Radiodiagnostic

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

Number of ECTS credits: 2

Recommended semester/trimester of the course: 8.

Course level: I.II.

Prerequisities: UFZ/Ph-GM2/14

Conditions for course completion:
Rogotest - presence form

Learning outcomes:
Radio imaging methods and procedures, physical principles. Orientation in classical radiology. Control of USG, CT, MR, angiographic and interventional methods. Practical exercises at the clinic.

Brief outline of the course:
- Fundamentals of physics and biophysics.
- Ionizing radiation.
- Diagnostic modalities.
- Using imaging methods to display individual organs.
- Imaging modalities of the bones, nervous system, chest, abdominal organs, vascular system.
- Intervention methods.

Recommended literature:
1. Basic Radiology – Michaely.M.Chen. Thomas L. Pope, David J.Ott Lange
2. Radiology 101 The Basics and Fundamentals of Imaging - W. Smith, T. Farell
3. The Chest X-Ray - G. Lacey, S. Morley, L. Berman
4. CT Teaching Manual - M. Hofer

Course language:
English language

Notes:

Course assessment
Total number of assessed students: 2393

A	B	C	D	E	FX
35.06	18.51	19.35	14.08	12.49	0.5

Provides: Mgr. MUDr. René Hako, PhD., MHA, MPH, MUDr. Katarína Kriegerová, PhD., MUDr. Nora Lešková, MUDr. Tatiana Muchová, PhD., MPH, MBA, MUDr. Tatiana Špakovská, PhD., MUDr. Piotr Pedowski, MUDr. Jakub Fedorko, MUDr. Štefan Pataky

Date of last modification: 15.05.2023
Approved: prof. MUDr. Peter Jarčuška, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: KDaD/ RD-GM/19	**Course name:** Rare Diseases

Course type, scope and the method:
Course type: Lecture / Practice
Recommended course-load (hours):
Per week: 0 / 1 **Per study period:** 0 / 14
Course method: present

Number of ECTS credits: 2

Recommended semester/trimester of the course: 9.

Course level: I.II.

Prerequisities: ULCHBKB/MBCH-GM2/20 and UPF/PP-GM2/16

Conditions for course completion:
exam pass

Learning outcomes:
To obtain general information about rare diseases, to know clinical manifestations, laboratory diagnostics and treatment options of the most commmonly occuring in the childhood.

Brief outline of the course:
This course provides an introduction to rare diseases, their screening, diagnosis and treatment in general. National and transnational registers, as well as, social issues. Students will learn about the characteristics, clinical picture, diagnostics treatment and prognosis of the most common rare diseases – inherited metabolic disorders, endocrine diseases, cystic fibrosis, neurological diseases with emphasis on the pediatric patient.

Recommended literature:
1. Zschocke J, Hoffman GF, Vademecum Metabolicum, 2004,2nd edition Schattauer
2. Fernandes J, Saudubray JM, van den Berghe G., Walter JH. Inborn Metabolic Diseases, Diagnosis And Treatment, 2006, 2nd edition, Springer

Course language:
English language

Notes:

Course assessment
Total number of assessed students: 43

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

Provides: MUDr. Juliana Ferenczová, PhD.

Date of last modification: 23.03.2023

Approved: prof. MUDr. Peter Jarčuška, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: CJP/ LFCLTS/16	**Course name:** Reading Medical Texts in Slovak

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

Number of ECTS credits: 2

Recommended semester/trimester of the course: 6., 8.

Course level: I.II.

Prerequisities: Dek. LF UPJŠ/SL-DM4/15 or Dek. LF UPJŠ/SL-GM4/15

Conditions for course completion:
Students are required to attend classes according to the schedule. Active participation is required. Students are not allowed to have more than 2 absences during the semester. Students are expected to be on time to class. In case of late arrivals which happen more than 3 times, students are given an absence. There are 2 written tests (weeks 7 and 13). The result of each test must be at least 60%. Students are given an opportunity to retake the tests in the last week of the semester (week 14). Students with a result lower than 60% in the summer semester are not allowed to register for the final exam, i.e., their final grade is FX. The final assessment is based on the result of the final written exam. Grading scale: A 100-91%, B 90-84%, C 83-75%, D 74-68%, E 67-60%, FX 59% and less. The study form: in person/distance/combined in accordance with the current situation and Rector's ordinances.

Learning outcomes:
Consolidation of students' language skills (reading comprehension, pronunciation), students will learn grammatical and lexical structures and stylistic characteristics of specialised written discourse at A2 – B1 level.

Brief outline of the course:
Human Anatomy. Specialised Medical Examinations. Hospital Departments. Current Medical Problems.

Recommended literature:
Selected texts prepared by the teacher.

Course language:
English level B2 / Slovak level A2

Notes:

Course assessment
Total number of assessed students: 12

A	B	C	D	E	FX
33.33	41.67	16.67	8.33	0.0	0.0

Provides: PhDr. Lucia Tóthová, Mgr. Veronika Pálová, PhD.
Date of last modification: 01.02.2025
Approved: prof. MUDr. Peter Jarčuška, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: Dek. LF UPJŠ/REA-GM/23	**Course name:** Research exchange abroad

Course type, scope and the method:
Course type: Practice
Recommended course-load (hours):
Per week: Per study period: 40s
Course method: present

Number of ECTS credits: 2

Recommended semester/trimester of the course: 3., 4.., 5., 6.., 7., 8.., 9., 10..

Course level: I.II.

Prerequisities:

Conditions for course completion:
Conditions for course completion:
– Presentation of the Certificate of Completion of a Research Internship Abroad
– Presentation of the Student Logbook of Research Activities

Learning outcomes:
By completing the subject, the student becomes familiar with the basic principles of medical research such as literature study, data collection, writing a scientific text, laboratory work, statistical processing. They will be come familiar with the basics of ethical aspects related to medicine. At the same time, he will expand his knowledge and will have the opportunity to learn about different approaches to health care, ethical and medical research, education and treatment abroad.

Brief outline of the course:
Brief outline of the course:
Student will get acquainted with the work organization at a foreign workplace, facilities and methodology of scientific research, possibly establishing further cooperation.
Student actively participates in a research project in a laboratory or clinic in the hospital under the supervision of a tutor. Research activity depends on the specifics of the project.

Recommended literature:
TAN. Research Methods : A Practical Guide for Students and Researchers. World Scientific 2018.
RAMAKRISHNAN, SULOCHANA. Manual of Medical Laboratory Techniques. Jaypee Brothers Medical Pub 2012.
OLIVER. The Student's Guide To Research Ethics. Open University Press 2010.

Course language:
english

Notes:

Course assessment
Total number of assessed students: 1

abs	abs-A	abs-B	abs-C	abs-D	abs-E	neabs
100.0	0.0	0.0	0.0	0.0	0.0	0.0

Provides:

Date of last modification: 28.04.2023

Approved: prof. MUDr. Peter Jarčuška, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Medicine	
Course ID: Dek. LF UPJŠ/ST-GM/22	**Course name:** Scientifis Training

Course type, scope and the method:
Course type: Lecture / Practice
Recommended course-load (hours):
Per week: 2 / 0 **Per study period:** 28 / 0
Course method: present

Number of ECTS credits: 2

Recommended semester/trimester of the course: 9.

Course level: I.II.

Prerequisities:

Conditions for course completion:
After conclusion of this subjects, students should understand scientific principles of preclinical and clinical aspects, as well as population-based research in medicine. Students will be able to search and evaluate quality of scientific informations, write a scientific thesis/article, they should understand basic methodologies of data acquisition as well as basics of scientific communication and scientometry.
Final evaluation: 0/100.

Learning outcomes:
Perform a model literature review – max. 30% of evaluation.
Student will demonstrate ability to work with bibliographic database PubMed / SCOPUS demonstrated by a systematically preformed review of scientific publications in the area of students choice. Literature review will be finalized by the end of 10th week of the subject duration.
Evaluation of quality of acquired references – max. 30% of evaluation.
Student will perform a critical data quality control of references included in his/her literature review. This should include among other: methodology of the study, design, strength of evidence, strengths and weaknesses of the publication. This will be provided by the end of subject duration
Compulsory active participation at seminars – max. 40% of evaluation.
Two excused absences.
Content knowledge standard
Student will demonstrate knowledge and skills in this field, which is defined as to its content based on results of education and as to its width based on the recommended literature.

Brief outline of the course:
Characteristics of research process; types of research and methodology of project planning; methods of data acquisition; methods of processing and quality control of acquired data; essence and structure of modern research; international collaboration in research; principles of leadership in medicine and science; types of scientific and non-scientific methods in research; research ethics; presentation of results; evidence-based medicine; types of scientific publications.

Recommended literature:
1. Chang M.: Principles of Scientific Methods. Chapman and Hall/CRC New York, 2014, 247s. https://doi.org/10.1201/b17167

2. Schultz K.F., Grimes D.A.: Essential Concepts in Clinical Research: Randomised Controlled Trials and Observational Epidemiology 2nd edition. Elsevier, 2018, 272s. ISBN 9780702073939.
3. Supino PG, Borer JS. Principles of Research Methodology: A Guide for Clinical Investigators. Springer, 2012, 293s. ISBN 978-1461433590

Course language:
English Language.

Notes:

Course assessment
Total number of assessed students: 18

abs	abs-A	abs-B	abs-C	abs-D	abs-E	neabs
100.0	0.0	0.0	0.0	0.0	0.0	0.0

Provides: prof. MUDr. Matej Škorvánek, PhD., MUDr. Miriama Ostrožovičová, PhD., MUDr. Maroš Rudnay, PhD.

