Course descriptions

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COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Medicine

Course ID:	**Course title:**
LF.KAIM1/L-VLa-051/11	Anaesthesiology and Intensive Medicine 1

Educational activities:
Type of activities: lecture / laboratory practicals
Number of hours:
per week: **per level/semester:** 12s / 15s
Form of the course: on-site learning

Number of credits: 2

Recommended semester: 7.

Educational level: I.II.

Prerequisites: LF.ÚPF/L-VLa-045/00 - Pathological Physiology 2 and LF.IK_1/L-VLa-040/11 - Internal Propedeutics and LF.ChK1/L-VLa-033/11 - Surgical Propedeutics 2

Course requirements:

Learning outcomes:

Class syllabus:
Differentiated Medical Care - place and role of Anesthesia and Intensive Care Medicine. Preoperative Evaluation and Preparation of Patients for Anesthesia and Operation. General and Special Preoperative Evaluation, Preoperative Medication. General Anesthesia, Local Anesthesia - General Principles, Distribution. Anesthetic Technique. Pharmacology of Drugs Used in Anesthesia. Monitoring, Preservation end Support (Maintenance) of Basic Life Functions in Perioperative Period, Management of Fluid and Blood Therapy. Special Anesthetic (Considerations) Proceeding in Traumatology, Obstetrics, Cardiac Surgery, Neurosurgery, Pediatric Surgery. Care of Organ Donors, Brain Death.

Recommended literature:
x Robert, K. Stoelting, Ronald D. Miller - Basics of Anesthesia

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 648

A	B	C	D	E	FX
55,71	33,33	9,26	1,39	0,31	0,0

Lecturers: MUDr. Juraj Koutun, CSc., doc. MUDr. Roman Záhorec, CSc., MUDr. Tomáš Hitka, MUDr. Marián Hargaš

Last change: 02.06.2015

Approved by: prof. MUDr. Juraj Šteňo, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Medicine

Course ID:	**Course title:**
LF.KAIM1/L-VLa-052/11	Anaesthesiology and Intensive Medicine 2

Educational activities:
Type of activities: lecture / laboratory practicals
Number of hours:
per week: **per level/semester:** 12s / 15s
Form of the course: on-site learning

Number of credits: 2

Recommended semester: 8.

Educational level: I.II.

Prerequisites: LF.KAIM1/L-VLa-051/11 - Anaesthesiology and Intensive Medicine 1

Course requirements:

Learning outcomes:

Class syllabus:
Definition and Role of Intensive Care Medicine in Differentiated Medical Care, Relation to Urgent Pre - hospital and In - hospital Care. Basic Principles of Haemodynamics, Determinants of Cardiac Output.
Assesessment of Hemodynamics and Interpretation of Basic Hemodynamic Parameters. Oxygen Transport, Monitoring and Interpretation of Oxygen Related Parameters. Mechanical Ventilation, Acute Respiratory Distress Syndrome (ARDS). Shock, MODS, Definitions, Basic of Therapy. Fluid - Elektrolyte Physiology and Basic Disorders, Acid - Base Balance. Nutrition in Intensive Care Medicine. Trauma and Intensive Care Medicine. Toxicology and Intensive Care Medicine. Selected Diseases in Several Medical Departments and Intensive Care Medicine (Surgery, Neurology, Obstetrics, Internal Medicine).

Recommended literature:
x Robert, K. Stoelting, Ronald D. Miller - Basics of Anesthesia
x Shoemaker, C. W. and al.: Pocket companion to Textbook of critical care.

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 634

A	B	C	D	E	FX
40,85	33,91	16,88	6,78	1,42	0,16

Lecturers: MUDr. Juraj Koutun, CSc., doc. MUDr. Roman Záhorec, CSc., MUDr. Tomáš Hitka, MUDr. Marian Hargaš

Last change: 02.06.2015

Approved by: prof. MUDr. Juraj Šteňo, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Medicine

Course ID:	**Course title:**
LF.AÚ/L-S-VLa-001/16	Anatomy 1

Educational activities:
Type of activities: lecture / practicals
Number of hours:
per week: **per level/semester:** 48s / 36s
Form of the course: on-site learning

Number of credits: 8

Recommended semester: 1.

Educational level: I.II.

Prerequisites:

Course requirements:
100% participation on the practical exercises
Passing 2 written tests with at least 60% from each
Test evaluation: A: 91 - 100 %, B: 81 – 90 %, C: 73 – 80 %, D: 66 – 72 %, E: 60 – 65 %, Fx: 59 – 0 %
Final mark of the semester is determined from the average of received scores.

Learning outcomes:
Knowledge:
- To be familiar with the architecture and structures of the human body (in general).
- Knowing different parts of the skeletal system and joints
- Studying structure of the organs of the alimentary, respiratory and urinary systems.

Skills:
- To understand and handle the anatomical terminology
- Analyzing of the gained knowledge from the morphological and functional point of views.
- Practical usage of theoretical information in dissection.

Class syllabus:
Introduction into anatomy. General anatomy of bones, joints and muscles. Digestive system. Respiratory system. Urinary system. Genital system.
Planes and directions of the human body. Vertebrae, ribs, sternum. Joint of the vertebral column and thorax. Bones and joints of the upper limb. Bones and joints of the lower limb. The skull.

Recommended literature:
Platzer, W. Color Atlas of Human Anatomy. Vol.1. Locomotor System. 6th rev ed. Stuttgart; New York: Georg Thieme Verlag, 2009. 480p. ISBN13 9783131494818
Fritsch, H., Kuehnel, W. Color Atlas of Human Anatomy. Vol. 2. Internal organs. 5th ed. Stuttgart; New York: Georg Thieme Verlag, 2008. 458p. ISBN13 9781604065633
Kahle, W., Frotscher M. Color Atlas of Human Anatomy. Vol. 3. Nervous System and Sensory Organs. 6th ed. Stuttgart; New York: Georg Thieme Verlag, 2008. 426p. ISBN13 9783131536761
Netter, F. H. Atlas of Human Anatomy. 5th ed. Philadelphia: Saunders - Elsevier, 2010. 624p. ISBN: 978-1-4160-5951-6

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 379

A	B	C	D	E	FX
47,49	26,65	18,47	5,28	2,11	0,0

Lecturers: doc. MUDr. Eliška Kubíková, PhD., prof. MUDr. Peter Mráz, DrSc., doc. MUDr. Anna Holomáňová, CSc., doc. RNDr. Ladislav Guller, CSc., Mgr. Katarína Bevízová, PhD., MUDr. Hisham El Falougy, PhD., MUDr. Zora Haviarová, PhD., RNDr. Petra Lukáčiková, PhD., MUDr. Petra Šelmeciová, PhD., RNDr. Melinda Takácsová, PhD., MUDr. Peter Malovec, MUDr. Marta Masárová, MUDr. Jana Jakimová, MUDr. Abdolreza Majidi, Mgr. Vladislava Zohdi, PhD., MUDr. Andrej Mifkovič, PhD., doc. RNDr. Peter Weisman, PhD.

Last change: 25.10.2016

Approved by: prof. MUDr. Juraj Šteňo, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Medicine

Course ID:	**Course title:**
LF.AÚ/L-S-VLa-002/16	Anatomy 2

Educational activities:
Type of activities: lecture / practicals
Number of hours:
per week: **per level/semester:** 48s / 54s
Form of the course: on-site learning

Number of credits: 10

Recommended semester: 2.

Educational level: I.II.

Prerequisites: LF.AÚ/L-S-VLa-001/16 - Anatomy 1

Course requirements:
Course requirements:
100% participation on the practical exercises
Passing 2 written tests with at least 60% from each
Test evaluation: A: 91 - 100 %, B: 81 – 90 %, C: 73 – 80 %, D: 66 – 72 %, E: 60 – 65 %, Fx: 59 – 0 %
Practical examination From all structures, organs and spaces of thorax and abdomen
Final mark of the semester is determined from the average of received scores.

Learning outcomes:
Knowledge:
- Understanding and knowing the morphological structure of the heart, arteries and veins of the systemic and pulmonary circulations.
- Studying the different parts of the lymphatic system and the endocrine glands
- Knowing the basic structures of the nervous system (the spinal cord and peripheral nerves).
Skills:
- To understand and handle the anatomical terminology
- Analyzing of the gained knowledge from the morphological and functional point of views.
- Practical usage of theoretical information in practical exercises and dissection of the thorax and abdomen.

Class syllabus:
Topographical regions. Introduction into dissection. Heart. Vascular system. Lymphatic system, spleen. Endocrine glands. Nervous system. Spinal cord, spinal nerves. Cervical plexus, brachial plexus, lumbar plexus and sacral plexus. Muscles and topographical regions of the upper limb. Muscles and topographical regions of the lower limb. Muscles and topographical regions of the head and neck. Muscles and topographical regions of the trunk. Dissection of thorax and abdomen. Pneumothorax, Diaphragmatic hernia. Defects of the anterior abdominal wall. Porto-caval anastomosis. Hernia.

Recommended literature:
Platzer, W. Color Atlas of Human Anatomy. Vol.1. Locomotor System. 6th rev ed. Stuttgart; New York: Georg Thieme Verlag, 2009. 480p. ISBN13 9783131494818

Fritsch, H., Kuehnel, W. Color Atlas of Human Anatomy. Vol. 2. Internal organs. 5th ed. Stuttgart; New York: Georg Thieme Verlag, 2008. 458p. ISBN13 9781604065633
Kahle, W., Frotscher M. Color Atlas of Human Anatomy. Vol. 3. Nervous System and Sensory Organs. 6th ed. Stuttgart; New York: Georg Thieme Verlag, 2008. 426p. ISBN13 9783131536761
Netter, F. H. Atlas of Human Anatomy. 5th ed. Philadelphia: Saunders - Elsevier, 2010. 624p. ISBN: 978-1-4160-5951-6

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 197

A	B	C	D	E	FX
13,71	33,5	38,07	12,69	2,03	0,0

Lecturers: doc. MUDr. Eliška Kubíková, PhD., prof. MUDr. Peter Mráz, DrSc., doc. MUDr. Anna Holomáňová, CSc., doc. RNDr. Ladislav Guller, CSc., Mgr. Katarína Bevízová, PhD., MUDr. Hisham El Falougy, PhD., MUDr. Zora Haviarová, PhD., RNDr. Petra Lukáčiková, PhD., MUDr. Petra Šelmeciová, PhD., RNDr. Melinda Takácsová, PhD., MUDr. Peter Malovec, MUDr. Marta Masárová, MUDr. Jana Jakimová, MUDr. Abdolreza Majidi, Mgr. Vladislava Zohdi, PhD., MUDr. Andrej Mifkovič, PhD., doc. RNDr. Peter Weisman, PhD.

Last change: 21.03.2018

Approved by: prof. MUDr. Juraj Šteňo, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Medicine

Course ID:	**Course title:**
LF.AÚ/L-S-VLa-003/17	Anatomy 3

Educational activities:
Type of activities: lecture / practicals
Number of hours:
per week: **per level/semester:** 48s / 48s
Form of the course: on-site learning

Number of credits: 11

Recommended semester: 3.

Educational level: I.II.

Prerequisites: LF.AÚ/L-S-VLa-002/16 - Anatomy 2

Course requirements:
Course requirements:
100% participation on the practical exercises
Passing 1 written test with at least 60%
Test evaluation: A: 91 - 100 %, B: 81 – 90 %, C: 73 – 80 %, D: 66 – 72 %, E: 60 – 65 %, Fx: 59 – 0 %
Exam:
a. Practical part
b. Test (achieving at least 60% of correct answers)
c. Oral part (5 questions)
Final mark of the semester is determined from the average of received scores.
In case of not passing the exam the student must repeat only the part he did not pass.

Learning outcomes:
Knowledge:
- Understanding and knowing each part of the central nervous system
- Studying the autonomic nervous system (sympathetic and parasympathetic parts)
- Knowing the structure of the lymphatic system and endocrine glands.
- Studying the morphological structure of sense organs, skin and its appendages

Skills:
- To understand and handle the anatomical terminology
- Analyzing of the gained knowledge from the morphological and functional point of views.
- Practical usage of theoretical information in dissection of the peripheral nerves and vessels.
- Practical usage of theoretical information in the practical exercises from the central nervous system.

Class syllabus:
Medulla oblongata, pons. The 4th Ventricle, nuclei of the cranial nerves. Cerebellum. Mesencephalon, reticular formation. Thalamus. Hypothalamus, hypophysis, epithalamus, metathalamus. Rhinencephalon and limbic system. Telencephalon, basal nuclei. Autonomic nervous system. Sense organs. Nervous pathways. Skin.

Dissection – vessels and nerves of the upper limb, lower limb, head and neck. Macroscopic anatomy of the spinal cord. Structure of the spinal nerve. Injuries of the spinal cord. Disorder of motor and sensory functions. Vertebro-medullary topography. Removal of the brain from the skull. Cranial nerve projections. Cranial meninges. Venous sinuses of the dura mater. Subarachnoid cisterns. Blood supply of the brain. Cranial nerve projections from the base of the brain. Corneal and sucking reflexes. Facial paralysis. Surface features of the cerebral hemispheres. Brain stem. Cerebellum. Fourth ventricle. Parkinsonism. Internal capsule hemorrhage. Diencephalon. Third ventricle. Basal nuclei. White matter of the cerebrum. Cerebrospinal fluid and its circulation. Intracranial hypertension. Hydrocephalus.

Recommended literature:

Recommended literature:

Platzer, W. Color Atlas of Human Anatomy. Vol.1. Locomotor System. 6th rev ed. Stuttgart; New York: Georg Thieme Verlag, 2009. 480p. ISBN13 9783131494818

Fritsch, H., Kuehnel, W. Color Atlas of Human Anatomy. Vol. 2. Internal organs. 5th ed. Stuttgart; New York: Georg Thieme Verlag, 2008. 458p. ISBN13 9781604065633

Kahle, W., Frotscher M. Color Atlas of Human Anatomy. Vol. 3. Nervous System and Sensory Organs. 6th ed. Stuttgart; New York: Georg Thieme Verlag, 2008. 426p. ISBN13 9783131536761

Netter, F. H. Atlas of Human Anatomy. 5th ed. Philadelphia: Saunders - Elsevier, 2010. 624p. ISBN: 978-1-4160-5951-6

Languages necessary to complete the course:

Notes:

Past grade distribution

Total number of evaluated students: 147

A	B	C	D	E	FX
14,97	12,93	31,29	17,69	14,97	8,16

Lecturers: doc. MUDr. Eliška Kubíková, PhD., prof. MUDr. Peter Mráz, DrSc., doc. MUDr. Anna Holomáňová, CSc., MUDr. Hisham El Falougy, PhD., MUDr. Zora Haviarová, PhD., MUDr. Petra Šelmeciová, PhD., doc. RNDr. Peter Weisman, PhD., Mgr. Vladislava Zohdi, PhD., MUDr. Jana Jakimová, RNDr. Petra Lukáčiková, PhD., MUDr. Abdolreza Majidi, MUDr. Marta Masárová

Last change: 21.03.2018

Approved by: prof. MUDr. Juraj Šteňo, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Medicine

Course ID:	**Course title:**
LF.IK_1/L-VLa-143/17	Angiology - Vascular medicine

Educational activities:
Type of activities: lecture
Number of hours:
per week: **per level/semester:** 24s
Form of the course: on-site learning

Number of credits: 2

Recommended semester: 9.

Educational level: I.II.

Prerequisites:

Course requirements:

Learning outcomes:

Class syllabus:

Recommended literature:

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 19

A	B	C	D	E	FX
100,0	0,0	0,0	0,0	0,0	0,0

Lecturers: prof. MUDr. Viera Štvrtinová, PhD.

Last change:

Approved by: prof. MUDr. Juraj Šteňo, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Medicine

Course ID:	**Course title:**
LF.ÚSLLE/L-VLa-131/09	Basics of Nursing

Educational activities:
Type of activities: laboratory practicals
Number of hours:
per week: **per level/semester:** 36s
Form of the course: on-site learning

Number of credits: 1

Recommended semester: 3., 4..

Educational level: I.II.

Prerequisites:

Course requirements:

Learning outcomes:

Class syllabus:

Recommended literature:

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 946

A	B	C	D	E	FX
31,5	29,07	17,02	12,68	9,62	0,11

Lecturers: doc. PhDr. Anna Mazalánová, PhD., PhDr. Iveta Grežďová, PhD., PhDr. Miriam Polhorská, PhD.

Last change:

Approved by: prof. MUDr. Juraj Šteňo, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava	
Faculty: Faculty of Medicine	
Course ID: LF.ÚSLLE/L-S-VLa-100/17	**Course title:** Basics of Nursing 1
Educational activities: **Type of activities:** practice **Number of hours:** **per week:** **per level/semester:** 40s **Form of the course:** on-site learning	
Number of credits: 2	
Recommended semester: 4.	
Educational level: I.II.	
Prerequisites:	
Course requirements:	
Learning outcomes:	
Class syllabus:	
Recommended literature:	
Languages necessary to complete the course:	
Notes:	
Past grade distribution Total number of evaluated students: 1	
ABS0	
100,0	
Lecturers: doc. PhDr. Anna Mazalánová, PhD.	
Last change:	
Approved by: prof. MUDr. Juraj Šteňo, DrSc.	

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Medicine

Course ID:	**Course title:**
LF.ÚLBG/L-S-VLa-006/16	Biology and Human Genetics 1

Educational activities:
Type of activities: lecture / practicals
Number of hours:
per week: **per level/semester:** 24s / 24s
Form of the course: on-site learning

Number of credits: 4

Recommended semester: 1.

Educational level: I.II.

Prerequisites:

Course requirements:
100% participation on the practical exercises
1 seminar work
Passing 2 written partial tests with at least 60% from each
Test evaluation: A: 91 - 100 %, B: 81 – 90 %, C: 73 – 80 %, D: 66 – 72 %, E: 60 – 65 %, Fx: 59 – 0 %
Final mark of the semester is determined from the average of received scores.

Learning outcomes:
To gain basic information about cell morphology and physiology and about molecular biology and genetics.

Class syllabus:
The cell as the basic structural and functional unit: morphology, cell surfaces, nucleus, nucleolus, mitochondria, endoplasmic reticulum, ribosomes, Golgi apparatus, cytoskeleton. Intercellular spaces and intercellular communication. Transport of materials - glycocalyx, membrane receptors. Cell cycle; amitosis, mitosis (mitotic apparatus, endomitosis). Tissue and cell cultivation. Viruses: genome, reproduction, mutations and recombination, oncogenic viruses and acute transforming viruses. Prokaryotic cells - morphology, structure, and genome. Parasexual process in bacteria. Differences between prokaryotes and eukaryotes. Protista. Molecular biology: structure of DNA and RNA, denaturation and renaturation of DNA, replication of DNA, transcription, translation, genetic code. Genes of prokaryotic and eukaryotic cells, insertion sequences and transposons, resistance to antibiotics (R plasmids, DNA recombination, vectors). DNA analysis and its utilization in medical practice.

Recommended literature:
BÖHMER, D. and REPISKÁ, V.: Genetic Aspects of Normal and Pathologic Traits in Humans. Bratislava: Asklepios, 2009; 100 p.
ISBN 978-80-7167-139-8.
BÖHMER, D., REPISKÁ, V. and DANIŠOVIČ, Ľ.: Introduction to Medical and Molecular Biology. Bratislava: Asklepios, 2010; 95 p.
ISBN 978-80-7167-151-0.

Nussbaum, R.L., McInnes, R.R., Willard, H.F.: Thompson &Thompson Genetics in medicine. 8th edition. Elsevier, Philadelphia. 2016; 546 p.
Alberts, B., et al. Molecular biology of cell. 6th edition. Garland Science, New York. 2015; 1464 p.

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 380

A	B	C	D	E	FX
3,16	17,63	28,42	32,63	14,74	3,42

Lecturers: doc. MUDr. Daniel Böhmer, PhD., prof. RNDr. Vanda Repiská, PhD., prof. RNDr. Ján Vojtaššák, CSc., MUDr. Tatiana Braxatorisová, CSc., RNDr. Ľuboš Danišovič, PhD., Ing. Helena Gbelcová, PhD., RNDr. Ľubica Krajčíová, PhD., RNDr. Marcela Kuniaková, PhD., RNDr. Jana Malová, PhD., RNDr. Robert Petrovič, PhD., RNDr. Anna Totková, PhD., RNDr. Zuzana Varchulová Nováková, PhD., MUDr. Patrik Víťazka, PhD., RNDr. Andrea Pastoráková, PhD.

Last change: 08.12.2016

Approved by: prof. MUDr. Juraj Šteňo, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava	
Faculty: Faculty of Medicine	
Course ID: LF.ÚLBG/L-S-VLa-007/16	**Course title:** Biology and Human Genetics 2
Educational activities: **Type of activities:** lecture / practicals **Number of hours:** **per week:** **per level/semester:** 24s / 24s **Form of the course:** on-site learning	
Number of credits: 7	
Recommended semester: 2.	
Educational level: I.II.	
Prerequisites: LF.ÚLBG/L-S-VLa-006/16 - Biology and Human Genetics 1	
Course requirements: 100% participation on the practical exercises 1 seminar work Passing 1 written partial test with at least 60% Test evaluation: A: 91 - 100 %, B: 81 – 90 %, C: 73 – 80 %, D: 66 – 72 %, E: 60 – 65 %, Fx: 59 – 0 % Exam: a) written test, at least 60 %, B) theoretical part – 3 questions (cytology,molecular genetics, human genetics) Final mark of the semester is determined from the average of received scores	
Learning outcomes: To gain basic information about cell morphology and physiology and about molecular biology and genetics.	
Class syllabus: The cell as the basic structural and functional unit: morphology, cell surfaces, nucleus, nucleolus, mitochondria, endoplasmic reticulum, ribosomes, Golgi apparatus, cytoskeleton. Intercellular spaces and intercellular communication. Transport of materials - glycocalyx, membrane receptors. Cell cycle; amitosis, mitosis (mitotic apparatus, endomitosis). Tissue and cell cultivation. Viruses: genome, reproduction, mutations and recombination, oncogenic viruses and acute transforming viruses. Prokaryotic cells - morphology, structure, and genome. Parasexual process in bacteria. Differences between prokaryotes and eukaryotes. Protista. Molecular biology: structure of DNA and RNA, denaturation and renaturation of DNA, replication of DNA, transcription, translation, genetic code. Genes of prokaryotic and eukaryotic cells, insertion sequences and transposons, resistance to antibiotics (R plasmids, DNA recombination, vectors). DNA analysis and its utilization in medical practice.	
Recommended literature: BÖHMER, D. and REPISKÁ, V.: Genetic Aspects of Normal and Pathologic Traits in Humans. Bratislava: Asklepios, 2009; 100 p. ISBN 978-80-7167-139-8. BÖHMER, D., REPISKÁ, V. and DANIŠOVIČ, Ľ.: Introduction to Medical and Molecular Biology. Bratislava: Asklepios, 2010; 95 p.	

