CONTENT

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Medicine	
Course ID: IK/ AUSG-V/13	**Course name:** Abdominal Ultrasonography

Course type, scope and the method:
Course type: Seminar
Recommended course-load (hours):
Per week: Per study period: 6s
Course method: present

Number of ECTS credits: 2

Recommended semester/trimester of the course: 8.

Course level: I.II.

Prerequisities:

Conditions for course completion:
1. For successful completion of the practical exercises/seminars is required:
- To participate at all /100%/of practical exercises, theoretical and practical performance of all exercises/seminars.
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

Learning outcomes:
Acquaintance of students with individual work procedures in abdominal ultrasonography.

Brief outline of the course:
1. Basic principles of ultrasonography, examination of organs of the abdominal cavity in the form of a seminar.
2. Practical demonstration of examination of the abdominal cavity, individual organs: liver, gallbladder, pancreas, kidneys, pelvic organs, aorta in healthy volunteers. Acquaintance with the basic operation of the sonographic device.Examination of patients by students, under the supervision of the teacher.
3. Examination of patients with the most common diagnoses, for example: congestive heart failure, liver diseases (steatosis, cirrhosis, etc.), gall bladder diseases - cholecystolithiasis, eventual tumors (according to patient availability) and other, most frequently occurring diseases of the abdominal cavity respectively. Examination of patients by students, under the supervision of the teacher.

Recommended literature:
C.F. Dietrich a kolektív: Ultrasonografie, Vydavateľstvo EQUILIBRIA 2008
Valočiková I.: Abdominálna ultrasonografia, Vysokoškolské učebné testy 2005

Course language:
slovak

Notes:
The course Internal Medicine 1 is provided only in the summer term.
The minimum number of registered students for the given subject must be 10 or more.

Course assessment
Total number of assessed students: 109

abs	abs-A	abs-B	abs-C	abs-D	abs-E	neabs
11.01	88.07	0.0	0.0	0.0	0.0	0.92

Provides: doc. MUDr. Ivana Valočiková, PhD.

Date of last modification: 13.03.2023

Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: 1. KAIM/AL-V/18	**Course name:** Algesiology

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: UFR/FA-V1/19 and ChK/CH-V1/22

Conditions for course completion:
1. 100% participation on the lectures
2. Test - minimum percentage of 60%

Learning outcomes:
Basic knowledge about the treatment of acute postoperative and post-traumatic pain, methods of obstetric analgesia.
Basic knowledge about methods of the treatment of chronic cancer, paliative medicine and different types of chronic non-cancer pain, including noninvasive and invasive approaches – diagnostic and therapeutic procedures.

Brief outline of the course:
The concept of the field of algesiology. Pain management history. Basic differences between acute and chronic pain. Pathophysiology of acute pain. Treatment of acute pain. Pathophysiology of labor pain. Possibilities of obstetric analgesia. Pathophysiology of chronic cancer and non-cancer pain. Treatment of chronic cancer and non-cancer pain. Rational analgesic pharmacotherapy. Anesthesiological techniques in the treatment of acute and chronic pain. Basics of interventional algesiology. Palliative and hospice care.

Recommended literature:
1. Martuliak I. Patofyziológia bolesti pre klinickú prax. Banská bystrica: Martimed, 2014
2. Kulichová M. a kol. Algeziológia. Vyd. Žilinská univerzita, 2005
3. Rokyta R. a kol. Bolest – monografie algeziologie. Praha: Tigis, 2006
4. Hakl M. akol. Léčba bolesti. Mladá fronta, 2013
5. Málek J. Praktická algeziologie. Praha: Grada 2016
6. Firment J. Anestéziológia a intenzívna medicína. vysokoškolské učebné texty. Košice: Univerzita P.J. Šafárika v Košiciach, 2014
7. Martuliak I. Farmakoterapia bolesti pre lekárov a farmaceutov. Banská Bystrica: Martimed s.r.o. , 2019. - 280 s
8. Kozák J., Lejčko J., Vrba I. Opioidy. Mladá fronta, 2018

Course language:
Slovak language

Notes:

Course assessment
Total number of assessed students: 79

A	B	C	D	E	FX
74.68	21.52	2.53	1.27	0.0	0.0

Provides: MUDr. Jana Šimonová, PhD., MPH, MUDr. Róbert Rapčan, PhD.

Date of last modification: 23.03.2023

Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: 1. KAIM/AIM-V/20	**Course name:** Anaesthesiology and Intensive 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: 10.

Course level: I.II.

Prerequisities: IK/IM-V3/22 and NLK/NL-V1/19 and UFR/FA-V1/19

Conditions for course completion:
1. 100% participation on the practical exercises
2. Test - minimum percentage of 60%.
3. Oral exam

Learning outcomes:
The student should learn the principles of general and regional anesthesia, perioperative care, the basic issues of diagnosis and treatment of critical conditions.

Brief outline of the course:
Preoperative preparation of the patient. Monitoring in anesthesiology and intensive care medicine. General anesthesia. Regional anesthesia. Acute and chronic pain. Respiratory failure. Basics of artificial pulmonary ventilation. Failure of blood circulation. Disorders of the internal environment. Enteral and parenteral nutrition. Shock. Multiorgan failure. General procedures and special treatment of intoxications. Basic and advanced emergency resuscitation.

Recommended literature:
FIRMENT, J. a kol.: Anestéziológia a intenzívna medicína pre študentov lekárskej fakulty, Vysokoškolská učebnica Lekárskej fakulty UPJŠ v Košiciach, 2020

Course language:
Slovak language

Notes:

Course assessment
Total number of assessed students: 2904

A	B	C	D	E	FX
35.57	32.3	16.94	8.02	6.82	0.34

Provides: doc. MUDr. Jozef Firment, PhD., MUDr. Monika Grochová, PhD., MUDr. Vladimír Hudák, PhD., MUDr. Judita Capková, PhD., MUDr. Jana Šimonová, PhD., MPH

Date of last modification: 23.03.2023

Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Medicine	
Course ID: UA/A-V1/14	**Course name:** Anatomy 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: 7

Recommended semester/trimester of the course: 1.

Course level: I.II.

Prerequisities:

Conditions for course completion:
1. 100% active presence in all practical lessons. If a student misses a practice (max. 3 times) for serious health or family reasons, he/she must be excused by his/her teacher and the substituting practice must be agreed by the teacher. It is not allowed to substitute a practice in the week before the practical test.
2. Online lectures are obligatory – 100% active presence is required.
3. Students must take part in all written and practical tests and achieve a minimum of 72 points (it means 60% of the 120 points) obtained as the sum of points from two (2) theoretical and two (2) practical tests. The result will be calculated according to the attached table. Students, who do not attend all practical and written tests in regular terms for serious reasons and students, who do not achieve a minimum of 72 points, will have only one (1) chance to retake the test during the exam period (from the curriculum of the entire semester!).
4. If a student does not obtain a minimum of 72 points from all theoretical and practical tests combined and he/she does not pass the retake test, he/she will be marked with an "Fx-failed" grade.
5. Students, who did not satisfy the conditions for successful completion of the subject, i.e. they were absent for more than three practical lessons; did not undertake practical or written exams, they will not be allowed to undertake the retake test and will be marked with an "X" mark – unclassified student.
Table for evaluation of subject Anatomy 1:
93 - 100% 112 – 120 points completed „A" – excellent
85 - 92% 102 – 111 points completed „B" – very good
77 - 84% 92 – 101 points completed „C" – good
69 - 76% 83 – 91 points completed „D" – satisfactory
60 - 68% 72 – 82 points completed „E" – sufficient
do 59% 71 and less points not completed „Fx" – failed

Learning outcomes:
The aim of this subject is to use anatomical nomenclature, to know the structure of upper and lower limbs, bones, their joints, muscles, vessels and nerves. Study of anatomical structures location in individual regions of upper and lower limbs 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 should be used in application from the view of functional

Brief outline of the course:
Ethical principles in teaching of anatomy, introduction to anatomy. Knowledge of anatomical nomenclature and its using during the study of anatomy and also in practical medicine. Become familiar with general knowledge of bones (osteology), joints (syndesmology), muscles (myology) and vessels. Study of the skeleton, joints and muscles of upper and lower limbs. Study of the blood and lymphatic systems and upper and lower limbs innervation. Topographical dissection of individual regions of upper and lower limbs. Dissection and study of superficial and deep structures in individual regions of limbs, with emphasis on their practical application.

Recommended literature:
Platzer W.: Color Atlas of Human Anatomy, Vol. 1. Locomotor System, Thieme, 2009
Fritsch H., Kuehnel W.: Color Atlas of Human Anatomy, Vol. 2. Internal Organs, Thieme, 2008
Kahle W., Frotscher M.: Color Atlas of Human Anatomy, Vol. 3. Nervous system and sensory organs, Thieme, 2003
Netter F.H.: Atlas of Human Anatomy, Elsevier, 2014
Paulsen F, Waschke J.: Sobotta Atlas of Human Anatomy. Vol. 1. Musculoskeletal System, Elsevier, 2013
Paulsen F, Waschke J.: Sobotta Atlas of Human Anatomy. Vol. 2. Internal Organs, Elsevier, 2013
Paulsen F, Waschke J.: Sobotta Atlas of Human Anatomy. Vol. 3. Head, Neck and Neuroanatomy, Elsevier, 2013
Rohen J.W., Yokochi C., Lütjen-Drecoll E.: Color Atlas of Anatomy. A photographic study of the human body. Wolters Kluwer, Lippincott Wiliams & Wilkins, 2006

Course language:
English

Notes:

Course assessment
Total number of assessed students: 3297

abs	abs-A	abs-B	abs-C	abs-D	abs-E	neabs
51.93	0.97	6.34	14.01	11.53	12.83	2.4

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

Date of last modification: 17.03.2023

Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Medicine	
Course ID: UA/A-V2/14	**Course name:** Anatomy 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: 9

Recommended semester/trimester of the course: 2.

Course level: I.II.

Prerequisities:

Conditions for course completion:
In order to successfully complete the subject and obtain credits, it is necessary to:
- 100% active mandatory participation in practical lessons. If a student misses a practical lesson (maximum 3 times) due to serious health or family reasons, his/her absence must be excused by the teacher and the compensation of the missing practical lesson completed at the Department of Anatomy within ongoing practical lessons/seminars of other groups until the end of winter term. Compensation is not allowed one week before the practical test.
- Theoretical and methodical mastery of practical tasks.
The student:
• is required to pass all theoretical (written) and practical tests
• must reach at least 60% i.e., 48 points from 80 points obtained by the sum of 3 theoretical tests
• must reach at least 60% i.e., 24 points from 40 points obtained by the sum of 2 practical tests
• is entitled to participate in retaken tests in the examination period of the ST from the curriculum of the entire semester under the condition that: he/she has achieved min. 30% of 80 points i.e. 24 points obtained by the sum of 3 theoretical tests and at the same time 30% of 40 points i.e. 12 points obtained by the sum of 2 practical tests.
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 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

Learning outcomes:
Study of structures of the thoracic wall, abdomen and pelvis. Study of the anatomical structures of these areas in mutual relationships and the study of individual organs in the thoracic, abdominal and pelvic cavities located. To know the mutual regional relationships of individual anatomical structures, projection and skeletotopy of the organs located in the thorax, abdomen and pelvis. The acquired knowledge should be used in terms of spatial arrangement in the individual parts of the

body and usable also in terms of functional anatomy in practical medicine.

Brief outline of the course:
Study of structures of the thoracic wall, organs located in the thoracic cavity, their projection on the thoracic wall. Topographical dissection of individual parts of mediastinum. Study of the vertebral column, abdominal wall and pelvis. Study of abdominal and pelvic organs, their projection, topography and skeletotopy. Abdominal wall dissection, study of weakest abdominal and pelvic walls spots (possibility of hernia occurrence).

Recommended literature:
Platzer W.: Color Atlas of Human Anatomy, Vol. 1. Locomotor System, Thieme, 2009
Fritsch H., Kuehnel W.: Color Atlas of Human Anatomy, Vol. 2. Internal Organs, Thieme, 2008
Kahle W., Frotscher M.: Color Atlas of Human Anatomy, Vol. 3. Nervous system and sensory organs, Thieme, 2003
Netter F.H.: Atlas of Human Anatomy, Elsevier, 2014
Paulsen F, Waschke J.: Sobotta Atlas of Human Anatomy. Vol. 1. Musculoskeletal System, Elsevier, 2013
Paulsen F, Waschke J.: Sobotta Atlas of Human Anatomy. Vol. 2. Internal Organs, Elsevier, 2013
Paulsen F, Waschke J.: Sobotta Atlas of Human Anatomy. Vol. 3. Head, Neck and Neuroanatomy, Elsevier, 2013
Rohen J.W., Yokochi C., Lütjen-Drecoll E.: Color Atlas of Anatomy. A photographic study of the human body. Wolters Kluwer, Lippincott Wiliams & Wilkins, 2006

Course language:
English

Notes:

Course assessment
Total number of assessed students: 3273

abs	abs-A	abs-B	abs-C	abs-D	abs-E	neabs
51.42	1.07	5.53	12.13	11.27	15.37	3.21

Provides: doc. MUDr. Ingrid Hodorová, PhD., univerzitná profesorka, prof. MVDr. Silvia Rybárová, PhD., doc. MVDr. Jozef Mihalik, CSc., Andriana Pavliuk-Karachevtseva, PhD., MVDr. Slávka Flešárová, PhD., MUDr. Marko Vrzgula, MVDr. Andrea Kreheľová, PhD., doc. MUDr. Dalibor Kolesár, PhD., MUDr. Janka Vecanová, PhD., doc. MVDr. Květuše Lovásová, PhD.

Date of last modification: 17.03.2023

Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Medicine	
Course ID: UA/A-V3/17	**Course name:** Anatomy 3

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: 8

Recommended semester/trimester of the course: 3.

Course level: I.II.

Prerequisities: UA/A-V2/14 and UA/A-V1/14

Conditions for course completion:
To successfully complete the subject and register for the final exam, is needed:
- Active participation in lectures (3 absences without giving a reason are allowed).
- 100% active mandatory participation in practical lessons. If a student misses a practical lesson (maximum 3 times) due to serious health or family reasons, his/her absence must be excused by the teacher and the compensation of the missing practical lessons completed at the Department of Anatomy within ongoing practical lessons of other groups until the end of winter term. Compensation is not allowed one week before the practical test.
- Theoretical and methodical mastery of practical tasks.
The student:
- is required to pass all ongoing theoretical (written) and practical tests
- must reach at least 60% i.e. 48 points from 80 points obtained by the sum of 2 written tests
- must reach at least 60% i.e. 24 points from 40 points obtained by the sum of three practical tests
- is entitled to take retaken tests in the examination period of the WT from the curriculum of the entire semester, provided that: he/she has achieved min. 30% of 80 points i.e. 24 points obtained by the sum of 2 theoretical tests and at the same time 30% of 40 points i.e. 12 points obtained by the sum of 2 practical tests.
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 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 – 93 /A/ excellent
92 – 85 /B/ very good
84 – 77 /C/ good

76 – 69 /D/ satisfactory
68 – 60 /E/ sufficient
59 and below /FX/ fail

Learning outcomes:
Study of anatomical structures of the head and neck in mutual topographical relationships. detailed study of skull, muscles and fascias of head and neck. Become familiar with arterial blodd supply, venous and lymphatic drainage of head and neck. Detailed study of 12 paires of cranial nerves, their topography, branches and function. Also become familiar with another nerves of the head and neck (cervical plexus, sympathetic trunk). Students have to know all regions of the head and neck, with structures and their relationships. Understanding of individual parts of the CNS, study of external and internal features of the CNS, the CNS function as a control center for all systems of human body. Acquiring knowledge about the blood supply and venous drainage of the brain. Knowledge to apply also in terms of functional neuroanatomy to aquire an overall view of the human body and interrelationships between various systems.

Brief outline of the course:
Skull – neurocranium and splanchnocranium. Muscles of the head and neck. Blood supply, venous and lymphatic grainage 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, limbic system, basal ganglia and their connections, nerve pathways. Overview of the human body from anatomical and functional points of view. Ear and Eye.

Recommended literature:
Platzer W.: Color Atlas of Human Anatomy, Vol. 1. Locomotor System, Thieme, 2009
Fritsch H., Kuehnel W.: Color Atlas of Human Anatomy, Vol. 2. Internal Organs, Thieme, 2008
Kahle W., Frotscher M.: Color Atlas of Human Anatomy, Vol. 3. Nervous system and sensory organs, Thieme, 2003
Crossman A.R., Neary D. Neuroanatomy. An illustrated collor text. Elsevier, 2010
Waschke J., Bocker T.M., Paulsen F.: Sobotta Anatomy Textbook: 1st edition 2019
Netter F.H.: Atlas of Human Anatomy, Elsevier, 7th edition, 2019
Kluchova, D. Neuroanatomy. Handouts from the lectures. UKošice, 2009
Lovasova K., Kluchova D. Topographical anatomy hardly accessible and clinically significant areas of head. Typopress, Košice, 2010
Netter F.H.: Atlas of Human Anatomy, Elsevier, 2014
Paulsen F, Waschke J.: Sobotta Atlas of Human Anatomy. Vol. 1. Musculoskeletal System, Elsevier, 2013
Paulsen F, Waschke J.: Sobotta Atlas of Human Anatomy. Vol. 2. Internal Organs, Elsevier, 2013
Paulsen F, Waschke J.: Sobotta Atlas of Human Anatomy. Vol. 3. Head, Neck and Neuroanatomy, Elsevier, 2013
Rohen J.W., Yokochi C., Lütjen-Drecoll E.: Color Atlas of Anatomy. A photographic study of the human body. Wolters Kluwer, Lippincott Wiliams & Wilkins, 2006

Course language:
English

Notes:

Course assessment
Total number of assessed students: 3679

A	B	C	D	E	FX
7.83	8.83	17.23	17.26	30.55	18.29

Provides: doc. MVDr. Jozef Mihalik, CSc., doc. MUDr. Ingrid Hodorová, PhD., univerzitná profesorka, prof. MVDr. Silvia Rybárová, PhD., MUDr. Janka Vecanová, PhD., MVDr. Natália Hvizdošová, PhD., Andriana Pavliuk-Karachevtseva, PhD., doc. MUDr. Dalibor Kolesár, PhD., MDDr. Rudolf Štrba, MUDr. Veronika Magočová, MVDr. Slávka Flešárová, PhD., MUDr. Peter Samek, PhD., MDDr. Mirela Rozprávková, PhD.
Date of last modification: 17.03.2023
Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: UA/AP-V1/14	**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-V3/17 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

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:
The subject is provided in the winter semester, capacity of the subject is limited to 8 students, in case of higher interest students will be selected.

Course assessment
Total number of assessed students: 139

abs	abs-A	abs-B	abs-C	abs-D	abs-E	neabs
33.09	66.91	0.0	0.0	0.0	0.0	0.0

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

Date of last modification: 17.03.2023

Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: UA/AP-V2/14	**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-V3/17 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.

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: 92

abs	abs-A	abs-B	abs-C	abs-D	abs-E	neabs
28.26	65.22	0.0	0.0	0.0	0.0	6.52

Provides: MUDr. Janka Vecanová, PhD., MVDr. Natália Hvizdošová, PhD.

Date of last modification: 17.03.2023
Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: UPF/APF-V/18	**Course name:** Applied Pathophysiology

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

Number of ECTS credits: 2

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

Course level: I.II.

Prerequisities: UPF/PF-V2/16

Conditions for course completion:

Learning outcomes:

Brief outline of the course:

Recommended literature:

Course language:

Notes:

Course assessment
Total number of assessed students: 1

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:

Date of last modification: 01.02.2019

Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: KMSM Šaca/ASM-VL/16	**Course name:** Artroskopia a športová medicína

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:
100% participation in practical exercises (seminars/operating room)

Learning outcomes:
Getting to know the basic principles of sports medicine and arthroscopy and most common sports injuries. Students become familiar with anatomy, biomechanics, injury mechanism, diagnostics, therapy, post-operative care and rehabilitation with each particualr topic. We will emphasize the criteria for returning to sports after injuries and surgery of the musculoskeletal system. The course is intended for everyone who is interested in orthopedics, traumatology and rehabilitation and want to learn new information from the topic of sports medicine. In addition, students will have the opportunity to gain practical experience by participating in arthroscopic surgery.

Brief outline of the course:
1. Basic principles of sports medicine
2. Epidemiology, risk factors, prevention of sports injuries
3. Basics of arthroscopy
4. Muscle and tendon injuries
5. Shoulder injuries - dislocations, rotator cuff tear, acromioclavicular pathology
1. and sternoclavicular joint
6. Elbow and wrist injuries
7. Knee injuries - meniscus
8. Knee injuries - cartilage
9. Knee injuries - cruciate and collateral ligaments , posterolateral complex injuries
10. Hip injuries, femoroacetabular impingement
11. Ankle injuries - fractures, ligament injuries, cartilage damage, ankle impingement
12. Regenerative medicine, rehabilitation after injuries and operations of the musculoskeletal system

Recommended literature:
1. Miller M.D.: Ortopaedic sports medicine, Elsevier, 2015, ISBN:978-1-4557-4376-6
2. Volpi P.: Football Traumatology, Springer, 2015, ISBN: 978-3-319-18244-5
3. Dungl P. a kol.: Ortopedie, Grada, 2014, ISBN 978-80-247-4357-8
4. Višna P, Hart R.: Chrupavka kolena, 2006, ISBN 80-7345-084-4

Course language:
Slovak language

Notes:

Course assessment
Total number of assessed students: 42

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. Jozef Kubašovský, MUDr. Peter Polan, PhD., MPH, MUDr. Maroš Varga, MUDr. Martin Vicen

Date of last modification: 01.04.2023

Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: UHE/ ZE-V/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:
Seminar paper graded A-E.

Learning outcomes:
Basic embryology is a medical subject in which the student acquires knowledge of the basic developmental processes in the human organism and the development of organs and organ systems under physiological and pathological conditions. Students will use this knowledge in the study of preclinical and clinical subjects.

Brief outline of the course:
Fertilization, blastogenesis, implantation, fetal envelope formation. Development, structure and function of the placenta. Development of primitive organs of the embryo: notochord, medullary tube, primordia, nephrotomes, primitive intestine, vascular system of the embryo, formation of the embryo body. Development of fetal organ systems - cardiovascular system, nervous system, respiratory system, digestive system, urogenital system, head development, sensory organ development.
https://www.upjs.sk/public/media/10010/SJ_VL_Zaklady%20embryologie_Ucebny%20plan.pdf

Recommended literature:
Karol Kapeller a Viera Pospíšilová: Embryológia človeka, 2001 Vydavateľstvo Osveta.
Thomas W. Sadler: Langmanova lékařská embryologie, 2010, GRADA, 10. vydanie.
https://www.upjs.sk/public/media/10010/SJ_Zaklady%20embryologie_Povinna_liter%20VL.pdf

Course language:

Notes:

Course assessment
Total number of assessed students: 25

abs	abs-A	abs-B	abs-C	abs-D	abs-E	neabs
0.0	40.0	36.0	8.0	0.0	8.0	8.0

Provides: doc. MVDr. Iveta Domoráková, PhD., prof. MUDr. Eva Mechírová, CSc., doc. MVDr. Štefan Tóth, PhD.

Date of last modification: 23.03.2023
Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Medicine	
Course ID: USBM/ BHM-V/16	**Course name:** Behavioral 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: 4.

Course level: I.II.

Prerequisities:

Conditions for course completion:
Individual work, course assignment during the semester, presentation of the assignment results before the end of the semester, compulsory participation at practices, final test.

Learning outcomes:
To provide an insight into basic biobehavioural determinants of health and disease. Students will get an overview of modifiable social, psychological, and environmental factors that affect health behaviour, functional status and quality of life. Become acquainted with the methodology of measuring these factors. Obtain information on intervention programmes in the prevention of chronic diseases, health promotion, and chronic disease self-management. To learn the basic principles of the transfer of scientific knowledge into healthcare practice and policy, especially within the context of patient-centered, multidicsiplinary, and integrated care.

Brief outline of the course:
The continuum of health and illness. Biopsychosocial determinants of health. Quality of life and chronic disease. Chronic condition management and health behaviour. Psychoneuroimmunology. Stress, coping and health. Health-enhancing and health-damaging psychosocial factors. Adjustment to disease. Possibilities of measuring modifiable psychological, social and environmental factors affecting health-related behaviour and quality of life; patient-reported outcomes. Treatment adherence, compliance, self-management support. Non-pharmacological interventions, cognitivebehaviour therapy. Digital health interventions. Evidence-based behavioural medicine. Transfer of behavioural medicine knowledge into healthcare practice and policy.

Recommended literature:
[1] Steptoe A (ed). Handbook of Behavioral Medicine: Methods and Applications. Springer Science & Business Media, 2010, ISBN 0387094881, pp. 1074
[2] Nagyova I, Katreniakova Z (eds.) Behavioural medicine: biomedical and psychosocial aspects of chronic diseases, Equilibria, s.r.o., Košice, 2014, ISBN 978-80-8143-158-6, pp.280
[3] Talen MR, Burke Valeras A (Eds.) Integrated Behavioral Health in Primary Care. Springer-Verlag New York 2013, ISBN 978-1-4614-6888-2, pp. 354

Course language:

Notes:

Course assessment
Total number of assessed students: 5

abs	abs-A	abs-B	abs-C	abs-D	abs-E	neabs
0.0	0.0	40.0	0.0	20.0	0.0	40.0

Provides: Mgr. Iveta Rajničová Nagyová, PhD., MUDr. Zuzana Katreniaková, PhD., Mgr. Pavol Mikula, PhD., Mgr. Vladimíra Timková, PhD., Mgr. Alexandra Husivargová

Date of last modification: 25.05.2023

Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: ULBL/ BL-V1/09	**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:
Slabá, E. a kol. Lekárska biológia a genetika, ŠafárikPress, Košice 2023, 352 s.
Slabá, E. a kol.: Biológia - Praktické cvičenia, ŠafárikPress, Košice 2020, 164 s.
Sršeň,Š., Sršňová,K.: Základy klinickej genetiky a jej molekulárna podstata, Osveta, Martin 2005, 446 s.

Course language:

Notes:

Course assessment
Total number of assessed students: 3515

abs	abs-A	abs-B	abs-C	abs-D	abs-E	neabs
49.33	3.98	13.49	14.03	10.95	7.28	0.94

Provides: prof. RNDr. Ján Šalagovič, PhD., RNDr. Helena Mičková, PhD., RNDr. Jozef Židzik, PhD., RNDr. Terézia Hudáková, doc. RNDr. Peter Solár, PhD., RNDr. Martina Šemeláková, PhD., RNDr. Eva Slabá, PhD.

Date of last modification: 06.03.2023

Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: ULBL/BL-V2/12	**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: 7

Recommended semester/trimester of the course: 2.

Course level: I.II.

Prerequisities: ULBL/BL-V1/09

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 assessment 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:
Šalagovič, J. a kol. Lekárska biológia I., 2. doplnené vydanie, Equilibria, Košice 2009, 166 s.
Mičková, H. a kol.: Lekárska biológia II., Equilibria, Košice 2007, 224 s.
Slabá, E. a kol.: Biológia - Praktické cvičenia, ŠafárikPress, Košice 2020, 164 s.
Sršeň,Š., Sršňová,K.: Základy klinickej genetiky a jej molekulárna podstata, Osveta, Martin 2005, 446 s.

Course language:

Notes:

Course assessment
Total number of assessed students: 3233

A	B	C	D	E	FX
25.64	26.14	21.25	14.54	10.24	2.2

Provides: prof. RNDr. Ján Šalagovič, PhD., RNDr. Helena Mičková, PhD., RNDr. Lucia Klimčáková, PhD., RNDr. Jozef Židzik, PhD., RNDr. Terézia Hudáková, doc. RNDr. Peter Solár, PhD., RNDr. Martina Šemeláková, PhD., RNDr. Eva Slabá, PhD.

Date of last modification: 10.09.2021

Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: ULCHBKB/BCHM-V/10	**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: 79

abs	abs-A	abs-B	abs-C	abs-D	abs-E	neabs
26.58	15.19	18.99	15.19	6.33	2.53	15.19

Provides: doc. RNDr. Vladimíra Tomečková, PhD., doc. RNDr. Marek Stupák, PhD.

Date of last modification: 17.02.2023

Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: ULI/B-V/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/LI-V/22

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:
Slovak

Notes:

Course assessment
Total number of assessed students: 3

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: doc. Ing. Jaroslav Majerník, PhD.

Date of last modification: 25.03.2023

Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: ChK/ KVCH-V/12	**Course name:** Cardiovascular Surgery

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: ChK/CHP-V/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 cardiovascular diseases and their treatment (endovascular and surgical). To point out the causes, peculiarities of cardiovascular diseases and their prevention. To teach the basic principles of cardiovascular surgery and management of the cardiovascular patient.