Date of last modification: 02.05.2022

Approved: prof. MUDr. Peter Jarčuška, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Medicine	
Course ID: Dek. LF UPJŠ/SDT-GM1/22	**Course name:** Seminar of Diploma Thesis 1
Course type, scope and the method: **Course type:** Practice **Recommended course-load (hours):** **Per week: Per study period:** 50s **Course method:** present	
Number of ECTS credits: 2	
Recommended semester/trimester of the course: 9.	
Course level: I.II.	
Prerequisities:	
Conditions for course completion: Individual work, Obtaining credits	
Learning outcomes: Preparatory steps and formality of Diploma Thesis´ writing	
Brief outline of the course: • Main phases and basic steps of Diploma Thesis´ writing (conceptualization, planning, empirical phase, analytical and dissemination phase) • Ethical principles and Thesis writing principles (Thesis originality, copyright) • Formal aspects of Diploma Thesis • Citations and bibliographical references	
Recommended literature: 1. Directive No. 2/2022 for Final Theses Submitted at Pavol Jozef Šafárik University in Košice, Faculty of Medicine 2. Rozhodnutie rektora č. 9/2022 o predkladaní záverečných prác na 1., 2. a spojenom 1. a 2. stupni vysokoškolského vzdelávania a uzatváraní licenčných zmlúv. 3. DIRECTIVE No. 1/2011 on Essential Prerequisites of Final Theses, Doctorate Degree Theses, and Associate Professorship Degree Theses, Release and Making Available Thereof During the Time of Keeping the Same, and Originality Check Valid for Pavol Jozef Šafárik University in Košice and Its Constituents 4. STN 01 6910: 2010 5. STN ISO 690 6. STN ISO 2145 7. https://www.upjs.sk/en/departments/university-library/theses/ 8. Preparatory steps and formality of Diploma Thesis´ writing	
Course language:	
Notes:	

Course assessment
Total number of assessed students: 2014

abs	abs-A	abs-B	abs-C	abs-D	abs-E	neabs
98.36	0.45	0.0	0.0	0.0	0.0	1.19

Provides:

Date of last modification: 20.05.2022

Approved: prof. MUDr. Peter Jarčuška, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Medicine	
Course ID: Dek. LF UPJŠ/SDT-GM2/22	**Course name:** Seminar of Diploma Thesis 2
Course type, scope and the method: **Course type:** Practice **Recommended course-load (hours):** **Per week: Per study period:** 50s **Course method:** present	
Number of ECTS credits: 2	
Recommended semester/trimester of the course: 10.	
Course level: I.II.	
Prerequisities:	
Conditions for course completion: individual work, obtaining the credits	
Learning outcomes: Structure and content of the Diploma Thesis	
Brief outline of the course: • Structure of the Diploma Thesis: mainly parts of the Diploma Thesis - introductory and main part of the text • Content page of the Diploma Thesis I.: abstract, proem, introduction, discusion, conclusion • Content page of the Diploma Thesis II.: aim, metodology and research methods of the Diploma Thesis	
Recommended literature: 1. Directive No. 2/2022 for Final Theses Submitted at Pavol Jozef Šafárik University in Košice, Faculty of Medicine 2. Rozhodnutie rektora č. 9/2022 o predkladaní záverečných prác na 1., 2. a spojenom 1. a 2. stupni vysokoškolského vzdelávania a uzatváraní licenčných zmlúv. 3. DIRECTIVE No. 1/2011 on Essential Prerequisites of Final Theses, Doctorate Degree Theses, and Associate Professorship Degree Theses, Release and Making Available Thereof During the Time of Keeping the Same, and Originality Check Valid for Pavol Jozef Šafárik University in Košice and Its Constituents 4. STN 01 6910: 2010 5. STN ISO 690 6. STN ISO 2145 7. https://www.upjs.sk/en/departments/university-library/theses/ 8. Preparatory steps and formality of Diploma Thesis´ writing	
Course language: English	
Notes:	

Course assessment
Total number of assessed students: 1802

abs	abs-A	abs-B	abs-C	abs-D	abs-E	neabs
98.45	1.0	0.11	0.11	0.0	0.0	0.33

Provides:

Date of last modification: 20.05.2022

Approved: prof. MUDr. Peter Jarčuška, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Medicine	
Course ID: Dek. LF UPJŠ/SL-GM1/09	**Course name:** Slovak Language 1

Course type, scope and the method:
Course type: Lecture / Practice
Recommended course-load (hours):
Per week: 0 / 4 **Per study period:** 0 / 56
Course method: present

Number of ECTS credits: 2

Recommended semester/trimester of the course:

Course level: I.II.

Prerequisities:

Conditions for course completion:
Students are required to attend Slovak language classes according to the schedule. Active participation is required.
Students are not allowed to have more than four absences during the semester.
There is 1 continuous written assessment (Week 12). The result of the assessment must be at least 60%. Students are given the opportunity to retake the assessment if their results are lower than 60% in weeks 13 and 14.
Grading scale: A 100-91%, B 90-84%, C 83-75%, D 74-68%, E 67-60%, FX 59%
THE STUDY FORM: in person/distant/combined in accordance with epidemiological situation and the Rector's Ordinance.

Learning outcomes:
Students achieve basic language skills with the focus on the communication in selected general and medical topics - language level A1.1.

Brief outline of the course:
Human Body. Doctor - Patient Communication. Personal and Family History - Introduction.
My Family. In the Town. Medical Faculty, Accommodation. Healthy and Unhealthy Food and Drinks.
Numerals (0 – 100). Days of the Week. Colours. Personal Pronouns. Nouns – Grammatical Gender. Verbs - Conjugation in Present Tense.

Recommended literature:
Madárová, I., Barnišinová, L., Pálová, V.: Pán doktor, hovoríte po slovensky? Košice, UPJŠ 2019.
e-publikácia: Madárová, I. Pálová, V., Tóthová, L.: Pán doktor, rozumiete po slovensky? Cvičebnica. Košice, UPJŠ 2021.
Kamenárová, R. a kol.: Krížom-krážom. Slovenčina A1. Bratislava, Univerzita Komenského 2018.
Sedláková, M. a kol.: Slovenčina pre cudzincov. Pracovné listy. Košice: UPJŠ 2013. https://www.upjs.sk/public/media/5596/Sedlakova-Slovencina-pre-cudzincov.pdf
Doplnkové materiály pripravené vyučujúcimi v printovej a elektronickej forme.
www.slovake.eu

Course language:
English B2

Notes:

Course assessment
Total number of assessed students: 5333

abs	abs-A	abs-B	abs-C	abs-D	abs-E	neabs
30.75	15.81	14.29	12.15	10.26	12.41	4.33

Provides: Oksana Humenna, CSc., PhDr. Lucia Tóthová, PaedDr. Lívia Barnišinová, PhD., PhDr. Beáta Jurečková, PhD., Mgr. Ing. Ingrid Madárová, PhD., Mgr. Veronika Pálová, PhD.

Date of last modification: 01.10.2024

Approved: prof. MUDr. Peter Jarčuška, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Medicine	
Course ID: Dek. LF UPJŠ/SL-GM2/15	**Course name:** Slovak Language 2

Course type, scope and the method:
Course type: Lecture / Practice
Recommended course-load (hours):
Per week: 0 / 4 **Per study period:** 0 / 56
Course method: present

Number of ECTS credits: 2

Recommended semester/trimester of the course:

Course level: I.II.

Prerequisities: Dek. LF UPJŠ/SL-GM1/09

Conditions for course completion:
Students are required to attend Slovak language classes according to the schedule. Active participation is required. Students are not allowed to have more than 4 absences during the semester. Students are expected to be on time to class. In case of late arrivals which happen more than 3 times, students are given an absence. There is one continuous written assessment (week 13). The result of the continuous written assessment must be at least 60%. Students are given an opportunity to retake the continuous written assessment in the last week of the semester (week 14). Students with a final result lower than 60% in the summer semester are not allowed to register for the final exam, i.e. their final grade is FX. The final assessment is based on the result of the final oral exam and the continuous written assessment. The final grade = the final oral exam (the final oral exam = 60% of the final grade) + the continuous written assessment (the continuous written assessment = 40% of the final grade) = 100%. Grading scale: A 100-91 %, B 90-84 %, C 83-75 %, D 74-68 %, E 67-60 %, FX 59 and less. The study form: in person/distance/combined in accordance with epidemiological situation.

Learning outcomes:
Students are able to communicate with patients at the basic level, ask questions, give advice, etc. Language level A1.2.

Brief outline of the course:
Medical Topics: At the Doctor's: Vyšetrím vás. Budete užívať lieky. Health Problems: Máte problémy s trávením? Healthy Food. Diet: Nesmiete jesť potraviny s laktózou. At the Doctor's: Mali ste hnačku? At the Doctor's: Čo ste jedli? Daily Routine: Čo ste robili? In the Hospital: Na príjme. Referral to a Specialist: Pôjdete k očnému lekárovi. At the Doctor's: Odmeriam vám tlak.
Grammar: Future Tense. Perfective and Imperfective Verbs in Medical Communication.Verbs: ísť, odísť, prísť. Instrumental Case. Verbs: jesť, piť. Modal Verbs – Present Tense. Past Tense I. Past Tense II – Irregular Verbs. Past Tense III. – Questions, Word Order. Locative Case. Dative Case – Nouns, Prepositions.
Dative Case – Pronouns, Word Formations.

Recommended literature:
Madárová, I., Barnišinová, L., Pálová, V.: Pán doktor, hovoríte po slovensky? Košice, UPJŠ 2019.

e-book: Madárová, I. Pálová, V., Tóthová, L.: Pán doktor, rozumiete po slovensky? Cvičebnica. Košice, UPJŠ 2021.
Kamenárová, R. a kol.: Krížom-krážom. Slovenčina A1. Bratislava: Univerzita Komenského 2007 (+CD).
Sedláková, M. a kol.: Slovenčina pre cudzincov. Pracovné listy. Košice: UPJŠ 2013.
Doplnkové materiály pripravené vyučujúcimi v printovej a elektronickej forme.
http://www.slovake.eu

Course language:
English level B2 / Slovak level A1.1

Notes:

Course assessment
Total number of assessed students: 4589

A	B	C	D	E	FX
27.24	20.68	19.05	14.73	15.41	2.9

Provides: Oksana Humenna, CSc., PhDr. Lucia Tóthová, PaedDr. Lívia Barnišinová, PhD., PhDr. Beáta Jurečková, PhD., Mgr. Ing. Ingrid Madárová, PhD., Mgr. Veronika Pálová, PhD., Mgr. Jana Frankovská, PhD.

Date of last modification: 30.01.2025

Approved: prof. MUDr. Peter Jarčuška, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Medicine	
Course ID: Dek. LF UPJŠ/SL-GM3/15	**Course name:** Slovak Language 3

Course type, scope and the method:
Course type: Lecture / Practice
Recommended course-load (hours):
Per week: 0 / 2 **Per study period:** 0 / 28
Course method: present

Number of ECTS credits: 1

Recommended semester/trimester of the course:

Course level: I.II.

Prerequisities: Dek. LF UPJŠ/SL-GM2/15

Conditions for course completion:
Students are required to attend Slovak language classes according to the schedule. Active participation is required.
Students are not allowed to have more than two absences during the semester.
There is 1 continuous written assessment (week 12.). The result of the assessment must be at least 60%. Students are given an opportunity to retake the continuous written assessment in the last 2 weeks of the semester (week 13 and 14).
Grading scale: A 100-91%, B 90-84%, C 83-75%, D 74-68%, E 67-60%, FX 59% and less.
THE STUDY FORM: in person/distant/combined in accordance with epidemiological situation and the Rector's Ordinance.

Learning outcomes:
Students are able to communicate with patients, ask questions; give advice or instructions - language level A1.2.

Brief outline of the course:
Special Medical Examinations: Kidney Ultrasound, Chest X-ray, Urine Examination, Knee Examination... At the General Practitioner. Patient's Personal Data. Family History. Personal History. Localization of Pain. Provoking and Inhibiting Factors. Accompanying Risk Problems. At the Cardiology.
Genitive Case – Selectively. The Imperative. Past Tense. Modal Verbs.