ISBN 978-80-7167-151-0.
Nussbaum, R.L., McInnes, R.R., Willard, H.F.: Thompson &Thompson Genetics in medicine. 8th edition. Elsevier, Philadelphia. 2016; 546 p.
Alberts, B., et al. Molecular biology of cell. 6th edition. Garland Science, New York. 2015; 1464 p.

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 184

A	B	C	D	E	FX
45,65	16,3	17,93	9,78	5,98	4,35

Lecturers: doc. MUDr. Daniel Böhmer, PhD., prof. RNDr. Vanda Repiská, PhD., RNDr. Ľuboš Danišovič, PhD., Ing. Helena Gbelcová, PhD., prof. RNDr. Ján Vojtaššák, CSc., RNDr. Ľubica Krajčíová, PhD., RNDr. Marcela Kuniaková, PhD., RNDr. Andrea Pastoráková, PhD., RNDr. Robert Petrovič, PhD.

Last change: 21.03.2018

Approved by: prof. MUDr. Juraj Šteňo, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Medicine

Course ID:	**Course title:**
LF.KDP/L-VLa-144/17	Child and Adolescent Psychiatry

Educational activities:
Type of activities: lecture
Number of hours:
per week: **per level/semester:** 24s
Form of the course: on-site learning

Number of credits: 2

Recommended semester: 9.

Educational level: I.II.

Prerequisites:

Course requirements:

Learning outcomes:

Class syllabus:

Recommended literature:

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 24

A	B	C	D	E	FX
83,33	16,67	0,0	0,0	0,0	0,0

Lecturers: MUDr. Jana Trebatická, PhD.

Last change:

Approved by: prof. MUDr. Juraj Šteňo, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Medicine

Course ID:	**Course title:**
LF.ChK1/L-VLa-141/17	Chirurgia 5

Educational activities:
Type of activities: seminar / laboratory practicals
Number of hours:
per week: **per level/semester:** 40s / 240s
Form of the course: on-site learning

Number of credits: 15

Recommended semester: 11., 12..

Educational level: I.II.

Prerequisites: LF.OTK1/L-VLa-049/11 - Surgery 4

Course requirements:

Learning outcomes:

Class syllabus:

Recommended literature:

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 63

A	B	C	D	E	FX
38,1	15,87	19,05	15,87	11,11	0,0

Lecturers: MUDr. Boris Hrbatý, PhD., prof. MUDr. Peter Labaš, CSc., MUDr. Milan Oravský, PhD., doc. MUDr. Milan Schnorrer, CSc., doc. MUDr. Marián Vician, CSc., MUDr. Martin Novotný, PhD., prof. MUDr. Juraj Šteňo, DrSc., prof. MUDr. Ján Breza, DrSc., doc. MUDr. Andrej Šteňo, PhD., MPH, MUDr. Barbora Brezová, PhD., MUDr. Martin Dubovský, MUDr. Katarína Mészárosová, MUDr. Patrik Koudelka, PhD., MUDr. Lukáš Mičulík, MUDr. Pavol Mazalán, Ing. MUDr. Andrea Bolgáčová, doc. MUDr. Marek Čambal, PhD., doc. MUDr. Juraj Fillo, CSc., MUDr. Dimitrios Papastavrou, MUDr. Richard Reis, PhD., doc. MUDr. Luděk Vrtík, CSc., MUDr. Mária Zemanová, MUDr. Andrej Mifkovič, PhD., doc. MUDr. Augustín Prochotský, CSc., MUDr. Jozef Babala, PhD., MUDr. Dana Dúbravová, MUDr. Miroslava Fuňáková, PhD., MUDr. František Horn, PhD., MUDr. Pavol Omaník, PhD., MUDr. Martin Smrek, PhD., doc. MUDr. Ján Trnka, CSc., MUDr. Peter Tisovský, PhD., MUDr. Martin Žabka, PhD., MUDr. Martin Boháč, PhD., doc. MUDr. Jozef Fedeleš, CSc., MUDr. Pavol Macho, MUDr. Drahomír Palenčár, PhD., MUDr. Lukáš Šimko, PhD., MUDr. Marianna Hajská, PhD.

Last change:

Approved by: prof. MUDr. Juraj Šteňo, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Medicine

Course ID:	**Course title:**
LF.ÚLBG/L-VLa-100/00	Clinical Genetics and Molecular Biology

Educational activities:
Type of activities: lecture
Number of hours:
per week: **per level/semester:** 24s
Form of the course: on-site learning

Number of credits: 2

Recommended semester: 8., 10.

Educational level: I.II.

Prerequisites:

Course requirements:

Learning outcomes:

Class syllabus:

Recommended literature:

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 162

A	B	C	D	E	FX
83,33	6,79	6,79	1,85	1,23	0,0

Lecturers: doc. MUDr. Daniel Böhmer, PhD., prof. RNDr. Vanda Repiská, PhD.

Last change: 02.06.2015

Approved by: prof. MUDr. Juraj Šteňo, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava	
Faculty: Faculty of Medicine	
Course ID: LF.IÚ/L-VLa-101/00	**Course title:** Clinical Immunology
Educational activities: **Type of activities:** lecture **Number of hours:** **per week: per level/semester:** 24s **Form of the course:** on-site learning	
Number of credits: 2	
Recommended semester: 7., 9.	
Educational level: I.II.	
Prerequisites: LF.ÚPA/L-VLa-043/00 - Pathological Anatomy 2 and LF.ÚPF/L-VLa-045/00 - Pathological Physiology 2	
Course requirements: Exam: written part: to pass the final test at minimally 60% oral exam: 3 questions Evaluation of the test: A:91-100%, B: 81-99%, C:73-80%, D: 66-72%, E:60-65%, Fx:≤ 59%.	
Learning outcomes: Knowledge: 1. To deepen knowledge of clinical immunology, immunity participating in the development of immunopathological states and diseases (allergy, autoimmunity, transplantation, cancer). 2. To understand the importance of chronic low grade non-infectious systemic inflammation in the pathogenesis of whole range of diseases, especially in the development of cardiovascular, neurological diseases and tumors. 3. To understand the clinical symptomatology of problems arising from the deficiencies of the individual components of the immune system, especially the problems of AIDS.	
Class syllabus: Definition and the subject matter of clinical immunology. The distribution of immunopathological reactions and diseases affecting the immune system. Ist. type hypersensitivity reactions (anaphylaxis and atopy). IInd., IIIrd, IVth. and Vth. type of hypersensitivity reactions, the mechanisms, clinical symptomatology and diagnostics. Serum shock, serum sickness, pseudoallergies, therapy and their differential diagnosis. Autoimmunity - physiological and pathological, mechanisms of its development, failure of tolerance. Autoimmune diseases. Immunomodulatory effects of transfusions. The tissues and organs transplantations. Antitumor immunity, metastases. Reproductive Immunology. Immunodeficiencies – congenital and acquired. AIDS. Systemic inflammation, sepsis and MODS. Handling immune mechanisms - immunostimulation, vaccination, immunosuppression; monoclonal antibodies and cytokines in the treatment of diseases.	
Recommended literature: Obligatory textbook: Buc M: Basic and Clinical Immunology. 3. Bratislava: Comenius University 2014, 305 p. Recommended textbooks:	

Abbas AK, Lichtman, AH, Pillai S: Cellular and Molecular Immunology. 7th ed. New York: Elsevier, Saunders 2012, 545 s.
Doan T, Melvold R, Viselli S, Waltenbaugh C: Immunology&. 2nd ed. Philadelphia: Lippincot Williams & Wilkins 2013, 376 p.
Bellanti JA (Ed.) Immunology IV. Clinical Applications in Health and Disease. Bethesda: I care Press 2012, 1063 p.
Chapel H, Haeney M, Misbah S, Snowden N.: Essentials of Clinical Immunology. Willey Oxford: Blackwell 2014, 365 p.

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 66

A	B	C	D	E	FX
15,15	27,27	21,21	10,61	18,18	7,58

Lecturers: doc. MUDr. Mária Bucová, CSc., prof. MUDr. Milan Buc, DrSc., MUDr. Zuzana Párnická, PhD., MUDr. Monika Homolová, PhD., MUDr. Juraj Javor, PhD., MUDr. Michal Sapák, PhD., doc. Mgr. Ivana Shawkatová, PhD.

Last change: 05.12.2016

Approved by: prof. MUDr. Juraj Šteňo, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Medicine

Course ID:	**Course title:**
LF.MÚ/L-VLa-102/00	Clinical Microbiology

Educational activities:
Type of activities: lecture
Number of hours:
per week: **per level/semester:** 24s
Form of the course: on-site learning

Number of credits: 2

Recommended semester: 8., 10.

Educational level: I.II.

Prerequisites: LF.MÚ/L-VLa-029/00 - Microbiology 2

Course requirements:
Final exam: written part - test with the minimum success rate of 60%
theoretical part - 2 questions
defending the seminar work (in extent of 5 min.)
Evaluation of the test: A: 100-91%, B: 90-81%, C: 80-73%, D: 72-66%, E: 65-60%, Fx: 59 % and less
The final evaluation is determined from average of the obtained evaluations

Learning outcomes:
Knowledge:
Explanation of pathogenesis of microbial diseases according to the affected organs and organ systems
Skills:
Microbiologic diagnostics of infectious diseases and interpretation of results for the clinician; proposition of rational therapy on the basis of in vitro examination results.

Class syllabus:
Principles of rational antimicrobial therapy in outpatients and in hospitalised patients. Multiresistance of bacteria, risks and possible solutions. Diagnostics and therapy of respiratory infections. Diagnostics and therapy of sepsis and endocarditis. Diagnostics and therapy of meningitis. Infectious complications in immunocompromised patient. Current therapy options of mycoses. Diagnostics and antimicrobial therapy of urogenital infections. Intraabdominal infections. Diagnostics and therapy of bacterial zoonoses. Differential diagnostics of glandular fever syndrome. Presentation of the seminar works.

Recommended literature:
Obligatory study literature:
Inglis, T.J.J.: Microbiology and Infection. 3rd ed., New York: Churchill Livingstone Elsevier, 2007, 322 pp.
Recommended study literature:
Engleberg, N.C. et al: Schaechter´s Mechanisms of Microbial Disease. 4th ed. Baltimore: Lippincott Williams and Wilkins, 2007. 762 pp.

Murray, P.R. et al: Mannual of Clinical Microbiology, 7th ed., Washington, D.C.: ASM Press, 2007. 1482 pp. (selected chapters)

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 41

A	B	C	D	E	FX
19,51	26,83	21,95	12,2	9,76	9,76

Lecturers: doc. MUDr. Adriana Liptáková, PhD., MPH, doc. RNDr. Nasir Ahmad Jalili, CSc., MUDr. Ján Koreň, PhD., doc. RNDr. Lívia Slobodníková, CSc., RNDr. Magdaléna Šimkovičová, CSc.

Last change: 07.12.2016

Approved by: prof. MUDr. Juraj Šteňo, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava	
Faculty: Faculty of Medicine	
Course ID: LF.ÚPA/L-VLa-103/00	**Course title:** Clinical Pathology
Educational activities: **Type of activities:** lecture **Number of hours:** **per week:** **per level/semester:** 24s **Form of the course:** on-site learning	
Number of credits: 2	
Recommended semester: 8., 10.	
Educational level: I.II.	
Prerequisites: LF.ÚPA/L-VLa-043/00 - Pathological Anatomy 2	
Course requirements:	
Learning outcomes:	
Class syllabus:	
Recommended literature:	
Languages necessary to complete the course:	
Notes:	

Past grade distribution
Total number of evaluated students: 111

A	B	C	D	E	FX
55,86	17,12	14,41	8,11	4,5	0,0

Lecturers: prof. MUDr. Ľudovít Danihel, CSc., prof. MUDr. Pavel Babál, CSc., doc. MUDr. Ján Porubský, CSc., prof. MUDr. Štefan Galbavý, DrSc., MUDr. Peter Martanovič
Last change: 02.06.2015
Approved by: prof. MUDr. Juraj Šteňo, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Medicine

Course ID:	**Course title:**
LF.ÚFKF/L-VLa-099/00	Clinical Pharmacology

Educational activities:
Type of activities: lecture
Number of hours:
per week: per level/semester: 24s
Form of the course: on-site learning

Number of credits: 2

Recommended semester: 10.

Educational level: I.II.

Prerequisites: LF.ÚFKF/L-VLa-031/11 - Pharmacology 2

Course requirements:
100% participation on practicals
Final Examination
– written part – test (minimum is to achieve 70 %)
- theoretical part – two questions (special pharmacology), preparation of a recipe
The final rating is the arithmetic mean of all ratings

Learning outcomes:
Knowledge:
To acquire knowledge on the application of pharmacology in clinical situations
To acquire skills on pharmacology-based decision making for selected diseases
Skills:
- ability to apply the knowledge of pharmacology in drog selection
- ability to judge the risk/benefit ratio of drugs in selected diseases in an individual patient

Class syllabus:
Strategy and forms of pharmacotherapy. Methods of drug evaluation. GLP, GCP. Patient´s compliance. The risk of drugs and it´s prevention. Pharmacovigilance and monitoring of adverse reactions. Therapeutic drug monitoring. Particularity of pharmacotherapy in pregnancy and during lactation. Particularity of medication in children. Particularity of medication the elderly. Problem oriented teaching. Clinical-pharmacological analysis of selected diseases. Elaboration of pharmacotherapeutics plans with drug prescriptions.

Recommended literature:
Wawruch, M., Laššánová, M., Tisoňová, J. Kapitoly z klinickej farmakológie. Bratislava : Univerzita Komenského, 2012. 176 s.
Mirossay L., Mojžiš J. a kol.: Základná farmakológia a farmakoterapia. Košice. 1. vyd., EQULIBRIA 2006, 535 s.
Kristová, V., Wawruch, M., Tisoňová, J. a kol. Kardiovaskulárne liečivá. Bratislava : Univerzita Komenského, 2011. 238 s.
Božeková L., Kriška M., Wawruch M.: Farmakológia a klinická farmakológia antiinfekčných liečiv. Bratislava. Asklepios 2005, 124 s.
Kriška M. a kol.: Memorix klinickej farmakológie. Bratislava. SAP, 2. vyd., 2006. 610 s.

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 102

A	B	C	D	E	FX
68,63	17,65	9,8	2,94	0,0	0,98

Lecturers: prof. MUDr. Martin Wawruch, PhD., MUDr. Jana Tisoňová, PhD.

Last change: 08.12.2016

Approved by: prof. MUDr. Juraj Šteňo, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Medicine

Course ID:	**Course title:**
LF.ÚPF/L-VLa-147/17	Critical Appraisal and Academic Writing Skills

Educational activities:
Type of activities: lecture
Number of hours:
per week: **per level/semester:** 24s
Form of the course: on-site learning

Number of credits: 2

Recommended semester: 8., 10.

Educational level: I.II.

Prerequisites:

Course requirements:

Learning outcomes:

Class syllabus:

Recommended literature:

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 8

A	B	C	D	E	FX
75,0	25,0	0,0	0,0	0,0	0,0

Lecturers: prof. MUDr. Beáta Mladosievičová, CSc., prof. MUDr. Marián Bernadič, CSc., prof. MUDr. Ivan Hulín, DrSc., prof. MUDr. Daniela Ostatníková, PhD., MUDr. Ljuba Bachárová, DrSc.

Last change:

Approved by: prof. MUDr. Juraj Šteňo, DrSc.

STATE EXAM DESCRIPTION

University: Comenius University in Bratislava	
Faculty: Faculty of Medicine	
Course ID: LF/L-VLa-O-5/15	**Course title:** Defense of the Diploma Thesis
Number of credits: 2	
Recommended semester: 11., 12..	
Educational level: I.II.	
State exam syllabus:	
Last change:	
Approved by: prof. MUDr. Juraj Šteňo, DrSc.	

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Medicine

Course ID:	**Course title:**
LF.KSMCh/L-VLa-067/00	Dental Medicine

Educational activities:
Type of activities: lecture / laboratory practicals
Number of hours:
per week: **per level/semester:** 12s / 14s
Form of the course: on-site learning

Number of credits: 2

Recommended semester: 7.

Educational level: I.II.

Prerequisites:

Course requirements:

Learning outcomes:

Class syllabus:
Diseases of dental hard tissues, pulp and apical periodontium, septic foci. Periodontal and oral mucosa disorders. Orthodontic anomalies, cleft problems. Prosthetic treatment of dentition defects. Dentoalveolar and maxillofacial surgery - inflammations, traumatology, oncology. Management of medically and mentally compromised patients.

Recommended literature:
1. Mitchell, L., Mitchell, D.A. : Oxford Handbook of Clinical Dentistry, Oxford University Press, 1994, 1992, ISBN : 0-119-261959-4

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 927

A	B	C	D	E	FX
27,08	31,61	26,0	10,36	4,85	0,11

Lecturers: doc. MUDr. Stanislava Veselá, CSc., prof. MUDr. Peter Stanko, PhD., MUDr. Dušan Poruban, CSc., MUDr. Dušan Hollý, PhD.

Last change: 02.06.2015

Approved by: prof. MUDr. Juraj Šteňo, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Medicine

Course ID:	**Course title:**
LF.DK/L-VLa-069/11	Dermatovenerology 1

Educational activities:
Type of activities: lecture / laboratory practicals
Number of hours:
per week: **per level/semester:** 12s / 15s
Form of the course: on-site learning

Number of credits: 2

Recommended semester: 9.

Educational level: I.II.

Prerequisites: LF.ÚFKF/L-VLa-031/11 - Pharmacology 2

Course requirements:

Learning outcomes:

Class syllabus:
Anatomy, physiology, histopathology of the skin.Primary and secondary lesions of the skin. Erythematosquamous dermatoses-pityriasis rosea, psoriasis, parapsoria-ses, erythrodermia. Papulous dermatoses-lichen ruber, prurigo.Blistering dermatoses-epi-dermolysis, pemphigus, pemphigoides, dermatitis herpetiformis.Viral dermatoses-herpes simplex, herpes zoster,verrucae, condyloma acum., molluscum contag., other dermatoses due by herpes simplex virus. Bacterial diseases of the skin and mucous membranes-gonorrhoe, nonspecific urethritis, syphilis, ulcus molle, tuberculosis cutis, borreliosis. Chlamydiasis.
Pyodermia of the pilosebaceous follicle and of sweat glands, erythrasma, trichomycosis palmellina. Mycotic infections. Epizoonoses.

Recommended literature:
Švecová, D., Danilla, T. Textbook of Dermatovenerology. Bratislava: Comenius University, 2000. 256 p. ISBN 978-80-233-2833-3.
Švecová, D., Osuský P. Dermatovenereology. Handbook for Practical Lessons. Bratislava: Comenius University, 1998. 88p. ISBN 80-223-1248-7.

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 644

A	B	C	D	E	FX
96,58	2,64	0,16	0,62	0,0	0,0

Lecturers: prof. MUDr. Mária Šimaljaková, PhD., prof. MUDr. Vladimír Hegyi, PhD., prof. MUDr. Danka Švecová, PhD., doc. MUDr. Dušan Buchvald, CSc., doc. MUDr. Tibor Danilla, PhD., MUDr. Monika Kollmannová, PhD., MUDr. Peter Kozub, PhD., MUDr. Elena Šustrová,

PhD., MUDr. Linda Gáborová, MUDr. Dominika Sabová, MUDr. Milica Malíčková, MUDr. Martina Part, PhD.
Last change: 02.06.2015
Approved by: prof. MUDr. Juraj Šteňo, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Medicine

Course ID:	**Course title:**
LF.DK/L-VLa-070/11	Dermatovenerology 2

Educational activities:
Type of activities: lecture / laboratory practicals
Number of hours:
per week: **per level/semester:** 24s / 15s
Form of the course: on-site learning

Number of credits: 3

Recommended semester: 10.

Educational level: I.II.

Prerequisites: LF.DK/L-VLa-069/11 - Dermatovenerology 1

Course requirements:

Learning outcomes:

Class syllabus:
Drug eruptions - etiopathogenesis, clinic of individual clinical forms.
Urticaria, oedema angioneuroticum. Eczema contactum allergicum, dermatitis contacta toxica, eczema seborrhoicum, dermatitis atopica.Varicose complex, ulcus cruris. Acne vulgaris, rosacea, dermatitis rosaceiformis. Hidradenitis suppurativa. Alopecias scaring and nonscaring. Diseases of nails. Cheilitis, lingua plicata, exfoliatio linguae areata, lingua villosa, leukoplakia. Keratosis actinica, cornu cutaneum, m.Bowen, erythroplasia, m.Paget, carcinoma basocellulare, carcinoma spinocellulare, melanoma malignum.Fibroma, haemangioma, lipoma. Characteristics of dermatoses in children. Ichthyosis, keratosis palmoplantaris, dyskeratosis follicularis. Sclerodermia, lupus erythematosus, dermatomyositis.
Pigmentary naevi, organoid naevi, naevi of sebaceous glands, vascular naevi.

Recommended literature:
Švecová, D., Osuský,P.: Dermatovenerology Handbook for Practical Lessons.Bratislava: UK, 1998,87 p. Scriptum.
McKie, Rona, M.: Clinical Dermatology.Oxford Med.Publ., 1997, 324 p.
Braun-Falco, O.et al.: Dermatology.Berlin: Springer Verlag, 1991 (or 1996), 1235 p.