Brief outline of the course:
Basic principles of cardiac and vascular surgery, endovascular procedures, principles of rehabilitation and dietetics.

Recommended literature:
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. ISBN 978-80-8152-581-0
Sabol, F., Kolesár, A., Artemiou, P., Ochorenia aorty, VEDA, 2015, 167 s., ISBN 9788022414319

Rutherford R.: Vascular Surgery
Krajíček M., Pelegrin J., Roček M., Šebesta P. a kol.: Chirurgická a intervenční léčba cévních onemocnění., GRADA 2007

Course language:
slovak

Notes:

Course assessment
Total number of assessed students: 39

abs	abs-A	abs-B	abs-C	abs-D	abs-E	neabs
10.26	89.74	0.0	0.0	0.0	0.0	0.0

Provides: prof. MUDr. František Sabol, PhD., MPH, MBA, prof. MUDr. Mária Frankovičová, PhD., MUDr. Mária Kubíková, PhD., doc. MUDr. Vladimír Sihotský, PhD., MUDr. Peter Štefanič, PhD., MUDr. Michal Virág, PhD., doc. MUDr. Martina Zavacká, PhD., MPH

Date of last modification: 23.03.2023

Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: IK/ KIM-V/16	**Course name:** Case Reports in Internal Medicine

Course type, scope and the method:
Course type: Seminar
Recommended course-load (hours):
Per week: Per study period: 6s
Course method: present

Number of ECTS credits: 2

Recommended semester/trimester of the course: 8.

Course level: I.II.

Prerequisities: IK/IM-V1/16 and UPF/PF-V2/16

Conditions for course completion:
1. For successful completion of the practical exercises/seminars is required: - To participate at all /100%/of practical exercises, theoretical and practical performance of all exercises/seminars. Processing of case reports.
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

Learning outcomes:
To obtain new knowledge from internal medicine.

Brief outline of the course:
Diseases of specific organ systems:
- cardiac (cardiology)
- respiratory (pneumology)
- endocrine gland (endocrinology)
- digestive (gastroenterology)
- blood circulation (hematology)
- uropoetic system (nephrology)

and rheumatological diseases.

Recommended literature:
1. Mark W.J. Strachan: 100 clinical cases. Elsevier, 2012
2. Klener: Vnitřní lékařství,GALÉN, 2012
3. D. Kasper, A. Fauci: Harrison s principles of Internal medicine, 20ed, 2017

Course language:
slovak

Notes:
The course Internal Medicine 1 is provided only in the summer term. The minimum number of registered students for the given subject must be 10 or more.

Course assessment
Total number of assessed students: 173

abs	abs-A	abs-B	abs-C	abs-D	abs-E	neabs
45.66	52.6	0.0	0.0	0.0	0.0	1.73

Provides: prof. MUDr. Ivica Lazúrová, DrSc.

Date of last modification: 14.03.2023

Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: KVL Šaca/OPVL-V/15	**Course name:** Clerkship - General 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: 9.

Course level: I.II.

Prerequisities: KVL Šaca/VL-V/15

Conditions for course completion:

Learning outcomes:

Brief outline of the course:

Recommended literature:

Course language:
Slovak language

Notes:

Course assessment
Total number of assessed students: 2523

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: 19.05.2022

Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: G-PK/ OPGP-V/16	**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/GP-V2/09

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:

Notes:

Course assessment
Total number of assessed students: 2684

abs	abs-A	abs-B	abs-C	abs-D	abs-E	neabs
99.96	0.04	0.0	0.0	0.0	0.0	0.0

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

Date of last modification: 23.03.2023

Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: IK/ OPIM-V/16	**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: 2

Recommended semester/trimester of the course: 8.

Course level: I.II.

Prerequisities: IK/IM-V1/16

Conditions for course completion:

Learning outcomes:

Brief outline of the course:

Recommended literature:

Course language:

Notes:

Course assessment
Total number of assessed students: 2753

abs	abs-A	abs-B	abs-C	abs-D	abs-E	neabs
99.93	0.0	0.0	0.0	0.0	0.0	0.07

Provides: prof. MUDr. Želmíra Macejová, PhD., MPH, prof. MUDr. Ivan Tkáč, PhD., prof. MUDr. Ružena Tkáčová, DrSc., prof. MUDr. Ivica Lazúrová, DrSc., prof. MUDr. Viola Mechírová, CSc., prof. MUDr. Jozef Pella, PhD., prof. MUDr. Gabriel Valočik, PhD., prof. MUDr. Peter Mitro, PhD., prof. MUDr. Štefan Koval, PhD., prof. MUDr. Elena Tóthová, CSc., doc. MUDr. Viola Vargová, PhD., doc. MUDr. Ivana Valočiková, PhD., doc. MUDr. Jozef Gonsorčík, CSc., prof. MUDr. Peter Jarčuška, PhD., prof. MUDr. Ľubomír Legáth, PhD., doc. MUDr. Eva Szabóová, PhD., MUDr. Andrea Galovičová, PhD., MUDr. Zuzana Kuklišová, PhD., doc. MUDr. Pavol Joppa, PhD., doc. MUDr. Miriam Kozárová, PhD., MPH, MUDr. Martin Javorský, PhD., doc. MUDr. Ingrid Dravecká, PhD., MUDr. Marek Varga, PhD., MUDr. Ján Pobeha, MUDr. Lýdia Pundová, CSc., MUDr. Ivan Majerčák, MPH, MUDr. Alojz Rajnič, PhD., MUDr. Eduard Veseliny, PhD., univerzitný docent, MUDr. Lucia Tomková, PhD., MUDr. Lucia Štovková, PhD., MUDr. Mgr. Ivana Jochmanová, PhD., MUDr. Lucia Vaszilyová, PhD., MUDr. Júlia Gajdziková, Katarína Spišáková, MUDr. Anna Ürgeová, PhD., MUDr. Katarína Tokarčíková, PhD., MUDr. Ivana Gotthardová, PhD., MUDr. Zuzana Kozelová, PhD., MUDr. Zora Lazúrová, PhD., doc. MUDr. Mária Rašiová, PhD., MUDr. Alena Yaluri, PhD.

Date of last modification: 05.08.2021

Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: ChK/ OPCH-V/16	**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/CH-V3/17

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:
Jaroslav Siman a kol.: Princípy chirurgie 1., SAP, Bratislava 2007, 923 s., ISBN: 8089104940
S. Haruštiak a kol.: Princípy chirurgie 2., SAP, Bratislava 2010, 866 s., ISBN: 9788080950538
J. Pechan, S. Haruštiak, P. Kothaj, J. Vajó, J. Siman: Princípy chirurgie 3., Prima Print, 2013, 1098s., ISBN: 978-80-89017-09-6
J. Radoňak a kol.: Infekcie v dutine brušnej – diagnostika a liečba, LOGARTO s. r. o., Prvé vydanie, 2012, 336 s., ISBN 978-80-970999-5-4
M. Zeman a kol.: Chirurgická propedeutika, Vydavateľstvo Grada 2011, 512 s., ISBN: 9788024737706
M. Huťan a kol.: Základy všeobecnej a špeciálnej chirurgie, UK Bratislava 2012, Skripta
Olejník,J. a kol.: Perioperačná liečebná starostlivosť 1. vyd. Bratislava : Ebner, 1999. 234 s.,
Zeman,M.: Obvazová a sádrovací technika. Avicenum, Praha, 1985,
Guzanin: Vybrané kapitoly z plast. , rekonštrukčnej a estetickej chirurgie, 2003, skriptá LF UPJŠ,
Pokorný, J. et al.: Traumatologie, Triton 2002, ISBN 80-7254-277-X

Course language:
Slovak language

Notes:

Course assessment
Total number of assessed students: 2596

abs	abs-A	abs-B	abs-C	abs-D	abs-E	neabs
99.85	0.12	0.0	0.0	0.0	0.04	0.0

Provides: MUDr. Lucia Sukovská Lakyová, PhD., prof. MUDr. Jozef Radoňak, CSc., MPH, doc. MUDr. Jozef Belák, PhD., prof. MUDr. Jana Kaťuchová, PhD., MBA, MUDr. Milan Stebnický, PhD., MUDr. Marián Kudláč, MUDr. Róbert Šimon, PhD., MPH, MUDr. Peter Zavacký, PhD., MPH, MUDr. Milan Šudák, PhD., MUDr. Róbert Kilík, PhD., MUDr. Peter Pažinka, PhD., MPH, doc. MUDr. Marek Šoltés, PhD., MUDr. Pavol Harbuľák, MUDr. Andrej Vrzgula, PhD., MUDr. Martina Vidová Ugurbas, PhD., MPH

Date of last modification: 07.03.2023

Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: UA/ KA-V/20	**Course name:** Clinical Anatomy

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

Number of ECTS credits: 2

Recommended semester/trimester of the course: 8.

Course level: I.II.

Prerequisities: UA/A-V3/17 or UA/A-GM2/22

Conditions for course completion:
Students must present anatomical speciments they prerared during the semester.
Evaluation: completed

Learning outcomes:
The aim of this subject is the study of topographical relationships of the anatomical structures, their position in the human body with emphasis on needs of clinical medicine. The explanation of the existence of different variations of various anatomical structures is very important for the next practice. The lectures are divided into anatomical and clinical part. The clinical part is lectured by doctors – clinicians.

Brief outline of the course:
Topographical anatomy of the various regions of the head, neck, chest, abdomen, pelvis, upper and lower limbs. The dissection and study of surface and in-depth services in these areas.

Recommended literature:
Platzer W.: Color Atlas of Human Anatomy, Locomotor system, Internal organs, Nervous system , Thieme, 6th Edition, 2008.
Gilroy A. M.: Anatomy An essential Textbook, Thieme 2013.
Leonhardt H.: Color Atlas of Human Anatomy, Internal organs , Thieme, 6th Edition, 2008.
Kahle W.: Color Atlas of Human Anatomy, Nervous system and sensory organs . Thieme, 6th Edition, 2008.
Netter F. H.: Atlas of Human Anatomy .
Sobotta: Atlas of Human Anatomy , 15th Edition, Musculosceletal System, Internal Organs, Head, Neck, Neuroanatomy, Ed. by F. Paulsen and J. Waschke, English version with English Nomenclature, Elsevier Urban &Fisher, www. e-sobotta.com/service.
Kluchová D. et al.: Guide through Anatomy of Human Body , Košice, 2010.
Kluchová D. : Neuroanatomy, Košice, 2010
Rohen, Yokochi: Colour Atlas of Anatomy
K. L. Moore: Essential Clinical Anatomy

Course language:
English

Notes:
subject is provided only in the summer semester

Course assessment
Total number of assessed students: 42

abs	abs-A	abs-B	abs-C	abs-D	abs-E	neabs
71.43	14.29	0.0	0.0	0.0	0.0	14.29

Provides: doc. MUDr. Ingrid Hodorová, PhD., univerzitná profesorka, prof. MVDr. Silvia Rybárová, PhD., doc. MVDr. Jozef Mihalik, CSc., doc. MVDr. Květuše Lovásová, PhD., MUDr. Janka Vecanová, PhD., MUDr. Marko Vrzgula, MUDr. Róbert Rapčan, PhD.

Date of last modification: 17.03.2023

Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: ULCHBKB/KB-V/20	**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: 10.

Course level: I.II.

Prerequisities: ULCHBKB/LBC-V2/20 and UPF/PF-V2/16

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: 2913

abs	abs-A	abs-B	abs-C	abs-D	abs-E	neabs
53.62	7.11	12.5	19.43	3.81	3.09	0.45

Provides: MUDr. Angela Molčányiová, PhD., prof. Ing. Mária Mareková, CSc., Ing. Beáta Hubková, PhD.

Date of last modification: 17.02.2023

Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: ULBF/ KBF-V/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/LBF-V/22

Conditions for course completion:
- The minimum number of students is 5 students.
- written tests, exam

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:
Vojtech MORNSTEIN a kol., Lekárska fyzika a biofyzika, muni Press, Brno 2018
Lekárska biofyzika a pristrojová technika: I.Hrazdíra, V.Mornstein, Neptun, Brno, 2001

Course language:
Slovak and English language

Notes:

Course assessment
Total number of assessed students: 11

A	B	C	D	E	FX
90.91	9.09	0.0	0.0	0.0	0.0

Provides: doc. RNDr. Ján Sabo, CSc., univerzitný profesor, RNDr. Imrich Géci, PhD.

Date of last modification: 24.03.2023

Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: KGO/ KHT-V/16	**Course name:** Clinical Hyperthenziology

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:

Conditions for course completion:

Learning outcomes:

Brief outline of the course:

Recommended literature:

Course language:

Notes:

Course assessment
Total number of assessed students: 20

abs	abs-A	abs-B	abs-C	abs-D	abs-E	neabs
50.0	45.0	5.0	0.0	0.0	0.0	0.0

Provides: doc. MUDr. Marian Sninčák, PhD.

Date of last modification: 26.08.2021

Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: ULM/ KI-V/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/ZI-V/18 and UPF/PF-V2/16

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:
Jilek P.: Imunologie, Grada 2019
Chapel H.: Základy klinickej imunológie, Martinus 2018
Čap P., Rybníček O.: Alergologie do kapsy, Mladá fronta 2019
Bernstein J.: Primary and Secondary Immunodeficiency, Springer 2021

Course language:

Slovak language

Notes:
the subject is only offered in the winter semester if at least 3 students enroll in it

Course assessment
Total number of assessed students: 106

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

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

Date of last modification: 23.03.2023

Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: UPF/KPF-V/18	**Course name:** Clinical Pathophysiology

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.

Course level: I.II.

Prerequisities: UPF/PF-V1/16

Conditions for course completion:
Credits are awarded to students who have full attendance in class and an adequate level of knowledge in semester evaluations.

Learning outcomes:
Advanced theoretical and practical knowledge of the pathogenesis of selected diseases, their clinical manifestations and complications. necessary for a deeper understanding of clinical diagnosis and treatment

Brief outline of the course:
Course outline: pathophysiology and pathogenesis of selected diseases and pathologies. Pathophysiology of selected conditions:
Disorders of the Internal Environment: Electrolyte Disruption; Acid-Base Balance Practicum: cc: Model situations - analysis; case studies.
Hematology: Anemia, Polyglobulia, Leukocyte. Diseases (leukemias, leukoses), Thrombocytopathies, Thrombophilic conditions, DIC; Practicum: Lab. Findings, case reports
Cardiology.: Cardiac Canalopathies, Congenital Cardiomyopathies; Ischemic Heart Disease, Heart Failure, Hyperlipidemia; Practicum: Dysrhythmias, ECG Diag., Holter Monitoring (Principles)
Cardiology: Cardiac channelopathies, Congenital cardiomyopathies; Ischemic heart disease, Practice: Dysrhythmias, ECG diagnostics, Holter monitoring (principles),
Respirology: Obstructive ch. (asthma, COPD); Restrictive & Occupational Lung Diseases, Pulmonary Hypertension; Practice: Spirometry, auscultation & percussion phenomena
Neurology: Pathogenesis of cerebral ischemia & hypoxia, Neurodegenerative diseases (Alzheimer's, Parkinson's); Vegetative disorders; Neuropathies; Practicum: Hig. VNS, HRV and HUT
Endocrinology: Diabetes mellitus; etiopathogenesis, classification; Chronic complications of DM, diabetic neuropathy, retinopathy, vasculopathy, diabetic foot; Practicum: Hig. Diabetol.
Nephrology: Renal hypertension; Glomerulopathies; Diabetic nephropathy; Practicum: Case reports
Pathophysiology of pregnancy: Early and late gestosis; Neonatology; Practicum: Case reports

Recommended literature:
Recommended reading:

1) Hulín, I.: Patofyziológia. 8. vydanie, Pro Litera, 2016, 744s,ISBN-13: 978808966059
Nečas, E.:Patologická fyziologie orgánových systémů I. Karolinum Praha, 2003, 379s, ISBN: 9788024617114
2) Nečas, E. Patologická fyziologie orgánových systémů II. Karolinum Praha, 2003, 396s, ISBN: 9788024617121
3) Rokyta, R. a spol. Fyziologie a patologická fyziologie pro klinickou praxi. Grada Praha, 2015, 712s, ISBN: 9788044748672
4) Fölsch, U. R. a spol.:Patologická fyziologie. Grada Praha, 2003, 588 s, ISBN: 8024703319
5) Silbernagl, S. a spol.: Atlas patofyziologie. Grada Praha, 2012, 406 s, ISBN: 9788024735559

Course language:
slovak language

Notes:
The course is opened in a given semester only if the number of students is greater than 2.

Course assessment
Total number of assessed students: 20

abs	abs-A	abs-B	abs-C	abs-D	abs-E	neabs
95.0	0.0	0.0	0.0	0.0	0.0	5.0

Provides: doc. MUDr. Roman Beňačka, CSc., MUDr. Marek Brenišin, PhD., MVDr. Eva Lovásová, PhD., MVDr. Jaroslava Králiková, PhD., MUDr. Eva Sedláková, PhD., MUDr. Lenka Šalamonová Blichová, PhD.

Date of last modification: 24.03.2023

Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: UFZ/ KFSM-V/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/FZ-V2/14 and UPF/PF-V2/16

Conditions for course completion:
On-going assessment in the form of solving assigned tasks, 100% and active participation in lectures and the practical part. Final evaluation in the form of a written exam.

Learning outcomes:
Acquiring basic knowledge about the physiological and pathophysiological mechanisms of sleep and breathing during sleep, adaptation, regulation and integration mechanisms of individual systems of the human organism necessary for understanding the pathogenetic mechanisms of sleep disorders, their diagnosis and therapeutic interventions. The all-night polysomnographic examination of the patient and the demonstration of the comprehensive evaluation of the examination records should enable the diagnosis of various sleep disorders and the subsequent failure of individual vital functions of the body.

Brief outline of the course:
• Sleep and its regulation: neurogenesis of sleep, sleep in mammals, EEG findings (REM and NREM).
• Sleep disorders: Insomnia, hypersomnia, narcolepsy, circadian rhythms, parasomnias, restless legs syndrome, etc.
• Genesis and changes in breathing and circulation during sleep: Chemical regulation, hypoxia, asphyxia, somato- and viscero-motor changes during 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 Laboratory: Demonstration of polysomnographic registration, anamnesis, diagnosis and treatment (CPAP, Bi PAP, Auricular stimulation).
• Demonstration of comprehensive evaluation of medical history, 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: 50

A	B	C	D	E	FX
64.0	16.0	14.0	4.0	2.0	0.0

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

Date of last modification: 28.02.2023

Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Medicine	
Course ID: UO/ KZP-V/19	**Course name:** Communication in Nursing 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: 4., 6.

Course level: I.II.

Prerequisities:

Conditions for course completion:

Learning outcomes:

Brief outline of the course:

Recommended literature:

Course language:

Notes:

Course assessment
Total number of assessed students: 0

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

Provides:

Date of last modification: 10.11.2021

Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: ULI/ PB-V/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: 5.

Course level: I.II.

Prerequisities: ULI/LI-V/22

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:
This subject should provide an understanding of the basic principles that underlie research design, data analysis and interpretation of results and enable the students to carry out a wide range of statistical analyses.

Brief outline of the course:
Basic notion. General sequence of steps in a research project. The design of experiment. Descriptive statistics - mean, standard deviation, variance, standard error of the mean, quartils, confidence intervals. The distribution of observations. Theoretical models of distribution probability. Data protection in information systems. Estimation and hypothesis testing. Data collection, data entry, data checking, data cleaning, data analysis. The two-sample test for equal means, paired and not-paired. Homogenity of variance in the two samples means test. Analysis of variance one way, parametric. Non-parametric tests. Solution of tasks with using commercialy software. Regression and correlation. Relation between two continuous variables. Simple linear regression and correlation. Correlation coeficient. Point and interval estimates for parameters of line. Testing hypothesis of probability. Contingency tables. Uncertainty models and their aplications in medicine. Solution of typical tasks.

Recommended literature:
1. Dale E. Mattson, Ph.D., Statistics, Difficult concepts, understandable explanations, Bolchay - Carducci Publishers, 1999.
2. Douglas G. Altman, Practical Statistics for Medical Research, CHAPMAN @ HALL, London, 1994.
3. Notes from exercises.

Course language:
slovak

Notes:

Course assessment
Total number of assessed students: 22

A	B	C	D	E	FX
72.73	4.55	9.09	0.0	0.0	13.64

Provides: doc. Ing. Jaroslav Majerník, PhD.

Date of last modification: 25.03.2023

Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: SK/S-V/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: UPF/PF-V1/16 and ULM/MB-V1/09 and UP/PA-V1/22

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:
Miloro,M. : Peterson s Principles of Oral and Maxillfacial Surgery, 2004 Chesnutt,I.G. : Clinical Dentistry, 2000
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: 2982

A	B	C	D	E	FX
30.21	32.03	22.27	9.59	5.6	0.3

Provides: Dr.h.c. prof. MUDr. Andrej Jenča, CSc., MPH, MUDr. Stanislav Andrejko, PhD., MUDr. Andrej Jenča, PhD., MBA, MDDr. Juraj Bánovčin, PhD., MDDr. Viktória Dávid Kucková, MDDr. Andrea Stašková, PhD., MDDr. Marcel Riznič, PhD., MDDr. MUDr. Beáta Bolerázska, PhD., MDDr. Petra Bejdová, MDDr. Adela Dzurilová, MDDr. Natália Sokolová, MDDr. Vladislava Šaková, MDDr. Adriána Jurušová, MDDr. René Koudelka

Date of last modification: 20.03.2023

Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: KD/D-V1/19	**Course name:** Dermatovenerology 1

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: ULM/MB-V1/09 and UPF/PF-V1/16 and UP/PA-V1/14

Conditions for course completion:

Learning outcomes:

Brief outline of the course:

Recommended literature:

Course language:

Notes:

Course assessment
Total number of assessed students: 2758

abs	abs-A	abs-B	abs-C	abs-D	abs-E	neabs
57.8	36.77	3.63	1.23	0.29	0.25	0.04

Provides: prof. MUDr. Jagienka Jautová, PhD., MBA, MUDr. Vladimíra Nagyová, MUDr. Zuzana Baranová, PhD., MUDr. Janette Baloghová, PhD., MUDr. Gabriela Takáčová, MBA, MUDr. Anna Rajňáková

Date of last modification: 28.09.2021

Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: KD/D-V2/18	**Course name:** Dermatovenerology 2

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: KD/D-V1/19

Conditions for course completion:

Learning outcomes:

Brief outline of the course:

Recommended literature:

Course language:

Notes:

Course assessment
Total number of assessed students: 2847

A	B	C	D	E	FX
35.72	18.41	18.69	8.01	14.86	4.32

Provides: prof. MUDr. Jagienka Jautová, PhD., MBA, MUDr. Janette Baloghová, PhD., MUDr. Gabriela Takáčová, MBA, MUDr. Anna Rajňáková

Date of last modification: 28.09.2021

Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Medicine	
Course ID: CJP/ LFRZCPOTA/16	**Course name:** Developing Reading and Writing Skills (Specialised Texts) in English Language

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

Number of ECTS credits: 2

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

Course level: I.II.

Prerequisities:

Conditions for course completion:
Active classroom participation, 2 absences (2x90 min.) tolerated.
Test (6th/7th week, 12th/13th week), no retake.
Exam - final exam test.
Final evaluation = continuous assessment tests (50%), final exam test (50%).
Grading 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 students´ reading and writing skills, students obtain knowledge of selected aspects of funtional grammar and specific features of English-written professional/scientific texts, and acquire practical academic writing skills, level B1/B2 according to CERF.

Brief outline of the course:
Organising ideas/text, linking words, cohesion and coherence devices.
Paragraph building, writing and essay/scientific paper.
Paraphrasing.
Reading techniques - skimming, scanning, reading for key terms/ideas, understanding complex sentences.

Recommended literature:
Thaine, C.: Cambridge Academic English Intermediate. CUP, 2012.
McCarthy, M.., O´Dell, F.: Academic Vocabulary in Use, Cambridge University Press, 2008.
Štepánek, L., J. De Haff a kol.: Academic English-Akademická angličtina. Grada Publishing, a.s. 2011.
Armer, T.: Cambridge English for Scientists. Cambridge University Press, 2011.
Bailey, S.: Academic Writing. A Handbook for International Students. Routledge, 2011.
Swales, J. M., Feak, Ch. B.: Academic Writing for Graduate Students. University of Michigan Press, 2004.

Course language:
English language, level B2 according to CEFR.

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. Zuzana Kolaříková, PhD.

Date of last modification: 11.03.2022

Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: UPZMV/VP-V/10	**Course name:** Developmental Psychology

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

Number of ECTS credits: 2

Recommended semester/trimester of the course: 7.

Course level: I.II.

Prerequisities:

Conditions for course completion:
Seminar work (50%) and an oral exam in the content of lectures and seminars (50%).

Learning outcomes:
To provide theoretical foundations and starting points of developmental psychology as well as knowledge about the age characteristics of individual developmental periods up to adulthood. To teach students to work with professional literature, to create a knowledge base, but also their own opinion, attitude to social problems, to present their knowledge and attitudes, to discuss basic social problems

Brief outline of the course:
Theoretical foundations and starting points of developmental psychology. Development and its determinants. Family as a basic factor in personality development. Periodization of development. Developmental characteristics of individual periods up to adulthood (prenatal period, period of infant, toddler, preschooler, younger school age, pubescence, adolescence, adulthood, old age).

Recommended literature:
1. Vágnerová M.: Vývojová psychologie. Portál, Praha 2000.
2. Langmeier J., Krejčrová D.: Vývojová psychologie. Grada. Praha 1998.
3. Piaget J., Inhelderová B.: Psychologie dítěte. Portál, Praha 1997.
4. Heidbrink H.: Psychologie morálního vývoje. Portál, Praha 1997.

Course language:
slovak

Notes:
Teaching takes place if at least 15 students are enrolled
Combined form of education

Course assessment
Total number of assessed students: 17

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: Mgr. Peter Kolarčik, PhD., Mgr. Daniela Fiľakovská, PhD., doc. Mgr. Zuzana Dankulincová, PhD., Mgr. Daniela Husárová, PhD., Mgr. Jaroslava Kopčáková, PhD., Mgr. Laura Bittó Urbanová, PhD., PhDr. Ivana Skoumalová, PhD., Mgr. Simona Horaničová, PhD., Mgr. Shoshana Chovan, Mgr. Miriama Lacková Rebičová, PhD., prof. Mgr. Andrea Madarasová Gecková, PhD.
Date of last modification: 13.05.2022
Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Medicine	
Course ID: Dek. LF UPJŠ/DPO-VL/15	**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/DS-VL1/22 and Dek. LF UPJŠ/DS-VL3/12 and Dek. LF UPJŠ/DS-VL2/22 and Dek. LF UPJŠ/DS-VL4/12	
Conditions for course completion:	
Learning outcomes:	
Brief outline of the course:	
Recommended literature:	
Course language:	
Notes:	

Course assessment
Total number of assessed students: 2507

A	B	C	D	E	FX
60.11	28.52	8.74	1.72	0.88	0.04

Provides:
Date of last modification: 02.05.2022
Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: IK/ DTP-V/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:

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:
Slovak 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: 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: 03.03.2023

Approved: prof. MUDr. Daniel Pella, 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: 5., 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: PhDr. Helena Petruňová, CSc.

Date of last modification: 11.03.2022

Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Medicine	
Course ID: CJP/ LFKZAL2/16	**Course name:** English 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: 6., 8.

Course level: I.II.

Prerequisities: CJP/LFKZAL1/16

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: PhDr. Helena Petruňová, CSc.

Date of last modification: 11.03.2022

Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: CJP/ LFAJV/09	**Course name:** English Language for General 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: 2.

Course level: I.II.

Prerequisities:

Conditions for course completion:
Active classroom participation (2x90 min. absence tolerated), LMS Moodle - practice tests, 2 continuous assessment tests, oral presentation.
Students must obtain 60% in continuous assesssment to be elligible for the final exam registration.
Exam - final exam test
Final evaluation = continuous assessment results - 50% , final exam test result - 50%.
Grading 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 students´ language skills - reading, writing, listening, speaking, improvement of their linguistic competence - students acquire knowledge of selected phonological, lexical and syntactic aspects, development of pragmatic competence - students can efectively use the language for a given purpose, with focus on English for specific/professional purposes - General Medicine, level B2.

Brief outline of the course:
Phonetic-phonological aspects of medical English.
Highlights from the history of medicine.
Human body, human anatomy.
Health and illness, ailments, diseases - their symptoms, treatment, prevention.
Hospital - wards, hospital staff.
Medical specialties.
Patient´s examination, doctor-patient communication.
Functional grammar - defining, classifying, expressing opinion, expressing function/role.
Presentation skills - sign-posting language, structure of presentation, discussion participation, etc.