Recommended literature:
Madárová, I., Barnišinová, L., Pálová, V.: „Pán doktor, hovoríte po slovensky?“ Košice, UPJŠ 2019.
Madárová, I., Pálová, V., Tóthová, L.: „Pán doktor, rozumiete po slovensky?“ Cvičebnica. Košice, UPJŠ 2021.
Petruňová, H.: How to Use Slovak in a Medical Environment – Basic Slovak for Medical Students. Košice, UPJŠ 2019.
Brožová, I.: Slovak for you. Bratislava, Ikar 2016.
Doplnkové materiály pripravené vyučujúcimi v printovej a elektronickej forme.

Course language:

English B2, Slovak A1.1.

Notes:

Course assessment
Total number of assessed students: 3713

abs	abs-A	abs-B	abs-C	abs-D	abs-E	neabs
27.58	10.88	10.99	15.08	13.92	16.54	5.01

Provides: Oksana Humenna, CSc., PaedDr. Lívia Barnišinová, PhD., PhDr. Beáta Jurečková, PhD., Mgr. Ing. Ingrid Madárová, PhD., Mgr. Veronika Pálová, PhD., PhDr. Lucia Tóthová, Mgr. Silvia Oravcová

Date of last modification: 01.10.2024

Approved: prof. MUDr. Peter Jarčuška, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Medicine	
Course ID: Dek. LF UPJŠ/SL-GM4/15	**Course name:** Slovak Language 4

Course type, scope and the method:
Course type: Lecture / Practice
Recommended course-load (hours):
Per week: 0 / 2 **Per study period:** 0 / 28
Course method: present

Number of ECTS credits: 1

Recommended semester/trimester of the course:

Course level: I.II.

Prerequisities: Dek. LF UPJŠ/SL-GM3/15

Conditions for course completion:
Students are required to attend Slovak language classes according to the schedule. Active participation is required. Students are not allowed to have more than two absences during the semester. Students are expected to be on time to class. In case of late arrivals which happen more than 3 times, students are given an absence. There is one continuous written assessment (week 13). The result of the continuous written assessment must be at least 60%. Students are given an opportunity to retake the continuous written assessment in the last week of the semester (week 14). Students with a final result lower than 60% in the summer semester are not allowed to register for the final exam, i.e. their final grade is FX. The final assessment is based on the result of the final oral exam and the continuous written assessment. The final grade = the final oral exam (the final oral exam = 60% of the final grade) + the continuous written assessment (the continuous written assessment = 40% of the final grade) = 100%.
Grading scale: A 100-91 %, B 90-84 %, C 83-75 %, D 74-68 %, E 67-60 %, FX 59 and less.
The study form: in person/distance/combined in accordance with epidemiological situation.

Learning outcomes:
Students are able to communicate with patients at the basic level at specialized departments in hospital. Language level A2.1.

Brief outline of the course:
Medical Topics: Personal History - Present and Previous Diseases. Drug History. Allergies. Social History. Addictions. Gynaecologic History. Pregnancy and Obstetric History. History Taking in Paediatrics I. Communication with Parents. History Taking in Paediatrics II. Communication with Children. History Taking in Neurology.
History Taking in Surgery I. Localization of Pain. History Taking in Surgery II. Intensity and Types of Pain. Complex Medical History.
Grammar: The Dative Case. Comparison of Adverbs. Deminutives. Imperative Forms in Informal Communication. Imperative Forms. Conditional.

Recommended literature:
Petruňová, H.: How to Use Slovak in a Medical Environment – Basic Slovak for Medical Students. Košice: UPJŠ 2019.

Madárová, I., Barnišinová, L., Pálová, V.: Pán doktor, hovoríte po slovensky? Košice, UPJŠ 2019. e-publikácia: Madárová, I. Pálová, V., Tóthová, L.: Pán doktor, rozumiete po slovensky? Cvičebnica. Košice, UPJŠ 2021.
Doplnkové materiály pripravené vyučujúcimi v printovej a elektronickej forme.

Course language:
English level B2/ Slovak level A1.2

Notes:

Course assessment
Total number of assessed students: 3178

A	B	C	D	E	FX
26.34	22.03	19.41	14.32	15.32	2.58

Provides: PaedDr. Lívia Barnišinová, PhD., Oksana Humenna, CSc., PhDr. Beáta Jurečková, PhD., Mgr. Ing. Ingrid Madárová, PhD., Mgr. Veronika Pálová, PhD., PhDr. Lucia Tóthová

Date of last modification: 30.01.2025

Approved: prof. MUDr. Peter Jarčuška, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Medicine	
Course ID: CJP/ LFKZSL1/16	**Course name:** Slovak Language Communication Skills for Medical Practice 1

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

Number of ECTS credits: 2

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

Course level: I.II.

Prerequisities: Dek. LF UPJŠ/SL-GM2/15

Conditions for course completion:
Active participation is required. Students are not allowed to have more than 2 absences during the semester. There are 2 written tests (weeks 7 and 13). The result of each test must be at least 60%. Students are given the opportunity to retake the tests in the last week of the semester (week 14). Students with a result lower than 60% are not allowed to register for the final exam, i.e., their final grade is FX. The final assessment is based on the result of the final oral exam. Grading scale: A 100-91%, B 90-84%, C 83-75%, D 74-68%, E 67-60%, FX 59% and less. The study form: in person/ distance/combined in accordance with epidemiological situation and the Rector's ordinances.

Learning outcomes:
The development of language skills (listening, speaking, reading, writing,), students will develop their linguistic and pragmatic component of communicative language competence with focus on Slovak for specific purposes for general medicine.

Brief outline of the course:
Self-presentation. Human Body. Diseases and Illnesses, Signs and Symptoms of Particular Diseases and Illnesses. Medical and Health Professions. Medical History. Family History. At the Department of Surgery. At the Accident and Emergency Department. At the Department of Orthopaedics. Doctor-Patient Communication. Healthy Lifestyle. Hobbies and Free-Time Activities. Sports.
Selected Grammatical Features and Language Functions (conditional sentences and imperative, morphology, medical and general vocabulary, phrasal idioms).

Recommended literature:
Materials prepared by teachers in print and electronic forms.

Course language:
Slovak Language A1.1 - A1.2

Notes:

Course assessment
Total number of assessed students: 50

A	B	C	D	E	FX
68.0	16.0	8.0	0.0	6.0	2.0

Provides: PhDr. Lucia Tóthová, Mgr. Veronika Pálová, PhD.

Date of last modification: 16.09.2024

Approved: prof. MUDr. Peter Jarčuška, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Medicine	
Course ID: CJP/ LFKZSL2/16	**Course name:** Slovak Language Communication Skills for Medical Practice 2
Course type, scope and the method: **Course type:** Practice **Recommended course-load (hours):** **Per week:** 2 **Per study period:** 28 **Course method:** present	
Number of ECTS credits: 2	
Recommended semester/trimester of the course: 4., 6., 8.	
Course level: I.II.	
Prerequisities: CJP/LFKZSL1/16	
Conditions for course completion: Students are required to attend classes according to the schedule. Active participation is required. Students are not allowed to have more than 2 absences during the semester. Students are expected to be on time to class. In case of late arrivals which happen more than 3 times, students are given an absence. There are 2 continuous oral assessments (weeks 7 and 13). The result of each continuous assessment must be at least 60%. Students are given an opportunity to retake the continuous assessment in the last week of the semester (week 14). Students with a result lower than 60% in the summer semester are not allowed to register for the final exam, i.e., their final grade is FX. The final assessment is based on the result of the final oral exam. Grading scale: A 100-91%, B 90-84%, C 83-75%, D 74-68%, E 67-60%, FX 59% and less. The study form: in person/distance/combined in accordance with the current situation and Rector's ordinances.	
Learning outcomes: The development of language skills (reading, listening, speaking), students will improve their linguistic and pragmatic competence with focus on English for specific/professional purposes – General medicine.	
Brief outline of the course: Doctor – patient communication. At the Department of Gastroenterology. At the Department of Paediatrics. At the Department of Cardiology. At the Department of Neurology. At the Department of Otorhinolaryngology. At the Department of Allergology and Immunology. At the Department of Dermatology. At the Department of Ophthalmology. At the Department of Stomatology. At the Department of Psychiatry.	
Recommended literature: Materials prepared by the teacher.	
Course language: Slovak Language A2	
Notes:	

Course assessment Total number of assessed students: 15					
A	B	C	D	E	FX
80.0	6.67	13.33	0.0	0.0	0.0
Provides: Mgr. Veronika Pálová, PhD.					
Date of last modification: 01.02.2025					
Approved: prof. MUDr. Peter Jarčuška, PhD.					

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: CJP/ LFSM/16	**Course name:** Slovak Language in Medicine

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

Number of ECTS credits: 2

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

Course level: I.II.

Prerequisities: Dek. LF UPJŠ/SL-DM2/15 or Dek. LF UPJŠ/SL-GM2/15

Conditions for course completion:
Students are required to attend classes according to the schedule. Active participation is required. Students are not allowed to have more than 2 absences during the semester. Students are expected to be on time to class. In case of late arrivals which happen more than 3 times, students are given an absence. There are 2 written tests (weeks 7 and 13). The result of each test must be at least 60%. Students are given an opportunity to retake the tests in the last week of the semester (week 14). Students with a result lower than 60% in the summer semester are not allowed to register for the final exam, i.e., their final grade is FX. The final assessment is based on the result of the final written exam. Grading scale: A 100-91%, B 90-84%, C 83-75%, D 74-68%, E 67-60%, FX 59% and less. The study form: in person/distance/combined in accordance with the current situation and Rector's ordinances.

Learning outcomes:
Consolidation of students' language skills, students will learn grammatical and lexical structures and stylistic characteristics of specialised written and oral discourse at A2.1 level.

Brief outline of the course:
Selected grammatical and lexical structures and stylistic characteristics of specialised written and oral discourse. Grammatical tenses and cases. Word-formation. Imperative forms. Phrasal idioms and phrases in medicine. Medical history taking.

Recommended literature:
Materials prepared by the teacher.

Course language:
Slovak language A2

Notes:

Course assessment
Total number of assessed students: 68

A	B	C	D	E	FX
50.0	25.0	10.29	10.29	4.41	0.0

Provides: PhDr. Lucia Tóthová, Mgr. Veronika Pálová, PhD.
Date of last modification: 01.02.2025
Approved: prof. MUDr. Peter Jarčuška, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Medicine	
Course ID: ÚTVŠ/ ŠALF 1/22	**Course name:** Sport 1

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

Number of ECTS credits: 1

Recommended semester/trimester of the course: 7., 9.