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 514

A	B	C	D	E	FX
36,96	23,15	15,37	13,04	9,14	2,33

Lecturers: prof. MUDr. Mária Šimaljaková, PhD., prof. MUDr. Vladimír Hegyi, PhD., prof. MUDr. Danka Švecová, PhD., doc. MUDr. Dušan Buchvald, CSc., doc. MUDr. Tibor Danilla, PhD., MUDr. Monika Kollmannová, PhD., MUDr. Peter Kozub, PhD., MUDr. Elena Šustrová,

PhD., MUDr. Linda Gáborová, MUDr. Dominika Sabová, MUDr. Milica Malíčková, MUDr. Martina Part, PhD.
Last change: 02.06.2015
Approved by: prof. MUDr. Juraj Šteňo, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Medicine

Course ID:	**Course title:**
LF/L-VLa-016/00	Diploma Work 1

Educational activities:
Type of activities: independent work
Number of hours:
per week: **per level/semester:** 25s
Form of the course: on-site learning

Number of credits: 2

Recommended semester: 8.

Educational level: I.II.

Prerequisites:

Course requirements:
study and self-study, communication with diploma work supervisor, presentation of outcomes and their evaluation by diploma work supervisor

Learning outcomes:
- to process selected topic on the level of a scientific study
- to select an appropriate scientific literature
- to apply an appropriate scientific method

Class syllabus:
- topic selection
- aim of diploma work specification
- selection of bibliography

Recommended literature:
Internal regulation CU n. 12/2013 Rector´s Directive of Comenius University in Bratislava, about the basic requirements of theses and qualification works, their bibliographic registration, control of originality, about archiving and publishing at Comenius University in Bratislava
Internal regulation n. 12/2013 Study regulation FM CU in Bratislava
Bibliography according to the diploma work

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 432

A	B	C	D	E	FX
81,71	11,11	5,32	0,69	1,16	0,0

Lecturers:

Last change: 11.11.2016

Approved by: prof. MUDr. Juraj Šteňo, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Medicine

Course ID:	**Course title:**
LF/L-VLa-017/00	Diploma Work 2

Educational activities:
Type of activities: independent work
Number of hours:
per week: **per level/semester:** 50s
Form of the course: on-site learning

Number of credits: 3

Recommended semester: 9.

Educational level: I.II.

Prerequisites: LF/L-VLa-016/00 - Diploma Work 1

Course requirements:
study and self-study, communication with diploma work supervisor, presentation of outcomes and their evaluation by diploma work supervisor

Learning outcomes:
- to process selected topic on the level of a scientific study
- to select an appropriate scientific literature
- to apply an appropriate scientific method

Class syllabus:
- preparation and study of selected literature (research, textbooks, monographs, offprints of works in particular scientific field)
- preparation of the diploma work synopsis
- to start a process of diploma work core creation, what is the main part of diploma work

Recommended literature:
Internal regulation CU n. 12/2013 Rector´s Directive of Comenius University in Bratislava, about the basic requirements of theses and qualification works, their bibliographic registration, control of originality, about archiving and publishing at Comenius University in Bratislava
Internal regulation n. 12/2013 Study regulation FM CU in Bratislava
Bibliography according to the diploma work

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 439

A	B	C	D	E	FX
75,17	11,85	7,06	1,59	3,87	0,46

Lecturers:

Last change: 11.11.2016

Approved by: prof. MUDr. Juraj Šteňo, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Medicine

Course ID:	**Course title:**
LF/L-VLa-018/00	Diploma Work 3

Educational activities:
Type of activities: independent work
Number of hours:
per week: **per level/semester:** 50s
Form of the course: on-site learning

Number of credits: 3

Recommended semester: 10.

Educational level: I.II.

Prerequisites: LF/L-VLa-017/00 - Diploma Work 2

Course requirements:
study and self-study, communication with diploma work supervisor, presentation of outcomes and their evaluation by diploma work supervisor

Learning outcomes:
- to process selected topic on the level of a scientific study
- to select an appropriate scientific literature
- to apply an appropriate scientific method

Class syllabus:
- diploma work core creation
- division into chapters, subchapters
- preparation of introduction
- preparation of conclusion
- bibliography

Recommended literature:
Internal regulation CU n. 12/2013 Rector´s Directive of Comenius University in Bratislava, about the basic requirements of theses and qualification works, their bibliographic registration, control of originality, about archiving and publishing at Comenius University in Bratislava
Internal regulation n. 12/2013 Study regulation FM CU in Bratislava
Bibliography according to the diploma work

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 387

A	B	C	D	E	FX
76,49	12,14	5,68	1,55	3,1	1,03

Lecturers:

Last change: 11.11.2016

Approved by: prof. MUDr. Juraj Šteňo, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Medicine

Course ID:	**Course title:**
LF/L-VLa-139/09	Diploma Work 4

Educational activities:
Type of activities: independent work
Number of hours:
per week: **per level/semester:** 100s
Form of the course: on-site learning

Number of credits: 5

Recommended semester: 11.

Educational level: I.II.

Prerequisites:

Course requirements:

Learning outcomes:

Class syllabus:

Recommended literature:

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 428

A	B	C	D	E	FX
67,99	15,89	8,64	4,21	3,27	0,0

Lecturers:

Last change:

Approved by: prof. MUDr. Juraj Šteňo, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Medicine

Course ID:	**Course title:**
LF.ÚE/L-VLa-071/00	Epidemiology

Educational activities:
Type of activities: lecture / laboratory practicals
Number of hours:
per week: **per level/semester:** 12s / 24s
Form of the course: on-site learning

Number of credits: 2

Recommended semester: 9., 10..

Educational level: I.II.

Prerequisites: LF.ÚH/L-VLa-053/00 - Hygiene

Course requirements:
100% participation on practical lessons + success in exam by:
- achieving at least limit test points to 65% is proceeding to the oral examination.
Evaluation of the test: A: 91 - 100 %, B: 81 – 99 %, C: 73 – 80 %, D: 66 –72 %, E: 60 – 65%, Fx: 59 % and less
- theoretic part – 3 questions (general epidemiology, special epidemiology, epidemiology of chronic civilization diseases)
Total evaluation is determined from the mean value of acquired points of both parts of the exam.

Learning outcomes:
Knowledge: Basic knowledge about epidemic process, occurrence and distribution of infectious diseases and chronic non-communicable diseases with high incidence in Slovakia and worldwide. Knowledge about appearance and spread of nosocomial infections and importance of hygienic – epidemiologic regimen and the role of disinfection and sterilisation in introduction of measures and prevention.
Basic principles of vaccinology and important role of vaccines in disease prevention.
Prevalence of the most important risk factors contributed to disease occurrence and possibility to prevent diseases by lowering exposure and by elimination of these factors.
Orientation in some national, WHO and ECDC programmes combating against infections and non-communicable civilisation diseases in the view of their control, elimination or even eradication.
Knowledge of crucial relevant regulations in Slovak Republic in prevention of the most serious diseases.
Skills: Basic cognitive logic skills in investigation of epidemic occurrence by collection of valid data, by their analysis and by evaluation of risk exposure using knowledge from several medical disciplines for proposal of measures, including measures targeted on contacts of the source of infection. Cognitive skills of using various methods in study of risk determinants of chronic diseases for primary and secondary prevention as well as for prognosis. Intuitive thinking for evaluation of risks for disease prevention. Practical skills in investigation and analysis of epidemics, using epidemiologic methods (descriptive, analytic, experimental) and surveillance for evaluation of disease occurrence and prevention of communicable diseases and chronic civilization diseases.

Class syllabus:

Epidemiology, goals, health and social importance of the discipline. Basic epidemiologic methods, causality. Descriptive method, analytic method, experimental epidemiology, surveillance.
Sources of infections in the light of evolution of parasitism of microorganisms, forms of reservoirs, their characteristics, importance of epidemiologic measures. Mechanisms of transmission, phases and forms. Classification of infectious diseases, basic groups, intestinal infections, air-borne infections, arthropod-borne infections, infections of skin and surface mucosae, zoonoses, nosocomial infections - general characteristics. Epidemic process, its essential conditions and characteristics. Significance of natural and social factors. Principles of modern approaches of control of communicable diseases – containment of sources, interruption of transmission. Measures of prevention. Measures in the focus of infection. Protection of susceptible population. Specific prophylaxis. Passive and active immunisation. Decontamination: disinfection, sterilisation, disinsection, rodent control. Information systems. Basic epidemiologic characteristics of cardiovascular (including cerebrovascular diseases), cancers, chronic diseases of respiratory tract and diabetes.

Recommended literature:
Špaleková, M. (Ed.): EPIDEMIOLOGY FOR STUDY OF PUBLIC HEALTH - Vol. 1, 1. vydanie, Comenius University in Bratislava, 2015, 162 s, ISBN: 978-80-223-3933-9
Špaleková, M. (Ed.): EPIDEMIOLOGY FOR STUDY OF PUBLIC HEALTH - Vol. 2, 1. vydanie, Comenius University in Bratislava, 2015, 86 s, ISBN: 978-80-223-3934-6

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 696

A	B	C	D	E	FX
26,58	23,13	16,09	16,09	14,8	3,3

Lecturers: doc. MUDr. Margita Špaleková, CSc., doc. MUDr. Alexandra Bražinová, PhD., MPH, MUDr. Mgr. Miriam Fulová, Mgr. Martina Kotrbancová, PhD., RNDr. Jana Perželová, MUDr. Branislav Vohnout, PhD., MUDr. Vanda Výrosteková, CSc.

Last change: 07.12.2016

Approved by: prof. MUDr. Juraj Šteňo, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Medicine

Course ID:	**Course title:**
LF.IK1/L-VLa-078/00	Family Medicine

Educational activities:
Type of activities: lecture
Number of hours:
per week: **per level/semester:** 10s
Form of the course: on-site learning

Number of credits: 1

Recommended semester: 9., 10..

Educational level: I.II.

Prerequisites:

Course requirements:

Learning outcomes:

Class syllabus:
Working with families. The role of the community. System of economical security - health insurance, practice management. Preventive care.
Common problems - differential diagnosis of abdominal pain, headache, chest pain, fever, dizziness.

Recommended literature:
Sloane, PD, Slatt, LM, Baker, RM (eds.).: Essentials of Family Medicine. Baltimore: Williams & Wilkins, 1988, 285 p.
Edwards, CRW, Bouchier IAD, Haslett, C, Chilvers, ER (eds.).: Davidson´s Principles and Practice of Medicine. 17th Ed., Edinburgh: Churchill Livingstone 1995, 1203 p.

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 472

A	B	C	D	E	FX
65,47	13,98	13,56	5,51	1,48	0,0

Lecturers: doc. MUDr. Jozef Bulas, CSc., MUDr. Beata Špániková, PhD.

Last change: 02.06.2015

Approved by: prof. MUDr. Juraj Šteňo, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava	
Faculty: Faculty of Medicine	
Course ID: LF.KUMMK/L-S-VLa-061/16	**Course title:** First Aid

Educational activities:
Type of activities: lecture / practicals
Number of hours:
per week: **per level/semester:** 9s / 9s
Form of the course: on-site learning

Number of credits: 1

Recommended semester: 1.

Educational level: I.II.

Prerequisites:

Course requirements:
100% participation
Practical CPR
Written exam – test with minimum achievement of 60% + 2 teoretical questions
Test evaluation: A: 91 - 100 %, B: 81 – 99 %, C: 73 – 80 %, D: 66 – 72 %, E: 60 – 65 %, Fx: 59 % and less
Final evaluation will be calculated as the average of achieved partial evaluations.

Learning outcomes:
KNOWLEDGE:
- in theory handle the providing of the right first aid at a place of sudden injury as an integral part of health care procedure
- to describe the organization of Integrated Rescue System in Slovakia
SKILLS:
- practical basic life support, basics of wound care, transportation of the injured. Manipulation with automatic external defibrillator.

Class syllabus:
Motivation to provide the first aid (personal and legal). Basic life functions, their functional anathomy and interactions. Diagnostics of basic life functions. Basic life saving moves. Cardiopulmonary resuscitation of adults and children. Automated external defibrillation. First aid in selected sudden injuries (acute coronary syndrome – heart attack, stroke, traffic accidents and other injuries, unconsciousness, choking, breathlessnes, stopped blood circulation, heavy bleeding, cramps). Prevention of sudden injuries.

Recommended literature:
Masár, O. a kol.: Základy poskytovania prvej pomoci pre študentov medicíny, Brno, Tribun EU, 2011
Masár a kol. : Prvá pomoc pre medikov, Univerzita Komenského 2012

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 381

A	B	C	D	E	FX
51,18	41,99	4,99	1,84	0,0	0,0

Lecturers: prof. MUDr. Oto Masár, CSc., MUDr. Ireneusz Przewlocki, PhD., PhDr. Hana Belejová, PhD., PhDr. Dušan Sysel, PhD.

Last change: 07.12.2016

Approved by: prof. MUDr. Juraj Šteňo, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Medicine

Course ID:	**Course title:**
LF.ÚSL/L-VLa-080/09	Forensic Medicine

Educational activities:
Type of activities: lecture / laboratory practicals
Number of hours:
per week: **per level/semester:** 12s / 25s
Form of the course: on-site learning

Number of credits: 2

Recommended semester: 9., 10..

Educational level: I.II.

Prerequisites:

Course requirements:
100% participation at practicals
Exam: written test - minimum 60%
theoretical part - 3 questions
Evaluation of the test: A: 91 - 100 %, B: 81 - 99 %, C: 73 - 80 %, D: 66 - 72 %, E: 60 - 65 %, Fx: 59 % and less
Total score is determined from the average of ratings received

Learning outcomes:
Knowledge:
- to learn the basics of forensic medicine and orientation in criminal matters in medical practice
- to learn the basics about external and internal examination of a dead body and about determination of the cause of death
- to acquire the knowledge about the compilation of medical certificates and expert's opinions and about the process of their interpretation in front of the court
Skills:
- examination of a dead body and filling in official documents
- participation in the process of identification of persons with undetected identity
- examination of an alleged assailant (principles, documentation)
- examination of a victim (principles, documentation)
- compilation of medical certificates

Class syllabus:
Forensic medicine, its importance and role in medicine and society. Principles of criminal proceedings. Merits of selected crimes. Courts and prosecution offices. Doctor as a witness, doctor as an expert. Protective treatment. Bodily injury, severe bodily harm. Medical liability. Death and process of dying. Procedures taken after death. Categories and manners of death. Early and late postmortem changes. Sudden death in children and in adults. Abrasions, contusions. Lacerations, incised, slash, stab and chopping wounds. Firearm injuries – single projectile injuries, shot-gun pellets injuries, explosive injuries. Mechanical asphyxia and its forms - hanging, ligature strangulation, manual strangulation (throttling), smothering, postural asphyxia, and drowning. Fall

from height. The effect of changes in atmospheric pressure and of elevated and reduced temperature. The effect of electricity and lightning. Forensic procedures to detect poisoning.

Recommended literature:

Soudní lékařství a jeho moderní trendy.
Jiří Štefan, Jiří Hladík a kolektiv. Praha, Grada Publishing, 2012.
Simpson's Forensic Medicine.
Jason Payne – James, Richard Jones, Steven B Karch, John Manlove. London, Hodder Arnold, 2011.
Soudní lékařství a toxikologie pro vojenské lékaře.
Miloš Sokol, Michal Dogoši, Josef Fusek. Hradec Králové, Univerzita obrany, 2010.
Soudní lékařství.
Michal Dogoši. Bratislava, Bratislavská vysoká škola práva, 2008.

Languages necessary to complete the course:

Notes:

Past grade distribution

Total number of evaluated students: 674

A	B	C	D	E	FX
49,41	29,82	13,95	5,19	1,63	0,0

Lecturers: prof. MUDr. Štefan Galbavý, DrSc., doc. MUDr. Jozef Šidlo, CSc., MUDr. Norbert Moravanský, PhD., MUDr. JUDr. Anežka Zummerová, PhD.

Last change: 22.12.2016

Approved by: prof. MUDr. Juraj Šteňo, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Medicine

Course ID:	**Course title:**
LF.GPK2/L-VLa-096/00	Gynaecological Oncology

Educational activities:
Type of activities: lecture
Number of hours:
per week: **per level/semester:** 24s
Form of the course: on-site learning

Number of credits: 2

Recommended semester: 8., 10.

Educational level: I.II.

Prerequisites:

Course requirements:

Learning outcomes:

Class syllabus:

Recommended literature:

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 160

A	B	C	D	E	FX
40,63	31,87	14,37	5,0	6,25	1,88

Lecturers: prof. MUDr. Karol Holomáň, CSc., prof. MUDr. Pavel Šuška, PhD., doc. MUDr. Marián Križko, CSc., doc. MUDr. Kamil Pohlodek, PhD., doc. MUDr. Martin Šimko, PhD., doc. MUDr. Ivan Hollý, CSc., doc. MUDr. Vladimír Ferianec, PhD.

Last change: 02.06.2015

Approved by: prof. MUDr. Juraj Šteňo, DrSc.

STATE EXAM DESCRIPTION

University: Comenius University in Bratislava	
Faculty: Faculty of Medicine	
Course ID: LF.GPK1/L-VLa-ŠS-1/15	**Course title:** Gynaecology and Obstetrics
Number of credits: 2	
Recommended semester: 11., 12..	
Educational level: I.II.	
State exam syllabus:	
Last change:	
Approved by: prof. MUDr. Juraj Šteňo, DrSc.	

COURSE DESCRIPTION

University: Comenius University in Bratislava	
Faculty: Faculty of Medicine	
Course ID: LF.GPK1/L-VLa-072/11	**Course title:** Gynaecology and Obstetrics 1
Educational activities: **Type of activities:** lecture / laboratory practicals **Number of hours:** **per week:** **per level/semester:** 24s / 35s **Form of the course:** on-site learning	
Number of credits: 3	
Recommended semester: 9.	
Educational level: I.II.	
Prerequisites:	
Course requirements: 100% attendance on practicals Pass the final test (minimum 60 %) Evaluation of the test: A: 91 - 100 %, B: 81 – 99 %, C: 73 – 80 %, D: 66 – 72 %, E: 60 – 65 %, Fx: 59 % and less	
Learning outcomes: Theoretical knowledge: - anatomy and physiology of female genital tract, small pelvis , abdominal cavity and breast - embryology and the congenital developmental disease of urogenital tract - patophysiology, screening, diagnosis, clinical course and treatment of the inflammatory diseases of female genitla tract - family planning and contraception - fertilization and the development of fertilased ovum - physiological process of the pregnancy, labour and puerperium Practical skills: - administration of the admission of the patient – taking history and communication, attendance on the morning rounds at the department - basic gynaecological and obstetrical examination - evaluation of the physiological and pathological cardiotokography - the examination and evaluation of the basic microbiological smear - the examination and evaluation of the functional vaginal cytology	
Class syllabus: Gynaecology: - The history of gynaecology and obstetrics - Anathomy of femal genital tract The anatomy of external and internal female genital tract The development and congenital developmental abnormalities of female genital tract - Menstrual cycle - physiology and abnormalities - Life periods in womans life - Examination methods in Gynaecology and Obstetrics	

- Sexual life of women and its abnormalities
- Family planing and contraception
- Inflamation of female genital tract
Obstetrics:
- Physiological pregnancy
- Puerperium
- Vaginal labour
Physiological labour - occipital presentation
Breech position
- Complication of duration of labour
- Risk and pathological pregnancy
- Iregularities of fertilised ovum / Early pregnancy complication
- Management of the fetus during pregnancy

Recommended literature:

1. Monga, A. et al.: Gynecology by ten Teachers. 19th ed. Oxford University Press, 2011. 224 p. ISBN 978-0340983546
2. Baker, P.N. et al.: Obstetrics by ten Teachers. 19th ed. Oxford University Press, 2011. 352 p. ISBN 978-0340983539
3. Binder, T. a kol. Porodnictví. Karolinum, Praha 2012. 297 s. ISBN 978–80-246-1907-1
4. Rob, L. a kol.: Gynekologie, 2. dopl. a přepr. vyd. Galén, Praha 2008. 319 s. ISBN 978-80-7262-501-7
5. Roztočil, A.: Moderní porodnictví. Grada, Praha 2008. 408 s. ISBN 978-80-247-1941-2
6. Holomáň, K. a kol.: Vybrané kapitoly z pôrodníctva. 2. vyd. Bratislava, Univerzita Komenského 2007. 212 s. ISBN 978-80-223-2286-7
7. Čech, E. a kol.: Porodnictví. Grada, Praha 2006. 546 s. ISBN 80-247-1303-9
8. Šuška, P. a kol.: Vybrané kapitoly z gynekológie. Bratislava, Univerzita Komenského 2003. 254 s. ISBN 80-223-1818-3

Languages necessary to complete the course:

Notes:

Past grade distribution

Total number of evaluated students: 650

A	B	C	D	E	FX
72,46	22,15	4,62	0,62	0,15	0,0

Lecturers: prof. MUDr. Miroslav Borovský, CSc., prof. MUDr. Karol Holomáň, CSc., prof. MUDr. Pavel Šuška, PhD., doc. MUDr. Ján Chabada, CSc., doc. MUDr. Ivan Hollý, CSc., doc. MUDr. Miroslav Korbeľ, CSc., doc. MUDr. Marián Križko, CSc., doc. MUDr. Kamil Pohlodek, PhD., doc. MUDr. Martin Redecha, PhD., doc. MUDr. Martin Šimko, PhD., doc. MUDr. Peter Štencl, CSc., doc. MUDr. Jozef Záhumenský, PhD., MUDr. Rastislav Sysák, PhD., MUDr. Monika Borošová, PhD., MUDr. Petra Oťapková, PhD., doc. MUDr. Vladimír Ferianec, PhD., MUDr. Martin Gábor, PhD., MUDr. Júlia Hederlingová, PhD.