Recommended literature:
Glendinning, E. H., Howard,R.: Professional English in Use – Medicine, CUP, 2007.
Check your vocabulary for medicine. A&C Black Publishers Ltd., 2006.
Tiersky, E., Tiersky, M.: The Language of Medicine in English. Regent/Prentice Hall, 1992
Fitzgerald, P., McCullagh, M., Wright, R.: English for Medicine in Higher Education Studies. Garnet Publishing Ltd. 2010.
McCarthy, M., O´Dell, F.: English Vocabulary in Use. Advanced. CUP, 2002

Langová, T.: Slovensko-anglický slovník medicíny. Veda. Bratislava, 1997
Langová, T.: Anglicko-slovenský slovník medicíny. Veda. Bratislava, 1996

Course language:
level B2 according to CERF

Notes:

Course assessment
Total number of assessed students: 3010

A	B	C	D	E	FX
34.29	22.03	19.07	12.16	11.2	1.26

Provides: PhDr. Helena Petruňová, CSc., Mgr. Zuzana Kolaříková, PhD., Mgr. Viktória Mária Slovenská

Date of last modification: 10.02.2023

Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Medicine	
Course ID: UE/E-V/16	**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: 8.

Course level: I.II.

Prerequisities: ULM/MB-V2/14 and UPF/PF-V1/16

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 P. a kol.: Epidemiológia. Bratislava. 2014. 520 s.
Bazovská S. a kol.: Špeciálna epidemiológia. Bratislava. 2017, 337 s.
Čisláková L. a kol.: Epidemiológia vybraných nákaz. LF UPJŠ, Košice 2001, 263 s.

Course language:
Slovak

Notes:

Course assessment
Total number of assessed students: 2771

A	B	C	D	E	FX
9.02	28.22	30.82	20.86	10.86	0.22

Provides: MUDr. Zuzana Kalinová, PhD., prof. MVDr. Monika Halánová, PhD., prof. MVDr. Peter Juriš, CSc., MUDr. Ingrid Babinská, PhD., MPH, MVDr. Veronika Bednárová, PhD., MVDr. Elena Hatalová, PhD., doc. MUDr. Ingrid Urbančíková, PhD., MPH

Date of last modification: 28.02.2023

Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: ULI/ MZND-V/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., 10.

Course level: I.II.

Prerequisities: ULI/LI-V/22

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. Majerník J.: Úvod do medicíny založenej na dôkazoch pre študentov lekárskych fakúlt, Univerzita Pavla Jozefa Šafárika v Košiciach, ŠafárikPress, 2021, ISBN 978-80-574-0065-3.
2. Heneghan C., Badenoch D.: Evidence-based Medicine Toolkit, BMJ Books, Blackwel Publishing, 2006, ISBN 978-0-7279-1841-3.
3. Majerník J., Švída M., Majerníková Ž.: Medicínska informatika, UPJŠ, Košice 2010, Equilibria, ISBN 978-80-7097-811-5.
4. Notes from exercises.

Course language:
slovak

Notes:

Course assessment
Total number of assessed students: 6

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

Provides: doc. Ing. Jaroslav Majerník, PhD.

Date of last modification: 25.03.2023

Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: 1. KAIM/PP-V/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:
Properly rehearse and perform basic emergency resuscitation. Familiarisation with the basics of first aid for mass casualties, bleeding, burns and sudden illness. To train students to be able to provide first aid to a casualty before the arrival of the emergency services.

Brief outline of the course:
Pre-medical first aid. First aid for unconsciousness, convulsions, respiratory disorders. Shock conditions. Stopping bleeding. Basic emergency resuscitation. Injuries in traffic accidents. Positioning and transport of the injured.

Recommended literature:
KELNAROVÁ, Jarmila: První pomoc I - Pro studenty zdravotnických oborů, 2013, ISBN 978-80-247-4199-4
KELNAROVÁ, Jarmila: První pomoc II - Pro studenty zdravotnických oborů ,2013, ISBN 978-80-247-4200-7

Course language:
Slovak language

Notes:

Course assessment
Total number of assessed students: 3511

abs	abs-A	abs-B	abs-C	abs-D	abs-E	neabs
49.27	12.36	19.6	9.23	3.9	4.96	0.68

Provides: MUDr. Judita Capková, PhD., MUDr. Vladimír Hudák, PhD., MUDr. Monika Grochová, PhD., doc. MUDr. Radoslav Morochovič, PhD., MUDr. Štefan Ivanecký, MUDr. Jana Šimonová, PhD., MPH

Date of last modification: 23.03.2023

Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Medicine	
Course ID: USL/ SLK-V/16	**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:

Conditions for course completion:
Attendance on lectures and seminars to the specified extent, successful presentation of seminar work.

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. The position and tasks of forensic doctor, police investigator, and police technician in the investigation of a crime. Crime scene investigation. Types of evidence. Collection of evidence at the crime scene. Bloodstain patterns. Forensic identification. Techniques and procedures in postmortem identification. Dactyloscopy. Forensic biology and genetics. Portrait identification. Forensic odorology. Trasology. Firearms and toolmarks. Criminalistic tactics. Interviewing, questioning, and interrogation. Crime reconstruction. Criminology. Different schools of criminology. Areas of focus of criminologist. Victimology. Forensic psychology. Sanity evaluations and criminal responsibility. Contagiousness of evil. Serial and mass murderer.

Recommended literature:
ERZINCLIOGLU, Z. Forenzná kriminalistika. Bratislava: Fortuna Libri, 2008.
KOLEKTÍV AUTOROV. Soudní lékařství. Praha: Grada Publishing, a. s.,1999.
HIRT, M., VOREL, F. a kol. Soudní lékařství I. díl. Praha: Grada Publishing, a. s., 2015.
HIRT, M., VOREL, F. a kol. Soudní lékařství II. díl. Praha: Grada Publishing, a. s., 2016.
DRBOHLAV, A. Psychologie masových vrahů. Praha: Grada Publishing a. s., 2015.

Course language:

Slovak

Notes:
Maximum class size is 20 students.

Course assessment
Total number of assessed students: 61

abs	abs-A	abs-B	abs-C	abs-D	abs-E	neabs
50.82	39.34	0.0	0.0	0.0	0.0	9.84

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

Date of last modification: 21.07.2021

Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Medicine	
Course ID: USL/ SLMP-V/19	**Course name:** Forensic Medicine and Medicine 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: 2

Recommended semester/trimester of the course: 10.

Course level: I.II.

Prerequisities: ChK/CH-V3/17 and IK/IM-V3/17 and NLK/NL-V2/14

Conditions for course completion:
Attendance on lectures and seminars to the specified extent, successful completion of a credit test and oral exam.

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 forensic medicine. History of forensic medicine. Role and concept of forensic medicine in Slovakia. Health Care Surveillance Authority. Medico-Legal and Pathological-Anatomical Departments of HCSA. Forensic medicine and legal authorities. Expert activity in relation to Criminal Law. Act No. 576/2004 Coll. on health care – procedures to be followed in case of death. Act No. 581/2004 Coll. on health insurance companies, healthcare supervision – examination of the dead body, autopsy. Types of autopsies. Autopsy procedure. Collection of biological material during the autopsy. Imaging methods in forensic medicine. Neonatal autopsy. Medicolegal death investigation. Estimation of the time of death. Postmortem changes. Supravital and vital reactions. Manner of death. Identification of the living and the dead. Forensic dentistry. Identity of decomposed or skeletalised remains. Identification in mass disasters. Exhumation. Visit to the autopsy room – documentation required for the autopsy, autopsy diagnosis, autopsy report. Natural (non-violent) death in adults. Natural (non-violent) death in children. Sudden infant death syndrome. Violent death in children. Child abuse and neglect. Killing of a newborn baby by the mother. Pregnancy and childbirth. Sexual offenses. Violent death. Mechanical injuries. Examination of wounds. Blunt and sharp force injuries. Regional injuries. Craniocerebral trauma. 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. 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. Health care regulations. Status and role of a doctor in legal system of SR. Legal responsibility of the doctor. Medical errors. Iatrogenic damage. Expert activity in medical profession (Act No. 437/2004 Coll.). Forensic expert activity. Forensic medical examination of the living persons. Compensation for pain and deteriorated social and work capacity (Act No. 382/2004 Coll.).

Recommended literature:

LONGAUER, F., BOBROV, N. a IANNACCONE, S. Súdne lekárstvo pre študentov práva. Košice: UPJŠ v Košiciach, 2002.
KOVÁČ, P. a kol. Súdne lekárstvo pre právnikov. Bratislava: Iura Edition, 2005.
KOLEKTÍV AUTOROV. Soudní lékařství. Praha: Grada Publishing, a. s.,1999.
ŠTEFAN, J., HLADÍK, J. a kol. Soudní lékařství a jeho moderní trendy. Praha: Grada Publishing a. s., 2012.
HIRT, M., VOREL, F. a kol. Soudní lékařství I. díl. Praha: Grada Publishing, a. s., 2015.
HIRT, M., VOREL, F. a kol. Soudní lékařství II. díl. Praha: Grada Publishing, a. s., 2016.
KRAJČOVIČ, J. Vybrané medicínsko-právne kapitoly v súdnom lekárstve. Bratislava: Univerzita Komenského v Bratislave, 2012.

Course language:
Slovak

Notes:

Course assessment
Total number of assessed students: 2665

A	B	C	D	E	FX
92.01	6.6	1.16	0.19	0.04	0.0

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

Date of last modification: 20.07.2021

Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: KAaA/ LFFJV/09	**Course name:** French Language for General 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: 2.

Course level: I.II.

Prerequisities:

Conditions for course completion:

Learning outcomes:

Brief outline of the course:

Recommended literature:

Course language:

Notes:

Course assessment
Total number of assessed students: 10

A	B	C	D	E	FX
80.0	10.0	10.0	0.0	0.0	0.0

Provides: Mgr. Lucia Gallová

Date of last modification: 08.10.2016

Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Medicine	
Course ID: ULCHBKB/UO-V/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-V3/22

Conditions for course completion:
1.Attendance confirmed in the attendance register /possible 2 excused absences/
2.Completion of assigned tasks.

Learning outcomes:
To highlight the importance of good nutrition in the prevention and treatment of various diseases.

Brief outline of the course:
Basic concepts: nutrition, dietetics, dietetics, food, foodstuff, food, diet, nutrient. Division of nutrients, nutrient recommendations (RDAs) and recommended dietary allowances (RDAs) for different population groups. Current nutritional situation at home and worldwide. National Health Promotion Programme (EU programmes), development of food consumption of the population in the Slovak Republic, in the world and nutritional trends. Energy balance, the share of essential nutrients in the total energy of the diet. Proteins. Occurrence in food, amino acid composition, limiting AMK. Factors influencing protein utilization (AMK potential), antinutrients, production technologies, culinary preparation, storability, optimization possibilities.Lipids. Occurrence in food, hidden fats, fatty acid composition of fats and oils. Essential FAs, omega-6 and omega-3 polyunsaturated FAs, trans FAs, conjugated FAs and their effect on metabolism. Changes in composition and quality of fats during production (oils - refined, virgin, margarines, etc.). Changes during heat treatment. Options for optimising lipid intake. Steroids, animal and plant sterols, occurrence and effect on the body. Carbohydrates. Occurrence in food. Hydrolysable and non-hydrolysable by enzymes in the GIT. Effect of individual carbohydrates on metabolism (sucrose, fructose, starch, prebiotics, fibre) and development of metabolic syndrome. Mineral nutrition. Macro and micronutrients, their function. Occurrence in food and commodities. Mineral interrelationships (antagonistic, synergistic). Factors influencing their resorption. Metabolism of iron. Food additives (artificial, natural). Preservatives, antioxidants, emulsifiers and stabilisers, emulsions, dyes and bleaches, texturizers, sweeteners, etc. Restitution and fortification of foodstuffs.Basic principles of production of major foodstuffs and changes in nutritional value (meat and meat products, milk and milk products, cereals and bakery products), production of beverages and their impact on health. Nutritional supplements based on vitamins, natural mineral substances. Foods for special nutritional purposes and their production. Foods for infant and child nutrition.

Foods with salt replacement (gluten-free and for diabetics), nutrition for the most common genetic defects. Food allergies, food from genetically modified organisms. Alternative forms of nutrition. Vegetarianism (ovo- and lacto-vegetarians), macrobiotics, vitarists, split diets, reduction diets. Parenteral nutrition and tube feeding. Realimentation and prevention of RFS. Diet in disorders of lipid metabolism. Omega-3- PNMK and metabolic syndrome.Reduction diets and evidence-based medicine. Malnutrition, obesity, probiotics.

Recommended literature:
Štěfán Svačina a kol. - Klinická dietologie, Grada Publishing, Praha, 2008
MUDr. Tomáš Fait, PhD. a kol. - Preventivní medicína, Maxdorf Jessenius

Course language:
slovak

Notes:

Course assessment
Total number of assessed students: 61

abs	abs-A	abs-B	abs-C	abs-D	abs-E	neabs
63.93	31.15	0.0	0.0	0.0	0.0	4.92

Provides: prof. MUDr. Daniel Pella, PhD., doc. MVDr. Ladislav Vaško, CSc., doc. MUDr. Milan Kuchta, CSc., doc. MUDr. Jozef Firment, PhD.

Date of last modification: 23.03.2023

Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: UVZH/ ZHZR-V/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:

Learning outcomes:

Brief outline of the course:

Recommended literature:

Course language:

Notes:

Course assessment
Total number of assessed students: 3

A	B	C	D	E	FX
66.67	0.0	0.0	33.33	0.0	0.0

Provides: prof. MUDr. Kvetoslava Rimárová, CSc.

Date of last modification: 13.03.2023

Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: ULM/ZI-V/18	**Course name:** Fundamentals of Immunology

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

Number of ECTS credits: 5

Recommended semester/trimester of the course: 4.

Course level: I.II.

Prerequisities: ULBL/BL-V1/09

Conditions for course completion:
tests
examination

Learning outcomes:
Overview of the structure, mechanisms and function of immune system.

Brief outline of the course:
Cells of immune system. Function of T and B lymphocytes. NK cells. Myeloid cells. Structure and function of lymphoid organs. Mucosal immune system. Major histocompatibility system. Antigens, immunoglobulins, cytokines, adhesive molecules. Regulation of immune response. Immunopathological reactions I, II, III, IV. Anticancer immunity. Autoimmunity. Immunodeficiency.

Recommended literature:
Stites, D.P.: Medical Immunology

Course language:

Notes:

Course assessment
Total number of assessed students: 3421

A	B	C	D	E	FX
31.86	13.45	21.13	14.32	11.75	7.48

Provides: RNDr. Marián Sabol, CSc., Dr.h.c. prof. MUDr. Leonard Siegfried, CSc., MVDr. Vladimír Hrabovský, PhD., Mgr. Mária Nagyová, Ing. Viera Lovayová, PhD.

Date of last modification: 31.03.2023

Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: UPZMV/ZMS-V/12	**Course name:** Fundamentals of Methodology and Statistics

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:

Conditions for course completion:
It is awarded on the basis of developing a project and passing a test.

Learning outcomes:
Get to know basic research methods and learn how to apply them when solving research tasks in the field of public health. To acquire basic theoretical knowledge in the field of statistical data processing.

Brief outline of the course:
• Data collection and processing (data sources, types of variables). Logistics of the research project.
• Random selection (population, sample).
• Research methods and tools. Designs of research studies.
• Ethical aspects of research studies.
• Validity of the research study. Errors and misrepresentations.
• Formulation of hypotheses. Verification of hypotheses.
• Descriptive statistical methods. Effect measurement. Univariate statistical methods. Statistical software.
• Interpretation of findings and presentation of scientific outputs.

Recommended literature:
Aschengrau A., Seage GR: Essentials of epidemiology in public health. Jones and Bartleet Publishers 2008
Clauss G, Ebner H. Základy štatistiky. SPN Bratislava 1988
Ferjenčik J.: Úvod do metodologie psychologického výzkumu. Portál, 2000
Zvarova J.: Základy statistiky pro biomedicínske odbory. Karolinum Praha 1998.

Course language:
Slovak, English

Notes:
Teaching takes place in a winter semester in a given academic year if at least 5 students are enrolled.

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: prof. Mgr. Andrea Madarasová Gecková, PhD., Mgr. Peter Kolarčik, PhD., doc. Mgr. Zuzana Dankulincová, PhD., Mgr. Daniela Husárová, PhD., Mgr. Jaroslava Kopčáková, PhD., Mgr. Jana Holubčíková, PhD.

Date of last modification: 03.03.2023

Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: KVL Šaca/VL-V/15	**Course name:** General Medicine

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: 9.

Course level: I.II.

Prerequisities: IK/IP-V/15 and ChK/CHP-V/15

Conditions for course completion:

Learning outcomes:

Brief outline of the course:

Recommended literature:

Course language:

Notes:

Course assessment
Total number of assessed students: 2532

abs	abs-A	abs-B	abs-C	abs-D	abs-E	neabs
56.0	43.76	0.08	0.0	0.0	0.16	0.0

Provides: MUDr. Matej Šajty, PhD., MPH, MUDr. Katarína Šajtyová, PhD., MPH, MUDr. Jana Annová, PhD., MUDr. Michal Fečík, prof. MUDr. PhDr. Peter Kalanin, PhD., MUDr. Beatrica Kováryová, MUDr. Tímea Molek Dánielová, MUDr. Ivana Nickel Bakalárová

Date of last modification: 19.05.2022

Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: KGO/ GE-V/09	**Course name:** Geriatrics

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/PMK-V/22 and IK/IM-V1/16

Conditions for course completion:

Learning outcomes:

Brief outline of the course:

Recommended literature:

Course language:

Notes:

Course assessment
Total number of assessed students: 463

A	B	C	D	E	FX
94.38	5.62	0.0	0.0	0.0	0.0

Provides: prof. MUDr. Štefan Koval, PhD.

Date of last modification: 12.05.2022

Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: KGER/ LFNJV/09	**Course name:** German Language for General 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: 2.

Course level: I.II.

Prerequisities:

Conditions for course completion:
1 written exam, exam. Final grade will be calculated as follows: A 93-100 %, B 86-92%, C 79-85%, D 72-78%, E 65-71%, FX 64 % and less.

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

Brief outline of the course:
The terminology and phraseology of medicine and nursing. Grammar and communication skills: oral expression and listening: communication techniques, tools and methods of communication, methods for solving the conflicts in communication, reading with comprehension - textbook and authentic texts. Medical dictionaries. Signs of German technical texts. Medicine in the media.

Recommended literature:
Atlas der Anatomie. Langenscheidt 2000, Dreyer/Schmitt: Lehr-und Ubungsbuch der deutschen Grammatik. Hueber 2008, Caspar: Medizinische Terminologie. Thieme Verlag 2007, Deutsch im Krankenhaus. Langenscheidt 1994,Kommunikation in sozialen und medizinischen Berufen. Fraus.2003

Course language:
German

Notes:

Course assessment
Total number of assessed students: 215

A	B	C	D	E	FX
48.84	27.44	20.0	2.79	0.93	0.0

Provides: Mgr. Ulrika Strömplová, PhD.

Date of last modification: 12.07.2022

Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: IK/ SKP-VL/16	**Course name:** Good Clinical Practice

Course type, scope and the method:
Course type: Lecture
Recommended course-load (hours):
Per week: Per study period: 20s
Course method: present

Number of ECTS credits: 2

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

Course level: I.II.

Prerequisities:

Conditions for course completion:
I. The following are required for successful completion of the practical seminars:
- 80% participation at lectures
II. The following are required for successful completion of the course and to receive credits:
- Successful completion of the seminars

Learning outcomes:
Acquaintance of students about the possibilities and conditions of medical practice after successful completion of undergraduate studies.

Brief outline of the course:
Basics of communication between doctor and patient, information about development opportunities in surgical fields, in internal medicine fields. Basics of good clinical practice. Information about clinical work in hospitals. Basics of medical law. Information about specialization studies and residential studies. .

Recommended literature:
https://www.ema.europa.eu/en/ich-e6-r2-good-clinical-practice

Course language:
slovak

Notes:
The course Good Clinical Practice1 is provided only in the winter term.

Course assessment
Total number of assessed students: 1290

abs	abs-A	abs-B	abs-C	abs-D	abs-E	neabs
26.98	72.95	0.0	0.0	0.0	0.08	0.0

Provides: prof. MUDr. Želmíra Macejová, PhD., MPH, MUDr. Štefan Sotak, PhD., MPH

Date of last modification: 17.03.2023

Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: G-PK/ GP-SS-V/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/GP-V3/22 and UFR/FA-V2/22

Conditions for course completion:

Learning outcomes:

Brief outline of the course:

Recommended literature:

Course language:

Notes:

Course assessment
Total number of assessed students: 2930

A	B	C	D	E	FX
45.87	20.27	14.61	8.94	9.11	1.19

Provides:

Date of last modification: 17.05.2021

Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: G-PK/ GP-V1/09	**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-V3/22

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:
Slovak language

Notes:

Course assessment
Total number of assessed students: 2902

abs	abs-A	abs-B	abs-C	abs-D	abs-E	neabs
53.82	12.65	14.96	9.34	6.0	3.2	0.03

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

Date of last modification: 23.03.2023

Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: G-PK/ GP-V2/09	**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/GP-V1/09

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:

Notes:

Course assessment
Total number of assessed students: 2842

abs	abs-A	abs-B	abs-C	abs-D	abs-E	neabs
53.03	7.57	12.07	12.95	9.36	4.96	0.07

Provides: prof. MUDr. Alexander Ostró, CSc., MBA, prof. MUDr. Róbert Dankovčík, PhD., MPH, doc. MUDr. Silvia Toporcerová, PhD., MBA, prof. MUDr. Peter Urdzík, PhD., MPH, MUDr. Ján Richnavský, PhD., doc. MUDr. Ján Varga, PhD., MUDr. Rastislav Dudič, PhD., doc. MUDr. Erik Dosedla, PhD., MBA, MUDr. Gabriel Tóth, MUDr. Katarína Balasičová, PhD.,

MUDr. Viera Dudičová, PhD., MUDr. Vladimír Kraus, PhD., MUDr. Barbora Baranovičová, MUDr. Alena Nagyová, MUDr. Dávid Tóth, MUDr. Martina Sitáš, MUDr. Zuzana Ballová, MUDr. Andrea Grendelová, PhD., MUDr. Gabriel Lipčei, MUDr. Lule Tomiq
Date of last modification: 23.03.2023
Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: G-PK/GP-V3/21	**Course name:** Gynaecology and Obstetrics 3

Course type, scope and the method:
Course type: Practice
Recommended course-load (hours):
Per week: Per study period: 160s
Course method: present

Number of ECTS credits: 8

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

Course level: I.II.

Prerequisities: G-PK/GP-V2/09 and G-PK/OPGP-V/16

Conditions for course completion:

Learning outcomes:

Brief outline of the course:

Recommended literature:

Course language:

Notes:

Course assessment
Total number of assessed students: 2581

abs	abs-A	abs-B	abs-C	abs-D	abs-E	neabs
57.42	22.39	8.91	5.66	3.14	2.48	0.0

Provides: MUDr. Katarína Balasičová, PhD., MUDr. Rastislav Dudič, PhD., MUDr. Viera Dudičová, PhD., MUDr. Dušan Frič, PhD., MUDr. Vladimír Kraus, PhD., MUDr. Barbora Baranovičová, MUDr. Igor Lazár, PhD., MUDr. Alena Nagyová, MUDr. Peter Suchánek, PhD., MBA, MUDr. Erika Szabóová, MBA, doc. MUDr. Silvia Toporcerová, PhD., MBA, MUDr. Dávid Tóth, prof. MUDr. Peter Urdzík, PhD., MPH, doc. MUDr. Ján Varga, PhD., doc. MUDr. Erik Dosedla, PhD., MBA, doc. MUDr. Vladimír Kraus, CSc., MUDr. Ján Richnavský, PhD., MUDr. Gabriel Tóth, MUDr. Zuzana Turcsányiová, MUDr. Martina Sitáš, MUDr. Zuzana Ballová, prof. MUDr. Róbert Dankovčík, PhD., MPH

Date of last modification: 17.05.2021

Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Medicine	
Course ID: USBM/ MZS-V/13	**Course name:** Health Care Management

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:

Conditions for course completion:
1. 100 % attendance at seminars. 2. Written elaboration and presentation of the assigned semester work. Successful completion of the final exam Evaluation of semester work

Learning outcomes:
To provide students with main information and knowledge in the field of general management with aim to understand the basic management processes and principles at the organizational level and to acquire basic managerial skills. After completing the course, students will be able to apply the knowledge of general management in the management of health care at various levels.

Brief outline of the course:
Basic managerial functions - planning, organizing, leading and controlling; Organization and environment - external environment, internal environment, SWOT analysis; Managerial roles and skills - communication, preparation and management of business meetings, task delegation, troubleshooting, decision making; Quality standards and quality management in healthcare; Basics of change management.

Recommended literature:
Basic study literature:
ONDRUŠ, P., ONDRUŠOVÁ, I. a kol. Manažment a financovanie v zdravotníctve. PRO Banská Bystrica 2017. ISBN 978-80-972535-9-2, 328 s.
ONDRUŠ, P. Svetové zdravotnícke systémy v čase globalizácie. PRO Banská Bystrica 2014. ISBN 978-80- 89057-47-4, 320 s.
Webstránky:
Ministerstvo zdravotníctva SR, www.health.gov.sk
Národné centrum zdravotníckych informácii, www.nczisk.sk
European Observatory on Health Systems and Policies, https://eurohealthobservatory.who.int/
Public Health Europe - European Commission – EU, https://ec.europa.eu/health/home_en
Further study literature:
KRAVČÁKOVÁ, G. Manažment ľudských zdrojov. UPJŠ v Košiciach, 2014. ISBN 978-80-8152-219-2. Dostupné online: https://www.upjs.sk/public/media/5596/Kravcakova_Manazment_ludskych_zdrojov.pdf

HLAVATÝ, T. a kol. Správa o stave zdravotníctva na Slovensku. MZ SR, Bratislava 2011, 240 s. ISBN 978– 80-969507-9-9.

Course language:

Notes:

Course assessment
Total number of assessed students: 138

A	B	C	D	E	FX
60.87	19.57	18.12	0.0	0.72	0.72

Provides: MUDr. Zuzana Katreniaková, PhD.

Date of last modification: 23.03.2023

Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Medicine	
Course ID: USL/ PZLP-V/16	**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:

Conditions for course completion:
Attendance on lectures and seminars to the specified extent, successful presentation of seminar work.

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). Compensation for the pain and deteriorated social and work capacity. 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. Importance of health damage assessment from the point of view of commercial insurance companies.

Recommended literature:

DUNOVSKÝ, J., DYTRYCH, J., MATĚJČK, Z. Týrané, zneužívané a zanedbávané dítě. Praha: Grada Publishing a. s., 1995.
KOLEKTÍV AUTOROV. Soudní lékařství. Praha: Grada Publishing, a. s.,1999.
ŠTEFAN, J., HLADÍK, J. a kol. Soudní lékařství a jeho moderní trendy. Praha: Grada Publishing a. s., 2012.
PATOČKA, J. Vojenská toxikologie. Praha: Grada Publishing a. s., 2004.
Zákon NR SR č. 437/2004 Z. z. o náhrade za bolesť a o náhrade za sťaženie spoločenského uplatnenia
Zákon č. 300/2005 Z. z. Trestný zákon
Zákon č. 382/2004 Z. z. Zákon o znalcoch, tlmočníkoch a prekladateľoch a o zmene a doplnení niektorých zákonov

Course language:
Slovak

Notes:
Maximum class size is 20 students.

Course assessment
Total number of assessed students: 1

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

Date of last modification: 21.07.2021

Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: UHE/HE-V1/13	**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: 5

Recommended semester/trimester of the course: 2.

Course level: I.II.

Prerequisities:

Conditions for course completion:

Learning outcomes:

Brief outline of the course:

Recommended literature:

Course language:

Notes:

Course assessment
Total number of assessed students: 6056

abs	abs-A	abs-B	abs-C	abs-D	abs-E	neabs
41.53	5.56	9.81	11.61	11.25	14.73	5.52

Provides: prof. MUDr. Eva Mechírová, CSc., doc. MVDr. Iveta Domoráková, PhD., doc. MVDr. Štefan Tóth, PhD., MVDr. Viera Eliášová, MVDr. Zuzana Fagová, PhD., MUDr. Alexandra Kunová, RNDr. Kristína Čurgali, PhD., MVDr. Katarína Hajovská, PhD.

Date of last modification: 08.09.2021

Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Medicine	
Course ID: UHE/ HE-V2/17	**Course name:** Histology and Embryology 2

Course type, scope and the method:
Course type: Lecture / Practice / Controlled study hour
Recommended course-load (hours):
Per week: 2 / 4 / 1 **Per study period:** 28 / 56 / 14
Course method: present

Number of ECTS credits: 7

Recommended semester/trimester of the course: 3.

Course level: I.II.