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

Prerequisities:

Conditions for course completion:
Condition for successful course completion:
- active participation in line with the study rule of procedure and course guidelines
- students must meet the requirements to 80%

Learning outcomes:
Sports activities in all their forms prepare university students for their further professional and personal life. A personal experience allows them to understand the importance of physical activity for life. Sports actively influence physical fitness and performance, help to maintain mental health, and improve the health of those engaged in sport. The skills and abilities acquired and improved during exercise, strengthen students´ relationships toward physical activities and provide an opportunity to affect their near and the wider environment in a selected sport activity.
Content standard:
The student demonstrates relevant knowledge and skills in the field, which content is defined in the course syllabus and recommended literature.
Performance standard:
Upon completion of the course students meet the performance standard and:
- acquire movement skills in a particular sport, basic skills and complex skills in sport games and swimming competency
- increase the level of speed, endurance, power and agility, overall fitness and performance
- can apply the exercises in practice,
- can apply a specific health-oriented programme to target health problems
- can apply acquired knowledge and skills in the sport development process and leisure time

Brief outline of the course:
Brief outline of the course:
The Institute of physical education and sport at the Pavol Jozef Šafárik University offers 20 sports activities aerobics; aikido, basketball, badminton, body-balance, body form, bouldering, floorball, yoga, power yoga, pilates, swimming, fitness, indoor football, SM system, step aerobics, table tennis, chess, volleyball, tabata, cycling.
Additionally, the Institute of physical education and sport at the Pavol Jozef Šafárik University offers winter courses (ski course, survival) and summer courses (aerobics by the sea, rafting on

the Tisza River) with an attractive programme, sports competitions with national and international participation.

Recommended literature:

Course language:

Notes:

Course assessment
Total number of assessed students: 1116

abs	abs-A	abs-B	abs-C	abs-D	abs-E	neabs
91.58	0.63	0.0	0.0	0.0	0.27	7.53

Provides: Mgr. Patrik Berta, Mgr. Alena Buková, PhD., univerzitná docentka, Mgr. Marcel Čurgali, Mgr. Agata Dorota Horbacz, PhD., Mgr. Dávid Kaško, PhD., Mgr. Ladislav Kručanica, PhD., Mgr. Richard Melichar, Mgr. Petra Tomková, PhD., prof. RNDr. Stanislav Vokál, DrSc., Blažej Pandula, doc. PaedDr. Ivan Uher, MPH, PhD., Mgr. Zuzana Küchelová, PhD., Mgr. Ferdinand Salonna, PhD.

Date of last modification: 07.02.2024

Approved: prof. MUDr. Peter Jarčuška, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Medicine	
Course ID: ÚTVŠ/ ŠALF 2/22	**Course name:** Sport 2

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

Number of ECTS credits: 1

Recommended semester/trimester of the course: 4., 6., 8., 10.

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

Prerequisities:

Conditions for course completion:
Condition for successful course completion:
- active participation in line with the study rule of procedure and course guidelines
- students must meet the requirements to 80%

Learning outcomes:
Learning outcomes:Sports activities in all their forms prepare university students for their further professional and personal life. A personal experience allows them to understand the importance of physical activity for life. Sports actively influence physical fitness and performance, help to maintain mental health, and improve the health of those engaged in sport. The skills and abilities acquired and improved during exercise, strengthen students´ relationships toward physical activities and provide an opportunity to affect their near and the wider environment in a selected sport activity.
Content standard:
The student demonstrates relevant knowledge and skills in the field, which content is defined in the course syllabus and recommended literature.
Performance standard:
Upon completion of the course students meet the performance standard and:
- acquire movement skills in a particular sport, basic skills and complex skills in sport games and swimming competency
- increase the level of speed, endurance, power and agility, overall fitness and performance
- can apply the exercises in practice,
- can apply a specific health-oriented programme to target health problems
- can apply acquired knowledge and skills in the sport development process and leisure time

Brief outline of the course:
Brief outline of the course:
The Institute of physical education and sport at the Pavol Jozef Šafárik University offers 20 sports activities aerobics; aikido, basketball, badminton, body-balance, body form, bouldering, floorball, yoga, power yoga, pilates, swimming, fitness, indoor football, SM system, step aerobics, table tennis, chess, volleyball, tabata, cycling.
Additionally, the Institute of physical education and sport at the Pavol Jozef Šafárik University offers winter courses (ski course, survival) and summer courses (aerobics by the sea, rafting on

the Tisza River) with an attractive programme, sports competitions with national and international participation.

Recommended literature:

Course language:

Notes:

Course assessment
Total number of assessed students: 788

abs	abs-A	abs-B	abs-C	abs-D	abs-E	neabs
92.51	0.0	0.0	0.0	0.0	0.38	7.11

Provides: Mgr. Patrik Berta, Mgr. Alena Buková, PhD., univerzitná docentka, Mgr. Marcel Čurgali, Mgr. Agata Dorota Horbacz, PhD., Mgr. Dávid Kaško, PhD., Mgr. Ladislav Kručanica, PhD., Mgr. Richard Melichar, Mgr. Petra Tomková, PhD., Blažej Pandula, prof. RNDr. Stanislav Vokál, DrSc., doc. PaedDr. Ivan Uher, MPH, PhD., Mgr. Zuzana Küchelová, PhD., Mgr. Ferdinand Salonna, PhD.

Date of last modification: 07.02.2024

Approved: prof. MUDr. Peter Jarčuška, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: ÚTVŠ/ ŠALF 3/22	**Course name:** Sport 3

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

Number of ECTS credits: 1

Recommended semester/trimester of the course: 3.

Course level: I., I.II.

Prerequisities:

Conditions for course completion:
Condition for successful course completion:
- active participation in line with the study rule of procedure and course guidelines
- students must meet the requirements to 80%

Learning outcomes:
Learning outcomes:
Sports activities in all their forms prepare university students for their further professional and personal life. A personal experience allows them to understand the importance of physical activity for life. Sports actively influence physical fitness and performance, help to maintain mental health, and improve the health of those engaged in sport. The skills and abilities acquired and improved during exercise, strengthen students´ relationships toward physical activities and provide an opportunity to affect their near and the wider environment in a selected sport activity.
Content standard:
The student demonstrates relevant knowledge and skills in the field, which content is defined in the course syllabus and recommended literature.
Performance standard:
Upon completion of the course students meet the performance standard and:
- acquire movement skills in a particular sport, basic skills and complex skills in sport games and swimming competency
- increase the level of speed, endurance, power and agility, overall fitness and performance
- can apply the exercises in practice,
- can apply a specific health-oriented programme to target health problems
- can apply acquired knowledge and skills in the sport development process and leisure time

Brief outline of the course:
Brief outline of the course:
The Institute of physical education and sport at the Pavol Jozef Šafárik University offers 20 sports activities aerobics; aikido, basketball, badminton, body-balance, body form, bouldering, floorball, yoga, power yoga, pilates, swimming, fitness, indoor football, SM system, step aerobics, table tennis, chess, volleyball, tabata, cycling.

Additionally, the Institute of physical education and sport at the Pavol Jozef Šafárik University offers winter courses (ski course, survival) and summer courses (aerobics by the sea, rafting on the Tisza River) with an attractive programme, sports competitions with national and international participation.

Recommended literature:

Course language:

Notes:

Course assessment
Total number of assessed students: 1970

abs	abs-A	abs-B	abs-C	abs-D	abs-E	neabs
92.79	0.25	0.0	0.05	0.0	0.81	6.09

Provides: Mgr. Patrik Berta, Mgr. Alena Buková, PhD., univerzitná docentka, Mgr. Marcel Čurgali, Mgr. Agata Dorota Horbacz, PhD., Mgr. Dávid Kaško, PhD., Mgr. Ladislav Kručanica, PhD., Mgr. Richard Melichar, Mgr. Petra Tomková, PhD., Blažej Pandula, prof. RNDr. Stanislav Vokál, DrSc., doc. PaedDr. Ivan Uher, MPH, PhD., Mgr. Zuzana Küchelová, PhD., Mgr. Ferdinand Salonna, PhD.

Date of last modification: 07.02.2024

Approved: prof. MUDr. Peter Jarčuška, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: ÚTVŠ/ ŠALF 4/22	**Course name:** Sport 4

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

Number of ECTS credits: 1

Recommended semester/trimester of the course: 4., 6., 8., 10.

Course level: I., I.II.

Prerequisities:

Conditions for course completion:
Condition for successful course completion:
- active participation in line with the study rule of procedure and course guidelines
- students must meet the requirements to 80%

Learning outcomes:
Learning outcomes:
Sports activities in all their forms prepare university students for their further professional and personal life. A personal experience allows them to understand the importance of physical activity for life. Sports actively influence physical fitness and performance, help to maintain mental health, and improve the health of those engaged in sport. The skills and abilities acquired and improved during exercise, strengthen students´ relationships toward physical activities and provide an opportunity to affect their near and the wider environment in a selected sport activity.
Content standard:
The student demonstrates relevant knowledge and skills in the field, which content is defined in the course syllabus and recommended literature.
Performance standard:
Upon completion of the course students meet the performance standard and:
- acquire movement skills in a particular sport, basic skills and complex skills in sport games and swimming competency
- increase the level of speed, endurance, power and agility, overall fitness and performance
- can apply the exercises in practice,
- can apply a specific health-oriented programme to target health problems
- can apply acquired knowledge and skills in the sport development process and leisure time

Brief outline of the course:
Brief outline of the course:
The Institute of physical education and sport at the Pavol Jozef Šafárik University offers 20 sports activities aerobics; aikido, basketball, badminton, body-balance, body form, bouldering, floorball, yoga, power yoga, pilates, swimming, fitness, indoor football, SM system, step aerobics, table tennis, chess, volleyball, tabata, cycling.

Additionally, the Institute of physical education and sport at the Pavol Jozef Šafárik University offers winter courses (ski course, survival) and summer courses (aerobics by the sea, rafting on the Tisza River) with an attractive programme, sports competitions with national and international participation.

Recommended literature:

Course language:

Notes:

Course assessment
Total number of assessed students: 436

abs	abs-A	abs-B	abs-C	abs-D	abs-E	neabs
88.76	0.0	0.0	0.0	0.0	0.46	10.78

Provides: Mgr. Patrik Berta, Mgr. Alena Buková, PhD., univerzitná docentka, Mgr. Marcel Čurgali, Mgr. Agata Dorota Horbacz, PhD., Mgr. Dávid Kaško, PhD., Mgr. Ladislav Kručanica, PhD., Mgr. Richard Melichar, Mgr. Petra Tomková, PhD., Blažej Pandula, prof. RNDr. Stanislav Vokál, DrSc., doc. PaedDr. Ivan Uher, MPH, PhD., Mgr. Zuzana Küchelová, PhD., Mgr. Ferdinand Salonna, PhD.

Date of last modification: 07.02.2024

Approved: prof. MUDr. Peter Jarčuška, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: Dek. LF UPJŠ/SSW/09	**Course name:** Student Science Work - Presentation at SSC

Course type, scope and the method:
Course type: Lecture / Practice
Recommended course-load (hours):
Per week: 0 / 2 **Per study period:** 0 / 28
Course method: present

Number of ECTS credits: 4

Recommended semester/trimester of the course: 3., 4.., 5., 6.., 7., 8.., 9., 10..