Last change: 24.11.2016

Approved by: prof. MUDr. Juraj Šteňo, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava	
Faculty: Faculty of Medicine	
Course ID: LF.GPK1/L-VLa-073/11	**Course title:** Gynaecology and Obstetrics 2
Educational activities: **Type of activities:** lecture / laboratory practicals **Number of hours:** **per week:** **per level/semester:** 24s / 35s **Form of the course:** on-site learning	
Number of credits: 3	
Recommended semester: 10.	
Educational level: I.II.	
Prerequisites: LF.GPK1/L-VLa-072/11 - Gynaecology and Obstetrics 1	
Course requirements: 100% attendance on practicals Pass the final test (minimum 60 %) Evaluation of the test: A: 91 - 100 %, B: 81 – 99 %, C: 73 – 80 %, D: 66 – 72 %, E: 60 – 65 %, Fx: 59 % and less	
Learning outcomes: Theoretical knowledge: - Etiology, diagnosis and treatment of sterility and infertility - Etiology, diagnosis, clinical course and treatment of urogynaecological diseases - Etiology, diagnosis, clinical course and treatment of female genital tract tumors - Etiology, diagnosis, clinical course and treatment of child and adolescenta gynaecological diseases - Theoretical knowledge about basi gynaecological and obstetric surgerical procedures - Pathological pregnancy, labour and puerperium - Birth injuries – clasification, managment and complication Practical skills: - Assist by the physiological labour - Basic examination of patient with urogynaecological diseases - Basic examination of patient with female oncological disease - Basic examination of the gynaecological child or adolescent patient - Basic interpretation of oncytology (PAP smear) - Assit by small gynaeolcogical surgeries (curettage, conisation, termination of pregnancy/ evacuation of uterine cavity after incomplete I.trimester abortion)	
Class syllabus: Gynaecology: - Endometriosis - Female genital tract tumors - Breast diseases - Iregular positions of female genital organs - Infertile couple - Child and adolescent gynaecology	

- Gynaecological urology / urogynaecology
- Emergencies in gynaecology
- Basic gynaecology surgeries

Obstetrics:
- Iregular positions of fetus
- Irregularities of birth mechanism, deflexion of the fetus head
- Emergencies from side of fetus during the labour
- Irregularities of the III. stage of the labour
- Birth injuries
- Pathology of puerperium
- Emergencies in obstetrics / Maternal deaths
- Basic obstetric surgeries

Recommended literature:

1. Monga, A. et al.: Gynecology by ten Teachers. 19th ed. Oxford University Press, 2011. 224 p. ISBN 978-0340983546
2. Baker, P.N. et al.: Obstetrics by ten Teachers. 19th ed. Oxford University Press, 2011. 352 p. ISBN 978-0340983539
3. Binder, T. a kol. Porodnictví. Karolinum, Praha 2012. 297 s. ISBN 978–80-246-1907-1
4. Rob, L. a kol.: Gynekologie, 2. dopl. a přepr. vyd. Galén, Praha 2008. 319 s. ISBN 978-80-7262-501-7
5. Roztočil, A.: Moderní porodnictví. Grada, Praha 2008. 408 s. ISBN 978-80-247-1941-2
6. Holomáň, K. a kol.: Vybrané kapitoly z pôrodníctva. 2. vyd. Bratislava, Univerzita Komenského 2007. 212 s. ISBN 978-80-223-2286-7
7. Čech, E. a kol.: Porodnictví. Grada, Praha 2006. 546 s. ISBN 80-247-1303-9
8. Šuška, P. a kol.: Vybrané kapitoly z gynekológie. Bratislava, Univerzita Komenského 2003. 254 s. ISBN 80-223-1818-3

Languages necessary to complete the course:

Notes:

Past grade distribution

Total number of evaluated students: 602

A	B	C	D	E	FX
88,7	10,13	0,5	0,33	0,33	0,0

Lecturers: prof. MUDr. Miroslav Borovský, CSc., prof. MUDr. Karol Holomáň, CSc., prof. MUDr. Pavel Šuška, PhD., doc. MUDr. Ivan Hollý, CSc., doc. MUDr. Ján Chabada, CSc., doc. MUDr. Miroslav Korbeľ, CSc., doc. MUDr. Marián Križko, CSc., doc. MUDr. Kamil Pohlodek, PhD., doc. MUDr. Martin Redecha, PhD., doc. MUDr. Martin Šimko, PhD., doc. MUDr. Peter Štencl, CSc., doc. MUDr. Jozef Záhumenský, PhD., MUDr. Rastislav Sysák, PhD., MUDr. Monika Borošová, PhD., MUDr. Petra Oťapková, PhD., doc. MUDr. Vladimír Ferianec, PhD., MUDr. Martin Gábor, PhD., MUDr. Júlia Hederlingová, PhD.

Last change: 24.11.2016

Approved by: prof. MUDr. Juraj Šteňo, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Medicine

Course ID:	**Course title:**
LF.GPK/L-VLa-074/00	Gynaecology and Obstetrics 3

Educational activities:
Type of activities: seminar / laboratory practicals
Number of hours:
per week: **per level/semester:** 18s / 54s
Form of the course: on-site learning

Number of credits: 6

Recommended semester: 11., 12..

Educational level: I.II.

Prerequisites: LF.GPK1/L-VLa-073/11 - Gynaecology and Obstetrics 2

Course requirements:
100% attendance on practicals and seminars
State exam
- practical part – administration of the medical report, taking history, examination of the patient, 2 additional practical questions
- theoretical part: 3 questions (in diferent topics of gynaecology and obstetrics)

Learning outcomes:
Theoretical knowledge:
theoretical knowledge about diferential diagnosis and management of emergencies in gynaecology and obstetricsa
theoretical knowledge about maternofetal medicine
basics in diferential diagnosis in gynaecology
theoretical basics in radiological methods used in gynaecology and obstetrics
the problems of marginal medical specialisation in the the relation to the gynaecology and obstetrics
ethical aspects in gynaecology and obstetricsa
management and resuscitation of newborn
Practical skills:
improvement in the assistance by the gynaecological and obstetrical surgeries
basic interpretation of the radiological findings in gynaecology and obstetrics
improvement in gynaecological and obstetrical propedeutics
management and resuscitation of newborn

Class syllabus:
During the practicals before the state exams medical students act as secondary doctors at the department. The aim is their improvement if the gynaecological and obstetrical propedeutics, diferential diagnosis, management of patient – conservative and surgical way of management in gynaecology and obstetrics. The advanced radiological methods used in gynaecology and obstetrics are demonstrated. Medical students assisst at the operation theatre at gynaeological and obstetrical surgeries. They attend on the day-to-day practice on the outpatient deparment and acquire knowledge in the subspecialised fields of gynaecology and onstetrics.

Recommended literature:

1. Monga, A. et al.: Gynecology by ten Teachers. 19th ed. Oxford University Press, 2011. 224 p. ISBN 978-0340983546
2. Baker, P.N. et al.: Obstetrics by ten Teachers. 19th ed. Oxford University Press, 2011. 352 p. ISBN 978-0340983539
3. Binder, T. a kol. Porodnictví. Karolinum, Praha 2012. 297 s. ISBN 978–80-246-1907-1
4. Rob, L. a kol.: Gynekologie, 2. dopl. a přepr. vyd. Galén, Praha 2008. 319 s. ISBN 978-80-7262-501-7
5. Roztočil, A.: Moderní porodnictví. Grada, Praha 2008. 408 s. ISBN 978-80-247-1941-2
6. Holomáň, K. a kol.: Vybrané kapitoly z pôrodníctva. 2. vyd. Bratislava, Univerzita Komenského 2007. 212 s. ISBN 978-80-223-2286-7
7. Čech, E. a kol.: Porodnictví. Grada, Praha 2006. 546 s. ISBN 80-247-1303-9
8. Šuška, P. a kol.: Vybrané kapitoly z gynekológie. Bratislava, Univerzita Komenského 2003. 254 s. ISBN 80-223-1818-3

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 505

A	B	C	D	E	FX
67,72	20,0	8,32	2,57	1,39	0,0

Lecturers: prof. MUDr. Miroslav Borovský, CSc., prof. MUDr. Karol Holomáň, CSc., prof. MUDr. Pavel Šuška, PhD., doc. MUDr. Ivan Hollý, CSc., doc. MUDr. Ján Chabada, CSc., doc. MUDr. Miroslav Korbeľ, CSc., doc. MUDr. Kamil Pohlodek, PhD., doc. MUDr. Martin Redecha, PhD., doc. MUDr. Peter Štencl, CSc., doc. MUDr. Jozef Záhumenský, PhD., MUDr. Rastislav Sysák, PhD., MUDr. Juraj Drobný, PhD., MUDr. Alexandra Krištúfková, PhD., MUDr. Zuzana Nižňanská, PhD., MUDr. Monika Borošová, PhD., MUDr. Petra Oťapková, PhD., doc. MUDr. Vladimír Ferianec, PhD., MUDr. Martin Gábor, PhD., doc. MUDr. Martin Šimko, PhD., MUDr. Júlia Hederlingová, PhD., doc. MUDr. Marián Križko, CSc.

Last change: 24.11.2016

Approved by: prof. MUDr. Juraj Šteňo, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Medicine

Course ID:	**Course title:**
LF.GPK1/L-VLa-121/16	Gynaecology and Obstetrics – practice

Educational activities:
Type of activities: practice
Number of hours:
per week: **per level/semester:** 80s
Form of the course: on-site learning

Number of credits: 3

Recommended semester: 10.

Educational level: I.II.

Prerequisites:

Course requirements:
100% attendance on practicals

Learning outcomes:
Theoretical knowledge:
acquaintance with the day-to-day work at the gynaecological-obstetric department
acquaintance with parmacological treatment in gynaecology and obstetrics
acquaintance with pre-operative and post-operative care by patient in gynaecology and obstetrics
acquaintance of knowledge of asepsis and antisepsis
Practical skills:
to conduct 2 physiological labours
assistance by gynaecological and obstetrical surgeries
the management of the patient documentation in gynaecology and obstetrics
observing of the labour and puerperium

Class syllabus:
1. acquaintance of the organisation of the work at the gynaecological and obstetrical depertment
2. under the supervision of older doctor work in a position of secondary doctor
3. the aquirement of practical skills in gynaecology and obstetrics with the main focus on conducting physiological labour, assistance by gynaecological and obstetrical surgeries and the admission and examination of gynaecological and obstetrical patient

Recommended literature:
1. Monga, A. et al.: Gynecology by ten Teachers. 19th ed. Oxford University Press, 2011. 224 p. ISBN 978-0340983546
2. Baker, P.N. et al.: Obstetrics by ten Teachers. 19th ed. Oxford University Press, 2011. 352 p. ISBN 978-0340983539
3. Binder, T. a kol. Porodnictví. Karolinum, Praha 2012. 297 s. ISBN 978–80-246-1907-1
4. Rob, L. a kol.: Gynekologie, 2. dopl. a přepr. vyd. Galén, Praha 2008. 319 s. ISBN 978-80-7262-501-7
5. Roztočil, A.: Moderní porodnictví. Grada, Praha 2008. 408 s. ISBN 978-80-247-1941-2
6. Holomáň, K. a kol.: Vybrané kapitoly z pôrodníctva. 2. vyd. Bratislava, Univerzita Komenského 2007. 212 s. ISBN 978-80-223-2286-7

7. Čech, E. a kol.: Porodnictví. Grada, Praha 2006. 546 s. ISBN 80-247-1303-9
Šuška, P. a kol.: Vybrané kapitoly z gynekológie. Bratislava, Univerzita Komenského 2003. 254 s. ISBN 80-223-1818-3

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 75

ABS0
100,0

Lecturers: prof. MUDr. Miroslav Borovský, CSc., prof. MUDr. Karol Holomáň, CSc., prof. MUDr. Pavel Šuška, PhD., doc. MUDr. Jozef Záhumenský, PhD.

Last change: 24.11.2016

Approved by: prof. MUDr. Juraj Šteňo, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava	
Faculty: Faculty of Medicine	
Course ID: LF.ÚHE/L-S-VLa-018/16	**Course title:** Histology and Embryology 1

Educational activities:
Type of activities: lecture / practicals
Number of hours:
per week: **per level/semester:** 28s / 38s
Form of the course: on-site learning

Number of credits: 6

Recommended semester: 2.

Educational level: I.II.

Prerequisites:

Course requirements:
Active attending of lectures and practical exercises. 100% presence on practicals (laboratory exercises). Two partial tests during semester, in failure, an additional final test. Average value of either partial tests or final test: minimum threshold of success: 60%. Evaluation: A: 95% -100%, B: 88% -94% C: 77% -87%, D: 66% -76%, E:60% -65%

Learning outcomes:
Knowledge:
Histology is the branch of science that centers on the microscopic morphology (structure) of cells, tissues and organs within the organism. The study of histology allows medical students to acquire knowledge of the microscopic structure of cells, tissues and organs of normal human body. Knowledge forms the bases for the study of Physiology and Pathology.
The aim of the first course of Histology and Embryology is the knowledge about cytology (cell biology), histological technique and general histology (4 types of tissues).
Skills:
Observation and study of tissue structures at light and electron microscopic levels; study of the relationship between tissue structure and function. Practical knowledge about microscopic differences between different types of human tissues.

Class syllabus:
Overview of methods used in histology. Light and electron microscopy. Preparation of histological sections for light microscopy. Common stains used for light microscopy. Histochemistry and immunohistochemistry. The functional structure of the different components of the cell. Cell cycle. Epithelial tissue (characteristics, classifications, types and the common sites of each type). The structure of the cell junctions and the basement membrane. Connective tissue proper. Fixed and free cells of connective tissue proper. Extracellular matrix: fibers and ground substance. The types of connective tissues. Functional morphology and clinical significance of blood elements (red blood cells, white blood cells, platelets). Bone marrow and hemopoiesis. Cartilage and Bone. Intramembranous and endochondral ossification. Growth of bone. Repair of bone after fracture. Microscopic structure of synovial joints. Muscle tissue. Functional histology of skeletal, smooth and cardiac muscles. Ultrastructure of skeletal muscle fibers. Impulse conductive system of the heart. Nervous tissue. Neurons and neuroglia. Functional ultrastructure of neurons and supporting

glial cells. Synapses. Microscopic structure of the gray and white mater. Microscopic structure of the circulatory system (heart, blood and lymph vessels).

Recommended literature:

Histology:

Pawlina W. Histology. A Text and Atlas with Correlated Cell and Molecular Biology. 7th Edition. Philadelphia: Wolter Kluwer Health, 2016, 984 pp.
Kierszenbaum AL, Tres LL. Histology and Cell Biology. An Introduction to Pathology. Fourth Edition. Philadelphia: Elsevier Saunders, 2016. 734 pp.
Adamkov M. (Ed). Introduction to Functional Histology. Textbook. Second Revised and Updated Edition. Martin: P+M Turany 2013, 425 pp.
Gartner LP, Hiatt JL. Color Atlas and Text of Histology. Philadelphia: Wolters Kluwer Lippincott Williams a Wilkins 2014, 525 pp.
Mescher AL. Junqueira´s Basic Histology. Text and Atlas. 14th Edition. New York, McGraw-Hill Education 2016, 560 pp.
Eroschenko VP. diFiore´s Atlas of Histology with Functional Correlations. Twelfth Edition. Philadelphia: Lippincott Williams a Wilkins 2013, 603 pp.

Embryology:

Schoenwolf GC, Bleyl SB, Brauer PR, Francis-West PH. Larsen´s Human Embryology. Fifth Edition. Philadelphia: Elsevier Churchill Livingstone. 2015. 554p.
Moore KL, Persaud TVN, Torchia MG. The Developing Human. Clinically Oriented Embryology. 10th Edition. Philadelphia: Elsevier 2016, 524 pp.
Carlson B. Human Embryology and Developmental Biology. Fifth Edition. Philadelphia: Elsevier Saunders 2014, 506 pp.
Sadler TW. Langman´s Medical Embryology. Twelfth Edition. Philadelphia: Wolters Kluwer Lippincott Williams a Wilkins 2012, 384 pp.

Languages necessary to complete the course:

Notes:

Past grade distribution

Total number of evaluated students: 298

A	B	C	D	E	FX
4,7	15,1	31,54	16,44	30,54	1,68

Lecturers: prof. MUDr. Štefan Polák, CSc., doc. RNDr. Ivan Varga, PhD., MUDr. Paulína Gálfiová, PhD., MVDr. Ján Líška, CSc., MUDr. Peter Michalka, PhD., MUDr. Mgr. Michal Miko, PhD., MUDr. Renáta Mikušová, PhD., MUDr. Simona Polakovičová, PhD., MUDr. Vanda Rísová, PhD., Mgr. Michaela Vrabcová, PhD., RNDr. Mária Csöbönyeiová, PhD., Mgr. Miroslava Juríková, PhD., MUDr. Martin Klein, MUDr. Mária Lorencová, MUDr. Abdolreza Majidi

Last change: 08.12.2016

Approved by: prof. MUDr. Juraj Šteňo, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Medicine

Course ID:	**Course title:**
LF.ÚHE/L-S-VLa-019/17	Histology and Embryology 2

Educational activities:
Type of activities: lecture / laboratory practicals
Number of hours:
per week: **per level/semester:** 28s / 38s
Form of the course: on-site learning

Number of credits: 7

Recommended semester: 3.

Educational level: I.II.

Prerequisites: LF.ÚHE/L-S-VLa-018/16 - Histology and Embryology 1

Course requirements:
Active attending of lectures and practical exercises. 100% presence on practicals (laboratory exercises). Two partial tests during semester, in failure, an additional final test. Average value of either partial tests or final test: minimum threshold of success: 60%. Evaluation: A: 95% -100%, B: 88% -94% C: 77% -87%, D: 66% -76%, E:60% -65%
Final Examination:
Practical part – evaluation and recognition of 10 undescribed histological slides from different organs (successful recognition of at least 7 of them)
Theoretical part - 3 randomly selected questions (Histological technique, cytology and general histology; Microscopic anatomy; Embryology)
The final evaluation is an average of all parts of examinations (tests, practical and oral parts).

Learning outcomes:
Knowledge:
Histology is the branch of science that centers on the microscopic morphology (structure) of cells, tissues and organs within the organism. The study of histology allows medical students to acquire knowledge of the microscopic structure of cells, tissues and organs of normal human body. Knowledge forms the bases for the study of Physiology and Pathology.
The aim of the first course of Histology and Embryology is the knowledge about microscopic structure and development of organs of human body, with a special emphasis on the orofacial region.
Skills:
Observation and study of organs at light and electron microscopic levels; study of the relationship between tissue structure and function. Practical knowledge about microscopic differences between different organs and organ system of human body.

Class syllabus:
Course syllabus summary:
Functional histology of the lymphatic system: cells of immune system, lymphoid tissue (diffuse lymphoid tissue and lymph nodules), lymphoid organs (lymph nodes, thymus, spleen). Functional histology of the digestive system - mouth, teeth, salivary glands, oesophagus, stomach, small intestine, large intestine, liver, gall bladder, pancreas. Functional histology of the respiratory system - nasal cavity, pharynx, larynx, trachea, bronchi, bronchioles, alveoli. Functional histology of the

endocrine glands, neuroendocrine hypothalamic-pituitary system, adrenal glands, thyroid gland, parathyroid glands, pineal gland. Microscopic structure and function of the kidney, urinary tract and urinary bladder. Microscopic structure and function of the male reproductive system. Microscopic structure and function of the female reproductive system. Microscopic structure and function of skin and adnexa. Microscopic structure and function of eye. Microscopic structure and function of ear. Spermiogenesis and oogenesis. Ultrastructure of spermatozoa and oocyte during ovulation. Fertilization. Cleavage of the zygote and development of the blastocyst. Implantation of the blastocyst into endometrium. Decidual reaction. Clinical embryology and an assisted reproduction. Bilaminar and trilaminar germ disc. Amniotic cavity, yolk sac and chorionic cavity. Formation of the twins and their fetal membranes. Somites. Development of notochord and neural tube (neurulation). Neural crest and its derivatives. Development an functional morphology of placenta. Placentar barrier. Blood vessels and heart formation. Development of the cardiovascular system. Development of large arteries and abnormalities of the cardiovascular system. Circulatory changes at birth. Development of vertebrae and spinal cord. Development of limbs. Development of gastrointestinal system and its abnormalities. Development of respiratory system and its abnormalities. Development of urinary system and its abnormalities. Development of genital system and abnormalities. Pharyngeal arches and the development of face and neck. Development of ear. Development of eye. Development of skin and its derivatives. Development of central nervous system and autonomous nervous system. Neural tube defects.

Recommended literature:

Recommended literature:

Histology:

1. Pawlina W. Histology. A Text and Atlas with Correlated Cell and Molecular Biology. 7th Edition. Philadelphia: Wolter Kluwer Health, 2016, 984 pp.
2. Kierszenbaum AL, Tres LL. Histology and Cell Biology. An Introduction to Pathology. Fourth Edition. Philadelphia: Elsevier Saunders, 2016. 734 pp.
3. Adamkov M. (Ed). Introduction to Functional Histology. Textbook. Second Revised and Updated Edition. Martin: P+M Turany 2013, 425 pp.
4. Gartner LP, Hiatt JL. Color Atlas and Text of Histology. Philadelphia: Wolters Kluwer Lippincott Williams a Wilkins 2014, 525 pp.
5. Mescher AL. Junqueira´s Basic Histology. Text and Atlas. 14th Edition. New York, McGraw-Hill Education 2016, 560 pp.
6. Eroschenko VP. diFiore´s Atlas of Histology with Functional Correlations. Twelfth Edition. Philadelphia: Lippincott Williams a Wilkins 2013, 603 pp.

Embryology:

1. Schoenwolf GC, Bleyl SB, Brauer PR, Francis-West PH. Larsen´s Human Embryology. Fifth Edition. Philadelphia: Elsevier Churchill Livingstone. 2015. 554 p.
2. Moore KL, Persaud TVN, Torchia MG. The Developing Human. Clinically Oriented Embryology. 10th Edition. Philadelphia: Elsevier 2016, 524 pp.
3. Carlson B. Human Embryology and Developmental Biology. Fifth Edition. Philadelphia: Elsevier Saunders 2014, 506 pp.
4. Sadler TW. Langman´s Medical Embryology. Twelfth Edition. Philadelphia: Wolters Kluwer Lippincott Williams a Wilkins 2012, 384 pp.