Prerequisities: UHE/HE-V1/22

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. Final slide test (three 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) cytology and tissues
b) microscopic anatomy
c) embryology
Teaching is by presence and by distance.
https://www.upjs.sk/en/faculty-of-medicine/department/histology-and-embryology/teaching/courses/dr/

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/en/faculty-of-medicine/department/histology-and-embryology/teaching/courses/dr/

Recommended literature:
Mechírová E. a kol.: Cytológia a všeobecná histológia, elektronická učebnica, 2010, https://portal.lf.upjs.sk

Pomfy M. a kol.: Mikroskopická anatómia, elektronická učebnica, 2009, https://portal.lf.upjs.sk
Domoráková I. a kol.: Vybrané kapitoly z histológie pre odbor zubného lekárstva - Učebnica a mikroskopický atlas, 2019, https://portal.lf.upjs.sk
Mechírová E. a kol.: Histológia, Aprila s.r.o., 2008
Mechírová E. a Domoráková I.: *Praktikum z histológie: (Pracovný protokol aktuálne vydanie), 2020
Kapeller K. a Pospíšilová V.: Embryológia človeka, Osveta, 2001
Vajner L. a kol.: Lékařská histologie II. - Mikroskopická anatomie, Karolinum, 2019
https://www.upjs.sk/public/media/10010/SJ_HE2_Povinna_liter%20VL.pdf

Course language:
Slovak

Notes:

Course assessment
Total number of assessed students: 3863

A	B	C	D	E	FX
12.76	12.48	18.9	17.58	18.59	19.7

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

Date of last modification: 08.03.2023

Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: ULI/ NIS-V/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: 5.

Course level: I.II.

Prerequisities: ULI/LI-V/22

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:
Slovak

Notes:

Course assessment
Total number of assessed students: 171

A	B	C	D	E	FX
88.89	11.11	0.0	0.0	0.0	0.0

Provides: doc. Ing. Jaroslav Majerník, PhD.

Date of last modification: 25.03.2023

Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Medicine	
Course ID: UVZH/ H-V/18	**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: 7.

Course level: I.II.

Prerequisities: UFZ/FZ-V2/14

Conditions for course completion:
Preparation and presentation of seminar work for seminars

Learning outcomes:
The student will gain knowledge about the laws of the living and working environment, about the impact of individual lifestyle factors on health and about promoting the health of the population through prevention.

Brief outline of the course:
Primary prevention in population health care. Primary, secondary and tertiary prevention of chronic non-infectious diseases (cardiovascular, tumor, mental, metabolic, injuries, chronic respiratory, other). State health supervision, its meaning, structure of the hygiene service. Principles of assessment of health risks in the living and working environment. The influence of environmental factors on health. Environmental hygiene, air, contaminants, impact on health. Water and its impact on health. Basic components of nutrition, their importance and daily intake, rational nutrition. Food hygiene, principles of food control, foreign substances in food. Occupational hygiene, health protection at the workplace, distribution and influence of factors of the working environment on health (physical, chemical, biological, ergonomic, specific, non-specific, risky work). Impact of ionizing and non-ionizing radiation on health, population protection. Hygiene of medical facilities. Hygienic issues of housing and urbanization. Hygiene of children and youth. Growth and development of children, their health determinants depending on ŽP. Practical and theoretical principles in the field of planning, creation, implementation of population studies and monitoring of health determinants.

Recommended literature:
1. Ševčíková, Ľ. a kol. Hygiena. Bratislava: UK, 2006.328 s. ISBN 80-223-2103-6.
2. Holéczyová, G., Čipáková, A., Dietzová, Z. Hygiena životného prostredia. Košice, 2011, 202s. ISBN 978-80-7097-892-4.
3. Rimárová K.: Vybrané kapitoly z hygieny - environmentálnej medicíny. Košice, Elfa 2008. 251 s. ISBN 9788080860905.
4. Diabelková, J. Stručný online prehľad základných pojmov a skratiek v Hygiene a vo Verejnom zdravotníctve: [elektronický zdroj]. Vysokoškolský učebný text. 1. vyd. Košice: Univerzita Pavla

Jozefa Šafárika v Košiciach, 2020. 172 s. Dostupné na: https://unibook.upjs.sk/img/cms/2020/lf/strucny-online-prehlad-skratiek.pdf. ISBN 9788081529436.

Course language:
English

Notes:
the subject is taught only in the winter semester

Course assessment
Total number of assessed students: 3006

A	B	C	D	E	FX
5.36	30.44	37.19	20.86	5.95	0.2

Provides: prof. MUDr. Kvetoslava Rimárová, CSc., prof. MVDr. Tatiana Kimáková, PhD., Mgr. Andrea Houžvičková, PhD., Mgr. Jana Diabelková, PhD., prof. Mgr. MUDr. Erik Dorko, PhD., MPH, MBA, Mgr. Erik Drabiščák, PhD., Mgr. Nikola Pelechová, Mgr. Lívia Kaňuková, Mgr. Nika Konrádyová, PhD.

Date of last modification: 23.03.2023

Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: KRZM/ ZMLS-V/09	**Course name:** Imaging Possibility of Lymphatic System

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:

Conditions for course completion:
Completion of lectures, consultation before the exam, written test at the exam, including the completion of a precise number of image descriptions to determine the diff. dg. of the lymphatic system by all available imaging methods.

Learning outcomes:
The lymphatic system is extremely variable, difficult to assess, and related to every organ. Its visualization is problematic. Therefore, different imaging methods will have to be used and compared. As a result of the training, students will be more aware of this very complex system, anatomically, physiologically and pathologically, which will be achieved in part by imaging methods such as lymphoscintigraphy, computed tomography and ultrasonography and, in some cases, by classical lymphography and magnetic resonance imaging. Of course, where possible, the results can also be compared with histological findings, thus achieving a more accurate result.

Brief outline of the course:
Anatomy and pathological anatomy N
Physiology and pathophysiology LS
Histological changes of the LS in individual diagnoses
LS within internal medicine.
LS within surgical disciplines (surgery, urology, plastic surgery)
Secondary changes (post-traumatic) LS
Congenital (primary) changes of the LS and its anomalies.
Methods of pre- and post-operative treatment of LS and physiotherapy
Lymphatic drainage (or lymphomassage) in postoperative -mostly oncological conditions.

Recommended literature:
Lešník,F., Danko, J.: Medicínska lymfológia.(kapitola Jurgova,T.: kap.9 str. 327 - 334
Sehr, J., Bruna J.: Počítačová tomografie
Benda, K.: Lymfedém
Běchyňe, M., Běchyňova, R.: Mízní odtok - lymphedém

Course language:
slovak

Notes:

Course assessment
Total number of assessed students: 1

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: doc. MUDr. Tatiana Jurgová, CSc., Mgr. MUDr. Tatiana Taševa, MUDr. Peter Mach, CSc.

Date of last modification: 23.03.2023

Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: KICM/ IL-V/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: 10.

Course level: I.II.

Prerequisities: IK/IM-V3/22

Conditions for course completion:
CP - Conditions for passing the subject:
Mandatory 90% participation in practical exercises, theoretical and methodical mastery of practical tasks. For serious reasons - after documentation - a maximum of 1 exercise can be excused.
Teaching: Lectures will take place according to the schedule. Practical teaching at the clinic. For each topic, in addition to the theoretical background, emphasis will be placed on the presentation of case reports of real or model patients. Consultation hours on the topics of the day will be offered to students by phone, chat or e-mail after an appointment. Individual teachers will be available on their work phone numbers or e-mail addresses, which will be announced to students. Evaluation of acquired knowledge: At the end of each block, students write a final test consisting of 10 questions, to be admitted to the oral exam, a minimum of 70% of points must be obtained. After successfully completing the test, an oral exam will follow. The final evaluation takes into account the results of the written and final oral exam.

Learning outcomes:
ER - Education results :
Epidemiological aspects and basics of diagnosis and prevention of infectious diseases, basic principles of anti-infective treatment, current problems of 21st century infectology.

Brief outline of the course:
CC - Course contents:
Lecture topics: Introduction to infectology. Principles of antibiotic treatment. Nosocomial infections. Respiratory infections. COVID-19. Viral hepatitis. Differential diagnosis of exanthems. Neuroinfections. Lyme disease. HIV infection. Schedule of seminars Monday: Nature of infectious diseases. Operation of infectious disease departments, isolation, reporting of infectious diseases. Principles of laboratory diagnostics. Care of a patient with a highly contagious disease, Bioterrorism. Principles of antibiotic treatment. Tuesday: Respiratory infections. COVID-19. Sepsis. Wednesday: Acute and chronic viral hepatitis. Prophylactic measures after an animal bite, prevention of rabies. Thursday Neuroinfections. Lyme disease. Infections in pregnancy. Differential diagnosis of febrile conditions, fever of unknown origin. Friday: HIV infection. Nosocomial infections. Monday: Active and passive immunization. Soft tissue infections. Tuesday 1. Infections of the gastrointestinal tract. Parasitic infections-an overview. The most common zoonoses.

Recommended literature:

L - Recommended literature:

BÁLINT O. a kol.: Infektológia a antiinfekčná terapia. 2. vydanie. Osveta 2007, Martin. 587 s. ISBN: 8080632227. – dostupné v knižnici LF

ROZSYPAL, Hanuš. Základy infekčního lékařství. 1. vydání. Praha : Karolinum, 2015. 566 s. ISBN 978-80-246-2932-2. – elektronická verzia dostupná v knižnici LF, cez ProQuest Ebook Central. https://ebookcentral.proquest.com/auth/lib/upjs-ebooks/login.action?returnURL=https%3A%2F%2Febookcentral.proquest.com%2Flib%2Fupjs-ebooks%2Fdetail.action%3FdocID%3D4395911%26query%3D

Beneš Jiří a kol., Infekční lékařství.Vydavateľstvo: Galén, Praha, 2009 https://www.upjs.sk/public/media/22885/Navod.pdf

Course language:

PJ - Language, the knowledge of which is necessary to pass the subject:
slovak

Notes:

Course assessment

Total number of assessed students: 2900

A	B	C	D	E	FX
55.69	21.31	13.0	6.03	3.83	0.14

Provides: prof. MUDr. Ivan Schréter, CSc., prof. MUDr. Pavol Jarčuška, PhD., doc. MUDr. Pavol Kristian, PhD., univerzitný profesor, doc. MUDr. Zuzana Paraličová, PhD., MUDr. Martin Novotný, PhD., MUDr. Ivana Hockicková, PhD., MUDr. Patrícia Denisa Lenártová, MUDr. Štefan Porubčin, PhD.

Date of last modification: 20.03.2023

Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Medicine	
Course ID: ULI/ ISM-V/17	**Course name:** Information systems in 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: 3.

Course level: I.II.

Prerequisities: ULI/LI-V/22

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

Learning outcomes:
Gain an overview of the development of ambulatory information systems (AIS) and hospital information systems (NIS) as a result of the development of information technologies. Master the principles of security and data protection in information systems. Understand the concept of electronic signature and understand its use in maintaining medical records. Master the basics of mathematical and statistical data processing and the use of IS data in the management of medical facilities and scientific research.

Brief outline of the course:
Characteristics of information systems (IS) in the field of health care. Security and data protection in information systems. Basics of cryptology. Encryption and decryption. The importance of encryption in the processing of personal data in IS. Electronic signature - explanation of the concept using knowledge from cryptology. Legal aspects related to the use of electronic signature. The use of electronic signatures when maintaining medical records. Medical documentation. Forms of keeping health documentation. Providing and making available data from health records. The use of IS data in the management of medical facilities and scientific research. Basics of mathematical and statistical processing of medical data and their use in medical diagnostics. Introduction to telemedicine. Practical examples of video conference transmissions.

Recommended literature:
1. Personal Data Protection Act.
2. Health Care Act.
3. Internet information resources.

Course language:
Slovak

Notes:

Course assessment
Total number of assessed students: 64

A	B	C	D	E	FX
60.94	31.25	7.81	0.0	0.0	0.0

Provides: doc. Ing. Jaroslav Majerník, PhD.

Date of last modification: 25.03.2023

Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Medicine	
Course ID: IK/IM-SS-V/18	**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-V6/21 and IK/OPIM-V/16 and KVL Šaca/OPVL-V/15 and UFR/FA-V2/17 and KICM/IL-V/19 and 1. KAIM/AIM-V/20 and ULCHBKB/KB-V/20 and 1. PK/PT-V2/18	
Conditions for course completion:	
Learning outcomes:	
Brief outline of the course:	
Recommended literature:	
Course language:	
Notes:	

Course assessment
Total number of assessed students: 2690

A	B	C	D	E	FX
19.0	21.38	24.83	19.33	14.72	0.74

Provides:
Date of last modification: 04.08.2021
Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: IK/IP-V/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: UFZ/FZ-V1/22 and UA/A-V2/14 or UA/A-GM2/22

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:

Lazúrová I., Valočiková I. a kol. : Interná propedeutika, Vydavateľstvo OSVETA 2014 (1. vydanie), OSVETA 2022 (2. vydanie)
Valočiková I., Jochmanová I. a kol. Vyšetrovacie metódy v internej medicíne. Vydavateľstvo ŠafarikPress 2021
Hrušovský a kol. : Internistická propedeutika, HERBA 2012
Chrobák L., a kol.: Propedeutika vnitřního lékařství. Grada Avicenum 1997

Course language:
slovak

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

Course assessment
Total number of assessed students: 3170

A	B	C	D	E	FX
31.23	29.4	19.05	10.82	8.23	1.26

Provides: prof. MUDr. Želmíra Macejová, PhD., MPH, prof. MUDr. Ivan Tkáč, PhD., prof. MUDr. Ružena Tkáčová, DrSc., prof. MUDr. Jozef Pella, PhD., prof. MUDr. Peter Mitro, PhD., prof. MUDr. Gabriel Valočik, PhD., prof. MUDr. Daniel Pella, PhD., prof. MUDr. Ivica Lazúrová, DrSc., doc. MUDr. Eva Szabóová, PhD., doc. MUDr. Jozef Gonsorčík, CSc., prof. MUDr. Ľubomír Legáth, PhD., doc. MUDr. Ivana Valočiková, PhD., prof. MUDr. Peter Jarčuška, PhD., MUDr. Martin Javorský, PhD., doc. MUDr. Miriam Kozárová, PhD., MPH, MUDr. Alojz Rajnič, PhD., doc. MUDr. Mária Rašiová, PhD., doc. MUDr. Ingrid Dravecká, PhD., prof. MUDr. Štefan Koval, PhD., doc. MUDr. Viola Vargová, PhD., doc. MUDr. Ján Fedačko, PhD., doc. MUDr. Martin Janičko, PhD., doc. MUDr. Zbynek Schroner, PhD., doc. MUDr. Slavomír Perečinský, PhD., MUDr. Ľudmila Farkašová, PhD., doc. MUDr. Pavol Joppa, PhD., MUDr. Eduard Veseliny, PhD., univerzitný docent, MUDr. Marek Varga, PhD., MUDr. Ivana Gotthardová, PhD., MUDr. Zuzana Kozelová, PhD., MUDr. Lucia Štovková, PhD., MUDr. Lucia Tomková, PhD., MUDr. Lucia Vaszilyová, PhD., MUDr. Pavol Pobeha, PhD., MUDr. Simona Ujházi, PhD., MUDr. Katarína Tokarčíková, PhD., MUDr. Ľubomír Špak, MPH, MUDr. Monika Jankajová, PhD., MPH, MUDr. Stanislav Juhás, CSc., doc. MUDr. Silvia Mišíková, PhD., MPH, doc. MUDr. Branislav Stančák, CSc., MUDr. Eduard Čurilla, PhD., MUDr. Pavol Murín, PhD., MUDr. Peter Gášpár, MUDr. Anna Ürgeová, PhD., MUDr. Laura Gombošová, PhD., MUDr. Zora Lazúrová, PhD., MUDr. Alena Yaluri, PhD., MUDr. Ivana Paraničová, PhD., MUDr. Mgr. Ivana Jochmanová, PhD., MUDr. Sylvia Dražilová, PhD., univerzitný docent

Date of last modification: 15.03.2023

Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: IK/IM-V1/16	**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/FZ-V2/14 and IK/IP-V/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:
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.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.Cardiomyopathy.
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:
Kiňová S, Hulín I a kol. : Interná medicína, ProLitera 2013
Klener P.: Vnitřní lékařství, GALÉN 2012
Češka R a kol : Interna 3. vydanie, 3 zväzky, TRITON 2020
Mitro P., Valočik G : Vyšetrovacie metódy v kardiológii, EQUILIBRIA 2009
Sninčák : Artériová hypertenzia v staršom veku

Joppa P. a kol.: Vybrané kapitoly z pneumológie a ftizeologie https://unibook.upjs.sk/sk/lekarska-fakulta/970-vybrane-kapitoly-z-pneumologie-a-ftizeologie
Mitro, P.: Základy elektrokardiografie,UPJŠ 2003

Course language:
slovak

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

Course assessment
Total number of assessed students: 3083

abs	abs-A	abs-B	abs-C	abs-D	abs-E	neabs
50.76	37.98	6.16	3.28	0.58	1.23	0.0

Provides: prof. MUDr. Ružena Tkáčová, DrSc., prof. MUDr. Ivica Lazúrová, DrSc., prof. MUDr. Daniel Pella, PhD., prof. MUDr. Gabriel Valočik, PhD., prof. MUDr. Peter Mitro, PhD., doc. MUDr. Branislav Stančák, CSc., doc. MUDr. Jozef Gonsorčík, CSc., prof. MUDr. Štefan Koval, PhD., prof. MUDr. Ivan Tkáč, PhD., prof. MUDr. Jozef Pella, PhD., prof. MUDr. Ľubomír Legáth, PhD., prof. MUDr. Peter Jarčuška, PhD., doc. MUDr. Eva Szabóová, PhD., MUDr. Pavol Pobeha, PhD., doc. MUDr. Pavol Joppa, PhD., MUDr. Alojz Rajnič, PhD., MUDr. Martin Javorský, PhD., doc. MUDr. Ingrid Dravecká, PhD., doc. MUDr. Zbynek Schroner, PhD., MUDr. Ľudmila Farkašová, PhD., MUDr. Eduard Veseliny, PhD., univerzitný docent, doc. MUDr. Miriam Kozárová, PhD., MPH, MUDr. Marek Varga, PhD., MUDr. Ivana Paraničová, PhD., MUDr. Ľudmila Juhásová, MUDr. Ivana Gotthardová, PhD., MUDr. Zuzana Kozelová, PhD., doc. MUDr. Mária Rašiová, PhD., MUDr. Katarína Tokarčíková, PhD., MUDr. Lucia Tomková, PhD., MUDr. Štefan Sotak, PhD., MPH, doc. MUDr. Štefan Tóth, PhD., MBA, MUDr. Monika Jankajová, PhD., MPH, doc. MUDr. Silvia Mišíková, PhD., MPH, MUDr. Alexander Bohó, PhD., MUDr. Eduard Čurilla, PhD., MUDr. Miloš Šimurda, PhD., MUDr. Stanislav Juhás, CSc., MUDr. Lucia Dekanová, PhD., MUDr. Andrea Kirschová, MUDr. Dominik Pella, PhD., doc. MUDr. Ján Fedačko, PhD., MUDr. Peter Gášpár, MUDr. Mikuláš Huňavý, PhD., MUDr. Alžbeta Kollárová, MUDr. Pavol Murín, PhD., Bc. MUDr. Marek Hudák, PhD., MUDr. Laura Gombošová, PhD., MUDr. Anna Ürgeová, PhD., MUDr. Mgr. Ivana Jochmanová, PhD., MUDr. Zora Lazúrová, PhD., MUDr. Alena Yaluri, PhD., MUDr. Peter Olexa, PhD.

Date of last modification: 14.03.2023

Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: IK/IM-V2/19	**Course name:** Internal Medicine 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: 5

Recommended semester/trimester of the course: 7.

Course level: I.II.

Prerequisities: IK/IM-V1/16

Conditions for course completion:

Learning outcomes:

Brief outline of the course:

Recommended literature:

Course language:

Notes:

Course assessment
Total number of assessed students: 2780

abs	abs-A	abs-B	abs-C	abs-D	abs-E	neabs
56.94	19.24	11.87	6.19	3.02	2.7	0.04

Provides: prof. MUDr. Ivan Tkáč, PhD., prof. MUDr. Ivica Lazúrová, DrSc., doc. MUDr. Eva Szabóová, PhD., doc. MUDr. Ivana Valočiková, PhD., prof. MUDr. Peter Mitro, PhD., prof. MUDr. Ružena Tkáčová, DrSc., prof. MUDr. Jozef Pella, PhD., prof. MUDr. Štefan Koval, PhD., prof. MUDr. Gabriel Valočik, PhD., prof. MUDr. Ľubomír Legáth, PhD., prof. MUDr. Peter Jarčuška, PhD., doc. MUDr. Jozef Gonsorčík, CSc., doc. MUDr. Zbynek Schroner, PhD., doc. MUDr. Miriam Kozárová, PhD., MPH, MUDr. Ľudmila Farkašová, PhD., MUDr. Alojz Rajnič, PhD., doc. MUDr. Ingrid Dravecká, PhD., doc. MUDr. Pavol Joppa, PhD., MUDr. Martin Javorský, PhD., MUDr. Marek Varga, PhD., MUDr. Eduard Veseliny, PhD., univerzitný docent, MUDr. Zuzana Kuklišová, PhD., MUDr. Stanislava Buday Bujňáková, PhD., MUDr. Ľudmila Juhásová, MUDr. Natália Vaňová, PhD., EMBA, MUDr. Zuzana Lörinczová, MUDr. Jana Doničová, MUDr. Lucia Tomková, PhD., MUDr. Ivana Gotthardová, PhD., MUDr. Zuzana Kozelová, PhD., doc. MUDr. Mária Rašiová, PhD., MUDr. Katarína Tokarčíková, PhD., MUDr. Ivana Trojová, PhD., MUDr. Anna Ürgeová, PhD., MUDr. Martin Ihnatko, MUDr. Jakub Gazda, PhD., MUDr. Laura Gombošová, PhD., MUDr. Mgr. Ivana Jochmanová, PhD., Ing. Daniela Filipová, MUDr. Martin Vrško, MUDr. Lenka Filipová, PhD., MUDr. Zora Lazúrová, PhD., MUDr. Michal Králik, MUDr. Pavol Fülöp, MUDr. Alena Yaluri, PhD., MUDr. Jana Figurová,

PhD., MUDr. Marek Felšőci, PhD., MUDr. Emil Fraenkel, PhD., MUDr. Sylvia Dražilová, PhD., univerzitný docent
Date of last modification: 03.08.2021
Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: IK/IM-V3/17	**Course name:** Internal Medicine 3

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: 8.

Course level: I.II.

Prerequisities: IK/IM-V2/19

Conditions for course completion:

Learning outcomes:

Brief outline of the course:

Recommended literature:

Course language:

Notes:

Course assessment
Total number of assessed students: 2766

abs	abs-A	abs-B	abs-C	abs-D	abs-E	neabs
56.98	24.22	11.97	4.16	1.84	0.83	0.0

Provides: doc. MUDr. Marian Sninčák, PhD., prof. MUDr. Ivica Lazúrová, DrSc., doc. MUDr. Eva Szabóová, PhD., prof. MUDr. Peter Jarčuška, PhD., doc. MUDr. Ivana Valočiková, PhD., MUDr. Eduard Veseliny, PhD., univerzitný docent, MUDr. Stanislava Buday Bujňáková, PhD., prof. MUDr. Daniel Pella, PhD., prof. MUDr. Ivan Tkáč, PhD., prof. MUDr. Štefan Koval, PhD., prof. MUDr. Gabriel Valočik, PhD., prof. MUDr. Ružena Tkáčová, DrSc., prof. MUDr. Jozef Pella, PhD., prof. MUDr. Peter Mitro, PhD., doc. MUDr. Jozef Gonsorčík, CSc., doc. MUDr. Ján Fedačko, PhD., doc. MUDr. Zbynek Schroner, PhD., doc. MUDr. Martin Janičko, PhD., MUDr. Martin Javorský, PhD., MUDr. Marek Varga, PhD., doc. MUDr. Pavol Joppa, PhD., doc. MUDr. Miriam Kozárová, PhD., MPH, MUDr. Alojz Rajnič, PhD., MUDr. Lucia Štovková, PhD., MUDr. Lucia Tomková, PhD., MUDr. Ivana Gotthardová, PhD., doc. MUDr. Mária Rašiová, PhD., MUDr. Natália Vaňová, PhD., EMBA, MUDr. Peter Kužma, MUDr. Zuzana Lörinczová, MUDr. Ľudmila Juhásová, MUDr. Jana Doničová, MUDr. Anna Ürgeová, PhD., MUDr. Katarína Tokarčíková, PhD., MUDr. Zuzana Kozelová, PhD., MUDr. Martin Ihnatko, MUDr. Martin Vrško, MUDr. Emil Fraenkel, PhD., MUDr. Zora Lazúrová, PhD., MUDr. Jana Figurová, PhD., MUDr. Alena Yaluri, PhD., MUDr. Pavol Pobeha, PhD., MUDr. Jana Deptová, PhD., MUDr. Marek Felšőci, PhD., MUDr. Laura Gombošová, PhD., MUDr. Sylvia Dražilová, PhD., univerzitný docent

Date of last modification: 04.08.2021

Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: IK/IM-V4/19	**Course name:** Internal Medicine 4

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-V3/17 and ULCHBKB/LBC-V2/20

Conditions for course completion:

Learning outcomes:

Brief outline of the course:

Recommended literature:

Course language:

Notes:

Course assessment
Total number of assessed students: 729

A	B	C	D	E	FX
51.17	28.94	13.03	4.66	2.19	0.0

Provides: prof. MUDr. Želmíra Macejová, PhD., MPH, doc. MUDr. Marian Sninčák, PhD., prof. MUDr. Ivica Lazúrová, DrSc., prof. MUDr. Ľubomír Legáth, PhD., doc. MUDr. Ivana Valočiková, PhD., prof. MUDr. Ivan Tkáč, PhD., doc. MUDr. Mária Rašiová, PhD., doc. MUDr. Miriam Kozárová, PhD., MPH, MUDr. Martin Javorský, PhD., MUDr. Alojz Rajnič, PhD., MUDr. Zuzana Kozelová, PhD., MUDr. Ivana Gotthardová, PhD., MUDr. Peter Olexa, PhD., MUDr. Anna Ürgeová, PhD., MUDr. Katarína Tokarčíková, PhD., doc. MUDr. Martin Janičko, PhD., MUDr. Zora Lazúrová, PhD., MUDr. Alena Yaluri, PhD., MUDr. Mundher Abdulkareem Salman Aljubouri, MUDr. Anna Dobrovičová, PhD., MUDr. Mgr. Ivana Jochmanová, PhD.

Date of last modification: 04.08.2021

Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: IK/IM-V5/21	**Course name:** Internal Medicine 5

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: IK/IM-V4/19

Conditions for course completion:

Learning outcomes:

Brief outline of the course:

Recommended literature:

Course language:

Notes:

Course assessment
Total number of assessed students: 2523

A	B	C	D	E	FX
28.54	38.13	19.94	7.85	5.23	0.32

Provides: doc. MUDr. Marian Sninčák, PhD., prof. MUDr. Daniel Pella, PhD., prof. MUDr. Ivica Lazúrová, DrSc., prof. MUDr. Ľubomír Legáth, PhD., MUDr. Marek Varga, PhD., prof. MUDr. Jozef Pella, PhD., doc. MUDr. Slavomír Perečinský, PhD., MUDr. Peter Olexa, PhD.

Date of last modification: 17.05.2021

Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: IK/IM-V6/21	**Course name:** Internal Medicine 6

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

Number of ECTS credits: 13

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

Course level: I.II.