Course level: I.II.

Prerequisities:

Conditions for course completion:
Presentation in the faculty round of SSW

Learning outcomes:

Brief outline of the course:
Work under the guidance of the topic´s supervisor of SSW and presentation of results

Recommended literature:
According to the chosen topic

Course language:
English

Notes:

Course assessment
Total number of assessed students: 57

abs	abs-A	abs-B	abs-C	abs-D	abs-E	neabs
87.72	10.53	0.0	0.0	0.0	0.0	1.75

Provides:

Date of last modification: 17.05.2022

Approved: prof. MUDr. Peter Jarčuška, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: 1. ChK/ S-SS-GM/22	**Course name:** Surgery

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

Number of ECTS credits: 2

Recommended semester/trimester of the course: 11., 12..

Course level: I.II.

Prerequisities: ChK/S-GM6/22 and ChK/CS-GM/24 and UFR/PM-GM2/25 and USL/FMML-GM/22 and OK/OF-GM/13 and KORLaF/ORL-GM/14 and 1. KAIM/AIM-GM/24

Conditions for course completion:
It is obtaining at least 300 credits for compulsory and optional subjects in the prescribed composition by the study plan for the 1st to 5th year + completion of the mandatory subject Surgery 6.

Learning outcomes:
To verify the student's acquired theoretical knowledge and skills from the subject of the state exam, i.e. abdominal, thoracic, cardiovascular, trauma, pediatric and plastic surgery, urology, neurosurgery, and orthopedics. Verify practical knowledge in examining the patient and writing a medical record - mastering the basics of medical documentation. Practical verification of diagnostics knowledge using imaging methods - X-rays, CT, angiography, ultrasonography, and MRI of primary surgical diseases.

Brief outline of the course:
Summarize knowledge within the block and multidisciplinary seminars in thoracic surgery, vascular surgery, abdominal surgery, pediatric surgery, oncological surgery, neurosurgery, orthopedics, and urology. Chest and mediastinal surgery. Sudden abdominal events. Trauma surgery. Principles of transport of the sick and wounded in shock, unconsciousness, spinal injury. Burns. Cardiovascular surgery. Pediatric surgery. Resuscitation and intensive care. Oncosurgery. Neurosurgery.

Recommended literature:

Course language:
English

Notes:

Course assessment
Total number of assessed students: 1585

A	B	C	D	E	FX
32.74	19.75	19.43	12.05	13.19	2.84

Provides:

Date of last modification: 16.05.2022
Approved: prof. MUDr. Peter Jarčuška, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: ChK/ SP-GM/15	**Course name:** Surgery - Propedeutics

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

Number of ECTS credits: 5

Recommended semester/trimester of the course: 5.

Course level: I.II.

Prerequisities: UHE/HE-GM2/17 and (UA/A-GM2/22 or UA/A-GM2/14)

Conditions for course completion:
1. For successful completion of the practical exercises / lectures is required:
- To participate at all of practical and theoretical exercises (100%) / lectures (75%)
- To get at least 60 % of total score for ongoing review of written test
- Two absences are possible needed to be compensated
2. For successful obtained of the credits from subject is necessary:
- To gain the credit from practical exercises / lectures (paragraph 1 above)
- The control tests are evaluated on the basis of the achieved number of points (%)
- Evaluation: Study rules of procedure UPJŠ in Košice, the Faculty of Medicine, Part II, Art. 13, Paragraph 4
- The final exam consists of oral parts
- To the exam bring the student´s book with attendance
- The final classification includes the evaluation of the written test and the results obtained in practical exercises

Learning outcomes:
Get knowledge from the basics of symptomatology and diagnostics of surgical diseases, using physical, laboratory and instrumental examination. Students will acquire basics of RTG diagnostics of acute abdomen and other RTG contrast examinations of gastrointestinal tract, thorax and skeletal injuries. Apprise principles of surgical procedures, preoperative care of the patient and postoperative care. The attention is focused on the basics of surgical thinking and scientific work in surgery.

Brief outline of the course:
Introduction to Surgery-propedeutic study. History development of surgery. Patient history and symptoms of surgical diseases and its value for establishment of proper diagnosis. Basic principles of clinical examination. Value of paraclinic examinations – lab.tests.X ray, CT, US, MRI, endoscopy and nuclear medicine techniques for approvement of clinical diagnosis in acute and chronic surgical diseases. Principles of antisepsis and sepsis. Desinfection and sterilisation in surgical ward and in all health care facilities. Preoperative management of the patient. Indications and contraindications for the operation. Basic operative procedures – terminology, classification, description. Shock in surgery. Shock in surgery. Basis methods of anasthesia. Types of anaesthesia

(anaesthesia, premedication, general anaesthesia, endotracheal anaesthesia). Postoperative care. General principles of postoperative care. Operative wounds, types of wounds, healing of wounds. Tromboembolism in surgery. Thrombophlebitis, phlebotrombosis, pulmonary embolism, air and fat embolism. Bleeding in surgery. Non- surgical diseases – cardiovascular, respirátory, metabolic, hepatocelular, renal, endocrine, neurologic, haemarological, ummunological in correlation to surgical procedure. Blood derivates and transfusions for urgent and elective surgery.

Recommended literature:

Frankovičová, M. et al.: Surgery for medical students. Košice, Faculty of Medicine, Pavol Jozef Šafárik University in Košice, 2014, 408 p. ISBN 978-80-8152-202-4
Frankovičová, M., Kaťuchová J. et al.: Surgery for medical students. second revised edition, Košice, Faculty of Medicine, Pavol Jozef
Šafárik University in Košice, 2017, 521 p. ISBN 978-80-8152-581-0

Course language:
English

Notes:

Course assessment
Total number of assessed students: 2535

A	B	C	D	E	FX
49.78	19.61	13.69	7.57	8.8	0.55

Provides: doc. MUDr. Miroslav Gajdoš, CSc., MPH, prof. MUDr. Jozef Radoňak, CSc., MPH, prof. MUDr. Mária Frankovičová, PhD., prof. MUDr. Jana Kaťuchová, PhD., MBA, MUDr. Andrej Vrzgula, PhD., MUDr. Milan Šudák, PhD., MUDr. Róbert Šimon, PhD., MPH, MUDr. Pavol Harbuľák, MUDr. Tomáš Gajdzik, PhD., MHA, MPH, MUDr. Tomáš Hildebrand, PhD., MUDr. Róbert Kilík, PhD., MUDr. Lucia Sukovská Lakyová, PhD., MPH, doc. MUDr. Marek Šoltés, PhD., doc. MUDr. Vladimír Sihotský, PhD., doc. MUDr. Martina Zavacká, PhD., MPH, MUDr. Lucia Mistríková, PhD., MUDr. Štefánia Mižáková, PhD., prof. MUDr. František Sabol, PhD., MPH, MBA, doc. MUDr. Tomáš Toporcer, PhD., doc. MUDr. Vladimír Kaťuch, PhD., MBA, MUDr. Jozef Voltér, doc. MUDr. Adrián Kolesár, PhD., MPH

Date of last modification: 07.03.2023

Approved: prof. MUDr. Peter Jarčuška, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: ChK/S-GM1/22	**Course name:** Surgery 1

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

Number of ECTS credits: 4

Recommended semester/trimester of the course: 6.

Course level: I.II.

Prerequisities: ChK/SP-GM/15

Conditions for course completion:
1. For successful completion of the practical exercises / lectures is required:
- To participate at all of practical and theoretical exercises (100%) / lectures (75%)
- To get at least 60 % of total score for ongoing review of written test
- Two absences are possible needed to be compensated
2. For successful obtained of the credits from subject is necessary:
- To gain the credit from practical exercises / lectures (paragraph 1 above)
- The control tests are evaluated on the basis of the achieved number of points (%)
- Evaluation: Study rules of procedure UPJŠ in Košice, the Faculty of Medicine, Part II, Art. 13, Paragraph 4
- The results of ongoing evaluations are included in the final classification

Learning outcomes:
Students gain basic information on diagnosis and treatment of surgical diseases of infectious origin. The outcome of the studies of trauma and war surgery is the acquiring the basic knowledge of injury causes and prevention, pointing out the peculiarities of war injuries. Important is the knowledge of open and closed wounds – students must master first aid as well as the basics of conservative and surgical treatment and its complications. Important is the knowledge of shock pathophysiology as well as its diagnosis and treatment. The aim in the field of plastic and replacement surgery is the knowledge of the possibilities in these fields as well as indications, preparation, transportation of a patient as well as a replacement to the corresponding department. The important part of the surgery is the gained knowledge in the field of post-surgical rehabilitation of patients. Significant are also the basics of dietetics of surgical patients with the possibilities of parenteral and enteral nutrition. Students master the basics of home parenteral nutrition all-in-one, taking into consideration the increasing number of patients also in Slovakia. Significant is the knowledge of the increasing importance of enteral nutrition everywhere in the post-surgical period where its usage is possible.

Brief outline of the course:
Surgical infection I., Surgical infection II., Injury, prevention of injuries, occupational and nonoccupational injury (categories of injuries, mass injury, disaster), Open injuries – types of open injuries. Wounds, types of wounds, healing of wounds. First aid, modalites of the treatment, Closed injuries – types of closed injuries. Fractures and dislocations. First aid. Conservative therapy.

Speciality of military injuries and their management. Cardiovascular injury, Shock, pathogenesis of the shock. Manifestations of the shock, laboratory diagnostic methods, clinical symptoms and therapy. Failure of organs, Thermal and cold injuries, The basic problems and principles of plastic surgery, Basic principles of microsurgery and replantation surgery, Basic principles of transplantation surgery, Principles of rehabilitation of surgical patients, Principles of dietetics in surgical patients in pre- and post-operative period. Parenteral and enteral nutrition in surgical diseases.