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 122

A	B	C	D	E	FX
18,03	13,93	18,03	10,66	16,39	22,95

Lecturers: doc. RNDr. Ivan Varga, PhD., prof. MUDr. Štefan Polák, CSc., MUDr. Paulína Gálfiová, PhD., MVDr. Ján Líška, CSc., MUDr. Peter Michalka, PhD., MUDr. Renáta Mikušová, PhD., MUDr. Simona Polakovičová, PhD., MUDr. Vanda Rísová, PhD., RNDr. Mária Csöbönyeiová, PhD., Mgr. Michaela Vrabcová, PhD., Mgr. Miroslava Juríková, PhD., MUDr. Martin Klein, MUDr. Mgr. Michal Miko, PhD.

Last change: 21.03.2018

Approved by: prof. MUDr. Juraj Šteňo, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Medicine

Course ID:	**Course title:**
LF.ÚHE/L-VLa-010/00	Histology and Embryology 2

Educational activities:
Type of activities: lecture / laboratory practicals
Number of hours:
per week: **per level/semester:** 28s / 38s
Form of the course: on-site learning

Number of credits: 6

Recommended semester: 3.

Educational level: I.II.

Prerequisites:

Course requirements:
Active attending of lectures and practical exercises. 100% presence on practicals (laboratory exercises). Two partial tests during semester, in failure, an additional final test. Average value of either partial tests or final test: minimum threshold of success: 60%. Evaluation: A: 95% -100%, B: 88% -94% C: 77% -87%, D: 66% -76%, E:60% -65%
Final Examination:
Practical part – evaluation and recognition of 10 undescribed histological slides from different organs (successful recognition of at least 7 of them)
Theoretical part - 3 randomly selected questions (Histological technique, cytology and general histology; Microscopic anatomy; Embryology)
The final evaluation is an average of all parts of examinations (tests, practical and oral parts).

Learning outcomes:
Knowledge:
Histology is the branch of science that centers on the microscopic morphology (structure) of cells, tissues and organs within the organism. The study of histology allows medical students to acquire knowledge of the microscopic structure of cells, tissues and organs of normal human body. Knowledge forms the bases for the study of Physiology and Pathology.
The aim of the first course of Histology and Embryology is the knowledge about microscopic structure and development of organs of human body, with a special emphasis on the orofacial region.
Skills:
Observation and study of organs at light and electron microscopic levels; study of the relationship between tissue structure and function. Practical knowledge about microscopic differences between different organs and organ system of human body.

Class syllabus:
Functional histology of the lymphatic system: cells of immune system, lymphoid tissue (diffuse lymphoid tissue and lymph nodules), lymphoid organs (lymph nodes, thymus, spleen). Functional histology of the digestive system - mouth, teeth, salivary glands, oesophagus, stomach, small intestine, large intestine, liver, gall bladder, pancreas. Functional histology of the respiratory system - nasal cavity, pharynx, larynx, trachea, bronchi, bronchioles, alveoli. Functional histology of the endocrine glands, neuroendocrine hypothalamic-pituitary system, adrenal glands, thyroid gland,

parathyroid glands, pineal gland. Microscopic structure and function of the kidney, urinary tract and urinary bladder. Microscopic structure and function of the male reproductive system. Microscopic structure and function of the female reproductive system. Microscopic structure and function of skin and adnexa. Microscopic structure and function of eye. Microscopic structure and function of ear. Spermiogenesis and oogenesis. Ultrastructure of spermatozoa and oocyte during ovulation. Fertilization. Cleavage of the zygote and development of the blastocyst. Implantation of the blastocyst into endometrium. Decidual reaction. Clinical embryology and an assisted reproduction. Bilaminar and trilaminar germ disc. Amniotic cavity, yolk sac and chorionic cavity. Formation of the twins and their fetal membranes. Somites. Development of notochord and neural tube (neurulation). Neural crest and its derivatives. Development an functional morphology of placenta. Placentar barrier. Blood vessels and heart formation. Development of the cardiovascular system. Development of large arteries and abnormalities of the cardiovascular system. Circulatory changes at birth. Development of vertebrae and spinal cord. Development of limbs. Development of gastrointestinal system and its abnormalities. Development of respiratory system and its abnormalities. Development of urinary system and its abnormalities. Development of genital system and abnormalities. Pharyngeal arches and the development of face and neck. Development of ear. Development of eye. Development of skin and its derivatives. Development of central nervous system and autonomous nervous system. Neural tube defects.

Recommended literature:

Histology:
Pawlina W. Histology. A Text and Atlas with Correlated Cell and Molecular Biology. 7th Edition. Philadelphia: Wolter Kluwer Health, 2016, 984 pp.
Kierszenbaum AL, Tres LL. Histology and Cell Biology. An Introduction to Pathology. Fourth Edition. Philadelphia: Elsevier Saunders, 2016. 734 pp.
Adamkov M. (Ed). Introduction to Functional Histology. Textbook. Second Revised and Updated Edition. Martin: P+M Turany 2013, 425 pp.
4. Gartner LP, Hiatt JL. Color Atlas and Text of Histology. Philadelphia: Wolters Kluwer Lippincott Williams a Wilkins 2014, 525 pp.
5. Mescher AL. Junqueira´s Basic Histology. Text and Atlas. 14th Edition. New York, McGraw-Hill Education 2016, 560 pp.
6. Eroschenko VP. diFiore´s Atlas of Histology with Functional Correlations. Twelfth Edition. Philadelphia: Lippincott Williams a Wilkins 2013, 603 pp.
Embryology:
1. Schoenwolf GC, Bleyl SB, Brauer PR, Francis-West PH. Larsen´s Human Embryology. Fifth Edition. Philadelphia: Elsevier Churchill Livingstone. 2015. 554 p.
2. Moore KL, Persaud TVN, Torchia MG. The Developing Human. Clinically Oriented Embryology. 10th Edition. Philadelphia: Elsevier 2016, 524 pp.
3. Carlson B. Human Embryology and Developmental Biology. Fifth Edition. Philadelphia: Elsevier Saunders 2014, 506 pp.
4. Sadler TW. Langman´s Medical Embryology. Twelfth Edition. Philadelphia: Wolters Kluwer Lippincott Williams a Wilkins 2012, 384 pp.

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 1484

A	B	C	D	E	FX
8,49	10,65	17,99	19,34	31,06	12,47

Lecturers: prof. MUDr. Štefan Polák, CSc., doc. RNDr. Ivan Varga, PhD., MUDr. Paulína Gálfiová, PhD., MVDr. Ján Líška, CSc., MUDr. Peter Michalka, PhD., MUDr. Renáta Mikušová, PhD., MUDr. Simona Polakovičová, PhD., MUDr. Vanda Rísová, PhD., RNDr. Mária Csöbönyeiová, PhD., Mgr. Michaela Vrabcová, PhD., Mgr. Miroslava Juríková, PhD., MUDr. Martin Klein, MUDr. Mgr. Michal Miko, PhD.

Last change: 08.12.2016

Approved by: prof. MUDr. Juraj Šteňo, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Medicine

Course ID:	**Course title:**
LF.ÚH/L-VLa-053/00	Hygiene

Educational activities:
Type of activities: lecture / laboratory practicals
Number of hours:
per week: **per level/semester:** 12s / 24s
Form of the course: on-site learning

Number of credits: 2

Recommended semester: 8.

Educational level: I.II.

Prerequisites: LF.ÚPA/L-VLa-043/00 - Pathological Anatomy 2 and LF.ÚPF/L-VLa-045/00 - Pathological Physiology 2

Course requirements:
100 % participation in practical lessons
Written test (students need at least to achieve 75 % to pass the written part of an exam)
Evaluation of the test: A: 96 – 100 % , B: 91 – 95 % , C: 86 – 90 % , D: 81 – 85 % , E: 75 –80 %, Fx: < 75 %
Oral exam - consists of 3 questions
Total score is determined from the average of received ratings

Learning outcomes:
Knowledge:
- about regularities of environmental impact on public health
- about health protection and promotion in the population and individual level
- about preventive medicine principles
- the basic legislation in this area

Skills:
- to control the basic methods for some internal and external environmental factors and the health status of different population groups monitoring
- to assess the health-nutritional status and formulate the necessary correction in order to protect the health of individuals and population groups, and the prevention of diseases
- to communicate with the public about the issue of environmental, behavioural and psychosocial factors and health at the appropriate level
- to work independently in the counseling
- the ability to use the results for general practice, pediatrics

Class syllabus:
Living conditions and health. Environment and its factors - chemical, physical, biological and psychosocial. Education, training, lifestyle in relation to health. Air pollution in the external and internal environment and morbidity. Water and morbidity. Hazardous waste. Non-ionizing radiation. The health risks of ionizing radiation. Environmental noise. Urbanization and residential environment in relation to health. Health risks associated with nutrition. Alternative methods in nutrition. Xenobiotics. Environmental factors related to infectious diseases. Environmental

issues and chronic diseases. Basics of psychohygiene /mental health. Alcoholism, drug addiction and the environment. Age and physiological peculiarities in primary prevention. Hygiene of educational process. Environmental health risks in children and adolescents. Work and health, occupational hazards and risks, accidents at work. Physical factors in the occupational environment. Toxic chemicals in the occupational environment. Health damage, exposures and work-related diseases, selected occupational risk categories. Regimen of work and rest and prevention of occupational diseases. Hospital hygiene, outpatient departments and hospital wards. Nosocomial infections. The documentation in environmental medicine, legislation. Health risk assessment and risk management. Preparedness in emergency situations (natural and technological disasters, war conflicts, terrorism), compensatory accommodation, water supply, nutrition in emergency situations.

Recommended literature:

Ševčíková Ľ. and contributors: Hygiene – Environmetal Medicine. Bratislava: Comenius University, 2011. 322 s. ISBN 978-80-223-2900-2.
Ševčíková Ľ. and contributors: Environmental Health- Hygiene. Bratislava : Comenius University, 2015. 253 s. ISBN 978-80-223-3930-8
Babjaková J., Sekretár S. Nutrition and Food Safety in Public Health. Bratislava: Comenius University, 2015. 136 p. ISBN 978-80-223-3932-2

Languages necessary to complete the course:

Notes:

Past grade distribution

Total number of evaluated students: 893

A	B	C	D	E	FX
39,53	28,11	17,92	8,51	4,82	1,12

Lecturers: prof. MUDr. Ľudmila Ševčíková, CSc., doc. MUDr. Ľubica Argalášová, PhD., prof. MUDr. Jana Jurkovičová, CSc., MUDr. Jana Babjaková, PhD., MPH, Mgr. Alexandra Filová, PhD., RNDr. Diana Vondrová, PhD.

Last change: 08.12.2016

Approved by: prof. MUDr. Juraj Šteňo, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava	
Faculty: Faculty of Medicine	
Course ID: LF.IÚ/L-VLa-027/00	**Course title:** Immunology
Educational activities: **Type of activities:** lecture / laboratory practicals **Number of hours:** **per week:** **per level/semester:** 36s / 18s **Form of the course:** on-site learning	
Number of credits: 5	
Recommended semester: 4.	
Educational level: I.II.	
Prerequisites: LF.ÚLChB/L-S-VLa-037/16 - Medical Chemistry and LF.ÚLBG/L-S-VLa-007/16 - Biology and Human Genetics 2	
Course requirements: - 80% participation on practicals - to pass two written test at least on 60% Exam: written part: to pass the final test at minimally 60% oral exam: 3 questions Evaluation of the test: A:91-100%, B: 81-99%, C:73-80%, D: 66-72%, E:60-65%, Fx:≤ 59%.	
Learning outcomes: Knowledge: To gain knowledge of general (tisssues, organs, cells, mediators and reactions of immune system) and clinical immunology (allergy, autoimmunity, transplantation, hypersensitivity reactions, inflammation, sepsis, immunodeficiencies, , AIDS, ….), preferentially those with symptomathology in mouth cavity. Student should understand the role of immune system in the pathogenesis of different diseases. To gain knowledge concerning cooperation of immune system with other systems (nerve system, endocrine system) and the linkage with psyche (psycho-neuro-endocrine immune supersystem) – a holistic view. The role of microbiom. To gain knowledge about symptomathology of different immune system mediated diseases and abnormalities in mouth cavity, and based on knowledge to establish a predicted diagnosis. Skills: 1. to recognize life threatening immune system mediated diseases – states, when the early diagnosis and treatment can contribute to recovery or at least stabilize the patient (anaphylaxis, serum sickness, pseudoallergie, immunodeficiencies and others). 2. to interprete the results of laboratory immunological tests (eg. titer of antibodies, levels of IgM, IgG, IgA antibodies, the occurence of autoantibodies, the results of immune profil of the patients. 3. to handle blood sampling, the way of blood sampling, to know which type of tubes and chemical substances are necessary for serum, plasma or DNA isolation. To know time intervals for repeated measurments and to be able to explain the obtained results. 4. to handle basic laboratory work habits - collection of blood, making blood smear, working with a microscope, pipetting, the isolation of serum and plasma.	

Class syllabus:

Lectures: Immunology, forms of immunity, tissues and organs of immune system. Antigen – complete, incomplete, immunogenicity, specificity and characteristics of antigen. Antibodies, their structure, function, biologic activities. Monoclonal antibodies. Complement system. Phagocytosis. PRR receptors, alarmins, PAMPs and DAMPs. Inflammation, acute phase proteins. Sepsis and MODS. Cytokines, polarization of T cells. Antiinfectious immunity. T-, NK- and NKT-lymphocytes. Membranous antigens. HLA complex and its biologic and medical importance. Tissue and organ transplantations. Antigen presentation and development of immune response. Hypersensitivity reactions. Anafylaxis, atopy, oral allergic syndrome. Serum shock, serum diasease, peudoallergies. Autoimmunity - mechanisms of its development, diagnosis and therapy. Central and peripheral tolerance. Primary and secondary immune deficiencies and their symptoms. AIDS. Immunosupression and immunostimulation. Therapy with monoclonal antibodies and cytokines.

Practicals/interships: Serologic reactions and their role in immunodiagnosis. Laboratory diagnosis of AIDS. Examination of the immune profile of the subject – methods for determination of the activity of both non-specific (humoral, cellular), and specific (cellular and humoral) immunity. Determination and monitoring of inflammation. Methods of transplantation immunology. In vivo and in vitro tests for the diagnosis of allergies. Laboratory diagnosis of autoimmunity.

Recommended literature:

Obligatory textbook

Buc M: Basic and Clinical Immunology. 3. Bratislava: Comenius University 2014, 305 p.

Shawkatová I. et al. Laboratory methods in Immunology, Bratislava: Comenius University 2014, 184 p.

Recommended textbooks

Abbas AK, Lichtman, AH, Pillai S: Cellular and Molecular Immunology. 7th ed. New York: Elsevier, Saunders 2012, 545 s.

Doan T, Melvold R, Viselli S, Waltenbaugh C: Immunology&. 2nd ed. Philadelphia: Lippincot Williams & Wilkins 2013, 376 p.

Bellanti JA (Ed.) Immunology IV. Clinical Applications in Health and Disease. Bethesda: I care Press 2012, 1063 p.

Chapel H, Haeney M, Misbah S, Snowden N.: Essentials of Clinical Immunology. Willey Oxford: Blackwell 2014, 365 p.

Languages necessary to complete the course:

Notes:

Past grade distribution

Total number of evaluated students: 1503

A	B	C	D	E	FX
8,98	9,58	12,31	14,5	35,13	19,49

Lecturers: doc. MUDr. Mária Bucová, CSc., prof. MUDr. Milan Buc, DrSc., doc. RNDr. Vladimíra Ďurmanová, PhD., doc. Mgr. Ivana Shawkatová, PhD., MUDr. Monika Homolová, PhD., MUDr. Juraj Javor, PhD., MUDr. Zuzana Párnická, PhD., MUDr. Magda Suchánková, PhD.

Last change: 05.12.2016

Approved by: prof. MUDr. Juraj Šteňo, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava	
Faculty: Faculty of Medicine	
Course ID: LF.KIGM/L-VLa-075/16	**Course title:** Infectology
Educational activities: **Type of activities:** lecture / practicals **Number of hours:** **per week:** **per level/semester:** 12s / 25s **Form of the course:** on-site learning	
Number of credits: 2	
Recommended semester: 9., 10..	
Educational level: I.II.	
Prerequisites:	
Course requirements: 100 % attendance during practicals - report of semestral the - written and oral report of patient´s case Exam: - written part – test (minimum 60 %) - oral part – 3 questions Test evaluation: A: 91 – 100%, B: 81 – 90%, C: 73 – 80%, D: 66 – 72%, E: 60 – 65% Fx: 59% and less Final evaluation will be determined from the average of the values	
Learning outcomes: Knowledge: Acquirement a general overview on the diagnosis, differential diagnosis, treatment and prevention of infectious diseases. Acquirement of the knowledge about diseases and syndromes caused by various infections. Skills: Acquirement a skills to diagnose and treat infectious diseases. The ability to compile an optimal algorithm for the diagnosis of infectious diseases, the ability to indicate an invasive and non-invasive examination (for example lumbal puncture). The ability to assess the current blood smear, blood smear to malaria and screening parasitologic examination of the stool. The ability to indicate the antibiotic, antivirotic and antiparasitic treatment of the first line.	
Class syllabus: Pathogen-host interaction, the course of infectious diseases, haematological, metabolic and biochemical changes in infectious diseases. Common syndromes and specific problems. Infections of the central nervous system, infections of the respiratory system, infectious diarrhoeal diseases, urinary tract infections, cardiovascular infections, sepsis, infections related to trauma, bone and joint infections, Infections of the liver, exanthematic infections. Dif. diagnosis of splenomegaly, hepatomegaly, lymphadenopathies and eosinophila. Imported infections incl. tropical infections, HIV inf./AIDS, Nosocomial infections, Infections in compromised host, in pregnancy, in the newborn and infections in elderly. Lectures: Pathogen-host interaction, clinical manifestation of infectious diseases. Principles of diagnosis, therapy, prevention and prophylaxis of infectious diseases. Diarrhoeal diseases,	

neuroinfections, tick-born infections, imported infections, HIV/AIDS, viral hepatitis and other infections of the liver and biliary tract, most common intestinal parasitic infections, infections of the upper and lower respiratory tract, Syllabus of practical training: Representative case reports, workshops, management of case records and other documentation of the department, practical training in the laboratory (Giemsa-smears for malaria, cerebrospinal fluid cytology). Rational indication of the laboratory diagnostic tests, taking, collecting and manipulation of biological material for laboratory examination. Prevention of nosocomial infections

Recommended literature:

Infectious diseaes. Jiřina Hobstova (ed.) Charles University in Prague – Karolinum Press 2012. 246 p.
SL Gorbach, M. Falagas. The 5-Minute Infectious Diseases Consult.2ND Edition. London. Lippincott Williams & Wilkins. 2012. 519 p.
Selected questions from the chapters in the textbook Harison´s. Principles of Internal Medicine, 19th edition. McGraw-Hill Companies, 2013 Principles of Internal Medicine.
Selected questions from the chapters in the textbook Mandell, Douglas and Bennett. Principles and Practice of Infectious Diseases. Seventh edition. Churchill Livingstone, Philadelphia 2015. 3904

Languages necessary to complete the course:

Notes:

Past grade distribution

Total number of evaluated students: 193

A	B	C	D	E	FX
30,57	31,09	19,69	6,74	10,36	1,55

Lecturers: doc. MUDr. Igor Stankovič, CSc., MUDr. Peter Sabaka, PhD., MUDr. Pavlína Bukovinová, PhD., MUDr. Matej Bendžala, PhD.

Last change: 07.12.2016

Approved by: prof. MUDr. Juraj Šteňo, DrSc.

STATE EXAM DESCRIPTION

University: Comenius University in Bratislava	
Faculty: Faculty of Medicine	
Course ID: LF.IK/L-VLa-ŠS-3/15	**Course title:** Internal Medicine
Number of credits: 2	
Recommended semester: 11., 12..	
Educational level: I.II.	
State exam syllabus:	
Last change:	
Approved by: prof. MUDr. Juraj Šteňo, DrSc.	

COURSE DESCRIPTION

University: Comenius University in Bratislava	
Faculty: Faculty of Medicine	
Course ID: LF.IK_1/L-VLa-034/11	**Course title:** Internal Medicine 1
Educational activities: **Type of activities:** lecture / laboratory practicals **Number of hours:** **per week:** **per level/semester:** 29s / 40s **Form of the course:** on-site learning	
Number of credits: 3	
Recommended semester: 6.	
Educational level: I.II.	
Prerequisites: LF.IK_1/L-VLa-040/11 - Internal Propedeutics	
Course requirements: Compulsory 100% attendance at the practicals Pass the final written test (minimal score 60%) Evaluation of the test: A: 91 - 100 %, B: 81 – 99 %, C: 73 – 80 %, D: 66 – 72 %, E: 60 – 65 %, Fx: 59 % and less	
Learning outcomes: Knowledge: - Basic knowledge of cardiology –diseases pathophysiology, epidemiology and the impact of the disease, basic signs and symptoms, diagnostics and differential diagnostics, basics of the prevention and treatment - Basic knowledge of angiology – pathophysiology of the diseases of arteries, veins and lymphatic vessels, epidemiology and the impact of the disease, basic signs and symptoms, diagnostics and differential diagnostics, basis of the prevention and treatment - ECG examination – improvement of the knowledge, basic pathological findings on ECG and their correlation with clinical condition - Auxiliary examination methods and therapeutic interventions in cardiology and angiology - Improvement of the knowledge of the Internal propedeutics Skills: - Improvement of the skills when taking history and of the patient's clinical examination - Independent examination of the patient with the cardiovascular diseases, elaboration of the patient's medical record - Description of the physiological and pathophysiological findings on the ECG - Description of the chest X-ray (heart and lungs) - Assistance by echocardiography and ergometry - Assistance by ultrasound examination of the vein system of the lower extremities - Venepuncture, collection of venous and arterial blood, administration of i.v., i.m. and s.c. medication, measurement of blood pressure, pulse and body temperature	
Class syllabus: Cardiovascular diseases (incidence, epidemiology, social status). Basic and special examinations in cardiology (ECG, chest X-ray, echocardiography, ergometry, coronarography, Holter-	

monitoring of blood pressure and ECG). Heart failure. Failure of peripheral circulation (shock, syncope). Acquired valvular disfunctions. Myocarditis. Cardiomyopathy. Endocarditis. Pericarditis. Aterosclerosis. Ischemic heart disease. Dysrhytmia. Hypertension. Peripheral vascular diseases. Aortic diseases. Neurocirculatory asthenia.