Prerequisities: IK/IM-V5/21 and NLK/NL-V2/14

Conditions for course completion:

Learning outcomes:

Brief outline of the course:

Recommended literature:

Course language:

Notes:

Course assessment
Total number of assessed students: 2475

abs	abs-A	abs-B	abs-C	abs-D	abs-E	neabs
55.56	26.87	12.2	4.65	0.61	0.12	0.0

Provides: prof. MUDr. Ivica Lazúrová, DrSc., prof. MUDr. Peter Jarčuška, PhD., MUDr. Alojz Rajnič, PhD., MUDr. Ivan Majerčák, MPH, doc. MUDr. Ingrid Dravecká, PhD., doc. MUDr. Marian Sninčák, PhD., prof. MUDr. Daniel Pella, PhD., prof. MUDr. Ružena Tkáčová, DrSc., prof. MUDr. Gabriel Valočik, PhD., prof. MUDr. Peter Mitro, PhD., prof. MUDr. Jozef Pella, PhD., prof. MUDr. Štefan Koval, PhD., prof. MUDr. Ivan Tkáč, PhD., doc. MUDr. Ivana Valočiková, PhD., doc. MUDr. Jozef Gonsorčík, CSc., prof. MUDr. Ľubomír Legáth, PhD., doc. MUDr. Eva Szabóová, PhD., doc. MUDr. Ján Fedačko, PhD., doc. MUDr. Martin Janičko, PhD., doc. MUDr. Zbynek Schroner, PhD., MUDr. Marek Varga, PhD., doc. MUDr. Pavol Joppa, PhD., MUDr. Eduard Veseliny, PhD., univerzitný docent, MUDr. Martin Javorský, PhD., doc. MUDr. Miriam Kozárová, PhD., MPH, MUDr. Pavol Pobeha, PhD., doc. MUDr. Viola Vargová, PhD., MUDr. Ivana Gotthardová, PhD., doc. MUDr. Mária Rašiová, PhD., MUDr. Ľubomír Špak, MPH, MUDr. Monika Jankajová, PhD., MPH, MUDr. Stanislav Juhás, CSc., doc. MUDr. Silvia Mišíková, PhD., MPH, doc. MUDr. Branislav Stančák, CSc., doc. MUDr. Slavomír Perečinský, PhD., MUDr. Lucia Tomková, PhD., MUDr. Štefan Sotak, PhD., MPH, prof. MUDr. PhDr. Peter Kalanin, PhD., MUDr. Pavol Murín, PhD., MUDr. Anna Ürgeová, PhD., MUDr. Katarína Tokarčíková, PhD., MUDr. Zuzana Kozelová, PhD., MUDr. Laura Gombošová, PhD., MUDr. Zora Lazúrová, PhD.,

MUDr. Alena Yaluri, PhD., MUDr. Ivana Paraničová, PhD., MUDr. Sylvia Dražilová, PhD., univerzitný docent
Date of last modification: 01.04.2022
Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: ULCHBKB/LDKP-V/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.

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:
Analytical methods (eg spectral, electrochemical, chromatographic, immunochemical, enzyme analysis, biosensors). Choice of analytical method (eg based on biological variability, clinical success). Laboratory technology (eg automation, laboratory information system). Therapeutic monitoring of drug levels, basics of toxicology, basic methods of molecular biology. More details: https://www.upjs.sk/lekarska-fakulta/en/department/medical-and-clinical-biochemistry/education/subjects/general-medicine/

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: 25

abs	abs-A	abs-B	abs-C	abs-D	abs-E	neabs
64.0	8.0	16.0	12.0	0.0	0.0	0.0

Provides: doc. RNDr. Miroslava Rabajdová, PhD., doc. Ing. Katarína Dubayová, PhD., prof. Ing. Mária Mareková, CSc.

Date of last modification: 17.02.2023

Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: ULCHBKB/LBC-V1/20	**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/LCH-V/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:

Notes:

Course assessment
Total number of assessed students: 3379

abs	abs-A	abs-B	abs-C	abs-D	abs-E	neabs
49.3	2.4	5.77	11.9	11.84	17.9	0.89

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

Date of last modification: 17.02.2023

Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: ULCHBKB/LBC-V2/20	**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/LBC-V1/20

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: 3513

A	B	C	D	E	FX
5.69	9.17	17.31	22.52	30.77	14.55

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

Date of last modification: 17.02.2023

Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: ULBF/ LBF-V/18	**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: 7

Recommended semester/trimester of the course: 1.

Course level: I.II.

Prerequisities:

Conditions for course completion:

Learning outcomes:

Brief outline of the course:

Recommended literature:

Course language:

Notes:

Course assessment
Total number of assessed students: 3552

A	B	C	D	E	FX
12.36	13.34	20.52	18.33	22.58	12.87

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

Date of last modification: 11.05.2022

Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: ULCHBKB/LCH-V/18	**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: 4

Recommended semester/trimester of the course: 1.

Course level: I.II.

Prerequisities:

Conditions for course completion:

Learning outcomes:

Brief outline of the course:

Recommended literature:

Course language:

Notes:

Course assessment
Total number of assessed students: 2278

A	B	C	D	E	FX
4.21	7.51	18.48	26.95	35.6	7.24

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

Date of last modification: 17.09.2021

Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: CJP/ LFMKAV/09	**Course name:** Medical Communication in English for General Medicine

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., 5.

Course level: I.II.

Prerequisities:

Conditions for course completion:
A 93-100 %, B 85-92 %, C 77-84 %, D 69-76 %, E 60-68 %, FX 59% and less.

Learning outcomes:
Development of General Medicine students´language skills, improvement of students ´communicative linguistic competencies (Medical English, pronunciation, vocabulary, medical and non-medical words, doctor-patient communication, case presentation, etc.), B2 level of lanugage competence (according to CEFR.)

Brief outline of the course:
Medical examination
Case history
Medical treatment
Doctor - patient communication
Hospital round
Case presentation

Recommended literature:
Glendinning, E. H.- Howard, R.: Professional English in Use – Medicine, CUP, 2007
McCullagh, M., Wright, R.: Good Practice. CUP, 2008
Glendinning, E. H.- Howard, R.: English in Medicine, CUP, 1998
www.bbclearningenglish.com
www.bbc.co.uk/health
online slovníky
https://www.oxfordreference.com/view/10.1093/acref/9780199557141.001.0001/acref-9780199557141
https://www.online-medical-dictionary.org/
https://medical-dictionary.thefreedictionary.com/
https://www.merriam-webster.com/medical

Course language:
English, B1, B2 level

Notes:

Course assessment
Total number of assessed students: 563

A	B	C	D	E	FX
84.37	10.83	3.37	1.07	0.36	0.0

Provides: PhDr. Helena Petruňová, CSc.

Date of last modification: 11.03.2022

Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: KGER/ LFMKNV/09	**Course name:** Medical Communication in German for General Medicine

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., 5.

Course level: I.II.

Prerequisities:

Conditions for course completion:
Active participation in class and completed homework assignments. Students are allowed to miss 2 classes at the most (2x90 min.). 2 control tests during the semester, written assignments and academic presentation (PPP). Final grade will be calculated as follows: A 93-100 %, B 86-92%, C 79-85%, D 72-78%, E 65-71%, FX 64 % and less.

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

Brief outline of the course:
The terminology and phraseology of medicine and nursing. Grammar and communication skills: communication techniques, tools and methods, methods for solving the conflicts in communication, textbook and authentic texts on medical issues.

Recommended literature:
Deutsch im Krankenhaus. Langenscheidt., 1994, Kommunikation in sozialen und medizinischen Berufen, Fraus, 2003, Györffy, M./ Bagossy, B./ Bagossy, R.: Deutsch für Mediziner, Schenk Verlag,

Course language:
german

Notes:

Course assessment
Total number of assessed students: 88

A	B	C	D	E	FX
65.91	27.27	6.82	0.0	0.0	0.0

Provides: Mgr. Ulrika Strömplová, PhD.

Date of last modification: 12.07.2022

Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Medicine	
Course ID: UVZH/ ME-V/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: 5.

Course level: I.II.

Prerequisities: ULBL/BL-V1/09

Conditions for course completion:
Preparation and presentation of seminar work for seminars, written exam test minimum 60%

Learning outcomes:
The student will gain knowledge about the relationship between man and the environment, about mutual interactions and the consequences of human activity on the quality of the environment. He knows the possibilities of solving the condition and preventing damage to 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. Ševčíková, Ľ. a kol. Hygiena. Bratislava: UK, 2006.328 s. ISBN 80-223-2103-6.
2. Holéczyová, G., Čipáková, A., Dietzová, Z. Hygiena životného prostredia. Košice, 2011, 202s. ISBN 978-80-7097-892-4.
3. Rimárová K.: Vybrané kapitoly z hygieny - environmentálnej medicíny. Košice, Elfa 2008. 251 s. ISBN 9788080860905.

Course language:
Slovak

Notes:
the subject is only offered in the summer semester if at least 15 students and no more than 30 students enroll in it

Course assessment
Total number of assessed students: 333

A	B	C	D	E	FX
47.75	31.53	14.11	4.2	2.4	0.0

Provides: prof. MUDr. Kvetoslava Rimárová, CSc., Mgr. Jana Diabelková, PhD.

Date of last modification: 27.03.2023

Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Medicine	
Course ID: USL/ LE-V/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: 1.

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.

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:

LONGAUER, F., PALAŠČÁK, J. a kol. Vybrané kapitoly pre semináre z lekárskej etiky. Košice: UPJŠ v Košiciach, 2003.
FARKAŠOVÁ IANNACCONE, S. a kol. Etické aspekty komunikácie v medicíne. Košice: UPJŠ v Košiciach, 2015.
BOBROV, N. a kol. Tanatológia a humánna tafonómia – etické a právne aspekty. Košice: UPJŠ v Košiciach, 2015.
CIMBOLÁKOVÁ, I. a kol. Výskum v medicíne a etika. Košice: UPJŠ v Košiciach, 2015.
KIMÁKOVÁ, T. a kol. Environment a jeho etické aspekty. Košice: UPJŠ v Košiciach, 2015.
ŠOLTÉS, L., PULLMAN, R. a kol. Vybrané kapitoly z medicínskej etiky. Martin: Osveta, 2008.
KOŘENEK J. Lékařská etika. Praha: Triton, 2004.
PTÁČEK, R., BARTŮNĚK, P. Etika a komunikace v medicíně. Praha: Grada Publishing, a.s., 2011.
PTÁČEK, R., BARTŮNEK, P. a kol. Etické problémy medicíny na prahu 21. století. Praha: Grada Publishing, a.s., 2014.

Course language:
Slovak

Notes:

Course assessment
Total number of assessed students: 3890

A	B	C	D	E	FX
90.49	7.02	1.93	0.36	0.08	0.13

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

Date of last modification: 21.07.2021

Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: ULI/ MI-V/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: 2.

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 given classworks.

Learning outcomes:
The aim of the course is to get knowledge about the basic terms, methods and tools of information and communication technologies. To reach the computer skills at the level, that allows students to create and to use databases and to get skills in information systems used in health care system. Students should also understand the importance of medical terminology, standards and evidence based medicine.

Brief outline of the course:
Utilization of ICT and informatics tools in medicine, eHealth, electronic health record, ePrescription, eMedication, eAllocation, information systems, telemedicine, bioinformatics, electronic signature, eLearning. Databases, data processing, database tables, primary keys, input mask, relations between tables. Forms in database, controls in forms, searching for information in database, data filtering, data sorting, queries, selection criteria, working with printing reports. Introduction into the biomedical statistics, descriptive statistics. Hospital information system. Terminology in medicine. PACS. Laboratory information system. Evidence based 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., Švída M.: Databázy v MS Access. Multimediálna podpora výučby klinických a zdravotníckych odborov :: Portál Lekárskej fakulty Univerzity Pavla Jozefa Šafárika v Košiciach, <http://portal.lf.upjs.sk/clanky.php?aid=57>. ISSN 1337-7000.
3. Majerník J.: Úvod do (bio)štatistiky. Multimediálna podpora výučby klinických a zdravotníckych odborov :: Portál Lekárskej fakulty Univerzity Pavla Jozefa Šafárika v Košiciach, <http://portal.lf.upjs.sk/clanky.php?aid=112>. ISSN 1337-7000.
4. Majerník J., Kotlárová K.: Medicínska informatika 2 - Nemocničný informačný systém, UPJŠ, Košice 2010, Equilibria, ISBN 978-80-7097-812-2.
5. Majerník J.: Základy informatiky, Košice 2008, Aprilla, ISBN 978-80-89346-03-5.

6. Príručky k nemocničným, ambulantným, rádiologickým a laboratórnym informačným systémom.

Course language:
slovak

Notes:

Course assessment
Total number of assessed students: 3248

abs	abs-A	abs-B	abs-C	abs-D	abs-E	neabs
52.89	7.91	18.87	12.13	4.56	2.74	0.89

Provides: doc. Ing. Jaroslav Majerník, PhD., Ing. Martina Habiňaková, PhD., Ing. Andrea Kačmariková, PhD.

Date of last modification: 11.02.2019

Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Medicine	
Course ID: USL/ MP-V/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: 6., 8., 10.

Course level: I.II.

Prerequisities: KKF/LTM/07 and UO/ZZS-V2/09

Conditions for course completion:
Attendance on lectures and seminars to the specified extent, successful presentation of seminar work.

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. De lege artis. Conscientious objection in health care. Legal requirements to medical profession. Continuous education of health care professionals. Specialization study. Forms of provision of health care. List of medical procedures. Rights and duties of people during provision of health care. Informed consent in medical care. Informed refusal in medical care. Health care providers and their duties. Rights and duties of health care professionals. Code of medical ethics in Slovakia. Ethical issues in provision of health care. Electronic healthcare (ehealth). National Health Information Center. Electronic passport of a health professional. Electronic health book. Medical documentation. Forms of keeping medical records. Provision and access to medical records. Professional organizations in healthcare. Slovak Medical Chamber. Slovak Medical Association. Health Care Surveillance Authority. Medical-Legal and Pathological-Anatomical Departments of HCSA. Procedures to be followed in case of death. Examination of the dead body at the scene. Autopsy and exhumation. Compensation of pain and deteriorated work capacity. Expert activity in health care. Experts, expert organizations, expert department. Doctor as a witness. Doctor as an expert witness. Types of legal responsibilities of the doctor. Medical malpractice: errors, mistakes, negligence.

Recommended literature:

BARANCOVÁ, H. a kol. Medicínske právo. Trnava: Typi Universitatis Tyrnaviensis, 2008.
KÁDEK, P. Právna zodpovednosť v medicíne. 2. vyd. Bratislava: Wolters Kluwer, 2018.
KÁDEK, P. Trestná zodpovednosť v medicíne za iatrogénne poškodenie pacienta. Ostrava: Key Publishing, 2017.

Course language:
Slovak

Notes:
Maximum class size is 20 students.

Course assessment
Total number of assessed students: 58

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

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

Date of last modification: 21.07.2021

Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: KKF/ LTM/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:

Learning outcomes:

Brief outline of the course:

Recommended literature:

Course language:

Notes:

Course assessment
Total number of assessed students: 3891

A	B	C	D	E	FX
14.93	28.09	25.62	17.96	12.59	0.8

Provides: Mgr. Mgr. Anabela Katreničová, Ph.D., prof. PhDr. František Šimon, CSc., doc. Mgr. Erika Brodňanská, PhD.

Date of last modification: 05.02.2021

Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: USBM/ MBV-V/10	**Course name:** Methodology of Biomedical Research

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:

Conditions for course completion:
Individual work, course assignment during the semester, presentation of the assignment results before the end of the semester, compulsory participation at practices, final test.

Learning outcomes:
To provide students with basic information on the methodology of biomedical research: concepts, methods and research plans. To teach students to acquire, process and present scientific knowledge. Work with databases, scientific literature. Forms of presentation and scientific communication of research results: scientific article, oral presentation, poster.

Brief outline of the course:
The objectives of science. Ethical aspects of scientific research. The main stages and the basic steps of the research process. Selection and definition of research problems. Defining the concept of variable (categorization and types of variables). Internal and external validity of the experiment. Hypotheses (typology, characteristics, formulating and testing hypotheses). Research designs: experimental, quasi-experimental, non-experimental designs. Sampling (representative / non-representative, probability / non-probability). Overview of the basic research data collection methods: observation, interview, self-reports, biophysiologic measures. The criteria for selection and evaluation of measurement tools (validity, reliability). Communication in the research process (scientific article, oral presentation, poster). Critical evaluation of research reports (reviews, opinions).

Recommended literature:
1. Ferjenčík J. Úvod do metodologie psychologického výzkumu. Portál, Praha 2000
2. Kerlinger F. Základy výskumu chování. Akademie, Praha 1972
3. Maršálová a kol. Metodológia a metódy psychologického výskumu. SPN, Bratislava 1990
4. Rajničová-Nagyová I. Vedecké písanie a publikovanie: Ako napísať vedecký článok, Kritické hodnotenie výskumu. In: Repková K. a kol. Vedecká komunikácia a komunikácia vedy. Inštitút pre výskum práce a rodiny, Bratislava 2008

Course language:
slovak language

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: Mgr. Iveta Rajničová Nagyová, PhD., Mgr. Matej Hrabovský

Date of last modification: 23.03.2023

Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: ULBL/ MGCMB-V/15	**Course name:** Methods in Human Genetics and Molecular Biology 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: 3.

Course level: I.II.

Prerequisities:

Conditions for course completion:
1. All practical lessons (100%) are obligatory for all students.
2. Final written examination (assessment minimum of 60%).

Learning outcomes:
Students have acquired an understanding of the major concepts in human cell and molecular genetics and have obtainined information related to genetic and molecular biology methods in clinical practice.

Brief outline of the course:
The basic principles of human cytogenetics. Molecular biology methods in human genetics and clinical practice.

Recommended literature:
Šalagovič, J., Ondruššeková, A., Mičková, H., Klimčáková, L., Židzik, J., Slabá E., Hudáková, T.: Lekárska biológia I., 2. doplnené vydanie, Equilibria, Košice 2009
Sršeň, Š., Sršňová, K.: Základy klinickej genetiky a jej molekulárna podstata, 4. preprac. a rozšírené vydanie, Osveta, 2005
Šmarda, J. a kol.: Metody molekulární biologie, Masarykova univerzita, 2010

Course language:
Slovak

Notes:

Course assessment
Total number of assessed students: 13

abs	abs-A	abs-B	abs-C	abs-D	abs-E	neabs
46.15	53.85	0.0	0.0	0.0	0.0	0.0

Provides: RNDr. Terézia Hudáková, RNDr. Jozef Židzik, PhD., RNDr. Martina Šemeláková, PhD.

Date of last modification: 11.05.2022

Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: ULM/MB-V1/09	**Course name:** Microbiology 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: 4.

Course level: I.II.

Prerequisities: ULBL/BL-V1/09

Conditions for course completion:
completion of practical exercises
tests
getting credits

Learning outcomes:
Overview of fundamental characteristics of microorganisms in relation to infectious diseases. Laboratory diagnosis, therapy and prevention of infectious diseases.

Brief outline of the course:
Classification and basic characteristics of microorganisms. Growth and cultivation. Pathogenicity. Immunity against microbes. Antimicrobial Agents. Immunization. Laboratory diagnosis of infectious diseases. Normal flora. Staphylococci. Streptococci. Pneumococci. Enterococci. Neisseria.

Recommended literature:
Murray, P.R.: Medical Microbiology.

Course language:
slovak

Notes:

Course assessment
Total number of assessed students: 3329

abs	abs-A	abs-B	abs-C	abs-D	abs-E	neabs
48.87	14.9	11.81	6.97	5.8	10.63	1.02

Provides: Dr.h.c. prof. MUDr. Leonard Siegfried, CSc., RNDr. Marián Sabol, CSc., MVDr. Vladimír Hrabovský, PhD., Mgr. Mária Nagyová, MUDr. Marián Marcin, RNDr. Katarína Čurová, PhD., Ing. Viera Lovayová, PhD.

Date of last modification: 31.03.2023

Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: ULM/MB-V2/14	**Course name:** Microbiology 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: 5.

Course level: I.II.

Prerequisities: ULM/MB-V1/09

Conditions for course completion:
test
examination

Learning outcomes:
Knowledge of general and specific characteristics of microbes in relation to human infections, laboratory diagnosis, therapy and prophylaxis

Brief outline of the course:
Selected genera of grampositive and gramnegative cocci and rods.
Anaerobic bacteria. Selected yeasts, molds and parasites. DNA and RNA viruses. Selected causative agents of respiratory, gastrointestinal, genitourinary, cardiovascular and central nervous system, nosocomial infections and infections of soft tissue and bones.

Recommended literature:
Murray, P.R.: Medical Microbiology.

Course language:

Notes:

Course assessment
Total number of assessed students: 3284

A	B	C	D	E	FX
20.31	13.22	18.82	13.25	25.06	9.35

Provides: Dr.h.c. prof. MUDr. Leonard Siegfried, CSc., RNDr. Marián Sabol, CSc., MVDr. Vladimír Hrabovský, PhD., Mgr. Mária Nagyová, MUDr. Marián Marcin, RNDr. Katarína Čurová, PhD., Ing. Viera Lovayová, PhD.

Date of last modification: 31.03.2023

Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Medicine	
Course ID: UPF/ MPF-V/14	**Course name:** Molecular Pathophysiology

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

Number of ECTS credits: 2

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

Course level: I.II.

Prerequisities: UPF/PF-V1/16

Conditions for course completion:
exam

Learning outcomes:
Acquisition of basic knowledge in the field cellular pathophysiology and molecular medicine necessary for a deeper understanding of the pathogenesis of diseases, their molecular diagnostics and the current therapy and future technologies.

Brief outline of the course:
Fundamentals of electrogenic membrane and transport processes (ion channels, transporters) # Channelopathies and disorders of transporters # Humoral intercellular signaling - intracellular signaling cascades # Contact interactions - adhesion molecules, extracellular matrix # The molecular nature of the acute and chronic inflammation & tissue repair # The molecular basis of carcinogenesis and the molecular basis of the pathogenesis of immune # The principles and mechanisms of the growth, differentiation, damage and cell death # Oxidative damage; Redox homeostasis; ischemia and hypoxia; reperfusion injury # Selected genetic aspects of the disease

Recommended literature:
Všeobecná patofyziológia: mechanizmy vzniku chorôb. R.Beňačka (Ed).
Košice: Univerzita Pavla Jozefa Šafárika, ŠafárikPress, 2021. ISBN 9788057400745
Beňačka, R., Ništiar, F., Rácz. O.: Základy molekulovej medicíny II., UPJŠ LF, Košice, 1. vyd., 2004, 88 s., (ISBN: 8070975733)
Ništiar, F., Beňačka, R., Rácz. O.: Základy molekulovej medicíny III., UPJŠ LF, Košice, 1.vyd., 2005, 72 s, (ISBN 80-7097-591-1)
Elleder, M. (Ed): Vybrané kapitoly z patologie buňky (vol I., II.), Karolinum, Praha, 1997, 213 s.
Lang F. (Ed.): Encyclopedia of Molecular Mechanisms of Disease. Springer, Berlin, 2009, 766 s. (ISBN-10: 3540671366) (spracované kapitoly pre študentov preložené do slov. jazyka)
Runge, M. S., Patterson, C. (Ed.): Principles of molecular medcine. 2.ed., Humana Press, New Jersey,
2006, 1304 s., ISBN-10: 1588292029 (vybrané kapitoly pre študentov preložené do slov. jazyka)
Trent, R.J.: Molecular Medicine, Genomics to Personalized Healthcare, 4.ed., Academic Press, New York, 346 s., ISBN-10: 0123814510 (kapitoly pre študentov preložení do slov. jazyka)

Das, U.N: Molecular Basis of Health and disease. Springer, Berlin, 2011, 583 s. ISBN-10: 9400704941
Internetové zdroje, databázy a virtuálne webové učebnice

Course language:
slovak language

Notes:

Course assessment
Total number of assessed students: 10

A	B	C	D	E	FX
60.0	10.0	30.0	0.0	0.0	0.0

Provides: doc. MUDr. Oliver Rácz, CSc., doc. MUDr. Roman Beňačka, CSc., MVDr. Eva Lovásová, PhD.

Date of last modification: 24.03.2023

Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Medicine	
Course ID: NLK/ NL-V1/19	**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-V3/17 or UA/A-V2/22

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).

Learning outcomes:
To learn the basics of neurotopic diagnosis and syndromology in neurology. To learn the neurological examination of the patient. To learn the basics of auxiliary electrophysiological (EEG, EMG, EP, polysomnography) and neuroimaging (ultrasound of brain vessels, CT, MR, angiography) examinations in neurology, their indications, interpretations and use in clinical practice.

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:

Gdovinová Z.: Základy neurologického vyšetrenia pre študentov všeobecného lekárstva. Košice: Univerzita Pavla Jozefa Šafárika v Košiciach, 2010. 136s. ISBN 978-80-7097-801-6 (brož.).
Gdovinová Z., Szilasiová J., Feketeová E., Tormašiová M., Škorvánek M., Leško N, Paveleková P. Vybrané kapitoly zo špeciálnej neurológie. 2. Vydanie. UPJŠ v Košiciach, Equilibria, 2021. ISBN 978-80-574-0017-2
Ružička E., Šonka K., Marusič P., Rusina R a kol. Neurologie, Triton, Praha, 2019, ISBN 978-80-7553-681-5.
Complementary literature: Gdovinová Z., Szilasiová J.: Textbook of general neurology. Košice : Aprilla Ltd. for Hanzluvka Books, 2009. 189 s. ISBN 9788089346158 (brož.).

Course language:
slovak language

Notes:

Course assessment
Total number of assessed students: 2997

abs	abs-A	abs-B	abs-C	abs-D	abs-E	neabs
52.85	17.78	13.71	6.41	5.67	3.24	0.33

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., doc. MUDr. Matej Škorvánek, PhD., MUDr. Vladimír Haň, PhD., MUDr. Milan Maretta, PhD., MUDr. Miroslav Benča, MUDr. Petra Paveleková, MUDr. Alexandra Lacková, PhD., MUDr. Dominik Koreň, PhD., MUDr. Kristína Kulcsárová, PhD.

Date of last modification: 09.03.2023

Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: NLK/ NL-V2/14	**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: 4

Recommended semester/trimester of the course: 8.

Course level: I.II.

Prerequisities: NLK/NL-V1/19

Conditions for course completion:

Learning outcomes:

Brief outline of the course:

Recommended literature:

Course language:

Notes:

Course assessment
Total number of assessed students: 2812

A	B	C	D	E	FX
37.48	25.21	15.86	10.1	8.11	3.24

Provides: prof. MUDr. Zuzana Gdovinová, CSc., FESO, FEAN, MUDr. Mária Tormašiová, PhD., doc. MUDr. Eva Feketeová, PhD., MUDr. Norbert Leško, PhD., doc. MUDr. Matej Škorvánek, PhD., prof. MUDr. Jarmila Szilasiová, PhD., MUDr. Milan Maretta, PhD., MUDr. Miroslav Benča, MUDr. Petra Paveleková, MUDr. Miriam Fedičová, PhD.

Date of last modification: 23.03.2020

Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: IK/ NVMK-V/16	**Course name:** Non-invasive Diagnostic Methods in Cardiology

Course type, scope and the method:
Course type: Seminar
Recommended course-load (hours):
Per week: Per study period: 6s
Course method: present

Number of ECTS credits: 2

Recommended semester/trimester of the course: 8.

Course level: I.II.

Prerequisities: IK/IM-V1/16

Conditions for course completion:

Learning outcomes:

Brief outline of the course:

Recommended literature:

Course language:

Notes:

Course assessment
Total number of assessed students: 53

abs	abs-A	abs-B	abs-C	abs-D	abs-E	neabs
58.49	32.08	0.0	0.0	0.0	0.0	9.43

Provides:

Date of last modification: 09.03.2016

Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: KNM/ NM-V/14	**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: 8.

Course level: I.II.

Prerequisities: ULBF/LBF-V/22

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:
Lepej J. – Lacko A.: Nukleárna medicína I-III, 1. vyd. Equilibria, Košice, 2018, 202s. ISBN 9788081432224

Course language:
slovak language

Notes:

Course assessment Total number of assessed students: 3021					
A	B	C	D	E	FX
19.17	22.58	21.65	19.73	15.36	1.52
Provides: doc. MUDr. Ján Lepej, CSc.					
Date of last modification: 22.03.2023					
Approved: prof. MUDr. Daniel Pella, PhD.					

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: UO/ PZS-V/15	**Course name:** Nursing Care - clerkship in hospital

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: 4.

Course level: I.II.

Prerequisities: ChK/ZZS-V1/17

Conditions for course completion:

Learning outcomes:

Brief outline of the course:

Recommended literature:

Course language:

Notes:

Course assessment
Total number of assessed students: 2799

abs	abs-A	abs-B	abs-C	abs-D	abs-E	neabs
98.89	0.07	0.0	0.0	0.0	0.21	0.82

Provides: prof. PhDr. Lucia Dimunová, PhD., PhDr. Jana Michalková, PhD., PhDr. Gabriela Štefková, PhD., doc. PhDr. Mária Sováriová Soósová, PhD., PhDr. Libuša Tirpáková, PhD.

Date of last modification: 29.07.2021

Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: ChK/ ZZS-V1/17	**Course name:** Nursing Care 1

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: 3.

Course level: I.II.

Prerequisities:

Conditions for course completion:
Successful completion of mid-term study checks and final graded assessment. Completion of practicals/seminars, passing 1 mid-term written test per semester, obtaining at least 60% and practical implementation of selected dressing techniques. Detailed course prerequisites are updated annually on the AiS2 electronic bulletin board and on the Department of Nursing website. Link to the course prerequisites on the Department of Nursing website https://www.upjs.sk/public/media/8671/absol_ZZ1.pdf

Learning outcomes:
Acquire knowledge related to the organisation of work in the provision of outpatient and inpatient health care. To know the different types of dressing materials, to make dressings correctly.