Recommended literature:

Frankovičová, M. et al.: Surgery for medical students. Košice, Faculty of Medicine, Pavol Jozef Šafárik University in Košice, 2014, 408 p. ISBN 978-80-8152-202-4

Frankovičová, M., Kaťuchová J. et al.: Surgery for medical students, second revised edition, Košice, Faculty of Medicine, Pavol Jozef Šafárik University in Košice, 2014, 408 p. ISN 978-80-8152-581-0

Course language:

English

Notes:

Course assessment

Total number of assessed students: 2365

abs	abs-A	abs-B	abs-C	abs-D	abs-E	neabs
32.56	41.14	12.18	5.79	4.19	4.06	0.08

Provides: doc. MUDr. Miroslav Gajdoš, CSc., MPH, prof. MUDr. Mária Frankovičová, PhD., prof. MUDr. Jozef Radoňak, CSc., MPH, prof. MUDr. Jana Kaťuchová, PhD., MBA, MUDr. Pavol Harbuľák, MUDr. Marián Kudláč, MUDr. Milan Šudák, PhD., MUDr. Andrej Vrzgula, PhD., MUDr. Milan Stebnický, PhD., MUDr. Róbert Šimon, PhD., MPH, MUDr. Tomáš Gajdzik, PhD., MHA, MPH, doc. MUDr. Marek Šoltés, PhD., MUDr. Mária Kubíková, PhD., doc. MUDr. Vladimír Sihotský, PhD., MUDr. Peter Štefanič, PhD., doc. MUDr. Martina Zavacká, PhD., MPH, MUDr. Lucia Sukovská Lakyová, PhD., MPH, MUDr. Jozef Brezina, PhD., doc. MUDr. Adrián Kolesár, PhD., MPH, MUDr. Lucia Mistríková, PhD., prof. MUDr. František Sabol, PhD., MPH, MBA, doc. MUDr. Tomáš Toporcer, PhD., doc. MUDr. Vladimír Kaťuch, PhD., MBA, MUDr. Tomáš Hildebrand, PhD., MUDr. Róbert Kilík, PhD., prof. MUDr. Miroslav Kitka, PhD., prof. MUDr. Radoslav Morochovič, PhD., MUDr. Peter Lengyel, PhD., MUDr. Peter Varga

Date of last modification: 07.03.2023

Approved: prof. MUDr. Peter Jarčuška, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Medicine	
Course ID: ChK/S-GM2/19	**Course name:** Surgery 2

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

Number of ECTS credits: 4

Recommended semester/trimester of the course: 7.

Course level: I.II.

Prerequisities: ChK/S-GM1/22 and UP/PA-GM1/22

Conditions for course completion:
I. For successful completion of the practical exercises/lectures is required:
- To participate at all of practical exercises (100%) and theoretical lectures (75%).
- To get at least 60 % of total score for ongoing review of written test
- Two absences are allowed, needed to be compensated
II. For successful obtained of the credits from subject is necessary:
- To gain the credit from practical exercises (paragraph 1 above).
- Evaluation: Study rules of procedure UPJŠ in Košice, the Faculty of Medicine, Par II, Art13
- The final classification includes the evaluation of the written test and the results obtained in practical exercises

Learning outcomes:
The students acquire knowledge of the surgical treatment of diseases of the throat and thyroid, the basics of thoracic surgery, including heart disease and blood vessels. The students will be able to use knowledge from the abdominal surgery, the basic principles of treatment of liver, gallbladder, bile duct, pancreas, spleen and stomach and duodenum diseases.

Brief outline of the course:
Surgery of the neck, thyroid gland and parathyroid gland.
Surgery of the thoracic wall and surgery of the mediastinum. Surgery of the breast. Surgery of the trachea, lung and pleura. Surgery of the oesophagus and diaphragm. Surgery of the congenital and acquired diseases of the heart. Surgery of the arteries. Surgery of the veins and lymphatic veins. Surgery of the abdominal wall and hernia. Surgery of the pancreas. Surgery of the spleen. Surgery of the gall- bladder and the biliary tree. Surgery of the liver. Surgical icterus, portal hypertension, hepatorenal syndrome. Surgery of the stomach and the duodenum.

Recommended literature:
Frankovičová, M. et al.: Surgery for medical students. Košice, Faculty of Medicine, Pavol Jozef Šafárik University in Košice, 2014, 408 p. ISBN 978-80-8152-202-4
Doherty G.: Current Diagnosis & Treatment Surgery, 13 ed., McGraw-Hill Medical, 2010
Cameron, JL.: Current surgical therapy. 8.ed., Philadelphia; Elsevier, 2013
Townsend, CM. et al.: Sabiston Textbook of Surgery: The Biological Basis of Modern Surgical Practice. 19 ed., Elsevier : Toronto, 2012

Mclatchie G, Borley N, Chikve J.: Oxford handbook in clinical surgery. 4.ed., Oxford: University Press, 2007

Course language:
English

Notes:

Course assessment
Total number of assessed students: 2137

abs	abs-A	abs-B	abs-C	abs-D	abs-E	neabs
24.61	43.05	15.86	9.27	4.02	3.14	0.05

Provides: prof. MUDr. Mária Frankovičová, PhD., prof. MUDr. Jozef Radoňak, CSc., MPH, prof. MUDr. Jana Kaťuchová, PhD., MBA, MUDr. Pavol Harbuľák, MUDr. Marián Kudláč, MUDr. Milan Šudák, PhD., MUDr. Milan Stebnický, PhD., MUDr. Róbert Šimon, PhD., MPH, MUDr. Tomáš Gajdzik, PhD., MHA, MPH, MUDr. Tomáš Hildebrand, PhD., MUDr. Róbert Kilík, PhD., doc. MUDr. Marek Šoltés, PhD., doc. MUDr. Ivan Kováč, PhD., doc. MUDr. Adrián Kolesár, PhD., MPH, MUDr. Jozef Brezina, PhD., MUDr. Dušan Leško, PhD., MUDr. Michal Chyla, PhD., doc. MUDr. Martina Vidová Ugurbas, PhD., MPH, MUDr. Kleanthia Efthymiou Popovičová, PhD., MUDr. Sara Kamal

Date of last modification: 07.03.2023

Approved: prof. MUDr. Peter Jarčuška, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: ChK/S-GM3/17	**Course name:** Surgery 3

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

Number of ECTS credits: 5

Recommended semester/trimester of the course: 8.

Course level: I.II.

Prerequisities: ChK/S-GM2/19

Conditions for course completion:
I. For successful completion of the practical exercises/lectures is required:
- To participate at all of practical exercises (100%) and theoretical lectures (75%).
- To get at least 60 % of total score for ongoing review of written test
- Two absences are allowed, needed to be compensated
II. For successful obtained of the credits from subject is necessary:
- To gain the credit from practical exercises (paragraph 1 above).
- Evaluation: Study rules of procedure UPJŠ in Košice, the Faculty of Medicine, Par II, Art13
- The final classification includes the evaluation of the written test and the results obtained in practical exercises
- The final exam consists of oral parts
- The final classification includes the evaluation of the written test and the results obtained in practical exercises

Learning outcomes:
Surgery of the small intestine, mesentery and the retroperiteal spaces. Surgery of the colon. Surgery of the rectum and anus. Acute abdomen - the definition, distribution of acute abdominal situations, classification, symptoms and diagnosis of acute abdomen. Acute abdomen accident - injury to the abdomen and chest. Acute abdomen inflammation, bleeding in the GIT. Acute abdomen - Congenital background. Surgical diseases in childhood and their treatment. Emergency situations thoracosurgical. Emergency situations angiosurgical.
Congenital and acquired defects hands in plastic surgery. The diagnosis and treatment of cancer. Combination therapy of cancer. Selected chapters from plastic surgery. Endocrine diseases requiring surgical treatment

Brief outline of the course:
Surgery of the small intestine and retroperitoneum. Surgery of the colon. Surgery of the rectum and anus. Acute abdominal conditions – definition, clasification, symptoms and diagnosis. Acute abdomen - mechanical, neurogenic and vascular ileus. Acute abdomen – inflammatory diseases. Acute abdomen - gastrointestinal bleeding. Traumatic acute abdomen. Congenital acute abdominal conditions. Thoracosurgical acute abdominal conditions. Angiosurgical acute abdominal

conditions. Current concepts of surgical oncology. Multimodal therapy of surgical malignancies. Endocrine diseases requiring surgical treatment. Special chapters of plastic, reconstructive surgery.

Recommended literature:

Frankovičová, M. et al.: Surgery for medical students. Košice, Faculty of Medicine, Pavol Jozef Šafárik University in Košice, 2014, 408 p. ISBN 978-80-8152-202-4
Doherty G.: Current Diagnosis & Treatment Surgery, 13 ed., McGraw-Hill Medical, 2010
Cameron, JL.: Current surgical therapy. 8.ed., Philadelphia; Elsevier, 2013
Townsend, CM. et al.: Sabiston Textbook of Surgery: The Biological Basis of Modern Surgical Practice. 19 ed., Elsevier : Toronto, 2012
Mclatchie G, Borley N, Chikve J.: Oxford handbook in clinical surgery. 4.ed., Oxford: University Press, 2007

Course language:
English

Notes:

Course assessment
Total number of assessed students: 1580

A	B	C	D	E	FX
27.91	22.78	22.22	12.91	13.16	1.01

Provides: prof. MUDr. Mária Frankovičová, PhD., prof. MUDr. Jozef Radoňak, CSc., MPH, prof. MUDr. Jana Kaťuchová, PhD., MBA, MUDr. Pavol Harbuľák, MUDr. Marián Kudláč, MUDr. Milan Stebnický, PhD., MUDr. Róbert Šimon, PhD., MPH, doc. MUDr. Marek Šoltés, PhD., MUDr. Tomáš Gajdzik, PhD., MHA, MPH, MUDr. Lucia Sukovská Lakyová, PhD., MPH, MUDr. Jozef Brezina, PhD., MUDr. Michal Chyla, PhD., MUDr. Tomáš Hildebrand, PhD., doc. MUDr. Ivan Kováč, PhD., prof. MUDr. Miroslav Kitka, PhD., MUDr. Milan Šudák, PhD., MUDr. Peter Lengyel, PhD.

Date of last modification: 07.03.2023

Approved: prof. MUDr. Peter Jarčuška, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: ChK/S-GM4/18	**Course name:** Surgery 4 (Neurosurgery, Orthopedics)

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

Number of ECTS credits: 3

Recommended semester/trimester of the course: 9.

Course level: I.II.

Prerequisities: ChK/S-GM3/17

Conditions for course completion:
1. 100% active participation in practical exercises.
2. Passing the final test with a minimum of 60% success rate.

Learning outcomes:
Acquiring basic knowledge about the diagnosis and treatment of diseases and injuries of the locomotor system, central and peripheral nervous system in ORTHOPEDICS and NEUROSURGERY.

Brief outline of the course:
The student will learn the basic examination and imaging methods used in orthopedics and neurosurgery. Acquire knowledge and diagnostics, differential diagnosis and treatment of the most common diseases and injuries of the locomotor system, central and peripheral nervous system of children and adults falling within the competence of the field of orthopedics, respectively. neurosurgery.
Orthopedics: examination and imaging methods in orthopedics; inflammatory and degenerative diseases of the musculoskeletal system; metabolic diseases; congenital diseases of the locomotor system; tumors of the musculoskeletal system; the most common orthopedic diseases of the upper and lower limbs; diseases of the axial skeleton; regenerative medicine in orthopedics; orthoses and prostheses;
Neurosurgery: examination and imaging methods in neurosurgery; intracranial pressure – pathophysiology of intracranial hypertension; congenital defects of the nervous system; head injuries; injuries to the spine, spinal cord and peripheral nerves; tumors of the nervous system; vascular neurosurgery; pain and peripheral nerve compression syndromes.