Recommended literature:

Kumar, P., Clark, M. Kumar and Clark´s Clinical Medicine. Philadelphia: Saunders Ltd., 2012.1352 s. ISBN-13: 978-0-7020-449-91

Longo, D, Fauci, A., Kasper, D., Hauser, S., Loscalzo J. Harrison´s Priniciples of Internal Medicine 18th ed. New York: McGraw-Hill, 2011. 1796 pp. ISBN 978-0-07-163244-7

Goldman, L. et al. Goldman´s cecil medicine. Philadelphia: W.B.Saunders, 2012. 2569 s. ISBN 9781437716047

Colledge, N.R. et al. Davidson´s Principles and Practice of Medicine. Edinburgh: Churchill Livingstone, 2010. 1376 pp. ISBN 978-0-7020-3085-7

Languages necessary to complete the course:

Notes:

Past grade distribution

Total number of evaluated students: 755

A	B	C	D	E	FX
9,01	23,31	33,11	16,95	15,5	2,12

Lecturers: prof. MUDr. Juraj Payer, PhD., MPH, prof. MUDr. Andrej Dukát, CSc., prof. MUDr. Ján Murín, CSc., prof. MUDr. Stanislav Oravec, CSc., prof. MUDr. Peter Ponťuch, CSc., prof. MUDr. Viera Štvrtinová, PhD., doc. MUDr. Jozef Bulas, CSc., prof. MUDr. Ľudovít Gašpar, CSc., doc. MUDr. Peter Gavorník, PhD., prof. MUDr. Tibor Hlavatý, PhD., doc. MUDr. Zdenko Killinger, PhD., doc. MUDr. Soňa Kiňová, PhD., doc. MUDr. Ján Lietava, CSc., doc. MUDr. Ľudovít Lukáč, PhD., MUDr. Martin Čaprnda, PhD., MUDr. Denisa Čelovská, PhD., doc. MUDr. Peter Jackuliak, PhD., doc. MUDr. Tomáš Koller, PhD., MUDr. Marek Kučera, PhD., MPH, MUDr. Monika Szamosová, prof. MUDr. Viliam Bada, CSc., doc. MUDr. Mária Szántová, PhD., MUDr. Miloš Števove, MUDr. Zuzana Ďurkovičová, MUDr. Michaela Fedelešová, PhD., MUDr. Tereza Hlavatá, prof. MUDr. Viera Kupčová, CSc., doc. MUDr. Viliam Mojto, CSc., MUDr. Katarína Bobocká, PhD., MUDr. Miroslav Budaj, PhD., MUDr. Jozef Kalužay, PhD., MUDr. Mgr. Zuzana Mináriková, PhD., MUDr. Veronika Pokorná, PhD., MPH, MUDr. Kristína Brázdilová, PhD., MUDr. Patrícia Páleníková, PhD., MUDr. Katarína Hrubišková, MUDr. Jana Kollerová, MUDr. Anna Krajčovičová, PhD., MUDr. Martin Kužma, PhD.

Last change: 05.12.2016

Approved by: prof. MUDr. Juraj Šteňo, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava	
Faculty: Faculty of Medicine	
Course ID: LF.IK3/L-VLa-035/11	**Course title:** Internal Medicine 2
Educational activities: **Type of activities:** lecture / laboratory practicals **Number of hours:** **per week:** **per level/semester:** 36s / 30s **Form of the course:** on-site learning	
Number of credits: 3	
Recommended semester: 7.	
Educational level: I.II.	
Prerequisites: LF.IK_1/L-VLa-034/11 - Internal Medicine 1	
Course requirements: Compulsory 100% attendance at the practicals Pass the final written test (minimal score 60%) Evaluation of the test: A: 91 - 100 %, B: 81 – 99 %, C: 73 – 80 %, D: 66 – 72 %, E: 60 – 65 %, Fx: 59 % and less	
Learning outcomes: Knowledge: - Basic knowledge of pneumology and ftizeology – disease pathophysiology, epidemiology and the impact of the disease, signs and symptoms, diagnostics and differential diagnostics, basis of the prevention and treatment, including tuberculosis - Auxiliary examinations and therapeutic interventions in pneumology - Basic knowledge from rheumatology - disease pathophysiology, epidemiology and the impact of the disease, signs and symptoms, diagnostics and differential diagnostics, basis of the prevention and treatment - Auxiliary examinations and therapeutic interventions in rheumatology - Improvement of the knowledge of the Internal propedeutics Skills: - Improvement of the skills when taking history and of the patient's clinical examination - Independent examination of the patient with respiratory tract disease, elaboration of the patient's medical record - Independent examination of the patient with musculoskeletal disorder, elaboration of the patient's medical record - Assistance by the pleural puncture, assistance in examination of lung volumes and flows, body plethysmography, lung diffusion capacity and ergometers, assistance by the fibrobronchoscopy - Assistance by the examination at allergology - Assistance by the application of inhalant drugs including oxygen - Assistance by the evaluation of X-ray of joints, assistance by DXA and its evaluation - Improvement of the skills in describing the ECG and chest X-ray - Venipuncture, collection of venous and arterial blood, administration of i.v., i.m. and s.c. medication, measurement of blood pressure, pulse and body temperature	

Class syllabus:

Diseases of the respiratory tract and lungs (incidence, social impact). Basic and special examinations in pneumology. Bronchial diseases. Chronic obstructive pulmonary disease. Bronchial asthma. Lung tumors. Pleural and Mediastinal diseases. Diagnostics and treatment of tuberculosis. Diseases of joints, tendoms and binders. Basic and special examinations in rheumatology. Rheumatoid arthritis. Lupus erythematosus. Scleroderma. Dermatomyositis. Periarteritis nodosa. Sjőrgen's syndrome. Felty syndrome. Caplan syndrome. Still's syndrome. Juvenile rheumatoid arthritis. Palindromic rheumatism. Gout. Polymyositis. Vasculitis. Osteoporosis and other metabolic diseases of bones.

Recommended literature:

Kumar, P., Clark, M. Kumar and Clark´s Clinical Medicine. Philadelphia: Saunders Ltd., 2012.1352 s. ISBN-13: 978-0-7020-449-91

Longo, D, Fauci, A., Kasper, D., Hauser, S., Loscalzo J. Harrison´s Priniciples of Internal Medicine 18th ed. New York: McGraw-Hill, 2011. 1796 pp. ISBN 978-0-07-163244-7

Goldman, L. et al. Goldman´s cecil medicine. Philadelphia: W.B.Saunders, 2012. 2569 s. ISBN 9781437716047

Colledge, N.R. et al. Davidson´s Principles and Practice of Medicine. Edinburgh: Churchill Livingstone, 2010. 1376 pp. ISBN 978-0-7020-3085-7

Languages necessary to complete the course:

Notes:

Past grade distribution

Total number of evaluated students: 685

A	B	C	D	E	FX
17,52	38,98	24,53	11,53	7,45	0,0

Lecturers: prof. MUDr. Juraj Payer, PhD., MPH, prof. MUDr. Viliam Bada, CSc., prof. MUDr. Andrej Dukát, CSc., prof. MUDr. Viera Kupčová, CSc., prof. MUDr. Zoltán Mikeš, DrSc., prof. MUDr. Peter Ponťuch, CSc., doc. MUDr. Martin Dúbrava, CSc., prof. MUDr. Tibor Hlavatý, PhD., doc. MUDr. Soňa Kiňová, PhD., doc. MUDr. Zdenko Killinger, PhD., prof. MUDr. Silvester Krčméry, CSc., doc. MUDr. Viliam Mojto, CSc., doc. MUDr. Mária Szántová, PhD., doc. MUDr. Pavol Tisoň, CSc., MUDr. Martin Čaprnda, PhD., doc. MUDr. Peter Jackuliak, PhD., doc. MUDr. Tomáš Koller, PhD., MUDr. Silvia Semanová, MUDr. Rastislav Tahotný, PhD., doc. MUDr. Mária Tamášová, CSc., doc. MUDr. Štefan Urban, CSc., doc. MUDr. Marta Hájková, CSc., MUDr. Kristína Brázdilová, PhD., MUDr. Patrícia Páleníková, PhD., MUDr. Katarína Hrubišková, MUDr. Jana Kollerová, MUDr. Anna Krajčovičová, PhD., MUDr. Martin Kužma, PhD., MUDr. Barbara Hagarová, doc. MUDr. Ivan Majer, CSc., MUDr. Zuzana Nováčková, MUDr. Helena Novosadová, PhD., MUDr. František Sándor, PhD., MUDr. Zuzana Štrbová, PhD., MUDr. Eva Tedlová, PhD.

Last change: 05.12.2016

Approved by: prof. MUDr. Juraj Šteňo, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava	
Faculty: Faculty of Medicine	
Course ID: LF.IK3/L-VLa-036/11	**Course title:** Internal Medicine 3
Educational activities: **Type of activities:** lecture / laboratory practicals **Number of hours:** **per week:** **per level/semester:** 42s / 30s **Form of the course:** on-site learning	
Number of credits: 4	
Recommended semester: 8.	
Educational level: I.II.	
Prerequisites: LF.IK3/L-VLa-035/11 - Internal Medicine 2	
Course requirements: Compulsory 100% attendance at the practicals Pass the final written test (minimal score 60%) Evaluation of the test: A: 91 - 100 %, B: 81 – 99 %, C: 73 – 80 %, D: 66 – 72 %, E: 60 – 65 %, Fx: 59 % and less	
Learning outcomes: Knowledge: - Basic knowledge of gastroenterology and hepatology - disease pathophysiology, epidemiology and the impact of the disease, basic signs and symptoms, diagnostics and differential diagnostics, basics of the prevention and treatment - Auxiliary examinations and therapeutic interventions in gastroenterology and hepatology - Basic knowledge of haematology - disease pathophysiology, epidemiology and the impact of the disease, basic signs and symptoms, diagnostics and differential diagnostics, basics of the prevention and treatment - Auxiliary examinations and therapeutic interventions in haematology - Improvement of the knowledge of the Internal propedeutics Skills: - Improvement of the skills when taking history and of the patient's clinical examination - Independent examination of the patient with the gastrointestinal disease, elaboration of the patient's medical record - Digital rectal examination - Assistance by ascites puncture, liver puncture, gastrofibroscopy, colonoscopy, ERCP, Ultrasound of the abdomen, nasogastric tube insertion - Independent examination of the patient with haematologic disease, elaboration of the patient's medical record - Assistance by the bone marrow puncture - Administration of blood products, examination before administration - Improvement of the skills in describing the ECG and chest X-ray - Venipuncture, collection of venous and arterial blood, administration of i.v., i.m. and s.c. medication, measurement of blood pressure, pulse and body temperature	

Class syllabus:

Diseases of gastrointestinal tract (epidemiology, social impact). Basic and special examinations in gastroenterology and hepatology. Oesophageal diseases. Diseases of stomach. Functional dyspepsia. Diseases of small intestine. Inflammatory bowel diseases. Diseases of colon. Gastrointestinal tumors. Diseases of gall-bladder and biliary tract. Liver diseases. Diseases of pancreas. Anaemias and anaemic syndrome. Myelodysplastic syndrome. Myeloproliferative diseases. Hemocoagulation disorders. Leucopenias. Trombocytopenias. Acute leukemia. Malignant lymphoma, chronic lymphatic leukemia. Transfusion of blood products. Special examinations in haematology.

Recommended literature:

Kumar, P., Clark, M. Kumar and Clark´s Clinical Medicine. Philadelphia: Saunders Ltd., 2012.1352 s. ISBN-13: 978-0-7020-449-91

Longo, D, Fauci, A., Kasper, D., Hauser, S., Loscalzo J. Harrison´s Priniciples of Internal Medicine 18th ed. New York: McGraw-Hill, 2011. 1796 pp. ISBN 978-0-07-163244-7

Goldman, L. et al. Goldman´s cecil medicine. Philadelphia: W.B.Saunders, 2012. 2569 s. ISBN 9781437716047

Colledge, N.R. et al. Davidson´s Principles and Practice of Medicine. Edinburgh: Churchill Livingstone, 2010. 1376 pp. ISBN 978-0-7020-3085-7

Languages necessary to complete the course:

Notes:

Past grade distribution

Total number of evaluated students: 680

A	B	C	D	E	FX
33,09	38,53	16,18	6,18	5,74	0,29

Lecturers: prof. MUDr. Juraj Payer, PhD., MPH, prof. MUDr. Viliam Bada, CSc., prof. MUDr. Andrej Dukát, CSc., prof. MUDr. Viera Kupčová, CSc., prof. MUDr. Zoltán Mikeš, DrSc., prof. MUDr. Peter Ponťuch, CSc., doc. MUDr. Martin Dúbrava, CSc., prof. MUDr. Tibor Hlavatý, PhD., doc. MUDr. Zdenko Killinger, PhD., doc. MUDr. Soňa Kiňová, PhD., prof. MUDr. Silvester Krčméry, CSc., doc. MUDr. Viliam Mojto, CSc., doc. MUDr. Mária Szántová, PhD., doc. MUDr. Pavol Tisoň, CSc., MUDr. Martin Čaprnda, PhD., doc. MUDr. Peter Jackuliak, PhD., doc. MUDr. Tomáš Koller, PhD., MUDr. Silvia Semanová, MUDr. Rastislav Tahotný, PhD., MUDr. Matej Bendžala, PhD., MUDr. Róbert Brnka, PhD., doc. MUDr. Jozef Bulas, CSc., MUDr. Denisa Čelovská, PhD., prof. MUDr. Ľudovít Gašpar, CSc., MUDr. Andrea Komorníková, MUDr. Michal Koreň, PhD., MUDr. Marek Kučera, PhD., MPH, doc. MUDr. Ján Lietava, CSc., doc. MUDr. Ľudovít Lukáč, PhD., prof. MUDr. Ján Murín, CSc., prof. MUDr. Stanislav Oravec, CSc., MUDr. Mária Potočárová, MUDr. Peter Sabaka, PhD., doc. MUDr. Emőke Šteňová, PhD., prof. MUDr. Viera Štvrtinová, PhD., MUDr. Veronika Vyskočilová, MUDr. Katarína Bobocká, PhD., MUDr. Miroslav Budaj, PhD., MUDr. Jozef Kalužay, PhD., MUDr. Mgr. Zuzana Mináriková, PhD., MUDr. Veronika Pokorná, PhD., MPH, MUDr. Kristína Brázdilová, PhD., MUDr. Patrícia Páleníková, PhD., MUDr. Katarína Hrubišková, MUDr. Jana Kollerová, MUDr. Anna Krajčovičová, PhD., MUDr. Martin Kužma, PhD.

Last change: 05.12.2016

Approved by: prof. MUDr. Juraj Šteňo, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava	
Faculty: Faculty of Medicine	
Course ID: LF.IK_1/L-VLa-037/11	**Course title:** Internal Medicine 4
Educational activities: **Type of activities:** lecture / laboratory practicals **Number of hours:** **per week:** **per level/semester:** 26s / 50s **Form of the course:** on-site learning	
Number of credits: 5	
Recommended semester: 9.	
Educational level: I.II.	
Prerequisites: LF.IK3/L-VLa-036/11 - Internal Medicine 3	
Course requirements: Compulsory 100% attendance at the practicals Pass the final written test (minimal score 60%) Evaluation of the test: A: 91 - 100 %, B: 81 – 99 %, C: 73 – 80 %, D: 66 – 72 %, E: 60 – 65 %, Fx: 59 % and less Exam: - Successful completion of final written test (minimal score 60%) is required for the oral exam - Successful answer of 3 questions Total evaluation is determined from the average of received scores.	
Learning outcomes: Knowledge: - Basic knowledge from endocrinology and diabetology - disease pathophysiology, epidemiology and the impact of the disease, basic signs and symptoms, diagnostics and differential diagnostics, basics of the prevention and treatment - Auxiliary examinations and therapeutic interventions in endocrinology and diabetology - Basic knowledge from nephrology - disease pathophysiology, epidemiology and the impact of the disease, basic signs and symptoms, diagnostics and differential diagnostics, basics of the prevention and treatment - Auxiliary examinations and therapeutic interventions in nephrology - Improvement of the knowledge of the Internal propedeutics Skills: - Improvement of the skills when taking history and of the patient's clinical examination - Independent examination of the patient with the endocrinal disease and diabetes mellitus, elaboration of the patient's medical record - Assistance by ultrasound of the thyroid gland - Independent examination of the patient with kidney disease, elaboration of the patient's medical record - Catheterisation of urinary bladder - Improvement of the skills in describing the ECG and chest X-ray	

- Venipuncture, collection of venous and arterial blood, administration of i.v., i.m. and s.c. medication, measurement of blood pressure, pulse and body temperature

Class syllabus:

Endocrinopathies (epidemiology, social impact). Diseases of hypophysis and hypothalamus. Pituitary tumors. Acromegaly and gigantism. Hyperprolactinemia. Pineal gland disorders. Syndrome of inappropriate secretion of ADH. Diabetes insipidus. Cushing's disease and syndrome. Addison's disease. Diseases of the adrenal medulla. Parathyroid diseases. Thyroid diseases (hyper- and hypothyroidism, thyroiditis, tumors of the thyroid gland). Testicular insufficiency. Tumors of testes. Ovarian insufficiency, ovarian tumors. Paraneoplastic endocrinopathies. Diabetes mellitus and its complications. Acute and chronic renal insufficiency. Extracorporeal elimination methods. Indications for dialysis and kidney transplantation. Acute and chronic glomerulonephritis. Nephrotic syndrome. Systemic diseases with renal manifestations. Infections of urinary tract. Interstitial nephritis. Urolithiasis. Polycystic kidneys. Renal dysfunctions by other metabolic diseases. Tumors of urogenital tract.

Recommended literature:

Kumar, P., Clark, M. Kumar and Clark´s Clinical Medicine. Philadelphia: Saunders Ltd., 2012.1352 s. ISBN-13: 978-0-7020-449-91

Longo, D, Fauci, A., Kasper, D., Hauser, S., Loscalzo J. Harrison´s Priniciples of Internal Medicine 18th ed. New York: McGraw-Hill, 2011. 1796 pp. ISBN 978-0-07-163244-7

Goldman, L. et al. Goldman´s cecil medicine. Philadelphia: W.B.Saunders, 2012. 2569 s. ISBN 9781437716047

Colledge, N.R. et al. Davidson´s Principles and Practice of Medicine. Edinburgh: Churchill Livingstone, 2010. 1376 pp. ISBN 978-0-7020-3085-7

Languages necessary to complete the course:

Notes:

Past grade distribution

Total number of evaluated students: 644

A	B	C	D	E	FX
38,2	21,74	16,3	11,34	10,71	1,71

Lecturers: prof. MUDr. Juraj Payer, PhD., MPH, prof. MUDr. Viliam Bada, CSc., prof. MUDr. Andrej Dukát, CSc., prof. MUDr. Viera Kupčová, CSc., prof. MUDr. Zoltán Mikeš, DrSc., prof. MUDr. Stanislav Oravec, CSc., prof. MUDr. Peter Ponťuch, CSc., prof. MUDr. Viera Štvrtinová, PhD., doc. MUDr. Martin Dúbrava, CSc., prof. MUDr. Ľudovít Gašpar, CSc., doc. MUDr. Peter Gavorník, PhD., prof. MUDr. Tibor Hlavatý, PhD., doc. MUDr. Zdenko Killinger, PhD., doc. MUDr. Soňa Kiňová, PhD., doc. MUDr. Ján Lietava, CSc., doc. MUDr. Viliam Mojto, CSc., doc. MUDr. Mária Szántová, PhD., doc. MUDr. Pavol Tisoň, CSc., MUDr. Martin Čaprnda, PhD., MUDr. Denisa Čelovská, PhD., doc. MUDr. Tomáš Koller, PhD., MUDr. Marek Kučera, PhD., MPH, doc. MUDr. Peter Jackuliak, PhD., doc. MUDr. Jozef Bulas, CSc., prof. MUDr. Ján Murín, CSc., MUDr. Matej Bendžala, PhD., MUDr. Róbert Brnka, PhD., MUDr. Andrea Komorníková, MUDr. Michal Koreň, PhD., doc. MUDr. Ľudovít Lukáč, PhD., MUDr. Mária Potočárová, MUDr. Peter Sabaka, PhD., doc. MUDr. Emőke Šteňová, PhD., MUDr. Veronika Vyskočilová, prof. MUDr. Silvester Krčméry, CSc., MUDr. Silvia Semanová, MUDr. Rastislav Tahotný, PhD.