Brief outline of the course:
Define the basic concepts related to the provision of health care. Characterise the forms and methods of healthcare provision. Organisation of health care in outpatient and inpatient care. Categorisation of health professionals. Parts and equipment of a nursing unit. Admission, transfer and discharge of patients from inpatient care. Medical documentation. Medical rounding. Types of dressing material - classification of dressings according to purpose. Application, purpose and technique of scarf dressings on different parts of the body. Application, purpose and technique of sling dressings. Application, purpose and technique of bandages on upper limb, lower limb, chest, head.

Recommended literature:
Basic study literature:
DIMUNOVÁ, L., RAKOVÁ, J., ŠTEFKOVÁ, G. Vybrané kapitoly zo základov zdravotnej starostlivosti. UPJŠ LF, 2017.
TIRPÁKOVÁ, L., SOVARIOVÁ SOÓSOVÁ, M. a kol. Ošetrovateľské techniky. UPJŠ, 2016. http://unibook.upjs.sk/image/data/osetrovatelske-techniky-final.pdf
Further study literature:
VYTEJČKOVÁ, R. SEDLÁŘOVÁ, P., WIRTHOVÁ, V., HOLUBOVÁ, J. Ošetřovatelské postupy v péči o nemocné I. Grada , 2011.
PÁRAL, J. Malý atlas obväzových technik. Grada, 2008.

Course language:

Notes:

Course assessment
Total number of assessed students: 3349

abs	abs-A	abs-B	abs-C	abs-D	abs-E	neabs
49.57	25.98	15.71	5.58	0.48	2.63	0.06

Provides: doc. MUDr. Miroslav Gajdoš, CSc., univerzitný profesor, PhDr. Jana Michalková, PhD., MUDr. Marie Šudáková, PhDr. Valéria Parová, PhD., prof. PhDr. Lucia Dimunová, PhD., PhDr. Beáta Grešš Halász, PhD., MPH, doc. PhDr. Mária Sováriová Soósová, PhD., PhDr. Gabriela Štefková, PhD., PhDr. Silvia Danková, PhD.

Date of last modification: 22.03.2023

Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Medicine	
Course ID: UO/ ZZS-V2/09	**Course name:** Nursing Care 2

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

Number of ECTS credits: 4

Recommended semester/trimester of the course: 4.

Course level: I.II.

Prerequisities: ChK/ZZS-V1/17

Conditions for course completion:
Successful completion of mid-term and final examinations.
Completion of practical exercises/seminars, passing 1 final written test per semester, obtaining at least 60% and practical implementation of selected nursing procedures.
Detailed course prerequisites are updated annually on the AiS2 electronic course bulletin board and on the Department of Nursing website.
Link to the course prerequisites on the Institute of Nursing website
https://www.upjs.sk/public/media/8671/absol_ZZ2.pdf

Learning outcomes:
To develop knowledge and practical skills in the implementation of selected professional performances and work procedures in laboratory conditions. To master the principles of asepsis, antisepsis, disinfection and sterilisation, preparation for surgery. Acquire basic communication skills in healthcare.

Brief outline of the course:
Disinfection and sterilization. Monitoring of physiological functions. Fundamentals of injection technique. Preparation and assistance with transfusions and infusions. Preparation of the patient before selected diagnostic and therapeutic procedures. Preparation of equipment for minor surgical procedures. Preparation and dressing for surgery. Forms and methods of administration of drugs. Oxygen therapy. Catheterisation of the bladder. Positioning and positioning of patients. Communication skills in the patient-health professional relationship.

Recommended literature:
Basic study literature:
DIMUNOVÁ, L., RAKOVÁ, J., ŠTEFKOVÁ, G. Vybrané kapitoly zo základov zdravotnej starostlivosti. UPJŠ v Košiciach, 2017.
TIRPÁKOVÁ, L., SOVARIOVÁ SOÓSOVÁ, M. a kol. Ošetrovateľské techniky. UPJŠ v Košiciach, 2016.
http://unibook.upjs.sk/image/data/osetrovatelske-techniky-final.pdf
Further study literature:
DIMUNOVÁ, L. a kol. Dietológia a liečebná výživa I.UPJŠ v Košiciach, 2018.
https://unibook.upjs.sk/img/cms/2018/lf/dietologia-a-liecebna-vyziva-web.pdf

RAKOVÁ,J. a kol. Dietológia a liečebná výživa II. UPJŠ v Košiciach, 2019. https://unibook.upjs.sk/img/cms/2019/LF/dietologia-a-liecebna-vyziva-2.pdf
VYTEJČKOVÁ, R. SEDLÁŘOVÁ, P., WIRTHOVÁ, V., HOLUBOVÁ, J. Ošetřovatelské postupy v péči o nemocné I. Grada, 2011.

Course language:

Notes:

Course assessment
Total number of assessed students: 3300

A	B	C	D	E	FX
15.91	26.39	27.18	19.09	11.03	0.39

Provides: doc. MUDr. Miroslav Gajdoš, CSc., univerzitný profesor, prof. PhDr. Lucia Dimunová, PhD., PhDr. Jana Michalková, PhD., MUDr. Marie Šudáková, PhDr. Gabriela Štefková, PhD., PhDr. Silvia Danková, PhD., PhDr. Beáta Grešš Halász, PhD., MPH, PhDr. Valéria Parová, PhD.

Date of last modification: 22.03.2023

Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Medicine	
Course ID: KPLaKT/PL-V/11	**Course name:** Occupational 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: IK/IM-V3/22

Conditions for course completion:
Successful completion of interim study checks and the final examination

Learning outcomes:
Acquire the theoretical knowledge necessary for early and effective diagnosis of occupational health impairments with exposure and risk analysis in the work environment. To master the current results of scientific discoveries with a focus on the differential diagnosis, treatment and assessment of occupational physical, chemical and biological health impairments with a practical mastery of clinical epidemiology, including health statistics.

Brief outline of the course:
- preventive occupational medicine
1. physical factors in the working environment - light and lighting, noise and vibration, pollutants in the working environment (gas, steam, fog, smoke, liquid and solid aerosols - dust)
2. biological factors in the working environment
3. chemical factors in the working environment - industrial toxicology
4. physiology of work, basics of ergonomics
5. occupational psychology
6. health risks in selected industries and professions
- clinical occupational medicine and toxicology
1. damage to health by chemical substances (toxic metals, organic solvents, methemoglobinizing agents, polymers, pesticides, chemical warfare agents and others)
2. damage to health by physical agents
3. occupational diseases of the respiratory system
4. occupational cancers
5. occupational dermatoses
6. occupational infectious diseases
7. occupational cardiovascular diseases
8. occupational neuropsychiatric diseases
9. other work-related diseases

Recommended literature:
Legáth, Ľ. Buchancová, J. a kol.: Pracovné lekárstvo, vybrané kapitoly I., Martin, 2020

Buchancová, J. a kol.: Pracovné lekárstvo a toxikológia, Martin, 2003
Rom, W.N.: Environmental a Occupational Medicine, New York, 1998
Levy, B.S.; Wegman, D.H.: Occupational Health, Philadelphia, 2000
Banks, D.E.; Parker, J.E.: Occupational Lung Disease, Philadelphia, 1998

Course language:
slovak

Notes:

Course assessment
Total number of assessed students: 17

A	B	C	D	E	FX
23.53	41.18	29.41	0.0	5.88	0.0

Provides: prof. MUDr. Ľubomír Legáth, PhD., doc. MUDr. Slavomír Perečinský, PhD., MUDr. Marek Varga, PhD., MUDr. Lenka Murínová

Date of last modification: 23.03.2023

Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: OK/OF-V/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: 9.

Course level: I.II.

Prerequisities: IK/IM-V3/22 and UPF/PF-V2/16

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:
Oláh, Z. a kol. : Očné lekárstvo, Osveta, 1996, Gerinec, A.: Detská oftalmológia, Osveta, 2005

Course language:
slovak language

Notes:

Course assessment
Total number of assessed students: 2900

A	B	C	D	E	FX
75.17	13.41	7.55	2.21	1.62	0.03

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

Date of last modification: 22.03.2023

Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: KMSM Šaca/OTNC-V/16	**Course name:** Ortopédia a traumatológia nohy a členka

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:
100% participation in practical exercises (seminars/operating room)

Learning outcomes:
Students will gain knowledge of the diagnosis and treatment of diseases, injuries and deformities of the foot and ankle. There is little space devoted to this issue generally , however it is a very frequent problem that not only surgeons, internists, diabetologists, but especially general practitioners treat this patients on a daily basis.
The topics of flat foot, deformities of the forefoot (bunions, hammer toes), diabetic foot problems, complex reconstructions for ankle deformities and arthritis, congenital deformities and ankle sprains, ankle and foot fractures will be discussed.
Students will become familiar with the examination of the foot and ankle, X-ray, CT diagnostics, with the principles of surgical and conservative treatment. We will emphasize sports injuries in the location of the foot and ankle , and arthroscopic surgery.

Brief outline of the course:
1. Anatomy and functional biomechanics of the foot and ankle
2. Examination of the foot and ankle
3. forefoot deformities
4. hindfoot deformities
5. Diabetic foot and Charcot arthropathy
6. foot and ankle arthritis
7. Congenital defects of the foot and ankle
8. Fractures of the foot and ankle
9. Ligaments and tendon injuries of the foot and ankle
10. Sports injuries of the foot and ankle , ankle arthroscopy

Recommended literature:
1. R.Totkovič : Rekonštrukčné operácie nohy a členka, Nemocnica Košice-Šaca, 2014
2. P.Dungl.: Ortopedie, Avicennum, 2014, ISBN 978-80-247-4357-8

Course language:
Slovak language

Notes:

Course assessment
Total number of assessed students: 15

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. Peter Polan, PhD., MPH, MUDr. Maroš Varga, MUDr. Jozef Kubašovský, MUDr. Martin Vicen

Date of last modification: 01.04.2023

Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Medicine	
Course ID: LVB/ OSPPZ-V/16	**Course name:** Osvojenie štandardných laboratórnych postupov a metód u pokusných zvierat

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: 4.

Course level: I.II.

Prerequisities:

Conditions for course completion:
To pass the course, 100% active participation in practical exercises , demonstrating the required skills and theoretical knowledge that are the content of the course is required. Elaboration of laboratory protocols.

Learning outcomes:
The acquisition of standard laboratory procedures and methods in experimental animals in both theoretical and practical teaching is aimed at acquiring the knowledge, practical habits and skills necessary for the performance and reproducibility of experiments.

Brief outline of the course:
The student will acquire the basics of current legislation in the field of welfare in the conditions of clinical experiments, learn techniques, methods of standard procedures, experience in sampling and application methods using laboratory animals

Recommended literature:
Hulín I., Ostatníková D. et al ., O vedeckom bádaní v medicíne, AEPress, s. r. o. 2014, 240 s., ISBN 978-80-89678-02-0.
Z. Hurníková, Praktická aplikácia legislatívnych požiadaviek na ochranu zvierat používaných na vedecké účely, Vydanie: SAV,2014, 44 s., ISBN: 9788089707010(brož.)
T. Kisková, S. Matéffy, F. Horváthová, Laboratórny potkan a jeho využitie v experimentálnej biológii, Vydavateľ: UPJŠ v Košiciach, 2019 , ISBN:978-80-8152-763-0 (e-publikácia)
E. Mechirová, I. Domoráková, Praktikum z histológie 2. časť (pracovný protokol) 2016, Vydavateľ: LF UPJŠ, 70 s. , ISBN: 9788081521560.
P. Popesko, V. Rajtová, J. Horák, Atlas anatómie malých laboratórnych zvierat 2,Príroda 2002, 253 s., ISBN: 80-07-00042-9.
Krinke, G.J. (ed) The Laboratory Rat, Academic Press 2000, 756 s., ISBN elektronickej knihy: 9780080533469.

Course language:
slovak

Notes:

Course assessment
Total number of assessed students: 36

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:

Date of last modification: 23.03.2023

Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: KORLaF/ORL-V/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-V1/19 and UFR/FA-V1/19 and ChK/CH-V3/17

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:
slovak language

Notes:

Course assessment
Total number of assessed students: 2814

A	B	C	D	E	FX
24.45	21.71	20.97	18.51	14.11	0.25

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

Date of last modification: 22.03.2023

Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: KDaD/ PE-V1/15	**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/FA-V1/19

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:
Kovács, L. a kol: Pediatria, ARETA, 2010
Vargová, V. a kol: Vybrané kapitoly z pediatrie, UPJŠ Košice, 2012
Schusterová, I.: Vybrané kapitoly z detskej kardiológie. UPJŠ Košice, 2014
Bláhová, K. a kol: Preklinická pediatrie, Galén, 2019
Lebl, J. a kol: Klinická pediatrie, Galén, 2014

Course language:
Slovak language

Notes:

Course assessment
Total number of assessed students: 2907

abs	abs-A	abs-B	abs-C	abs-D	abs-E	neabs
53.73	16.27	13.73	9.25	4.54	2.44	0.03

Provides: MUDr. Juliana Ferenczová, PhD., MUDr. Peter Krcho, PhD., doc. MUDr. Milan Kuchta, CSc., doc. MUDr. Veronika Vargová, PhD., MUDr. Juraj Hedvig, PhD., MUDr. Miroslava Petrášová, PhD., MUDr. Marianna Fajdelová, MUDr. Simona Drobňaková, MUDr. Mária Pisarčíková, PhD., MUDr. Tatiana Baltesová, PhD., MUDr. Veronika Kučeravá, PhD., MUDr. Kristína Kubejová, PhD., MUDr. Gabriel Koľvek, PhD., MUDr. Martin Mráz, PhD.

Date of last modification: 23.03.2023

Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: KDaD/ PE-V2/12	**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-V1/15

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:

Kovács, L. a kol: Pediatria, ARETA, 2010
Vargová, V. a kol: Vybrané kapitoly z pediatrie, UPJŠ Košice, 2012
Lebl, J. a kol: Klinická pediatrie, Galén, 2014
Kovács, L.: Pediatria 1000 otázok a odpovedí, Osveta, 2004

Course language:

Notes:

Course assessment

Total number of assessed students: 2848

abs	abs-A	abs-B	abs-C	abs-D	abs-E	neabs
52.88	23.46	12.99	6.04	3.16	1.4	0.07

Provides: MUDr. Juliana Ferenczová, PhD., MUDr. Peter Krcho, PhD., doc. MUDr. Milan Kuchta, CSc., doc. MUDr. Veronika Vargová, PhD., MUDr. Miroslava Petrášová, PhD., MUDr. Juraj Hedvig, PhD., MUDr. Marianna Fajdelová, MUDr. Simona Drobňaková, MUDr. Tatiana Baltesová, PhD., MUDr. Gabriel Koľvek, PhD., MUDr. Kristína Kubejová, PhD., MUDr. Veronika Kučeravá, PhD., MUDr. Martin Mráz, PhD.

Date of last modification: 23.03.2023

Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: KDaD/PE-V3/16	**Course name:** Paediatrics 3

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

Number of ECTS credits: 9

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

Course level: I.II.

Prerequisities: KDaD/PE-V2/12 and NLK/NL-V2/14

Conditions for course completion:

Learning outcomes:

Brief outline of the course:

Recommended literature:

Course language:

Notes:

Course assessment
Total number of assessed students: 2478

abs	abs-A	abs-B	abs-C	abs-D	abs-E	neabs
55.61	35.92	7.3	0.93	0.16	0.04	0.04

Provides: doc. MUDr. Milan Kuchta, CSc., doc. MUDr. Veronika Vargová, PhD., MUDr. Juraj Hedvig, PhD., MUDr. Juliana Ferenczová, PhD., MUDr. Peter Krcho, PhD., doc. MUDr. Ingrid Urbančíková, PhD., MPH, MUDr. Miroslava Petrášová, PhD., MUDr. Marianna Fajdelová, MUDr. Simona Drobňaková, MUDr. Mária Pisarčíková, PhD., MUDr. Tatiana Baltesová, PhD., MUDr. Veronika Kučeravá, PhD., MUDr. Kristína Kubejová, PhD., MUDr. Gabriel Koľvek, PhD., MUDr. Martin Mráz, PhD., MUDr. Pavol Fedor

Date of last modification: 01.12.2021

Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: UP/PA-V1/14	**Course name:** Pathological Anatomy 1

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

Number of ECTS credits: 7

Recommended semester/trimester of the course: 5.

Course level: I.II.

Prerequisities: UHE/HE-V2/17 and UA/A-V2/14 and UA/A-V1/14

Conditions for course completion:

Learning outcomes:

Brief outline of the course:

Recommended literature:

Course language:

Notes:

Course assessment
Total number of assessed students: 2869

abs	abs-A	abs-B	abs-C	abs-D	abs-E	neabs
55.66	4.04	11.85	11.54	9.72	6.27	0.91

Provides: MUDr. Ľudmila Verbóová, PhD., MUDr. Erika Štammová, MVDr. Pavel Kočan, PhD., MUDr. Adam Nedoroščík, MUDr. Ján Gajdoš, MUDr. Patrícia Kollárová, MUDr. Stanislav Matéffy

Date of last modification: 03.05.2015

Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: UP/PA-V2/16	**Course name:** Pathological Anatomy 2

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

Number of ECTS credits: 8

Recommended semester/trimester of the course: 6.

Course level: I.II.

Prerequisities: UP/PA-V1/14 and UA/A-V3/17

Conditions for course completion:

Learning outcomes:

Brief outline of the course:

Recommended literature:

Course language:

Notes:

Course assessment
Total number of assessed students: 2918

A	B	C	D	E	FX
24.09	15.25	20.32	15.28	18.81	6.24

Provides: MUDr. Erika Štammová, MUDr. Zuzana Benetinová, PhD., MUDr. Ľudmila Verbóová, PhD., MVDr. Pavel Kočan, PhD., MUDr. Ján Gajdoš, MUDr. Stanislav Matéffy

Date of last modification: 05.05.2016

Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: UPF/PF-V1/16	**Course name:** Pathological Physiology 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: 5.

Course level: I.II.

Prerequisities: UFZ/FZ-V2/14

Conditions for course completion:
Prerequisite for registration: no
Prerequisite for completion: 2 credit tests, evaluation of knowleadge and practise in practical lessons (oral & written quizzes, presentations, 1 protocol), 50% attendance in lectures, final exam

Learning outcomes:
General pathophysiology is providing the comprehensive knowledge related to the causality, the mechanisms of the alteration, progression and consequences of human diseases, pathological states and processes including overview of their underlying etiological factors, processing pathways and resulting manifestations on systemic, organ -specific and cellular level.

Brief outline of the course:
1. Introduction to pathological physiology. 2. Physical causes of diseases. Introduction to radiology and toxicology. 3. Nutritional disorders. Obesity. Micronutrients. Disorders of metabolism.4. Inflammation. Stress - YOU. Immune disorders. Indoor environment, Ca. Mg, ABR. 5. Health and disease from the point of view of genetics and genomics. 6. Congenital metabolic disorders. - enzymopathy. Chromosome aberrations. 7. Hypoxia, oxidative stress. Shock, fever, pain, edema, Apoptosis. Necrosis. Stochastic changes. 8. Theories of aging. Changes in old age. Aging and diseases.9. Degenerative diseases of NS. Basic mechanisms of regulation. Signal transduction. Tumor growth. Cellular mechanisms in the pathogenesis of diseases. Disorders of consciousness.

Recommended literature:
Beňačka R. a kol. Všeobecná patofyziológia: mechanizmy vzniku chorôb.
UPJŠ, ŠafárikPress, Košice,2021, 484 s.
Nečas E. a kol.: Obecná patologická fyziologie. Karolinum Praha, 2002, 380 s.
Nečas E. a kol.: Patologická fyziologie orgánových systémů I, II. Karolinum Praha, 2003, 762 s.
Hulín I. a kol.: Patofyziológia. Slovak Academic Press Bratislava, 2009, 7. vyd., 1290 s.
Rácz O. a kol.: Základy patologickej fyziológie. Aprilla s. r. o., Košice, 2006, 244 s.
Rokyta R. a kol.: Fyziologie a patologicke fyziologie, Grada - Publishing, Praha, 2015, 680s

Course language:

Notes:

Course assessment
Total number of assessed students: 3197

abs	abs-A	abs-B	abs-C	abs-D	abs-E	neabs
50.23	1.6	15.45	22.55	7.98	2.06	0.13

Provides: doc. MUDr. Roman Beňačka, CSc., MVDr. Eva Lovásová, PhD., MUDr. Eva Sedláková, PhD., MVDr. Jaroslava Králiková, PhD., MUDr. Peter Dombrovský, doc. MUDr. Oliver Rácz, CSc., MUDr. Lenka Šalamonová Blichová, PhD., MUDr. Marek Brenišin, PhD.

Date of last modification: 24.03.2023

Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: UPF/ PF-V2/16	**Course name:** Pathological Physiology 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: 6

Recommended semester/trimester of the course: 6.

Course level: I.II.

Prerequisities: UPF/PF-V1/16 and ULCHBKB/LBC-V1/20

Conditions for course completion:
Prerequisite for registration: succesful completion of practical lessons from Pathological physiology I
Prerequisite for completion: 2 credit tests, evaluation of knowleadge and outputs in practival lessons (oral & written quizzes, presentations, 3 protocols, semestral work), 50% attendance in lectures, final exam

Learning outcomes:
Special pathophysiology presents the in-depth overview of the underlying celullar and/or systemic etiopathogenesis, symptomatology and principal diagnostic findings of the clinically most important diseases and syndromes arising from the alterations in all systems of the human body. The subject provides the integration of the pre-clinical skills for general medicine

Brief outline of the course:
1.Congenital acquired heart disorders, Ischaemic heart disease & myocardial infarction, Atherosclerosis, arterial hypertension, Cardiac dysrrhythmias, Cardiomyopathies, Shock states, hypotension, collapse, venous disorders
2. Disorders of red cells (anemia), coagulopathies, vasculopathy disorders of the white cells, Leucaemias, Lymphomas
3. Obstructive & restrictive lung disorders (asthma, COPD), Respiratory failure, ARDS, Respiraotry dysrhythmias, Disorders of ventilation, perfusion, difusion
4. Motor & sensory disorders, Neuropathies & neuromuscular dis., Degenerative & demyelinating dis, Epilepsy, Pain, Cerebrovascular diseases, Higher nervous dysfunctions & dementia sy., Vegetative nervous disorders
5. Hypoth. – hypophyseal. disorders, Thyroid and parathyroid gland dysfunction, Supraren diroders, Diabetes mellitus and its acute a& chronic complications, Molecular principles of endocrine disorders
6. Acute & chronic renal failure, Glomerulopathies, Tubulopathies, Renovascular diseases, Kidney stones. Disorders of pharyx, esophagus, Peptic ulcer, Pancreatopathy - maldigestion, Liver and gall bladder disorders - icterus, hepatitis

Recommended literature:
Beňačka R. a kol.: Všeobecná patofyziológia: mechanizmy vzniku chorôb.

UPJŠ, ŠafárikPress, Košice 2021, 484 s.
Nečas E. a kol.: Obecná patologická fyziologie. Karolinum Praha, 2002, 380 s.
Nečas E. a kol.: Patologická fyziologie orgánových systémů I, II. Karolinum Praha, 2003, 762 s.
Hulín I. a kol.: Patofyziológia. Slovak Academic Press Bratislava, 2009, 7. vyd., 1 290 s.
Rácz O. a kol.: Základy patologickej fyziológie. Aprilla s. r. o., Košice, 2006, 244 s.
Rokyta R. a kol.: Fyziologie a patologická fyziologie, Grada Publishing, Praha. 2015, 680s

Course language:

Notes:

Course assessment
Total number of assessed students: 3183

A	B	C	D	E	FX
16.05	20.96	26.2	17.28	12.32	7.19

Provides: doc. MUDr. Roman Beňačka, CSc., doc. MUDr. Oliver Rácz, CSc., MUDr. Eva Sedláková, PhD., MUDr. Peter Dombrovský, MVDr. Eva Lovásová, PhD., MVDr. Jaroslava Králiková, PhD., MUDr. Lenka Šalamonová Blichová, PhD., MUDr. Marek Brenišin, PhD.

Date of last modification: 24.03.2023

Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: KDaD/ PE-SS-V/17	**Course name:** Pediatrics

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-V3/22 and UFR/FA-V2/22 and 1. PK/PT-V2/18 and 1. KAIM/AIM-V/20

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:

Lebl, J., Janda, J., Pohunek, P., Stary, J.: Klinicka pediatria. Galén, Praha, ISBN 978-80-7262-772-1, 2012, s. 698.
Kovács, L. a kol.: Pediatria, Arete s.r.o., Bratislava, 2010, ISBN 978-80-970624-0-8, s. 412.
M. Šašinka, T. Šagát., a spol: Pediatria I., II., Herba Bratislava 2019, ISBN 978-80-89631-90-2., 1736s.
Schusterová, I.: Vybrané kapitoly z detskej kardiológie. Lekárska fakulta UPJŠ v Košiciach, 1. vyd., 2014, brož., 152 s.

Course language:
Slovak language

Notes:

Course assessment
Total number of assessed students: 2923

A	B	C	D	E	FX
27.95	27.27	21.55	12.21	10.33	0.68

Provides:

Date of last modification: 23.03.2023

Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: UFR/FA-V1/19	**Course name:** Pharmacology 1

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

Number of ECTS credits: 4

Recommended semester/trimester of the course: 6.

Course level: I.II.

Prerequisities: UFZ/FZ-V2/14 and UA/A-V3/17 or UA/A-V2/22 and ULCHBKB/LBC-V2/20

Conditions for course completion:
Written tests
Passed

Learning outcomes:
To provide students with a comprehensive introduction to the fundamental Pharmacology and uses of the major classes of drugs currently used in medical practice.

Brief outline of the course:
Prescription of drugs, practical application. Basic pharmacology (pharmacokinetic and pharmacodynamic principles), factors influencing drug effects, routes of drg application.
Special pharmacology including drugs affecting the autonomic nervous system, myorelaxants and ganglioplegic drugs, drugs affecting CNS (drugs used to treat psychiatric disorders, antiepileptics, antiparkinson drugs, hypnotics).

Recommended literature:
Whalen K et al.: Lippincott Illustrated Reviews: Pharmacology 7th edition, 2019
Ritter JM et al.: Rang & Dale's Pharmacology, 2019

Course language:

Notes:

Course assessment
Total number of assessed students: 3224

abs	abs-A	abs-B	abs-C	abs-D	abs-E	neabs
49.29	16.84	14.76	10.7	5.83	2.54	0.03

Provides: prof. MUDr. Ladislav Mirossay, DrSc., prof. MVDr. Ján Mojžiš, DrSc., doc. MUDr. Martina Čižmáriková, PhD., doc. MVDr. Martina Bago Pilátová, PhD., PharmDr. Marek Šarišský, PhD., PharmDr. Zuzana Michalová, PhD., doc. MUDr. Zuzana Solárová, PhD., PharmDr. Radka Michalková, PhD., PharmDr. Natália Nosálová, Mgr. Šimon Salanci, PharmDr. Mária Gazdová, PharmDr. Viera Tischlerová, PhD., PharmDr. Alexandra Kešeľáková, Mgr. Monika Majirská, Mgr. Nikola Melegová, PhD., PharmDr. Miriam Kaňuchová

Date of last modification: 02.09.2021
Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: UFR/FA-V2/17	**Course name:** Pharmacology 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: 5

Recommended semester/trimester of the course: 7.

Course level: I.II.

Prerequisities: UFR/FA-V1/19 and UPF/PF-V1/16

Conditions for course completion:
test
exam

Learning outcomes:
To provide students with a comprehensive introduction to the fundamental Pharmacology and uses of the major classes of drugs currently used in medical practice.

Brief outline of the course:
Drugs affecting cardiovascular system and blood including cardiac glycosides, antianginal drugs, antidysrhytmic drugs, diuretics, antihypertensive drugs, lipid-lowering drugs. Drugs affecting hemostasis (anticoagulants, antiaggregatory drugs), antianemic drugs. Mechanism of action of antibiotics, resistance, classification. Penicillins. Penicillins with broader spectrum. Cephalosporins. Aminoglycosides. Tetracyclines. Macrolides, lincosamides. Sulphonamides and quinolones. Antistaphylococcal antibiotics. Antimycobacterial agents. Antiviral and antifungal drugs. Antiprotozoal and anthelmintic drugs. Antithyroid drugs. Steroids, androgens. Oral contraceptives. Corticosteroids. Antidiabetic drugs. Drug influencing of plasmatic calcium concentration. Treatment of drug poisoning. Drug interaction.