Recommended literature:
FRANKOVIČOVÁ, Mária a Jana KAŤUCHOVÁ. Surgery for medical students. 2nd ed. Košice: Pavol Jozef Šafárik University in Košice, 2017, 521 s. ISBN 978-80-8152-581-0.
Lectures published at https://portal.lf.upjs.sk/

Course language:
English

Notes:

Course assessment
Total number of assessed students: 1920

abs	abs-A	abs-B	abs-C	abs-D	abs-E	neabs
20.1	78.28	0.78	0.16	0.16	0.47	0.05

Provides: doc. MUDr. Miroslav Gajdoš, CSc., MPH, prof. MUDr. Mária Frankovičová, PhD., prof. MUDr. Miroslav Kitka, PhD., doc. MUDr. Gabriel Vaško, CSc., prof. MUDr. Vincent Nagy, PhD., MPH, MUDr. Ľubomír Lachváč, PhD., MUDr. Marián Kudláč, prof. MUDr. Radoslav Morochovič, PhD., MUDr. Andrej Vrzgula, PhD., prof. MUDr. Marek Lacko, PhD., MUDr. Milan Stebnický, PhD., doc. MUDr. Martina Vidová Ugurbas, PhD., MPH, doc. MUDr. Ivan Kováč, PhD., MUDr. Michal Orlický, Ph.D., MBA, doc. MUDr. Vladimír Kaťuch, PhD., MBA, doc. MUDr. Imrich Lukáč, CSc.

Date of last modification: 12.03.2023

Approved: prof. MUDr. Peter Jarčuška, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: ChK/S-GM5/24	**Course name:** Surgery 5 (Trauma Surgery, Urology)

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

Number of ECTS credits: 3

Recommended semester/trimester of the course: 10.

Course level: I.II.

Prerequisities: ChK/S-GM4/18 and UFR/PM-GM2/25

Conditions for course completion:
For successful completion of the practical exercises/lectures is required: - To participate at all of practical exercises (100%) and theoretical lectures (75%). - To get at least 60 % of total score for ongoing review of written test

Learning outcomes:
Trauma surgery, urology
Students will acquire knowledge of the diagnosis and treatment of traumatic brain injury and spinal cord injury often simultaneously with chest injuries. Also important are the knowledge acquired in the abdomen and retroperitoneal injury, especially for its relative rarity. Frequently occurring musculoskeletal injuries, which is important to proper diagnosis and treatment. The student has to know the life-threatening symptoms of compartment syndrome and other rarely occurring due to injuries / Crush syndrome, algodystrophic syndrome, etc. /. In the field of urology is the result of learning the knowledge of the occurrence of urogenital anomalies syndrome. It is important to gain knowledge about the relatively frequently occurring inflammatory diseases in this area. Students master the diagnosis and treatment of calculous disease of the urinary system. In terms of incidence of diseases of the prostate is a common disability - whether benign hyperplasia or tumors, thus acquiring knowledge about the disease is extremely important. Similarly, the student must control the symptoms and treatment of injuries of the urogenital system, although they occur less frequently.

Brief outline of the course:
Craniocerebral injury. Spinal injuries. Chest injury. Injury to the abdomen, pelvis and urogenital system. The injuries of the upper limb. Lower limb injuries. Specific types of injuries and injury complications. History, terminology and basic principles of examination in urology. Anomalies of the urogenital system. Inflammatory diseases of the urogenital system, epidemiology, etiopathogenesis, diagnostic principles. Urolithiasis - etiopathogenesis, diagnostic procedure, complications and prognosis. Tumors of the urogenital system. Benign prostatic hyperplasia. Injuries of the urogenital system.

Recommended literature:
Frankovičová, M. et al.: Surgery for medical students. Košice, Faculty of Medicine, Pavol Jozef Šafárik University in Košice, 2014, 408 p. ISBN 978-80-8152-202-4

Southerland, J.: McGlamrys Comprehensive Textbook of Foot and Ankle Surgery, Lippincot Williams Wilkins, 2012, 2112 p. ISBN: 9780781765800
Pokorný, J. et al.: Traumatologie, Triton, 2002, ISBN 80-7254-277-X
Muller, M. et al.: Chirurgie pro studium a praxi. Goldstein and Goldstein 1997, ISBN 80-86094-10-3
Tanaghoe, E. A., McAninch, J. W.: Smith´s General Urology. McGraw Hill Medical, 2000, ISBN 0-07-159331-4
Breza, J. et al.: Všeobecná a špeciálna urológia, Univerzita Komenského Bratislava 2004, ISBN 80-223-1907-4.

Course language:
English

Notes:

Course assessment
Total number of assessed students: 1850

abs	abs-A	abs-B	abs-C	abs-D	abs-E	neabs
19.46	37.89	18.59	10.49	12.27	1.14	0.16

Provides: doc. MUDr. Miroslav Gajdoš, CSc., MPH, prof. MUDr. Mária Frankovičová, PhD., prof. MUDr. Miroslav Kitka, PhD., doc. MUDr. Gabriel Vaško, CSc., prof. MUDr. Vincent Nagy, PhD., MPH, MUDr. Ľubomír Lachváč, PhD., MUDr. Marián Kudláč, prof. MUDr. Radoslav Morochovič, PhD., MUDr. Andrej Vrzgula, PhD., prof. MUDr. Marek Lacko, PhD., MUDr. Milan Stebnický, PhD., MUDr. Štefan Ivanecký, doc. MUDr. Rastislav Burda, PhD., MUDr. Peter Cibur, PhD., MUDr. Ľuboš Tomčovčík, PhD., MUDr. Vladimíra Sobolová, PhD., MUDr. Marek Benhatchi, MUDr. Matúš Richnavský

Date of last modification: 31.05.2024

Approved: prof. MUDr. Peter Jarčuška, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Medicine	
Course ID: ChK/S-GM6/22	**Course name:** Surgery 6

Course type, scope and the method:
Course type: Practice / Controlled study hour
Recommended course-load (hours):
Per week: Per study period: 280s / 60s
Course method: present

Number of ECTS credits: 12

Recommended semester/trimester of the course: 11., 12..

Course level: I.II.

Prerequisities: ChK/S-GM5/24 and ChK/S-GM4/18 and KRO/RCO-GM/22

Conditions for course completion:
1. For successful completion of the practical exercises / seminars is required:
- To participate at all of practical and theoretical exercises (100%) and seminars (75%)
- To get at least 60 % of total score for ongoing review of written test last day of classes in ROGO system
- Two absences are possible needed to be compensated
2. For successful obtained of the credits from subject is necessary:
- To gain the credit from practical exercises (paragraph 1 above).
- Written test last day of classes in ROGO system (30 questions)
- To complete two night duties on Surgery Departments according to the schedule
- Evaluation: Study rules of procedure UPJŠ in Košice, the Faculty of Medicine, Part II, Art. 13, Paragraph 4
- The final classification includes the evaluation of the written test and the results obtained in practical exercises
In case of rotation abroad, is an obligation to complete the final test in Surgery 6 on the last day of the rotation in ROGO system with a confirmation of completion of rotation abroad

Learning outcomes:
After the completion of this part of the studies students shall master basic diagnostic, therapeutic and evaluative outcomes in the field of thoracic and mediastinum surgery. They must know the basics of diagnosis and treatment of acute abdomen including abdominal traumas. The important knowledge includes that of the transportation of the sick and injured in shock or those unconscious or when spinal injury is suspected. They must master first aid, including the medical one, in case of thermal damages of organisms. They will acquire the basic knowledge from cardiovascular surgery as well as pediatric surgery. They will master the basics of resuscitation and intensive care. They will know the basic diagnostic and therapeutic procedures in onco-surgery. They will know the basics of diagnostic and therapeutic procedures in orthopedics, urology and neurosurgery. They are able to diagnose basic diseases of the given fields based on the X-ray interpretation.

Brief outline of the course:
Multidisciplinary seminars: Thoracic and mediastinum surgery. Acute abdomen. Trauma surgery. Principles of the transportation of the sick and injured in shock, unconscious, or in case of spinal

injury. Burns. Cardiovascular surgery. Pediatric surgery. Resuscitation and intensive care. Onco-surgery. Orthopedics, urology, neurosurgery + X-rays.

Recommended literature:

Frankovičová, M. et al.: Surgery for medical students. Košice, Faculty of Medicine, Pavol Jozef Šafárik University in Košice, 2014, 408 p. ISBN 978-80-8152-202-4

Frankovičová, M., Kaťuchová J. et al.: Surgery for medical students, second revised edition, Košice, Faculty of Medicine, Pavol Jozef Šafárik University in Košice, 2014, 408 p. ISN 978-80-8152-581-0

Course language:

English

Notes:

Course assessment

Total number of assessed students: 1584

abs	abs-A	abs-B	abs-C	abs-D	abs-E	neabs
18.12	31.76	18.31	17.87	8.21	5.68	0.06

Provides: prof. MUDr. Mária Frankovičová, PhD., prof. MUDr. Jana Kaťuchová, PhD., MBA, doc. MUDr. Marek Šoltés, PhD., doc. MUDr. Miroslav Gajdoš, CSc., MPH, MUDr. Tomáš Gajdzik, PhD., MHA, MPH, MUDr. Pavol Harbuľák, MUDr. Tomáš Hildebrand, PhD., MUDr. Štefan Ivanecký, MUDr. Róbert Kilík, PhD., doc. MUDr. Ivan Kováč, PhD., MUDr. Mária Kubíková, PhD., MUDr. Marián Kudláč, MUDr. Ľubomír Lachváč, PhD., prof. MUDr. Marek Lacko, PhD., MUDr. Lucia Sukovská Lakyová, PhD., MPH, prof. MUDr. Radoslav Morochovič, PhD., prof. MUDr. Vincent Nagy, PhD., MPH, prof. MUDr. Jozef Radoňak, CSc., MPH, doc. MUDr. Vladimír Sihotský, PhD., MUDr. Milan Stebnický, PhD., doc. MUDr. Gabriel Vaško, CSc., doc. MUDr. Martina Vidová Ugurbas, PhD., MPH, MUDr. Róbert Šimon, PhD., MPH, MUDr. Milan Šudák, PhD., doc. MUDr. Jozef Firment, PhD., doc. MUDr. Adrián Kolesár, PhD., MPH, MUDr. Martin Ledecký, PhD., MUDr. Lucia Mistríková, PhD., MUDr. Štefánia Mižáková, PhD., prof. MUDr. František Sabol, PhD., MPH, MBA, doc. MUDr. Tomáš Toporcer, PhD., doc. MUDr. Eugen Frišman, PhD., MUDr. Peter Lengyel, PhD., MUDr. Peter Polan, PhD., MPH, doc. MUDr. Vladimír Kaťuch, PhD., MBA, prof. MUDr. Miroslav Kitka, PhD., MUDr. Michal Chyla, PhD.

Date of last modification: 07.03.2023

Approved: prof. MUDr. Peter Jarčuška, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: ChK/ SWaVR-GM/24	**Course name:** Surgery Of Wounds and Vascular Reconstructions

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

Number of ECTS credits: 2

Recommended semester/trimester of the course: 6., 8.