Last change: 05.12.2016

Approved by: prof. MUDr. Juraj Šteňo, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava	
Faculty: Faculty of Medicine	
Course ID: LF.IK_1/L-VLa-38/11	**Course title:** Internal Medicine 5
Educational activities: **Type of activities:** lecture / laboratory practicals **Number of hours:** **per week:** **per level/semester:** 26s / 45s **Form of the course:** on-site learning	
Number of credits: 3	
Recommended semester: 10.	
Educational level: I.II.	
Prerequisites: LF.IK_1/L-VLa-037/11 - Internal Medicine 4	
Course requirements: Compulsory 100% attendance at the practicals Pass the final written test (minimal score 60%) Evaluation of the test: A: 91 - 100 %, B: 81 – 99 %, C: 73 – 80 %, D: 66 – 72 %, E: 60 – 65 %, Fx: 59 % and less	
Learning outcomes: Knowledge: - Basic knowledge of geriatrics and gerontology, clinical issues of older age, care of the dying patient - Basic concepts e of occupational medicine, assessment and recognition of occupational diseases. Basic toxicological concepts. Professional damage of respiratory tract, liver and kidneys. Diseases from the long, one-sided and excessive load. Diseases from the physical factors. - Tactics of collection and processing of occupational medical history, clinical examination of the patient with suspected occupational diseases, diagnostics, treatment. Diagnostic methods by professional injuries. Work of the Centre of Toxicology. - Basics of physiotherapy and its importance in internal medicine. Physical therapy in diseases of various systems. - Basics of differential diagnostics and management of the patients with “major symptoms of internal medicine” (dyspnea, chest pain, abdominal pain, loss of consciousness) - Improvement of knowledge of Internal propedeutics Skills: - Independent examination of the geriatric patient with regard to the specifics of older age, clinical signs of diseases in older age and specifics of treatment - Physical therapy in diseases of various systems - Complex history taking from patient with an emphasis on occupational part of history, manage medical preventive examination according to risk factors at work, interpretation of hygienic survey at work, assess the eligibility to the specific job when the disease, assess the X-ray documentation by work related disease of respiratory tract, evaluate the result of spirometry in suspected occupational disease, evaluate the microcirculation of upper limbs (interpretation of the results of FPG, cooling test) when the suspection of the work related disease, examination of the patients with disease from long, excessive, one-sided load, interpretation of the results by various intoxications and preparation of the toxicological information in the Center of Toxicology	

- Cardiopulmonary resuscitation in internal medicine
- Improvement of the skills in describing the ECG and chest X-ray
- Venipuncture, collection of venous and arterial blood, administration of i.v., i.m. and s.c. medication, measurement of blood pressure, pulse and body temperature

Class syllabus:

Introduction to the diagnostics, treatment and appraisal of diseases work related and diseases caused by physical and chemical factors of environment. Diagnostics and treatment of intoxications. Assessment and recognition of occupational diseases. Definition of geriatrics and gerontology. Classification of age. Theoretical basics of gerontology and geriatrics. Social peculiarities of older age. Physiotherapy in internal medicine – the effect of physical stimulation, heat and water therapy, inhalation therapy, massage. Balneology. Climatic therapy. Physical therapy in cardiovascular diseases, diseases of respiratory tract, digestive system, musculoskeletal system. Problems in acute internal medicine. Pre-operative preparation – indications for surgery, risks assessment. Differential diagnostics of major symptoms in internal medicine (dyspnea, chest pain, abdominal pain, fever etc.)

Recommended literature:

Kumar, P., Clark, M. Kumar and Clark´s Clinical Medicine. Philadelphia: Saunders Ltd., 2012.1352 s. ISBN-13: 978-0-7020-449-91

Longo, D, Fauci, A., Kasper, D., Hauser, S., Loscalzo J. Harrison´s Priniciples of Internal Medicine 18th ed. New York: McGraw-Hill, 2011. 1796 pp. ISBN 978-0-07-163244-7

Goldman, L. et al. Goldman´s cecil medicine. Philadelphia: W.B.Saunders, 2012. 2569 s. ISBN 9781437716047

Colledge, N.R. et al. Davidson´s Principles and Practice of Medicine. Edinburgh: Churchill Livingstone, 2010. 1376 pp. ISBN 978-0-7020-3085-7

Languages necessary to complete the course:

Notes:

Past grade distribution

Total number of evaluated students: 544

A	B	C	D	E	FX
15,63	28,86	38,05	13,6	3,86	0,0

Lecturers: prof. MUDr. Juraj Payer, PhD., MPH, prof. MUDr. Andrej Dukát, CSc., prof. MUDr. Zoltán Mikeš, DrSc., prof. MUDr. Stanislav Oravec, CSc., prof. MUDr. Peter Ponťuch, CSc., prof. MUDr. Viera Štvrtinová, PhD., doc. MUDr. Martin Dúbrava, CSc., doc. MUDr. Peter Gavorník, PhD., prof. MUDr. Ľudovít Gašpar, CSc., doc. MUDr. Soňa Kiňová, PhD., doc. MUDr. Ján Lietava, CSc., MUDr. Martin Čaprnda, PhD., MUDr. Denisa Čelovská, PhD., MUDr. Marek Kučera, PhD., MPH, doc. MUDr. Jozef Bulas, CSc., doc. MUDr. Marta Hájková, CSc., doc. MUDr. Igor Bátora, CSc., MUDr. Danka Grellneth, MUDr. Jana Holčíková, MUDr. Andrea Jurinová, RNDr. Oľga Otrubová, MUDr. Jana Ravasová, PhD., MUDr. Barbara Hagarová, doc. MUDr. Ivan Majer, CSc., MUDr. Zuzana Nováčková, MUDr. Helena Novosadová, PhD., MUDr. František Sándor, PhD., MUDr. Zuzana Štrbová, PhD., MUDr. Eva Tedlová, PhD., doc. MUDr. Štefan Urban, CSc., MUDr. Barbora Olšakovská, MUDr. Ján Šuba, prof. MUDr. Silvester Krčméry, CSc., MUDr. Silvia Semanová, MUDr. Rastislav Tahotný, PhD.

Last change: 05.12.2016

Approved by: prof. MUDr. Juraj Šteňo, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava	
Faculty: Faculty of Medicine	
Course ID: LF.IK/L-VLa-039/09	**Course title:** Internal Medicine 6
Educational activities: **Type of activities:** seminar / laboratory practicals **Number of hours:** **per week:** **per level/semester:** 72s / 396s **Form of the course:** on-site learning	
Number of credits: 18	
Recommended semester: 11., 12..	
Educational level: I.II.	
Prerequisites: LF.IK_1/L-VLa-38/11 - Internal Medicine 5	
Course requirements: - 100% attendance at the practicals and seminars - Completion of circulations at the department of haematology and oncology - 5 night shifts State exam: - Practical part: practical examination of the patient (history, physical examination, diagnostic workup, draft of differential diagnostic, draft of treatment), written report of patient's examination, practical description of ECG and chest X-ray Oral exam: - Successful answering of 3 questions	
Learning outcomes: Knowledge: - Improvement of knowledge of internal medicine }cardiology, pneumology, gastroenterology, hepatology, nephrology, hematology, endocrinology, diabetology, rheumatology - Differential diagnostics in internal medicine, workup of therapeutic plan Skills: - Stay at the outpatient clinic, get familiar with the work of doctor at outpatient clinic (range of physician), learn the procedures for dealing with urgent and emergency situations - Get familiar with the work of consilium doctor - Stay at the department of oncology, haematology and transfusiology - Stay at the intensive care unit - Practical work at internal department in the range of secondary doctor: presence at morning meeting, morning round by the bed of a patient, report at the grand professor's round, medical report management, workup of diagnostic and therapeutical procedures, case history, differential diagnostics - Improvement of propedeutic examinations and their use in diagnosis workup. Evaluation of the results of auxiliary methods. Improvement of diagnostic and standard therapeutic procedures in internal medicine. Get familiar with all the standard non-invasive methods used in internal medicine. - Cardiopulmonary resuscitation in internal medicine - Improvement of skills in describing the ECG and chest X-ray	

- Improvement of practical skills (venepuncture, collection of venous and arterial blood, administration of i.v., i.m and s.c. medication, catheterisation of urinary bladder, rectal examination etc.)
- Pre-operative examination and assessment of operation risk

Class syllabus:

Practical work as physician – morning meeting, morning round, report patient at the grand round, medical record management, design of diagnostic and therapeutical procedures, case reports of patients, differential diagnostics. Stay at the outpatient clinic, get familiar with the work of the doctor at outpatient clinic and with the work by urgent situations. Stay at the department of oncology, haematology and transfusiology. Stay at intensive care unit. Cardiopulmonary resuscitation, defibrillation. Improvement of propedeutical examinations and their use in the diagnosis workup. Evaluation of the results of auxiliary examinations. Improvement in diagnostic and standard therapeutic practice in internal medicine. Get familiar with standard non-invasive methods used in internal medicine. Independent evaluation of X-ray (chest, abdomen, urography, cholecystography, irigography). Independent evaluation of ECG. Catheterization of urinary bladder. Collection of biologic material. Venepunction, administration of injections and infusions. Abdominal puncture. Pleural puncture and examination of punctate. Assistance by various diagnostic and therapeutic procedures.

Seminars: shock and hypotension. Hypertension and its differential diagnostics. Heart failure. Peripheral vascular diseases. Hemotherapy principles. Transplantation of bone marrow. Hemostasis. Respiratory insufficiency. Acute conditions in gastroenterology. Differential diagnostics of diarrhea. Liver insufficiency. Acute conditions in endocrinology. Osteoporosis. Novelties in rheumatology. Renal insufficiency. Principles of diabetes mellitus therapy and its acute complications. Principles of antibiotic's treatment. Disorders of consciousness. Intoxications.

Recommended literature:

Kumar, P., Clark, M. Kumar and Clark´s Clinical Medicine. Philadelphia: Saunders Ltd., 2012.1352 s. ISBN-13: 978-0-7020-449-91

Longo, D, Fauci, A., Kasper, D., Hauser, S., Loscalzo J. Harrison´s Priniciples of Internal Medicine 18th ed. New York: McGraw-Hill, 2011. 1796 pp. ISBN 978-0-07-163244-7

Goldman, L. et al. Goldman´s cecil medicine. Philadelphia: W.B.Saunders, 2012. 2569 s. ISBN 9781437716047

Colledge, N.R. et al. Davidson´s Principles and Practice of Medicine. Edinburgh: Churchill Livingstone, 2010. 1376 pp. ISBN 978-0-7020-3085-7

Languages necessary to complete the course:

Notes:

Past grade distribution

Total number of evaluated students: 500

A	B	C	D	E	FX
35,8	24,0	15,0	10,4	14,2	0,6

Lecturers: prof. MUDr. Juraj Payer, PhD., MPH, prof. MUDr. Viliam Bada, CSc., prof. MUDr. Andrej Dukát, CSc., prof. MUDr. Viera Kupčová, CSc., prof. MUDr. Zoltán Mikeš, DrSc., prof. MUDr. Ján Murín, CSc., prof. MUDr. Viera Štvrtinová, PhD., doc. MUDr. Milan Boča, CSc., doc. MUDr. Jozef Bulas, CSc., doc. MUDr. Martin Dúbrava, CSc., doc. MUDr. Peter Gavorník, PhD., doc. MUDr. Soňa Kiňová, PhD., prof. MUDr. Silvester Krčméry, CSc., doc. MUDr. Ján Lietava, CSc., doc. MUDr. Ľudovít Lukáč, PhD., doc. MUDr. Viliam Mojto, CSc., doc. MUDr. Mária Szántová, PhD., doc. MUDr. Pavol Tisoň, CSc., MUDr. Naďa Bežillová, PhD., MUDr.

Barbora Olšakovská, MUDr. Ján Šuba, MUDr. Silvia Semanová, MUDr. Rastislav Tahotný, PhD., MUDr. Monika Szamosová, MUDr. Miloš Števove, MUDr. Zuzana Ďurkovičová, MUDr. Michaela Fedelešová, PhD., MUDr. Tereza Hlavatá, MUDr. Kristína Brázdilová, PhD., MUDr. Patrícia Páleníková, PhD., prof. MUDr. Tibor Hlavatý, PhD., MUDr. Katarína Hrubišková, doc. MUDr. Peter Jackuliak, PhD., doc. MUDr. Zdenko Killinger, PhD., doc. MUDr. Tomáš Koller, PhD., MUDr. Jana Kollerová, MUDr. Anna Krajčovičová, PhD., MUDr. Martin Kužma, PhD., MUDr. Matej Bendžala, PhD., MUDr. Róbert Brnka, PhD., MUDr. Martin Čaprnda, PhD., MUDr. Denisa Čelovská, PhD., MUDr. Andrea Komorníková, MUDr. Michal Koreň, PhD., MUDr. Marek Kučera, PhD., MPH, prof. MUDr. Stanislav Oravec, CSc., MUDr. Mária Potočárová, MUDr. Peter Sabaka, PhD., doc. MUDr. Emőke Šteňová, PhD., doc. MUDr. Ľuboš Drgoňa, CSc., MUDr. Iveta Oravcová, PhD., prof. MUDr. Angelika Bátorová, PhD., doc. MUDr. Martin Mistrík, PhD., doc. MUDr. Jozef Mardiak, CSc., prof. MUDr. Michal Mego, DrSc.

Last change: 05.12.2016

Approved by: prof. MUDr. Juraj Šteňo, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava	
Faculty: Faculty of Medicine	
Course ID: LF.IK_1/L-VLa-124/16	**Course title:** Internal Medicine – practice
Educational activities: **Type of activities:** practice **Number of hours:** **per week:** **per level/semester:** 80s **Form of the course:** on-site learning	
Number of credits: 3	
Recommended semester: 8.	
Educational level: I.II.	
Prerequisites:	
Course requirements: 100% attendance during the internship	
Learning outcomes: Knowledge: - Improvement of knowledge from internal propedeutics and internal medicine in the daily practice Skills: - Work of physician at the department of internal medicine (inpatient and outpatient clinic) - complete intake and discharge of the patient (patient's medical history, clinical examination, design of diagnostic and therapeutic plan, daily check-up, medical record managemenet) - Participation at ward rounds with reporting on patient - Improvement of practical propedeutic examinations - Practical evaluation of ECG, chest and abdomen X-ray - Assistance and practical performance of diagnostic and therapeutic procedures (sterna, thoracic, abdominal, liver) and special complex examinations (gastroscopy, colonoscopy, bronchoscopy, ERCP), ultrasound of abdomen and vessels - Administration of various injections, infusions, transfusions (under guidance of doctor), venepuncture for various examinations, collection of urine, sputum and other biological material	
Class syllabus: During the internship the students get familiar with the work of physician. They work at inpatient and outpatient clinic but predominantly by the bed of the patient. Students manage whole documentation – at the admission and discharge of the patient (patient's medical history, medical records written for new admitted patients, morning ward rounds and medical record of the patients assigned to him, usually about 4-5 patients). All work is done under guidance of the physician. Moreover, the student takes part in the ward rounds, in that the student learns the main pathologic physical findings also by other patients not just in assigned to him so the student will experience the most during the summer from the inspection, percussion, auscultation, and palpation. Throughout the internship students evaluate ECG findings and X-rays. They attend workshops where self-report selected cases. Students are also involved in practical diagnostic and therapeutic procedures - administration of different types of injections, infusions, transfusions (under guidance of a physician), taking blood samples for various tests, urine collection, sputum and other biological	

material. They passively participate in various biopsies (sternal, thoracic, abdominal, hepatic) and various special examinations (gastroscopy, bronchoscopy) or the newer diagnostic methods and procedures. Students should perform three night shifts.

Recommended literature:

Kumar, P., Clark, M. Kumar and Clark´s Clinical Medicine. Philadelphia: Saunders Ltd., 2012.1352 s. ISBN-13: 978-0-7020-449-91

Longo, D., Fauci, A., Kasper, D., Hauser, S., Loscalzo J. Harrison´s Priniciples of Internal Medicine 18th ed. New York: McGraw-Hill, 2011. 1796 pp. ISBN 978-0-07-163244-7

Goldman, L. et al. Goldman´s cecil medicine. Philadelphia: W.B.Saunders, 2012. 2569 s. ISBN 9781437716047

Colledge, N.R. et al. Davidson´s Principles and Practice of Medicine. Edinburgh: Churchill Livingstone, 2010. 1376 pp. ISBN 978-0-7020-3085-7

Languages necessary to complete the course:

Notes:

Past grade distribution

Total number of evaluated students: 96

ABS0
100,0

Lecturers: prof. MUDr. Juraj Payer, PhD., MPH, prof. MUDr. Ľudovít Gašpar, CSc., doc. MUDr. Soňa Kiňová, PhD., doc. MUDr. Viliam Mojto, CSc.

Last change: 05.12.2016

Approved by: prof. MUDr. Juraj Šteňo, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava	
Faculty: Faculty of Medicine	
Course ID: LF.IK_1/L-VLa-040/11	**Course title:** Internal Propedeutics
Educational activities: **Type of activities:** lecture / laboratory practicals **Number of hours:** **per week:** **per level/semester:** 43s / 50s **Form of the course:** on-site learning	
Number of credits: 5	
Recommended semester: 5.	
Educational level: I.II.	
Prerequisites: LF.AÚ/L-S-VLa-003/17 - Anatomy 3 and LF.FyÚ/L-S-VLa-014/17 - Physiology 2	
Course requirements: Compulsory 100% attendance at the practicals Pass the final written test (minimal score 60%) Evaluation of the test: A: 91 - 100 %, B: 81 – 99 %, C: 73 – 80 %, D: 66 – 72 %, E: 60 – 65 %, Fx: 59 % and less Exam: - Successfully passed final written test (minimal score 60%) is required for the admission to the oral part of the exam - Successful answering of 3 questions - Basic description of ECG (physiological and pathological) and X-ray (chest and abdomen) Total evaluation is determined from the average of scores.	
Learning outcomes: Knowledge: - Basic history of internal medicine, content and mission of internal medicine - Parts of patient's history and their importance in the differential diagnostics - Symptoms and syndromes of various system diseases and their importance in internal propedeutics - Theoretical basics of phzsical examination of the patient }inspection, palpation, percussion, auscultation, examination of head, neck, chest, abdomen and limbs) - ECG – basic parts of ECG curve, basic findings on ECG - X-ray of chest and abdomen – description, basic findings - Theoretical basis of laboratory exams in internal medicine, review, indications and evaluation - Theoretical basis of auxiliary and special examinations in internal medicine (ultrasound, endoscopy etc) - Theoretical basis of diagnostic and therapeutic procedures in internal medicine (puncture of ascites, pleural puncture, puncture of bone marrow, urine examination etc) Skills: - First contact with the patient and history taking - Basis of clinical examination of the patient – status praesens generalis and status praesens localis (examination of head, neck, chest, abdomen and limbs) - Individual examination of the patient and medical record workup - Basic description of ECG	

- Basic description of chest and abdomen X-ray
- Venipuncture, collection of venous and arterial blood, administration of i.v., i.m. and s.c. medication, measurement of blood pressure, pulse and body temperature

Class syllabus:

Patient's history – general (current disease, personal and family history, epidemiological and social history, lifestyle, habits). Patient's history – special (according to the disease), main clinical symptoms of the diseases. Status praesens generalis. Status paesens localis. Physical examination (inspection, palpation, percussion, auscultation) of the head, neck, chest, abdomen, limbs and musculoskeletal system. Evaluation of ECG. X-ray diagnostics and imagining techniques. Laboratory examinations in internal medicine. Special examination in internal medicine. Individual examination of the patient and medical record management.

Recommended literature:

Kumar, P., Clark, M. Kumar and Clark´s Clinical Medicine. Philadelphia: Saunders Ltd., 2012.1352 s. ISBN-13: 978-0-7020-449-91
Longo, D, Fauci, A., Kasper, D., Hauser, S., Loscalzo J. Harrison´s Priniciples of Internal Medicine 18th ed. New York: McGraw-Hill, 2011. 1796 pp. ISBN 978-0-07-163244-7
Goldman, L. et al. Goldman´s cecil medicine. Philadelphia: W.B.Saunders, 2012. 2569 s. ISBN 9781437716047
Colledge, N.R. et al. Davidson´s Principles and Practice of Medicine. Edinburgh: Churchill Livingstone, 2010. 1376 pp. ISBN 978-0-7020-3085-7

Languages necessary to complete the course:

Notes:

Past grade distribution

Total number of evaluated students: 798

A	B	C	D	E	FX
25,31	23,18	22,93	12,41	10,03	6,14

Lecturers: prof. MUDr. Juraj Payer, PhD., MPH, prof. MUDr. Viliam Bada, CSc., prof. MUDr. Andrej Dukát, CSc., prof. MUDr. Viera Kupčová, CSc., prof. MUDr. Ján Murín, CSc., prof. MUDr. Stanislav Oravec, CSc., prof. MUDr. Viera Štvrtinová, PhD., doc. MUDr. Jozef Bulas, CSc., doc. MUDr. Martin Dúbrava, CSc., doc. MUDr. Peter Gavorník, PhD., prof. MUDr. Ľudovít Gašpar, CSc., prof. MUDr. Tibor Hlavatý, PhD., doc. MUDr. Soňa Kiňová, PhD., doc. MUDr. Zdenko Killinger, PhD., doc. MUDr. Pavol Kučera, PhD., doc. MUDr. Ján Lietava, CSc., doc. MUDr. Ľudovít Lukáč, PhD., doc. MUDr. Viliam Mojto, CSc., doc. MUDr. Mária Szántová, PhD., MUDr. Martin Čaprnda, PhD., MUDr. Denisa Čelovská, PhD., doc. MUDr. Peter Jackuliak, PhD., doc. MUDr. Tomáš Koller, PhD., prof. MUDr. Zoltán Mikeš, DrSc., doc. Emoke Šteňová, PhD., MUDr. Matej Bendžala, PhD., MUDr. Róbert Brnka, PhD., MUDr. Andrea Komorníková, MUDr. Michal Koreň, PhD., MUDr. Marek Kučera, PhD., MPH, MUDr. Mária Potočárová, MUDr. Peter Sabaka, PhD., MUDr. Monika Szamosová, MUDr. Miloš Števove, MUDr. Zuzana Ďurkovičová, MUDr. Tereza Hlavatá, MUDr. Michaela Fedelešová, PhD., MUDr. Katarína Bobocká, PhD., MUDr. Miroslav Budaj, PhD., MUDr. Marcela Danková, PhD., MUDr. Jozef Kalužay, PhD., MUDr. Mgr. Zuzana Mináriková, PhD., MUDr. Veronika Pokorná, PhD., MPH, prof. MUDr. Peter Ponťuch, CSc., MUDr. Barbora Olšakovská, MUDr. Ján Šuba, doc. MUDr. Igor Bátora, CSc., MUDr. Danka Grellneth, MUDr. Jana Holčíková, RNDr. Oľga Otrubová, MUDr. Jana Ravasová, PhD., MUDr. Andrea Jurinová

Last change: 05.12.2016

Approved by: prof. MUDr. Juraj Šteňo, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava	
Faculty: Faculty of Medicine	
Course ID: LF.IK_1/L-VLa-125/16	**Course title:** Internal Propedeutics – practice
Educational activities: **Type of activities:** practice **Number of hours:** **per week:** **per level/semester:** 40s **Form of the course:** on-site learning	
Number of credits: 2	
Recommended semester: 6.	
Educational level: I.II.	
Prerequisites:	
Course requirements:	
Learning outcomes:	
Class syllabus:	
Recommended literature:	
Languages necessary to complete the course:	
Notes:	
Past grade distribution Total number of evaluated students: 129	
ABS0	
100,0	
Lecturers: prof. MUDr. Juraj Payer, PhD., MPH, prof. MUDr. Ľudovít Gašpar, CSc., doc. MUDr. Soňa Kiňová, PhD., doc. MUDr. Viliam Mojto, CSc.	
Last change:	
Approved by: prof. MUDr. Juraj Šteňo, DrSc.	