Recommended literature:
Whalen K et al.: Lippincott Illustrated Reviews: Pharmacology 7th edition, 2019
Ritter JM et al.: Rang & Dale's Pharmacology, 2019

Course language:
Slovak

Notes:

Course assessment
Total number of assessed students: 2877

A	B	C	D	E	FX
10.43	15.5	25.3	20.19	23.6	4.97

Provides: prof. MVDr. Ján Mojžiš, DrSc., prof. MUDr. Ladislav Mirossay, DrSc., doc. MVDr. Martina Bago Pilátová, PhD., PharmDr. Marek Šarišský, PhD., MVDr. Martina Zigová, PhD., doc. MUDr. Zuzana Solárová, PhD., doc. MUDr. Martina Čižmáriková, PhD., PharmDr. Natália Nosálová, PharmDr. Mária Gazdová, PharmDr. Alexandra Kešeľáková, Mgr. Nikola Melegová, PhD., PharmDr. Radka Michalková, PhD., PharmDr. Viera Tischlerová, PhD., Mgr. Šimon Salanci, Mgr. Monika Majirská, PharmDr. Miriam Kaňuchová
Date of last modification: 02.09.2021
Approved: prof. MUDr. Daniel Pella, 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: 284	
abs	n
99.65	0.35
Provides: doc. PhDr. Kristína Bosáková, PhD.	
Date of last modification: 17.09.2020	
Approved: prof. MUDr. Daniel Pella, PhD.	

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: KFBLR/FBLR-V/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-V2/14 or UA/A-V2/22

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:
Defining the basic concepts of physical therapy and rehabilitation. Evaluation of basic functional findings of individual organ systems, with legal interpretation of findings. Rationally indicate consultative examinations in the field as well as simple forms of physical therapy and rehabilitation procedures.

Brief outline of the course:
Concepts in rehabilitation, definitions in rehabilitation medicine. International Classification of Function, Disability and Health (ICFH) Clinical investigation and problem-oriented approach . Specifics of the approach in rehabilitation, benefits, evaluation of the effect of rehabilitation.Musculoskeletal examination
Rehabilitation team, principles of comprehensive rehabilitation.Examination of motor function. General principles of physical medicine.Methods and concepts of physical therapy. General principles of compensatory rehabilitation.Rehabilitation strategies. Modalities of physical medicine.Classification of modalities according to energy used and primary effect. Movement therapy, benefits, mechanisms,
limitations.Strengthening exercises, active assisted movements, passive movement. Rehabilitation treatment in myoskeletal medicine. Kinesiology and clinical examination of the musculoskeletal system.

Recommended literature:
Kolář P, Máček M.Základy klinické rehabilitace, Galén, 2021
Navrátil L. a kol.Fyzikální léčebné metody pro praxi , Grada, 2019

TAKÁČ, P Klinická propedeutika v rehabilitácii pre poslucháčov lekárskej fakulty. Košice, UPJŠ, 2006, 230 s, ISBN 80-7097-634-9., 2006

Course language:

Notes:

Course assessment
Total number of assessed students: 2340

A	B	C	D	E	FX
94.02	5.34	0.21	0.0	0.13	0.3

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

Date of last modification: 07.03.2023

Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: UFZ/FZ-V1/17	**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: 6

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. Thermoregulation.

Recommended literature:
Elsevier. Guyton and Hall. 14. editiion
Linda S. Costanzo Physiology 6th Edition, (5th, 4th)
Ganong's Review of Medical Physiology, Twenty sixth Edition 26th Edition (25th, 24th)
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: 3145

abs	abs-A	abs-B	abs-C	abs-D	abs-E	neabs
53.1	0.89	5.41	10.87	13.35	15.99	0.38

Provides: prof. MUDr. Viliam Donič, CSc., prof. RNDr. Pavol Švorc, CSc., prof. MUDr. Mária Pallayová, PhD., MUDr. Ivana Bačová, PhD., doc. MVDr. Agnesa Lukačínová, PhD., RNDr.

Judita Štimmelová, PhD., RNDr. Soňa Grešová, PhD., MUDr. Andrea Brandeburová, PhD., MUDr. Martina Gáborová, PhD., Mgr. Diana Tokárová, PhD., MUDr. Igor Peregrim, PhD., RNDr. Martin Bona, PhD.
Date of last modification: 28.02.2023
Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: UFZ/FZ-V2/14	**Course name:** Physiology 2

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: 8

Recommended semester/trimester of the course: 4.

Course level: I.II.

Prerequisities: ULBF/LBF-V/22 and UFZ/FZ-V1/22

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 understand the interrelationships of the functions of individual systems with regulatory mechanisms in a healthy person, the understanding of which 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 thus returning to the physiological norm.

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

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: 3376

A	B	C	D	E	FX
24.47	17.59	17.18	14.25	20.82	5.69

Provides: prof. MUDr. Viliam Donič, CSc., prof. RNDr. Pavol Švorc, CSc., prof. MUDr. Mária Pallayová, PhD., MUDr. Ivana Bačová, PhD., doc. MVDr. Agnesa Lukačínová, PhD., RNDr. Soňa

Grešová, PhD., RNDr. Judita Štimmelová, PhD., MUDr. Andrea Brandeburová, PhD., MUDr. Martina Gáborová, PhD., Mgr. Diana Tokárová, PhD., MUDr. Igor Peregrim, PhD., RNDr. Martin Bona, PhD.
Date of last modification: 28.02.2023
Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: IK/ PMV-V/16	**Course name:** Poruchy metabolizmu výživy

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:

Conditions for course completion:
active participation in the exercises, final test of at least 50%

Learning outcomes:
classified credit

Brief outline of the course:
The course Disorders of Metabolism and Nutrition deals comprehensively with the basic disorders of metabolism and nutrition encountered in clinical practice. It is suitable for students interested in dietetics, diabetology and endocrinology with overlap into other specialties of internal medicine and critical care medicine.

Recommended literature:
1. Miriam Kozárová: Novinky v diabetológii a lipidológii, ŠafárikPress, 2020
https://unibook.upjs.sk/sk/diabetologia/1437-novinky-v-diabetologii-a-lipidologii
2. Ingrid Dravecká: Vyšetrovacie metódy v diabetológii ŠafárikPress, 2015
https://unibook.upjs.sk/sk/medicina/119-vysetrovacie-metody-v-diabetologii-300843
3. Lucia Dimunová: Dietológia a liečebná výživa I. ŠafárikPress, 2018

Course language:
slovak

Notes:

Course assessment
Total number of assessed students: 8

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:

Date of last modification: 23.03.2023

Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: CJP/ LFPAJ/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., 5.

Course level: I., I.II.

Prerequisities:

Conditions for course completion:
Active participation in class, completed homework assignments, two missed classes at the most (i.e. two 45 minute classes).
3 verbal presentations (a brief presentation of a product/person - 30%, a conference presentation - 40%, and a patient presentation - 30%).
Final evaluation = the average obtained
Final exam = test.
Final grade will be calculated as follows: 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
Structure of presentations
Presentation of data
Graphs and figures
Case presentation
Doctor's ward round

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.
Powel, M.: Dynamic Presentations. CUP, 2010.
Armer, T.: Cambridge English for Scientists. CUP, 2011.

Course language:
English language (B1, B2 level according to CEFR)

Notes:

Course assessment
Total number of assessed students: 22

A	B	C	D	E	FX
86.36	9.09	0.0	0.0	4.55	0.0

Provides: Mgr. Viktória Mária Slovenská

Date of last modification: 11.03.2022

Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: IK/PM-V/09	**Course name:** Preventive 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: 1

Recommended semester/trimester of the course: 8.

Course level: I.II.

Prerequisities: IK/IM-V2/19

Conditions for course completion:

Learning outcomes:

Brief outline of the course:

Recommended literature:

Course language:

Notes:

Course assessment
Total number of assessed students: 2914

abs	abs-A	abs-B	abs-C	abs-D	abs-E	neabs
59.2	18.57	8.75	7.45	3.81	2.2	0.03

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

Date of last modification: 04.08.2021

Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: 1. PK/ PT-V1/18	**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: 3

Recommended semester/trimester of the course: 8.

Course level: I.II.

Prerequisities: 1. PK/PMK-V/20 and UPF/PF-V1/16 and UFR/FA-V1/19

Conditions for course completion:

Learning outcomes:

Brief outline of the course:

Recommended literature:

Course language:

Notes:

Course assessment
Total number of assessed students: 2759

abs	abs-A	abs-B	abs-C	abs-D	abs-E	neabs
57.19	15.77	11.74	7.58	4.75	2.94	0.04

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

Date of last modification: 26.02.2019

Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: 1. PK/ PT-V2/18	**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-V1/22

Conditions for course completion:
1. 90 percent active participation in practical exercises, in the absence of a substitute for a maximum of three practical exercises per semester and 50 percent attendance at lectures
2. Active participation in practical exercises, continuous assessment of knowledge, successful completion of the written test - at least 60 percent
3. Practical test and theoretical exam

Learning outcomes:
Familiarization with psychopathology, diagnosis and therapy of mental disorders in relation to individual nosological groups of disorders, therapy in psychiatry, interdisciplinary aspect of psychiatry

Brief outline of the course:
- schizophrenic disorders
- affective mental disorders
- -organic mental disorders, including symptomatic mental disorders
- Anxiety disotrders, stress related disorders
- psychiatric problems of drug addiction
- personality disorders
- pedopsychiatry, adolescent psychiatry
- gerontopsychiatry
- psychiatric sexuology
- biological treatment in psychiatry
- psychopharmacology
- psychotherapy, psychoeducation, rehabilitation in psychiatry
- social psychiatry
- legal and ethic issues in psychiatry, forensic psychiatry

Recommended literature:
Kolibáš, E. Príručka klinickej psychiatrie. Psychoprof: 2010, ISBN 978-80-89322-05-3 Kolibáš, E. a kol., Všeobecná psychiatria. UK: 2007, ISBN 978-80-223-2388-8 Novotný, V. a kol., Špeciálna psychiatria. UK: 2010, ISBN 978-80-223-2624-7

Psychiatrie a pedopsychiatrie, Hosák Ladislav - Hrdlička Michal - Libiger Jan a kol. Karolinum 2015, 648 pp.
ISBN 9788024629988

Course language:
Slovak language

Notes:

Course assessment
Total number of assessed students: 2901

A	B	C	D	E	FX
76.32	14.62	6.86	1.72	0.48	0.0

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

Date of last modification: 20.03.2023

Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: 1. PK/ PMK-V/20	**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: 2

Recommended semester/trimester of the course: 6.

Course level: I.II.

Prerequisities: ULBL/BL-V2/12 and UFZ/FZ-V2/14

Conditions for course completion:

Learning outcomes:

Brief outline of the course:

Recommended literature:

Course language:

Notes:

Course assessment
Total number of assessed students: 2832

A	B	C	D	E	FX
63.67	22.6	9.82	2.86	0.78	0.28

Provides: PhDr. Martina Chylová, PhD., Mgr. Lenka Abrinková, PhD., Mgr. Jana Schrötter, PhD.

Date of last modification: 05.04.2022

Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: 1. PK/ PTR-V/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/PMK-V/22 and UFZ/FZ-V2/14

Conditions for course completion:
1. Compulsory attendance on at least 90 % of all of practicals held during semester.
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, psychodynamic, cognitive-behavioral, gestalt, Rogers, and training procedures. Possibilities and limits of psychotherapy in psychiatry and other medical settings, verbal and nonverbal communication. Principles of effective communication. Communication in specific situations regarding clinical practice. Managing of problematic interpersonal situations.

Brief outline of the course:
Brief outline of the course:
• Psychotherapy as profession, its history, theoretical application disciplines
• Psychotherapy – basic theories
• Psychotherapy – basic approaches
• Basic psychotherapeutic methods depending on type of mental disorder
• Psychotherapeutic interview, screening
• Verbal and nonverbal communication
• Principles of effective communication
• Communication in specific situations in clinical practice of medical doctor
• Managing of problematic interpersonal situations.

Recommended literature:
Kratochvíl S.: Základy psychoterapie (5.vydanie), Portál, 2006. 384 s., ISBN: 80-7367-122-0
Trenckmann U.: Psychiatria a psychoterapia, vyd. F, Trenčín, 2005
Beck D.: Krátkodobá psychoterapia, F, 2005
Praško J.: Skupinová kognitívne – behaviorálni terapie,PCP, Praha 1998

Course language:
Slovak language

Notes:

Course assessment
Total number of assessed students: 252

A	B	C	D	E	FX
96.83	2.78	0.4	0.0	0.0	0.0

Provides: Mgr. MUDr. Jozef Dragašek, PhD., MHA, PhDr. Martina Chylová, PhD., MUDr. Zuzana Vančová, PhD., Mgr. Lenka Abrinková, PhD.

Date of last modification: 17.03.2023

Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Medicine	
Course ID: KRZM/ R-V/14	**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: 7.

Course level: I.II.

Prerequisities:

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. Muchová T., Rádiológia pre lekárske fakulty - vysokoškolské učebne texty (2. prepracované vydanie), Košice, 2021, ISBN 978-80-8152-970-2
2. Muchová T., Rádiodiagnostika ochorení pečene, žlčníka, žlčových ciest a pankreasu - vysokoškolské učebné texty, Košice, 2021, ISBN 978-80-8152-971-9
3. Muchová, T., Živčák, J., Rádiologické zobrazovacie metódy. Diagnostické prístroje - princíp a ich využitie, Košice, 2018, ISBN 978-80-553-3242-0
4. Muchová T., Rádiológia pre medikov – vysokoškolské učebné texty UPJŠ LF, 2017, ISBN 978-80-8125-520-9
5. Heřman M., Základy rádiológie, Univerzita Palackého v Olomouci, 2014, ISBN 978-80-244-2901-4
6. Bilický J., et al., Rádiológia I. Všeobecná časť, Veda, 2011, ISBN 978-89-224-1195-0
7. Bilický J., et al., Špeciálna časť 1. Hrudník: pľúca, srdce, mamodiagnostika; Veda, 2012, ISBN 978-80-224-1244-5
8. Bilický J., et al., Rádiológia. Špeciálna časť 2. GIT – Ezofagus, žalúdok, tenké črevo, hrubé črevo, hepar, žlčové cesty a žlčník, pankreas, slezina; Veda, 2012, ISBN 978-80-224-1245-2
9. Bilický J., et al., Rádiológia. Špeciálna časť 3. Urorádiológia., Veda, 2012,

ISBN 978-80-224-1246-9
10. Bilický J., et al., Rádiológia. Špeciálna časť 4. Muskuloskeletálny systém, Veda, 2012, ISBN 978-80-224-1247-6
11. Bilický J., et al., Rádiológia. Špeciálna časť 5. Neurorádiológia, Veda, 2012, ISBN 978-80-224-1248-3
12. Bilický J., et al., Rádiológia. Špeciálna časť 6. Intervenčná rádiológia, Veda, 2012, ISBN 978-80-224-1249-0
13. Adam A., et al., Grainger & Allison´s Diagnostic Radiology, 6th Edition, Churchill Livingstone Elsevier, 2015, ISBN 978-0-7020-4295-9, e-book ISBN 978-0-7020-6128-8
14. Geschwind J., et al. Abrams´ Angiography: Interventional Radiology – 3rd edition, Lippincott Williams & Wilkins, 2013, ISBN13 978-1609137922
15. Zeleňák K., et. al., Radiology Imaging Techniques of Brain Tumours, InTech, 2013, DOI 10.5772/53470
https://www.intechopen.com/books/clinical-management-and-evolving-noveltherapeutic-strategies-for-patients-with-brain-tumors/radiology-imaging-techniquesof-brain-tumours
16. Krajina A., et al., Therapeutic Embolization of Cranial Tumors, Diagnostic Techniques an Surgical Management of Brain Tumors, inTech, 2011, DOI 10.5772/19639
https://www.intechopen.com/books/diagnostictechniques-and-surgical-managementof-brain-tumors/therapeutic-embolization-of-cranial-tumors

Course language:
Slovak language

Notes:

Course assessment
Total number of assessed students: 3018

A	B	C	D	E	FX
29.62	25.78	18.16	14.65	11.07	0.73

Provides: MUDr. Tatiana Muchová, PhD., MPH, MBA, MUDr. Tatiana Špakovská, PhD., Mgr. MUDr. René Hako, PhD., MHA, MPH, MUDr. Katarína Kriegerová, PhD., MUDr. Maroš Rudnay, PhD., MUDr. Nora Lešková

Date of last modification: 06.03.2023

Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: KRO/ RKO-V1/14	**Course name:** Radiotherapy and Clinical Oncology 1

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: 1

Recommended semester/trimester of the course: 9.

Course level: I.II.

Prerequisities: KNM/NM-V/14 and KRZM/R-V/14

Conditions for course completion:

Learning outcomes:

Brief outline of the course:

Recommended literature:

Course language:

Notes:

Course assessment
Total number of assessed students: 2513

abs	abs-A	abs-B	abs-C	abs-D	abs-E	neabs
55.79	43.77	0.12	0.0	0.0	0.28	0.04

Provides: MUDr. Igor Andrašina, CSc., MUDr. Valer Kováč, PhD., MUDr. Dominik Šafčák, PhD.

Date of last modification: 03.05.2015

Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: KRO/ RKO-V2/14	**Course name:** Radiotherapy and Clinical Oncology 2

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: KRO/RKO-V1/14

Conditions for course completion:

Learning outcomes:

Brief outline of the course:

Recommended literature:

Course language:

Notes:

Course assessment
Total number of assessed students: 2671

A	B	C	D	E	FX
45.11	28.75	18.31	6.29	1.54	0.0

Provides: MUDr. Valer Kováč, PhD., MUDr. Igor Andrašina, CSc., MUDr. Dominik Šafčák, PhD.

Date of last modification: 03.05.2015

Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: KDaD/ ZCH-V/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/LBC-V2/20 and UPF/PF-V2/16

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. Lebl , J. a kol.: Dětská endokrinologie a diabetologie, Praba, Galén, 2016
2. Fernandes, J. a kol.: Diagnostika a léčba dědičných metabolických poruch, Praha Triton, 2008, český preklad S. Šťastná
3. Komárek, V. a kol.: Dětská neurologie, Praha, Galén, 2008

Course language:
Slovak language

Notes:

Course assessment
Total number of assessed students: 4

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. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: UO/RK-V/12	**Course name:** Rhetoric and Communication

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., 5.

Course level: I.II.

Prerequisities:

Conditions for course completion:
Successful completion of continuous study checks and final exam. Detailed conditions for completing the course are annually updated on the electronic bulletin board AiS2 and on the website of the Institute of Nursing. Link to the Conditions for completing the course on the website of the Institute of Nursing https://www.upjs.sk/public/media/8671/SJ_Retorika%20a%20komunikacia_absol.pdf

Learning outcomes:
To learn the theoretical background in the field of medical professional communication, to acquire professional communication skills related to verbal and non-verbal aspects of communication.

Brief outline of the course:
Linguistic means in communication. The importance of communication in medicine. Non-verbal communication and its importance. Categorization of non-verbal expressions. Proxemics and territoriality, mimicry. Gestures, haptics, postural, kinetics. Image of communicants. Verbal communication.Requirements for the physician's speech. Paralinguistic aspects of speech - their importance. Conversation - dialogue in doctor-patient interaction. Basic communication skills of a doctor. Problematic situations between the medical professional and patients. Intercultural aspects of communication in medicine. Empathy, its meaning and forms. Assertive behaviour. Specifics of communication with a handicapped patient and a group of patients with problematic behaviour. Specifics and rules of communication in some branches of medicine.

Recommended literature:
Basic literature:
BEDNAŘÍK, A., ANDRÁŠIOVÁ, M. Komunikace s nemocným. Grada, 2020.
MOROVICSOVÁ, E. Komunikácia v medicíne. Univerzita Komenského Bratislava, 2014.
SUCHANOVÁ, R., DIMUNOVÁ, L.. Komunikácia v zdravotníckej praxi. UPJŠ v Košiciach, 2020.
Further study literature:
PLEVOVÁ, I., SLOWÍK, R. Komunikace s dětským pacientem. Grada, 2010.
PTÁČEK, R., BARTŮNEK, P. a kol. Etika a komunikace v medicíne. Grada, 2011.
ROSENBERG, M. B. Nenásilná komunikace. Portál, 2016.

Course language:

Notes:

Course assessment
Total number of assessed students: 335

A	B	C	D	E	FX
26.87	25.07	28.06	17.01	2.69	0.3

Provides: PhDr. Renáta Suchanová, PhD.

Date of last modification: 10.03.2023

Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: KKF/ LFVKDM/11	**Course name:** Selected Topics in History of Medicine

Course type, scope and the method:
Course type: Lecture
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., 5.

Course level: I.II.

Prerequisities:

Conditions for course completion:

Learning outcomes:

Brief outline of the course:

Recommended literature:

Course language:

Notes:

Course assessment
Total number of assessed students: 800

A	B	C	D	E	FX
21.25	32.38	21.88	15.63	8.5	0.38

Provides: prof. PhDr. František Šimon, CSc.

Date of last modification: 27.04.2021

Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: Dek. LF UPJŠ/DS-VL1/17	**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: 30s
Course method: present

Number of ECTS credits: 1

Recommended semester/trimester of the course: 7.

Course level: I.II.

Prerequisities:

Conditions for course completion:

Learning outcomes:

Brief outline of the course:

Recommended literature:

Course language:

Notes:

Course assessment
Total number of assessed students: 2565

abs	abs-A	abs-B	abs-C	abs-D	abs-E	neabs
99.45	0.47	0.0	0.0	0.0	0.04	0.04

Provides: Mgr. Iveta Rajničová Nagyová, PhD., Mgr. Alexandra Husivargová, Mgr. Pavol Mikula, PhD., Mgr. Vladimíra Timková, PhD., MUDr. Zuzana Katreniaková, PhD., RNDr. Helena Mičková, PhD., doc. RNDr. Peter Solár, PhD., RNDr. Martina Šemeláková, PhD., prof. RNDr. Ján Šalagovič, PhD., prof. PhDr. Anna Bérešová, PhD., RNDr. Eva Slabá, PhD.

Date of last modification: 07.04.2017

Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: Dek. LF UPJŠ/DS-VL2/12	**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: 30s
Course method: present

Number of ECTS credits: 2

Recommended semester/trimester of the course: 8.

Course level: I.II.

Prerequisities:

Conditions for course completion:

Learning outcomes:

Brief outline of the course:

Recommended literature:

Course language:

Notes:

Course assessment
Total number of assessed students: 2552

abs	abs-A	abs-B	abs-C	abs-D	abs-E	neabs
99.1	0.74	0.04	0.0	0.0	0.0	0.12

Provides: MUDr. Marek Horňák, MUDr. Zuzana Katreniaková, PhD., prof. RNDr. Ján Šalagovič, PhD., doc. RNDr. Peter Solár, PhD., RNDr. Martina Šemeláková, PhD., RNDr. Helena Mičková, PhD., RNDr. Eva Slabá, PhD., Mgr. Vladimíra Timková, PhD.

Date of last modification: 03.05.2015

Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: Dek. LF UPJŠ/DS-VL3/12	**Course name:** Seminar of Diploma Thesis 3

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:

Learning outcomes:

Brief outline of the course:

Recommended literature:

Course language:

Notes:

Course assessment
Total number of assessed students: 2747

abs	abs-A	abs-B	abs-C	abs-D	abs-E	neabs
99.45	0.44	0.0	0.0	0.0	0.0	0.11

Provides: MUDr. Zuzana Katreniaková, PhD., prof. PhDr. Anna Bérešová, PhD., Mgr. Július Evelley, MVDr. Marcela Linková, PhD., Mgr. Pavol Mikula, PhD., Mgr. Marta Nemčíková, PhD., Mgr. Iveta Rajničová Nagyová, PhD., Mgr. Jana Bučková, Mgr. Laura Kundrátová

Date of last modification: 19.10.2021

Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: Dek. LF UPJŠ/DS-VL4/12	**Course name:** Seminar of Diploma Thesis 4

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:

Learning outcomes:

Brief outline of the course:

Recommended literature:

Course language:

Notes:

Course assessment
Total number of assessed students: 2706

abs	abs-A	abs-B	abs-C	abs-D	abs-E	neabs
99.37	0.52	0.0	0.0	0.0	0.0	0.11

Provides: MUDr. Marek Horňák, MUDr. Zuzana Katreniaková, PhD., doc. RNDr. Peter Solár, PhD., prof. RNDr. Ján Šalagovič, PhD., RNDr. Martina Šemeláková, PhD., RNDr. Eva Slabá, PhD.

Date of last modification: 19.05.2022

Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: USBM/ SM-V/14	**Course name:** Social Medicine

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

Number of ECTS credits: 3

Recommended semester/trimester of the course: 2.

Course level: I.II.

Prerequisities:

Conditions for course completion:
1. Participation in at least 10 practicals and participation in at least 3 lectures.
2. Successful presentation of the selected topic (minimum 20 points).
3. Successful completion of the final test (minimum 31 points).
Last update: https://www.upjs.sk/app/uploads/sites/9/2022/11/USBM_UP_Pr-Cv_VL-1_SM_2022-03-16.pdf.
Conditions for passing the course: Successful completion of the final exam.
Final assessment (examination): presentation of the selected topic and final test.

Learning outcomes:
To provide students with evidence-based knowledge of selected health determinants with an emphasis on social determinants, behavioral determinants and health care, with the aim of gaining a deeper understanding of their positive and negative effects on individual and population health. After completing the course, students will better orient themselves in trends in the development of the population health status, become familiar with approaches to health and disease at the population level, with health care systems and current challenges in the field of health at the national, international and global level. They will know the main social causes and consequences of diseases and their importance in the process of effective diagnosis, treatment and follow-up care

Brief outline of the course:
Determinants of health: social, behavioral, and health care; Healthcare systems, healthcare organization and integrated care; Health promotion and protection; Disease prevention; Global health: urbanization, migration, population aging; Family, dysfunctional family, child abused and neglect syndrome, domestic violence; Health and social consequences of substance and non-substance addictions; Specifics of health and social care for persons with physical, sensory and mental disabilities; Specifics of health and social care for Roma, immigrants, elderly and terminally ill persons; Unemployment and homelessness as a health and social problem; Social assistance to persons in an unfavorable life situation.
The current timetable for the given semester is published on the website of the Institute of Social and Behavioral Medicine: https://www.upjs.sk/lekarska-fakulta/ustav/socialna-a-behavioralna-medicina/vyucba/predmety/dr/

Recommended literature:

Základná študijná literatúra:
NAGYOVA, I., KATRENIAKOVA, Z. (eds.). Textbook of Social Medicine. SafarikPress Publishing, Kosice 2019.
MZ SR. Strategický rámec starostlivosti o zdravie pre roky 2014 – 2030. Dostupné online: http://www.health.gov.sk/Zdroje?/Sources/Sekcie/IZP/strategicky-ramec-starostlivosti-o-zdravie2014-2030.pdf
MPSVaR SR. Správa o sociálnej situácii obyvateľstva Slovenskej republiky za predchádzajúci kalendárny rok. Dostupné online: https://www.employment.gov.sk/sk/ministerstvo/vyskum-oblasti-prace-socialnych-veci-institut-socialnej-politiky/spravy-soc-situacii.html
OZOROVSKÝ, V. a kol. Sociálne lekárstvo. SAP - Slovak Academic Press, 2019, 226 s.
Ďalšia študijná literatúra:
HLAVATÝ, T. a kol. Správa o stave zdravotníctva na Slovensku. MZ SR, Bratislava 2011, 240 s. ISBN 978-80-969507-9-9. Dostupné online: http://www.health.gov.sk/Clanok?sprava-o-stave-zdravotnictva-na-slovensku
VÁGNEROVÁ, M. Psychopatológie pro pomáhající profese. 4. vyd. Praha: Portál, 2008, 872 s. ISBN 978-80- 7367-414-4.
BREZNOŠČÁKOVÁ D. Spolu to zvládneme!: edukačný materiál o mánii - súčasti bipolárnej afektívnej poruchy. Bratislava: Zuzana Čičelová, 2013, ISBN 9788089434206, 64 s.

Course language:
Slovak

Notes:
Estimated student time burden: 78 hours of which
full-time study (L, Pr) 42 hours,
presentation preparation 12 hours,
self-study 12 hours

Course assessment
Total number of assessed students: 3659

A	B	C	D	E	FX
44.3	37.06	14.4	3.03	1.04	0.16

Provides: Mgr. Iveta Rajničová Nagyová, PhD., MUDr. Zuzana Katreniaková, PhD., MVDr. Marcela Linková, PhD., Mgr. Pavol Mikula, PhD., Mgr. Marta Nemčíková, PhD., MUDr. Jana Kollárová

Date of last modification: 25.05.2023

Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

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

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

Number of ECTS credits: 2

Recommended semester/trimester of the course: 1.

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

Prerequisities:

Conditions for course completion:
Min. 80% of active participation in classes.

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

Brief outline of the course:
Brief outline of the course:
Within the optional subject, the Institute of Physical Education and Sports of Pavol Jozef Šafárik University provides for students the following sports activities: aerobics, aikido, basketball, badminton, body form, bouldering, floorball, yoga, power yoga, pilates, swimming, body-building, indoor football, S-M systems, step aerobics, table tennis, tennis, volleyball and chess.
In the first two semesters of the first level of education students will master basic characteristics and particularities of individual sports, motor skills, game activities, they will improve level of their physical condition, coordination abilities, physical performance, and motor performance fitness. Last but not least, the important role of sports activities is to eliminate swimming illiteracy and by means of a special program of medical physical education to influence and mitigate unfitness.
In addition to these sports, the Institute offers for those who are interested winter and summer physical education trainings with an attractive program and organises various competitions, either at the premises of the faculty or University or competitions with national or international participation.