Course level: I.II.

Prerequisities: ChK/SP-GM/15

Conditions for course completion:
I. The following are required for successful completion of the practical exercises:
- Compulsory attendance at practical exercises / lectures
- Completion of assigned tasks
II. To successfully complete the course and obtain credits, the following is required:
- Successful completion of practical exercises
- Control tests are evaluated on the basis of the achieved number of points (%) with evaluation according
to the Study Regulations of the UPJŠ v Košice, Faculty of Medicine, Part II, Article 13, paragraph 4
- The final evaluation takes into account the results of the interim evaluation and the student's activities during the semester
Alternatively, the teaching may be carried out in a distance form. Teachers will communicate with students via e-mail, MS Teams, or other teleconferencing application, and may assign students tasks in the form of preparing reports on a given topic and solving sample case studies. Assessments of the assignments will be carried out by individual teachers. The assessment of knowledge will be carried out remotely - in the form of a test or oral answer. Completion of the course will be evaluated on the basis of attendance, written assignments and test results.

Learning outcomes:
To familiarize the students of UPJŠ Faculty of Medicine with vascular diseases and their treatment (endovascular and surgical). To point out the causes, peculiarities of vascular diseases and their prevention. To teach the basic principles of vascular surgery and management of the vascular patient.

Brief outline of the course:
Basic principles of vascular surgery, endovascular procedures, principles of rehabilitation, dietetics and wound healing

Recommended literature:
Frankovičová, M., Kaťuchová J., Radoňak J. a kol.: Chirurgia pre študentov medicíny, 2022, Univerzita P.J. Šafárika, ISBN: 978-80-8152-771-5
Frankovičová M. a kol.: Cievna chirurgia, 2018, Univerzita P.J. Šafárika, ISBN:978-80-8152-599-5

Zavacká M. a kol.: Multidisciplinárny pohľad na pacienta s diabetickou nohou, 2022, Univerzita P.J. Šafárika, ISBN: 978-80-5740-112-4
Krajíček M., Pelegrin J., Roček M., Šebesta P. a kol.: Chirurgická a intervenční léčba cévních onemocnění., GRADA 2007
Rutherford´s: Vascular Surgery and endovascular therapy. 10th edition, 2022, Elsevier Society for Vascular Surgery, ISBN: 978-0-323-77558-8 (volume 1), 978-0-323-77559-6 (volume 2)

Course language:
English

Notes:

Course assessment
Total number of assessed students: 0

abs	abs-A	abs-B	abs-C	abs-D	abs-E	neabs
0.0	0.0	0.0	0.0	0.0	0.0	0.0

Provides: prof. MUDr. Mária Frankovičová, PhD., MUDr. Mária Kubíková, PhD., MUDr. Jana Pobehová, PhD., MUDr. Peter Štefanič, PhD., MUDr. Lukáš Vaško, PhD., MUDr. Michal Virág, PhD., doc. MUDr. Martina Zavacká, PhD., MPH

Date of last modification: 26.03.2024

Approved: prof. MUDr. Peter Jarčuška, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Medicine	
Course ID: ChK/ OTT-GM/15	**Course name:** The Organ and Tissue Transplantation

Course type, scope and the method:
Course type: Lecture / Practice
Recommended course-load (hours):
Per week: 0 / 2 **Per study period:** 0 / 28
Course method: present

Number of ECTS credits: 2

Recommended semester/trimester of the course: 10.

Course level: I.II.

Prerequisities:

Conditions for course completion:
1. For successful completion of the practical exercises/seminars is required:
- To participate at all of practical exercises (100%)
- Elaboration of specified tasks
2. For successful obtained of the credits from subject is necessary:
- To gain the credit from practical exercises (paragraph 1 above).
- Evaluation: Study rules of procedure UPJŠ in Košice, the Faculty of Medicine, Par II, Art13
- The final classification includes the evaluation of the written test and the results obtained in practical exercises
Education can alternatively by conducted in a distant mode. The teachers will communicate with students by email, MS teams or other teleconference applications.
1. The presence of the students at individual practices will be recorded by their teachers.
2. Teachers will assign the tasks to students in the form of essays and solving case reports.
3. Knowledge assessment will be carried out by a distance test.
4. Completion of the course will be evaluated on the basis of the records of presence, written assignments and test results.

Learning outcomes:
The students will acquire basic knowledge on the theory of biology and transmission organs and tissues. They will know the principle donors of organs, brain death determination and the principle of selection of suitable recipients. The students will acquire knowledge of the techniques of collection, storage and transportation of the tissues and organs, the basic principles of organ and tissue transplantation. They will know the possibilities of the products of The Tissue Banks.

Brief outline of the course:
General principles of transplantation of organs and tissues. Indications for explant organs from deceased donors. Indications for the explant organs from living donors. Kidney transplantation. Kidney transplantation in children. Pancreas transplantation. Liver transplantation. Heart transplantation. Lung transplantation. Transplantation of the small intestine. Combined and re-transplantation. Complications after transplant surgery. Organ rejection, acute and chronic. Stem cell transplantation in surgery.

Recommended literature:

1. Frankovičová M. et al. : Surgery for Medical Students. Equilbria, Košice,2014
2. Doherty G.: Current Diagnosis & Treatment Surgery, 13 ed., McGraw-Hill Medical, 2010
3. Cameron, JL.: Current surgical therapy. 8.ed., Philadelphia; Elsevier, 2013
4. Townsend, CM. et al.: Sabiston Textbook of Surgery: The Biological Basis of Modern Surgical Practice. 19 ed., Elsevier : Toronto, 2012
5. Mclatchie G, Borley N, Chikve J. : Oxford handbook in clinical surgery. 4.ed., Oxford: University Press, 2007

Course language:
English

Notes:

Course assessment
Total number of assessed students: 103

abs	abs-A	abs-B	abs-C	abs-D	abs-E	neabs
29.13	69.9	0.0	0.0	0.0	0.0	0.97

Provides: prof. MUDr. Jana Kaťuchová, PhD., MBA

Date of last modification: 07.03.2023

Approved: prof. MUDr. Peter Jarčuška, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: KICM/ TM-GM/20	**Course name:** Tropical Medicine

Course type, scope and the method:
Course type: Lecture / Practice
Recommended course-load (hours):
Per week: 0 / 1 **Per study period:** 0 / 14
Course method: present

Number of ECTS credits: 2

Recommended semester/trimester of the course: 9.

Course level: I.II.

Prerequisities: ULM/MB-GM2/14

Conditions for course completion:
- 100 % active participation in the practicals
- final test minimum percentage of 60 %

Learning outcomes:
Epidemiological aspects and basic diagnostics of infectious diseases, the basic principles antiinfectious treatment of tropical infection, imported infections.

Brief outline of the course:
The nature of infectious diseases, principles of diagnosis. Tropical intestinal infections. Viral hepatitis. HIV / AIDS. Malaria. Tropical parasitic diseases. Imported infections.

Recommended literature:
- Šerý, V. Bálint, O.: Tropická a cestovní medicína, Medon s.r.o. Praha 1998, 569 s.Bálint O. a kol.: Infektológia a antiinfekčná terapia. 2.prepracované vydanie. Bratislava, Osveta 2007.
- Michael Eddleston , Oxford Handbook of Tropical Medicine.
Oxford University Press, Incorporated, 2005.

Course language:
English

Notes:

Course assessment
Total number of assessed students: 702

A	B	C	D	E	FX
44.44	25.78	13.39	11.97	3.99	0.43

Provides: prof. MUDr. Ivan Schréter, CSc., Dr.h.c. prof. MUDr. Pavol Jarčuška, PhD., prof. MUDr. Pavol Kristian, PhD., MUDr. Martin Novotný, PhD., doc. MUDr. Zuzana Paraličová, PhD., MUDr. Ivana Hockicková, PhD., MUDr. Patrícia Denisa Lenártová, PhD., MUDr. Štefan Porubčin, PhD., MUDr. Jakub Sekula, PhD., MUDr. Ondrej Zahornacký, PhD.

Date of last modification: 17.05.2022

Approved: prof. MUDr. Peter Jarčuška, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: ChK/ UM-GM/17	**Course name:** Urgent Medicine

Course type, scope and the method:
Course type: Lecture / Practice
Recommended course-load (hours):
Per week: 0 / 1 **Per study period:** 0 / 14
Course method: present

Number of ECTS credits: 2

Recommended semester/trimester of the course: 9.

Course level: I.II.

Prerequisities: ChK/S-GM3/17 and IK/IM-GM3/22 and UFR/PM-GM2/25

Conditions for course completion:
Final test minimum percentage of 60%

Learning outcomes:
Introduction and brief history of urgent medicine. Intitial patient assessment.
Disaster management, Triage, scoring systems in trauma.
Shock, types of shock, evaluation, initial management and early treatment
Thermal injury (burns, cold injury, hypothermia).
Acute coronary syndrome. Instable angina pectoris. Acute myocarrdial infarction with /without ST elevation. Acute treatment. Transport.
Pulmonary oedema cardiogenic , non-cardiogenic.
Venous thromboembolism. Pulmonary embolism. Phlebothrombosis.
Cardiac arrhythmias. Tachyarrhythmias. Bradyarrythmias. ECG analysis. Treatment.
Acute endocrinological states.
Hypoglycemic, hyperglycemic coma. Thyrotoxic storm. Hypercalciaemia. Hypocalciaemia.
Bronchial asthma. Respiratory failure.
Airways stabilisation, needle thoracocentesis and tube thoracostomy, cricothyrotomy and tracheostomy
Spine stabilisation and prevention of further damage, state of consciousness assessment.
Examination (Test)
Etiology, treatment.
Hypertensive crisis. Etiology. Consequences. Treatment.

Brief outline of the course:
Extended ABC resuscitation system in emergency care including urgent surgical procedures Wounded sorting, scoring systems for assessing the condition of the traumatic patient, hemorrhagic shock -diagnostics, treatment Acute conditions in internal medicine

Recommended literature:
Pokorný, J. et al.: Urgentní medicína, prvé vydanie, Galén 2004
Dobiáš, V.: Urgentná zdravotná starostlivosť, Osveta, 2006
Tintinalli J.E. et al: Emergency Medicine: A Comprehensive Study Guide, 6th Edition, McGraw-Hill Companies, 2003

Course language:
English

Notes:
Extended ABC resuscitation system in emergency care including urgent surgical procedures Wounded sorting, scoring systems for assessing the condition of the traumatic patient, hemorrhagic shock -diagnostics, treatment Acute conditions in internal medicine

Course assessment
Total number of assessed students: 739

A	B	C	D	E	FX
56.7	27.06	7.31	5.41	2.84	0.68

Provides: MUDr. Štefan Ivanecký, MUDr. Pavol Murín, PhD., MUDr. Marián Sedlák, PhD., doc. MUDr. Rastislav Burda, PhD., MUDr. Peter Cibur, PhD., MUDr. Ľuboš Tomčovčík, PhD.

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