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

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

Course language:
Slovak language

Notes:

Course assessment
Total number of assessed students: 14548

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

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

Date of last modification: 29.03.2022

Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

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

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

Number of ECTS credits: 2

Recommended semester/trimester of the course: 2.

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

Prerequisities:

Conditions for course completion:
active participation in classes - min. 80%.

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

Brief outline of the course:
Within the optional subject, the Institute of Physical Education and Sports of Pavol Jozef Šafárik University provides for students the following sports activities: aerobics, aikido, basketball, badminton, body form, bouldering, floorball, yoga, power yoga, pilates, swimming, body-building, indoor football, S-M systems, step aerobics, table tennis, tennis, volleyball and chess.
In the first two semesters of the first level of education students will master basic characteristics and particularities of individual sports, motor skills, game activities, they will improve level of their physical condition, coordination abilities, physical performance, and motor performance fitness. Last but not least, the important role of sports activities is to eliminate swimming illiteracy and by means of a special program of medical physical education to influence and mitigate unfitness.
In addition to these sports, the Institute offers for those who are interested winter and summer physical education trainings with an attractive program and organises various competitions, either at the premises of the faculty or University or competitions with national or international participation.

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

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

Course language:
Slovak language

Notes:

Course assessment
Total number of assessed students: 13211

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

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

Date of last modification: 29.03.2022

Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

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

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

Number of ECTS credits: 2

Recommended semester/trimester of the course: 3., 5., 7., 9.

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

Prerequisities:

Conditions for course completion:
min. 80% of active participation in classes

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

Brief outline of the course:
Within the optional subject, the Institute of Physical Education and Sports of Pavol Jozef Šafárik University provides for students the following sports activities: aerobics, aikido, basketball, badminton, body form, bouldering, floorball, yoga, power yoga, pilates, swimming, body-building, indoor football, S-M systems, step aerobics, table tennis, tennis, volleyball and chess.
In the first two semesters of the first level of education students will master basic characteristics and particularities of individual sports, motor skills, game activities, they will improve level of their physical condition, coordination abilities, physical performance, and motor performance fitness. Last but not least, the important role of sports activities is to eliminate swimming illiteracy and by means of a special program of medical physical education to influence and mitigate unfitness.
In addition to these sports, the Institute offers for those who are interested winter and summer physical education trainings with an attractive program and organises various competitions, either at the premises of the faculty or University or competitions with national or international participation.

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

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

Course language:
Slovak language

Notes:

Course assessment
Total number of assessed students: 8879

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

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

Date of last modification: 29.03.2022

Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

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

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

Number of ECTS credits: 2

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

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

Prerequisities:

Conditions for course completion:
min. 80% of active participation in classes

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

Brief outline of the course:
Within the optional subject, the Institute of Physical Education and Sports of Pavol Jozef Šafárik University provides for students the following sports activities: aerobics, aikido, basketball, badminton, body form, bouldering, floorball, yoga, power yoga, pilates, swimming, body-building, indoor football, S-M systems, step aerobics, table tennis, tennis, volleyball and chess.
In the first two semesters of the first level of education students will master basic characteristics and particularities of individual sports, motor skills, game activities, they will improve level of their physical condition, coordination abilities, physical performance, and motor performance fitness. Last but not least, the important role of sports activities is to eliminate swimming illiteracy and by means of a special program of medical physical education to influence and mitigate unfitness.
In addition to these sports, the Institute offers for those who are interested winter and summer physical education trainings with an attractive program and organises various competitions, either at the premises of the faculty or University or competitions with national or international participation.

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

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

Course language:
Slovak language

Notes:

Course assessment
Total number of assessed students: 5628

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

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

Date of last modification: 29.03.2022

Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: 1. IK/ TL-V/19	**Course name:** Sports 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: IK/IM-V1/16

Conditions for course completion:

Learning outcomes:

Brief outline of the course:

Recommended literature:

Course language:

Notes:

Course assessment
Total number of assessed students: 2778

abs	abs-A	abs-B	abs-C	abs-D	abs-E	neabs
57.13	42.62	0.0	0.0	0.0	0.25	0.0

Provides: prof. MUDr. Daniel Pella, PhD., MUDr. Peter Horváth, MUDr. Peter Polan, PhD., MPH

Date of last modification: 04.08.2021

Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: Dek. LF UPJŠ/SVOC/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., I.II., II.

Prerequisities:

Conditions for course completion:

Learning outcomes:

Brief outline of the course:

Recommended literature:

Course language:

Notes:

Course assessment
Total number of assessed students: 142

abs	abs-A	abs-B	abs-C	abs-D	abs-E	neabs
96.48	3.52	0.0	0.0	0.0	0.0	0.0

Provides:

Date of last modification: 03.05.2015

Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Medicine	
Course ID: ChK/ CH-SS-V/18	**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/CH-V6/18 and ChK/OPCH-V/16 and UFR/FA-V2/17 and KORLaF/ORL-V/14 and OK/OF-V/13 and USL/SLMP-V/19 and 1. KAIM/AIM-V/20	
Conditions for course completion:	
Learning outcomes:	
Brief outline of the course:	
Recommended literature:	
Course language:	
Notes:	

Course assessment
Total number of assessed students: 2667

A	B	C	D	E	FX
28.8	25.72	25.16	12.86	7.24	0.22

Provides:
Date of last modification: 16.05.2022
Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: ChK/ CHP-V/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: UA/A-V2/22 or UA/A-V2/14 and UHE/HE-V2/17

Conditions for course completion:
I. 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
II. 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:

Jaroslav Siman a kolektív: Princípy chirurgie - Vydavateľstvo: Slovak Academic Press, 2007,
Zeman,M. a kol. : Chirurgická propedeutika, Grada, Praha, 512s. ISBN: 978-80-247-3770-6, 2011,
Olejník,J. a kol.: Perioperačná liečebná starostlivosť 1. vyd. Bratislava : Ebner, 1999. 234 s., 1999,
Zeman,M.: Obvazová a sádrovací technika. Avicenum, Praha, 1985,
Guzanin: Vybrané kapitoly z plast. , rekonštrukčnej a estetickej chirurgie, skriptá LF UPJŠ, 2003
M. Huťan a kol.: Základy všeobecnej a špeciálnej chirurgie, UK Bratislava, Skripta, 2012.

Course language:
Slovak language

Notes:

Course assessment
Total number of assessed students: 3084

A	B	C	D	E	FX
57.81	23.99	13.16	2.82	2.01	0.19

Provides: prof. MUDr. Jozef Radoňak, CSc., MPH, doc. MUDr. Marek Šoltés, PhD., MUDr. Pavol Harbuľák, MUDr. Peter Pažinka, PhD., MPH, MUDr. Tomáš Gajdzik, PhD., MHA, MPH, MUDr. Lucia Sukovská Lakyová, PhD., prof. MUDr. Mária Frankovičová, PhD., prof. MUDr. Jana Kaťuchová, PhD., MBA, doc. MUDr. Jozef Belák, PhD., MUDr. Tomáš Hildebrand, PhD., MUDr. Róbert Kilík, PhD., MUDr. Róbert Šimon, PhD., MPH, MUDr. Tomáš Toporcer, PhD., MUDr. Milan Stebnický, PhD., MUDr. Milan Šudák, PhD., doc. MUDr. Vladimír Sihotský, PhD., MUDr. Jozef Voltér, MUDr. Martina Vidová Ugurbas, PhD., MPH, MUDr. Mária Kubíková, PhD., MUDr. Peter Štefanič, PhD., doc. MUDr. Martina Zavacká, PhD., MPH, prof. MUDr. František Sabol, PhD., MPH, MBA, doc. MUDr. Adrián Kolesár, PhD., MPH, MUDr. Martin Ledecký, PhD., MUDr. Lucia Mistríková, PhD., MUDr. Štefánia Mižáková, PhD., MUDr. Monika Miklóšová, doc. MUDr. Vladimír Kaťuch, PhD., MBA, MUDr. Michal Orlický, Ph.D., MBA, MUDr. Michal Chyla, PhD., MUDr. Ivan Kováč, PhD., MUDr. Adriana Mougin, MUDr. Jozef Brezina, PhD., MUDr. Kleanthia Efthymiou, MUDr. Natália Madárová, MUDr. Veronika Roškovičová, MUDr. Dušan Leško, PhD.

Date of last modification: 07.03.2023

Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: ChK/ CH-V1/16	**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: 3

Recommended semester/trimester of the course: 6.

Course level: I.II.

Prerequisities: ChK/CHP-V/15

Conditions for course completion:

Learning outcomes:

Brief outline of the course:

Recommended literature:

Course language:

Notes:

Course assessment
Total number of assessed students: 2790

abs	abs-A	abs-B	abs-C	abs-D	abs-E	neabs
56.06	32.51	7.03	2.26	1.04	1.11	0.0

Provides: MUDr. Pavol Harbuľák, MUDr. Tomáš Hildebrand, PhD., prof. MUDr. Jana Kaťuchová, PhD., MBA, MUDr. Róbert Kilík, PhD., MUDr. Lucia Sukovská Lakyová, PhD., MUDr. Peter Pažinka, PhD., MPH, prof. MUDr. Jozef Radoňak, CSc., MPH, MUDr. Martina Vidová Ugurbas, PhD., MPH, doc. MUDr. Marek Šoltés, PhD., MUDr. Milan Šudák, PhD., prof. MUDr. Mária Frankovičová, PhD., MUDr. Tomáš Gajdzik, PhD., MHA, MPH, prof. MUDr. Miroslav Kitka, PhD., doc. MUDr. Radoslav Morochovič, PhD., doc. MUDr. Vladimír Sihotský, PhD., MUDr. Peter Zavacký, PhD., MPH, MUDr. Róbert Šimon, PhD., MPH, MUDr. Štefan Ivanecký, MUDr. Juraj Podhradský, MUDr. Mária Kubíková, PhD., MUDr. Pavel Staško, PhD., MUDr. Peter Štefanič, PhD., doc. MUDr. Martina Zavacká, PhD., MPH, MUDr. Jozef Brezina, PhD., doc. MUDr. Adrián Kolesár, PhD., MPH, MUDr. Lucia Mistríková, PhD., prof. MUDr. František Sabol, PhD., MPH, MBA, MUDr. Tomáš Toporcer, PhD., MUDr. Michal Chyla, PhD., doc. MUDr. Vladimír Kaťuch, PhD., MBA, MUDr. Kleanthia Efthymiou, MUDr. Monika Miklóšová, MUDr. Jozef Voltér, MUDr. Lukáš Vaško, MUDr. Michal Virág, PhD.

Date of last modification: 04.08.2021

Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: ChK/ CH-V2/19	**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/CH-V1/22 and UP/PA-V1/22

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:
J. Pechan, S. Haruštiak, P. Kothaj, J. Vajó, J. Siman: Princípy chirurgie 3., Prima Print, 1098s., ISBN: 978-80-89017-09-6, 2013
J. Radoňak a kol.: Infekcie v dutine brušnej – diagnostika a liečba, LOGARTO s. r. o., Prvé vydanie, 336 s., ISBN 978-80-970999-5-4, 2012
Černý J. a kol.: Špeciálna chirurgia 1;2;3;4. Martin, osveta, 1865s, 1995
Ohrádka B. a kol.: Špeciálna chirurgia I;II;III;IV. Bratislava UK, 698s. Skriptá, 1994

Janík a kol.: Torachochirurgia pre medikov, skripta LF UPJŠ, Košice, 2005

Course language:
Slovak language

Notes:

Course assessment
Total number of assessed students: 2984

abs	abs-A	abs-B	abs-C	abs-D	abs-E	neabs
53.12	36.46	7.51	2.01	0.57	0.34	0.0

Provides: prof. MUDr. Jozef Radoňak, CSc., MPH, doc. MUDr. Jozef Belák, PhD., MUDr. Milan Šudák, PhD., MUDr. Lucia Sukovská Lakyová, PhD., prof. MUDr. Jana Kaťuchová, PhD., MBA, MUDr. Peter Zavacký, PhD., MPH, MUDr. Peter Pažinka, PhD., MPH, MUDr. Róbert Kilík, PhD., MUDr. Jozef Voltér, MUDr. Pavol Harbuľák, MUDr. Andrej Vrzgula, PhD., MUDr. Tomáš Gajdzik, PhD., MHA, MPH, MUDr. Marta Marcinová, PhD., MUDr. Tomáš Vasilenko, PhD., MUDr. Vít Pribula, PhD., MUDr. Radoslav Krajničák, PhD., doc. MUDr. Marek Šoltés, PhD., prof. MUDr. Mária Frankovičová, PhD., MUDr. Mária Kubíková, PhD., doc. MUDr. Vladimír Sihotský, PhD., prof. MUDr. František Sabol, PhD., MPH, MBA, MUDr. Ivan Kováč, PhD., doc. MUDr. Adrián Kolesár, PhD., MPH, MUDr. Martin Ledecký, PhD., MUDr. Lucia Mistríková, PhD., MUDr. Štefánia Mižáková, PhD., MUDr. Tomáš Toporcer, PhD., MUDr. Jozef Brezina, PhD., MUDr. Tomáš Hildebrand, PhD., MUDr. Monika Miklóšová, MUDr. Róbert Šimon, PhD., MPH, MUDr. Kleanthia Efthymiou

Date of last modification: 07.03.2023

Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Medicine	
Course ID: ChK/ CH-V3/17	**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/CH-V2/19

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:

J. Radoňak a kol.: Infekcie v dutine brušnej – diagnostika a liečba, LOGARTO s. r. o., Prvé vydanie, 336 s., ISBN 978-80-970999-5-4, 2012
J. Pechan, S. Haruštiak, P. Kothaj, J. Vajó, J. Siman: Princípy chirurgie 3., Prima Print, 1098s., ISBN: 978-80-89017-09-6, 2013
Jaroslav Siman a kolektív Princípy chirurgie - Vydavateľstvo: Slovak Academic Press, 2007
Way L.W. a kol.: Současná chirurgická diagnostika a léčba I;II. Praha, Grada, 1659 s. 1998
Černý J. a kol.: Špeciálna chirurgia 1;2;3;4. Martin, osveta, 1865s., 1995

Course language:
Slovak language

Notes:

Course assessment
Total number of assessed students: 1553

A	B	C	D	E	FX
17.58	24.08	31.55	16.42	10.05	0.32

Provides: prof. MUDr. Mária Frankovičová, PhD., prof. MUDr. Jozef Radoňak, CSc., MPH, doc. MUDr. Jozef Belák, PhD., MUDr. Milan Šudák, PhD., MUDr. Lucia Sukovská Lakyová, PhD., prof. MUDr. Jana Kaťuchová, PhD., MBA, MUDr. Peter Zavacký, PhD., MPH, MUDr. Peter Pažinka, PhD., MPH, MUDr. Tomáš Hildebrand, PhD., MUDr. Marta Marcinová, PhD., MUDr. Jozef Voltér, MUDr. Pavol Harbuľák, MUDr. Róbert Kilík, PhD., MUDr. Andrej Vrzgula, PhD., MUDr. Tomáš Gajdzik, PhD., MHA, MPH, MUDr. Vít Pribula, PhD., MUDr. Radoslav Krajničák, PhD., MUDr. Jozef Brezina, PhD., MUDr. Monika Miklóšová, MUDr. Milan Stebnický, PhD., doc. MUDr. Vladimír Kaťuch, PhD., MBA, doc. MUDr. Imrich Lukáč, CSc., MUDr. Michal Orlický, Ph.D., MBA, MUDr. Veronika Roškovičová, MUDr. Natália Madárová

Date of last modification: 07.03.2023

Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: ChK/ CH-V4/21	**Course name:** Surgery 4 (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: 9.

Course level: I.II.

Prerequisities: ChK/CH-V3/17 and UFR/FA-V2/22

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%).

Learning outcomes:
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:
1. Pokorný, J. et al.: Traumatologie, Triton 2002, ISBN 80-7254-277-X
2. Muller, M. et al.: Chirurgie pro studium a praxi, Goldstein and Goldstein 1997, ISBN 80-86094-10-3
3. Joe Southerland: McGlamrys Comprehensive Textbook of Foot and Ankle Surgery, Vydavateľstvo: Lippincott Williams & Wilkins, 2012, 2112 s., ISBN: 9780781765800

4. Ján Breza, Ján Kliment, Ladislav Valanský a kol., Všeobecná a špeciálna urológia, Univerzita Komenského v Bratislave, 2007, ISBN 978-80-223-2271-3
5. Ján Dvořáček, Marko Babjuk et al., Uroonologie, Nakladatelství Galén, Praha, 2005, ISBN 80-7262-349-4
6. Emil A. Tanagho, Jack W. McAninch, Smithova Všeobecná urológia, Osveta, Martin 2006, ISBN 0-07-139648-9
7. Alan J. Wein, Louis R. Kavoussi, Andrew C. Novick, Alan W. Partin, Craig A. Peters, Campbell-Walsh Urology, Saunders Elsevier, 2007, Internetional Edition, ISBN 13: 978-2-8089-2353-4, ISBN 10: 0-8089-2353-6, 4 zväzky
8. Nagy, V.: Praktikum z urológie, UPJŠ Košice, EQUILIBRIA, 2011, ISBN 987-80-7097-865-8, 128 S. 9. Nagy, V. Urolitiáza, 2015, UPJŠ Košice, EQUILIBRIA, ISBN 978-80-8152-256-7, 126 s.
10. Nagy, V. a kol.: Choroby penisu, 2012, UPJŠ Košice, EQUILIBRIA, ISBN 978-80-7097-913-6, 252 s.

Course language:
Slovak language

Notes:

Course assessment
Total number of assessed students: 2884

abs	abs-A	abs-B	abs-C	abs-D	abs-E	neabs
54.13	34.29	6.41	3.85	1.18	0.1	0.03

Provides: doc. MUDr. Miroslav Gajdoš, CSc., univerzitný profesor, prof. MUDr. Ladislav Valanský, PhD., prof. MUDr. Miroslav Kitka, PhD., prof. MUDr. Vincent Nagy, PhD., MPH, doc. MUDr. Gabriel Vaško, CSc., doc. MUDr. Imrich Lukáč, CSc., doc. MUDr. Marek Lacko, PhD., doc. MUDr. Radoslav Morochovič, PhD., MUDr. Ľubomír Lachváč, PhD., MUDr. Štefan Štolfa, PhD., MUDr. Štefan Ivanecký, MUDr. Martin Sarvaš, doc. MUDr. Rastislav Burda, PhD., MUDr. Peter Cibur, PhD., MUDr. Ľuboš Tomčovčík, PhD.

Date of last modification: 08.03.2023

Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: ChK/ CH-V5/18	**Course name:** Surgery 5 (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: 10.

Course level: I.II.

Prerequisities: ChK/CH-V3/17

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:
Sosna, A.: Základy ortopedie, Triton 2001, ISBN 80-7254-202-8
Zeman, M et al.: Speciální chirurgie, 2. vydání, Galén 2004, ISBN 80-7262-260-9
Základy neurochirurgie: Miroslav Gajdoš, Igor Šulla /zostavovatelia/, 1. vyd. - Košice: Univerzita Pavla Jozefa Šafárika v Košiciach, 2013. - 414 s. - ISBN 9788081520037.
Vybrané kapitoly z neurochirurgie: Igor Šulla, Ján Faguľa Miroslav Gajdoš, Marián Šanta. 2. vyd. - Košice : Lekárska fakulta UPJŠ, 1999. - 131 s. - ISBN 80-7097-383-8.
Prednášky uverejnené na portály LF UPJŠ.

Course language:
slovak

Notes:

Course assessment
Total number of assessed students: 2844

abs	abs-A	abs-B	abs-C	abs-D	abs-E	neabs
52.99	44.87	1.51	0.25	0.21	0.18	0.0

Provides: doc. MUDr. Miroslav Gajdoš, CSc., univerzitný profesor, prof. MUDr. Ladislav Valanský, PhD., prof. MUDr. Miroslav Kitka, PhD., prof. MUDr. Vincent Nagy, PhD., MPH, doc. MUDr. Gabriel Vaško, CSc., doc. MUDr. Imrich Lukáč, CSc., doc. MUDr. Radoslav Morochovič, PhD., MUDr. Juraj Podhradský, MUDr. Štefan Štolfa, PhD., MUDr. Ľubomír Lachváč, PhD., doc. MUDr. Marek Lacko, PhD., MUDr. Štefan Ivanecký, MUDr. Martin Sarvaš, doc. MUDr. Vladimír Kaťuch, PhD., MBA

Date of last modification: 12.03.2023

Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: ChK/ CH-V6/18	**Course name:** Surgery 6

Course type, scope and the method:
Course type: Practice
Recommended course-load (hours):
Per week: Per study period: 280s
Course method: present

Number of ECTS credits: 12

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

Course level: I.II.

Prerequisities: ChK/CH-V5/18 and ChK/CH-V4/21 and KRO/RKO-V2/14

Conditions for course completion:

Learning outcomes:

Brief outline of the course:

Recommended literature:

Course language:

Notes:

Course assessment
Total number of assessed students: 3231

abs	abs-A	abs-B	abs-C	abs-D	abs-E	neabs
42.65	20.95	14.21	12.53	6.16	3.4	0.09

Provides: doc. MUDr. Jozef Belák, PhD., prof. MUDr. Mária Frankovičová, PhD., doc. MUDr. Miroslav Gajdoš, CSc., univerzitný profesor, MUDr. Pavol Harbuľák, MUDr. Štefan Ivanecký, prof. MUDr. Miroslav Kitka, PhD., MUDr. Mária Kubíková, PhD., MUDr. Peter Lengyel, PhD., MUDr. Juraj Podhradský, prof. MUDr. Jozef Radoňak, CSc., MPH, doc. MUDr. Vladimír Sihotský, PhD., MUDr. Milan Šudák, PhD., doc. MUDr. Eugen Frišman, PhD., MUDr. Tomáš Gajdzik, PhD., MHA, MPH, MUDr. Tomáš Hildebrand, PhD., prof. MUDr. Jana Kaťuchová, PhD., MBA, MUDr. Róbert Kilík, PhD., MUDr. Marián Kudláč, MUDr. Ľubomír Lachváč, PhD., doc. MUDr. Marek Lacko, PhD., MUDr. Lucia Sukovská Lakyová, PhD., doc. MUDr. Radoslav Morochovič, PhD., prof. MUDr. Vincent Nagy, PhD., MPH, MUDr. Milan Stebnický, PhD., doc. MUDr. Gabriel Vaško, CSc., MUDr. Martina Vidová Ugurbas, PhD., MPH, MUDr. Jozef Voltér, doc. MUDr. Martina Zavacká, PhD., MPH, MUDr. Peter Zavacký, PhD., MPH, doc. MUDr. Marek Šoltés, PhD., MUDr. Peter Štefanič, PhD., MUDr. Štefan Štolfa, PhD., MUDr. Róbert Šimon, PhD., MPH, doc. MUDr. Jozef Firment, PhD., MUDr. Ivan Kováč, 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, MUDr. Tomáš Toporcer, PhD., doc. MUDr. Rastislav Burda, PhD., MUDr. Peter Cibur, PhD., MUDr. Ľuboš Tomčovčík, PhD., doc. MUDr. Vladimír Kaťuch, PhD., MBA, doc. MUDr. Imrich Lukáč, CSc.,

MUDr. Michal Orlický, Ph.D., MBA, MUDr. Peter Polan, PhD., MPH, MUDr. Norbert Torma, PhD.
Date of last modification: 04.08.2021
Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: ChK/ TOT-V/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

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:
V. Třeška a kol.: Transplantologie pro mediky. Nakladatelství Karolinum, ISBN 80-246-0331-4, 2002
Ľ. Laca a kol.: Orgánové transplantácie. Transplantácie obličiek. Vydavateľ DALI Banská Bystrica, ISBN 80-967893-3-3, 1998
A. Ostró, F. Lešník a kol.: Biologické aspekty regeneračnej medicíny. Nakladatelství Olomouc, 2008

Course language:
Slovak language

Notes:

Course assessment
Total number of assessed students: 24

abs	abs-A	abs-B	abs-C	abs-D	abs-E	neabs
16.67	75.0	8.33	0.0	0.0	0.0	0.0

Provides: prof. MUDr. Jozef Radoňak, CSc., MPH

Date of last modification: 07.03.2023

Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: UPZMV/TKKP-V/19	**Course name:** Training of Competencies for Clinical Practice

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: 8.

Course level: I.II.

Prerequisities:

Conditions for course completion:

Learning outcomes:

Brief outline of the course:

Recommended literature:

Course language:

Notes:

Course assessment
Total number of assessed students: 2

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: Mgr. Laura Bittó Urbanová, PhD., MUDr. Jaroslav Rosenberger, PhD., PhDr. Ivana Skoumalová, PhD., doc. Mgr. Zuzana Dankulincová, PhD., Mgr. Daniela Fiľakovská, PhD., Mgr. Daniela Husárová, PhD., Mgr. Peter Kolarčik, PhD., Mgr. Jaroslava Kopčáková, PhD., prof. Mgr. Andrea Madarasová Gecková, PhD.

Date of last modification: 20.03.2023

Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: KICM/ TM-V/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-V2/14

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:

Notes:

Course assessment
Total number of assessed students: 390

A	B	C	D	E	FX
62.82	24.1	8.97	2.82	1.28	0.0

Provides: prof. MUDr. Pavol Jarčuška, PhD., prof. MUDr. Ivan Schréter, CSc., doc. MUDr. Pavol Kristian, PhD., univerzitný profesor, doc. MUDr. Zuzana Paraličová, PhD., MUDr. Ivana Hockicková, PhD., MUDr. Patrícia Denisa Lenártová, MUDr. Martin Novotný, PhD., MUDr. Štefan Porubčin, PhD., MUDr. Jakub Sekula

Date of last modification: 03.03.2023

Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: ChK/ UM-V/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/CH-V3/17 and UFR/FA-V2/22 and IK/IM-V3/22

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:
Prednášky
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:

Notes:

Course assessment
Total number of assessed students: 1478

A	B	C	D	E	FX
49.93	38.84	7.44	2.71	0.88	0.2

Provides: MUDr. Štefan Ivanecký, MUDr. Pavol Murín, PhD., MUDr. Marián Sedlák, doc. MUDr. Rastislav Burda, PhD., MUDr. Peter Cibur, PhD., MUDr. Ľuboš Tomčovčík, PhD.

Date of last modification: 08.03.2023

Approved: prof. MUDr. Daniel Pella, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Medicine

Course ID: CJP/ LFPKAJ/11	**Course name:** Written Communication in English

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

Number of ECTS credits: 2

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

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

Prerequisities:

Conditions for course completion:
Active participation in class and 1 missed class at the most (2 x 45 minutes).
Continuous assessment: 3 written assignments (to be handed in to the lecturer in weeks 5, 9 and 12).
Continuous assessment result of 60 % is a prerequisite for student's participation in the final exam test.
The final exam test accounts for 50% of the final grade and the overall result of continuous assessment represents the other 50% of the overall grade.
The final grade will be calculated as follows:
A 93-100 %, B 85-92 %, C 77-84 %, D 69-76 %, E 60-68 %, FX 59% or less.

Learning outcomes:
Students acquire knowledge of selected genres of written communication in English, their lexical and stylistic characteristics, they develop their communicative competence in written communication in English with focus on grammatical aspects and vocabulary in practice at B1 - B2 level (CEFR).

Brief outline of the course:
Formal and informal language.
Email English, formal letters, business correspondence.
Language of forms and office documents.
Abbreviations and signs, symbols, numbers.
CV, its form and structure, cover letter.
Genres of business correspondence.
Abstract and academic article.

Recommended literature:
Downes, C. (2008). Cambridge English for Job-hunting. Cambridge: CUP.
Mascull, B. (2010). Bussiness vocabulary in use. Intermediate. Cambrige: CUP.
Emmerson P. (2004) Email English. MacMillan
Glendinning,E.H.- Howard,R. (2007) Professional English in Use – Medicine, CUP
Michael McCarthy, Felicity O´Dell (2002) English Vocabulary in Use. Advanced. CUP
OXFORD Collocations dictionary for students of English (2002).

Fronek, J., Mokráň, P. (2003) Slovensko-anglický frazeologický slovník. Vyd. Nová Práca, Bratislava
Internet, noviny, časopisy, bulletiny, zdravotná dokumentácia

Course language:
English language (B1 - B2 level, CEFR)

Notes:

Course assessment
Total number of assessed students: 150

A	B	C	D	E	FX
21.33	33.33	20.0	9.33	10.0	6.0

Provides: Mgr. Zuzana Naďová

Date of last modification: 11.03.2022

Approved: prof. MUDr. Daniel Pella, PhD.