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Medicine

Course ID:	**Course title:**
LF.ÚSLLE/L-VLa-142/16	Introduction to Healthcare Management

Educational activities:
Type of activities: lecture
Number of hours:
per week: **per level/semester:** 24s
Form of the course: on-site learning

Number of credits: 2

Recommended semester: 8., 10.

Educational level: I.II.

Prerequisites:

Course requirements:

Learning outcomes:

Class syllabus:

Recommended literature:

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 19

A	B	C	D	E	FX
100,0	0,0	0,0	0,0	0,0	0,0

Lecturers: doc. Ing. Milan Fekete, PhD., Mgr. Silvia Capíková, PhD., PhDr. Renáta Knezović, PhD., Ing. Magdaléna Veselská

Last change:

Approved by: prof. MUDr. Juraj Šteňo, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava	
Faculty: Faculty of Medicine	
Course ID: LF.ÚMB/L-S-VLa-068/17	**Course title:** Introduction to Science
Educational activities: **Type of activities:** lecture **Number of hours:** **per week:** **per level/semester:** 25s **Form of the course:** on-site learning	
Number of credits: 1	
Recommended semester: 4.	
Educational level: I.II.	
Prerequisites:	
Course requirements:	
Learning outcomes:	
Class syllabus:	
Recommended literature:	
Languages necessary to complete the course:	
Notes:	

Past grade distribution
Total number of evaluated students: 33

A	B	C	D	E	FX
0,0	3,03	15,15	33,33	48,48	0,0

Lecturers: doc. RNDr. Ing. Peter Celec, DrSc., MUDr. RNDr. Roman Gardlík, PhD.
Last change:
Approved by: prof. MUDr. Juraj Šteňo, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava	
Faculty: Faculty of Medicine	
Course ID: LF.ÚCJ/L-S-VLa-038/16	**Course title:** Latin Medical Terminology 1
Educational activities: **Type of activities:** practicals **Number of hours:** **per week:** **per level/semester:** 25s **Form of the course:** on-site learning	
Number of credits: 1	
Recommended semester: 1.	
Educational level: I.II.	
Prerequisites:	
Course requirements: 100% active attendance at seminars Successful completion of midterm and final test with minimum 60% after addition of obtained per cent from both tests. Test evaluation: A: 91 - 100 %, B: 81 – 99 %, C: 73 – 80 %, D: 66 – 72 %, E: 60 – 65 %, Fx: 59 % and less	
Learning outcomes: Knowledge: To learn basic medical terminology with emphasis on anatomical nomenclature; basic grammatical minimum to understand the structure of professional anatomical terms. Predominantly professional terminology comprises the terms of Latin and Greek origin used in medicine (anatomical, pathological terms), as well as terms and phrases needed for prescriptions. Skills: The ability to understand constructions of Latin anatomical terms and to use them correctly.	
Class syllabus: Course syllabus summary: Importance of the international medical terminology. Anatomical nomenclature and clinical terminology (differences). Declination of Latin and Greek nouns with emphasis on anatomical nomenclature. Prepositions. Adjectives 1st, 2nd and 3rd declination - comparison and use in anatomical nomenclature. Numbers in anatomical nomenclature.	
Recommended literature: 1. Galatová, J.: INTRODUCTION TO LATIN MEDICAL TERMINOLOGY FOR OVERSEAS STUDENTS OF MEDICAL SCHOOLS. Bratislava: Vydavateľstvo UK 2012. 2. Bujalková, M. – Jurečková, A.: Terminologia Medica. Greco-Latin Medical Terminology. UK Bratislava 2013.	
Languages necessary to complete the course:	
Notes:	

Past grade distribution
Total number of evaluated students: 381

A	B	C	D	E	FX
44,88	24,93	12,34	8,92	7,61	1,31

Lecturers: Mgr. Anna Rollerová, PhD., PhDr. Tomáš Hamar, PhD., Mgr. Lucia Lauková, PhD., PhDr. Beata Ricziová, Mgr. Angela Škovierová, PhD., Mgr. Eva Taranová, PhD., Mgr. Oľga Vaneková, PhD., Mgr. Daniela Rošková, PhD., Mgr. Melinda Vasiľová

Last change: 21.03.2018

Approved by: prof. MUDr. Juraj Šteňo, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Medicine

Course ID:	**Course title:**
LF.ÚCJ/L-S-VLa-039/16	Latin Medical Terminology 2

Educational activities:
Type of activities: practicals
Number of hours:
per week: **per level/semester:** 25s
Form of the course: on-site learning

Number of credits: 2

Recommended semester: 2.

Educational level: I.II.

Prerequisites:

Course requirements:
100% attendance, successful completion of midterm and final test with minimum 60% after addition of obtained percent from both tests. Test evaluation: A: 91 - 100 %, B: 81 – 99 %, C: 73 – 80 %, D: 66 – 72 %, E: 60 – 65 %,
Fx: 59 % and less

Learning outcomes:
Knowledge: To gain knowledge in clinical terminology, creation of professional terms; reading, analysis and creation of medical reports; common pharmaceutical expressions and common formulas.
Skills: To use clinical terminology; to prescribe medicaments; ability to understand autopsy reports and clinical diagnoses written in Latin and the ability to create medical reports.

Class syllabus:
Importance of the international medical terminology. Anatomical nomenclature and clinical terminology (differences). Repetition and fixation of declensions. Cardinal and ordinal numbers. Structure and writing of prescriptions. Grammatical minimum of verbal structures - used at writing prescriptions and autopsy reports. Latin and Greek prefixes and suffixes and hybrid words - used in clinical and anatomical terminology. Basics of autopsy reports.

Recommended literature:
1. Galatová, J.: INTRODUCTION TO LATIN MEDICAL TERMINOLOGY FOR OVERSEAS STUDENTS OF MEDICAL SCHOOLS. Bratislava: Vydavateľstvo UK 2012.
2. Bujalková, M. – Jurečková, A.: Terminologia Medica. Greco-Latin Medical Terminology. UK Bratislava 2013.

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 238

A	B	C	D	E	FX
53,36	29,83	11,76	2,94	0,84	1,26

Lecturers: Mgr. Anna Rollerová, PhD., PhDr. Tomáš Hamar, PhD., Mgr. Lucia Lauková, PhD., PhDr. Beata Ricziová, Mgr. Angela Škovierová, PhD., Mgr. Eva Taranová, PhD., Mgr. Oľga Vaneková, PhD., Mgr. Daniela Rošková, PhD., Mgr. Melinda Vasiľová
Last change: 21.03.2018
Approved by: prof. MUDr. Juraj Šteňo, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Medicine

Course ID:	**Course title:**
LF.ÚLChB/L-S-VLa-041/17	Medical Biochemistry 1

Educational activities:
Type of activities: lecture / laboratory practicals
Number of hours:
per week: **per level/semester:** 24s / 36s
Form of the course: on-site learning

Number of credits: 3

Recommended semester: 3.

Educational level: I.II.

Prerequisites:

Course requirements:

Learning outcomes:

Class syllabus:

Recommended literature:

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 112

A	B	C	D	E	FX
8,93	11,61	13,39	25,0	17,86	23,21

Lecturers: doc. RNDr. Jana Muchová, PhD., doc. MUDr. Viera Rendeková, CSc., prof. MUDr. Ladislav Turecký, CSc., doc. RNDr. Eva Uhlíková, CSc., doc. Ing. Ingrid Žitňanová, PhD., RNDr. Želmíra Barošková, Ing. Lucia Laubertová, PhD., RNDr. Monika Ďurfinová, PhD., RNDr. Zuzana Országhová, PhD., MUDr. Peter Ščigulinský, Mgr. Ľubomír Kuračka, PhD., RNDr. Lucia Andrezálová, PhD., prof. Ing. Zdeňka Ďuračková, PhD., Mgr. Monika Dvořáková, PhD., doc. PharmDr. Vladimír Jakuš, CSc., Ing. Miriama Ježovičová, PhD., RNDr. Mgr. Marián Koláček, PhD.

Last change:

Approved by: prof. MUDr. Juraj Šteňo, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Medicine

Course ID:	**Course title:**
LF.ÚLChB/L-S-VLa-042/17	Medical Biochemistry 2

Educational activities:
Type of activities: lecture / laboratory practicals
Number of hours:
per week: **per level/semester:** 36s / 36s
Form of the course: on-site learning

Number of credits: 6

Recommended semester: 4.

Educational level: I.II.

Prerequisites: LF.ÚLChB/L-S-VLa-041/17 - Medical Biochemistry 1

Course requirements:

Learning outcomes:

Class syllabus:

Recommended literature:

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 0

A	B	C	D	E	FX
0,0	0,0	0,0	0,0	0,0	0,0

Lecturers: prof. MUDr. Ladislav Turecký, CSc., doc. MUDr. Viera Rendeková, CSc., doc. RNDr. Eva Uhlíková, CSc., RNDr. Monika Ďurfinová, PhD.

Last change:

Approved by: prof. MUDr. Juraj Šteňo, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava	
Faculty: Faculty of Medicine	
Course ID: LF.ÚLChB/L-VLa-024/00	**Course title:** Medical Biochemistry for General Medicine 2
Educational activities: **Type of activities:** lecture / laboratory practicals **Number of hours:** **per week:** **per level/semester:** 48s / 24s **Form of the course:** on-site learning	
Number of credits: 7	
Recommended semester: 4.	
Educational level: I.II.	
Prerequisites:	
Course requirements: 100 % presence in practical exercises and seminars. On the average minimally 60 % of correct answers in written tests. Credits are awarded after passing the exam successfully. Exam: written part (minimally 80 % of correct answers) oral part – 2 questions	
Learning outcomes: Knowledge: Students will acquire knowledge of biochemical basis of functions in human tissues and organs. They will get information about molecular mechanisms of organ function regulation from gene expression up to the whole organism level. This is needed for understanding of changes in biochemical processes under pathological conditions and after pharmacological treatment. Skills: Students will master of more complicated laboratory methods used in clinical biochemistry.	
Class syllabus: Synthesis and degradation of nucleotides, defects in purine nucleotide metabolism, hyperuricemia. Basis of genetic information transfer, mechanisms of DNA, RNA and protein synthesis. Regulation of gene expression. Nutrition and specific metabolic functions of organs in integration of metabolism. Vitamins as essential food components. Gastrointestinal tract and digestion. Biochemistry of the liver. Synthesis and degradation of tetrapyrrols, bilirubin metabolism. Biochemical aspects of homeostasis, role of the kidneys in regulation of internal environment, acid base balance. Metabolism of water and minerals. Mechanism of signal transductions into cells. Biochemical basis of nerve functions. Vegetative nervous system. Hormones and their regulatory roles. Synthesis and function of eicosanoids. Biochemistry of muscles and connective tissue, composition and metabolism of bones. Biochemistry of blood. Biochemical parameters and their evaluation, determination of enzyme activities in blood and their meaning in clinical practice.	
Recommended literature: P.C. Champe, R.A. Harvey: Biochemistry. J.B. Lippincott Company, the last edition J. Baynes, M.H. Dominiczak: Medical biochemistry. Mosby, the last edition Marks': Basic medical biochemistry, J.B. Lippincott Company, the last edition	

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 1384

A	B	C	D	E	FX
13,8	6,94	16,55	17,85	29,62	15,25

Lecturers: prof. MUDr. Ladislav Turecký, CSc., doc. MUDr. Viera Rendeková, CSc., doc. RNDr. Eva Uhlíková, CSc., RNDr. Monika Ďurfínová, PhD.

Last change: 22.12.2016

Approved by: prof. MUDr. Juraj Šteňo, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava	
Faculty: Faculty of Medicine	
Course ID: LF.ÚLFBIT/L-S-VLa-040/16	**Course title:** Medical Biophysics
Educational activities: **Type of activities:** lecture / practicals **Number of hours:** **per week:** **per level/semester:** 24s / 36s **Form of the course:** on-site learning	
Number of credits: 8	
Recommended semester: 1.	
Educational level: I.II.	
Prerequisites:	
Course requirements: - 100% attendance at practicals - pass 2 written tests (at least 60%) - elaborate 10 protocols from practicals - elaborate semestral thesis Final Exam: written part – pass the test (at least 60%) theoretical part – 1 question from theoretical part, 1 question from practicals, interview about semestral thesis Evaluation of the test: A: 91 - 100 %, B: 81 - 99 %, C: 73 - 80 %, D: 66 - 72 %, E: 60 – 65 %, Fx: 59 % and less Total score is determined from the average of achieved grades.	
Learning outcomes: Knowledge: Provides students physical literacy by which they would acquire physical knowledge about the functions of human body both in health, and in disease. Educate students in preventing damage to the organism caused by adverse effects of physical factors or specifically eliminating them. Allow students to acquire theoretical knowledge during the effective use of diagnostic and therapeutic methods in medicine. Skills: Ability and skills to use diagnostic and therapeutic methods in medicine. Apply knowledge in practice in health protection from physical factors (radiation) and their minimalization.	
Class syllabus: Biomechanics of organ systems. Biological oscillations – biological rhythms. Physical characteristics of the cells, tissues and organs. Principles of Molecular Biophysics and interaction of physical, chemical and biological factors with organic substances, cells and tissues. Principles of diagnostic and therapeutic methods and biomedical monitoring. Biomaterials useful in medicine.	
Recommended literature: Hrazdira I, Morstein V, Škorpíková J. Lekářská biofyzika a přístrojová technika. Brno, Neptun, 2006, ISBN 80-86850-01-3 Navrátil L, Rosina J. Medicínska biofyzika. Praha, Grada, 2005, ISBN 80-247-1152-4 Kukurová E. Basics of Medical Physics an d Biophysics for electronic education of health professionals. ASKLEPIOS, Bratislava, 2013 ISBN 978–80–7167–177–0	

Kukurová E, Medical Physics in questions and answers. . ASKLEPIOS, Bratislava, 2013, I SBN 978–80–7167–174–3

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 357

A	B	C	D	E	FX
6,16	20,73	36,13	21,85	4,48	10,64

Lecturers: doc. RNDr. Martin Kopáni, PhD., doc. RNDr. Elena Ferencová, CSc., doc. PaedDr. Viera Haverlíková, PhD., doc. RNDr. Katarína Kozlíková, CSc., RNDr. Zuzana Balázsiová, PhD., RNDr. Beata Čunderlíková, PhD., Mgr. Barbora Filová, PhD., Mgr. Radana Gurecká, PhD., Ing. Daniel Kosnáč, RNDr. Eva Kráľová, PhD., Ing. Alexandra Wagner, PhD.

Last change: 08.12.2016

Approved by: prof. MUDr. Juraj Šteňo, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava	
Faculty: Faculty of Medicine	
Course ID: LF.ÚLChB/L-S-VLa-037/16	**Course title:** Medical Chemistry
Educational activities: **Type of activities:** lecture / practicals **Number of hours:** **per week:** **per level/semester:** 36s / 36s **Form of the course:** on-site learning	
Number of credits: 7	
Recommended semester: 2.	
Educational level: I.II.	
Prerequisites:	
Course requirements: Course requirements: Conditions for acceptation of practical education: - 100% attendance of practices and seminars - passing 10 written tests (for each test needed 60 % of points at least) Exam: - test (needed 70 % of points at least)	
Learning outcomes: Knowledge: - acquirement of knowledge of relationship between the structure, properties and biological functions of biogenic compounds for effective study and comprehensive understanding of metabolic processes in the human organism and their regulation - acquirement of basic knowledge of inorganic and organic compounds toxicity Skills: - obtaining the ability to understand the basics of metabolism and molecular mechanisms of function of human organs and tissues - obtaining the practical experiences in a field of physico-chemical and biochemical methods used in laboratory and clinical practices	
Class syllabus: Lectures: Chemical composition of living systems and function of biogenic elements in organism. Toxicologically important elements and their compounds. Bioreactive forms of oxygen, nitrogen and chlorine. The structure, properties and biochemically important reactions of natural compounds - saccharides, lipids, proteins, nucleic acids and vitamins. Chemical modification of the structure of biomolecules and its relation to their biological functions. Nonenzymatic glycation in diabetes mellitus, homo- and heteropolysaccharides, chemical composition and function of biological membranes, regulatory importance of eicosanoids and steroids, peptide hormones and other biologically active peptides and proteins. Mutagenic reagents. Oxidative stress and antioxidative systems. Enzymes – their structure and biological function, kinetics and mechanism of their action, regulation of catalytical efficiency of enzymes in the organism. The importance and application of enzymes in medicine.	

Seminars and practicals: Principles of physico-chemical methods and their practical application in laboratory diagnostics (spectrophotometry, potentiometry, chromatography). Determination of selected metal ions in biological material and their influence to erythrocytes fragility. Preparation of solutions, measurement of body fluids pH, qualitative and quantitative determination of important physiological and pathological metabolites (urea, glucose, ketone bodies, total lipids, malondialdehyde), Thin layer and gel chromatography determination of amino acids and proteins, determination and calculation of enzymes activities, study of effects of different factors.

Recommended literature:

Országhová Z., Žitňanová I. et al.: Medical Chemistry. Vydavateľstvo UK, Bratislava, 2010, 272 s.
Hrnčiarová M. et al.: Medical Chemistry, Laboratory part, Asklepios, 1993
Holum J.R.: Fundamentals of General, Organic and Biological Chemistry, 6th Edition, John Wiley and Sons Inc., New York, 1998

Languages necessary to complete the course:

Notes:

Past grade distribution

Total number of evaluated students: 189

A	B	C	D	E	FX
2,12	8,47	19,05	20,63	34,39	15,34

Lecturers: prof. MUDr. Ladislav Turecký, CSc., prof. Ing. Zdeňka Ďuračková, PhD., doc. PharmDr. Vladimír Jakuš, CSc., doc. RNDr. Jana Muchová, PhD., doc. Ing. Ingrid Žitňanová, PhD., RNDr. Lucia Andrezálová, PhD., RNDr. Zuzana Országhová, PhD., RNDr. Želmíra Barošková, Mgr. Ľubomír Kuračka, PhD., RNDr. Monika Ďurfinová, PhD., Mgr. Monika Dvořáková, PhD., doc. MUDr. Viera Rendeková, CSc., Ing. Miriama Ježovičová, PhD., MUDr. Peter Ščigulinský, RNDr. Mgr. Marián Koláček, PhD., doc. RNDr. Eva Uhlíková, CSc.

Last change: 21.03.2018

Approved by: prof. MUDr. Juraj Šteňo, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Medicine

Course ID:	**Course title:**
LF.ÚSLLE/L-S-VLa-044/17	Medical Ethics

Educational activities:
Type of activities: lecture / practicals
Number of hours:
per week: **per level/semester:** 12s / 24s
Form of the course: on-site learning

Number of credits: 2

Recommended semester: 2.

Educational level: I.II.

Prerequisites:

Course requirements:

Learning outcomes:

Class syllabus:

Recommended literature:

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 3

A	B	C	D	E	FX
66,67	0,0	33,33	0,0	0,0	0,0

Lecturers: doc. MUDr. Vojtech Ozorovský, CSc., MUDr. Mária Mojzešová, PhD., MUDr. Ján Štvrtina, Mgr. Mária Kolesárová, PhD.

Last change:

Approved by: prof. MUDr. Juraj Šteňo, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava	
Faculty: Faculty of Medicine	
Course ID: LF.ÚSLLE/L-VLa-054/00	**Course title:** Medical Ethics

Educational activities:
Type of activities: lecture / seminar
Number of hours:
per week: **per level/semester:** 12s / 24s
Form of the course: on-site learning

Number of credits: 1

Recommended semester: 7.

Educational level: I.II.

Prerequisites:

Course requirements:
To take part in all lectures and seminars, deliver the semestral essay in writing form, pass the final credit test (minimum 60% of right answers).

Learning outcomes:
Knowledge:
After successful completion of the course student will be able to:
- define the basic terms, related to Medical Ethics and Bioethics;
- understand the basic paradigms of medical ethics, be oriented and understand the most important milestones from the history of medical ethics;
- identify national and international declarations, ethical codes and conventions related to health care;
- understand the interdisciplinary relationships between ethics, medical ethics, bioethics and related sciences;
- identify and understand the actual ethical and bioethical dilemmas in diverse branches of medicine.

Skills:
After successful completion of the course student will be able to:
- discuss and realize cultivated dialogue and to develop critical thinking;
- perceive ethical side of decision-making;
- perceive bioethical problems in medical practice;
- apply professional freedom, own opinion and make conclusions;
- analyse ethical problem, to use acquired knowledges in argumentation and to adopt own position;
- apply principles of national and international declarations, ethical codes and conventions in the medical practice;
- respect the basic human rights and to solve ethical problem in the context of holistic approach to patients;
- protect the human dignity, honesty and value of each human life in whole human ontogenesis.

Class syllabus:
General part: Introduction into the study of Medical Ethics – the basic terms and definitions. Moral categories. Moral norms. Historical development of medical ethics. Human as bio-psycho-spiritual-social individual in a health and in an illness. Respect of human dignity, human integrity

and human individuality. Conscience and reservation in conscience in medical practice. Ethos of medical doctor and physician´s virtues. Models of ethical consideration and ethical decision-making in medicine. The basic principles of medical ethics, ethical/legal conflicts between them. Relationship between medical doctor and patient, between medical doctor and relatives of patient, between health professionals, optimal communication in a health care. Ethical codes, national and international documents and declarations. Informed consent. Human rights in health care.
Special part: Ethical problems in the beginning of human life (statute of living human embryo, artificially induced termination of pregnancy-abortion, preimplantation and prenatal diagnostics, medically assisted human reproduction). Ethical problems in the end of human life (introduction into the palliative medicine, hospice care). Euthanasia and assisted suicide. Ethical dilemmas in medical care for vulnerable groups of population. Transplantation of human organs from ethical and legal point of view. Ethical aspects of biomedical research with participation of human subjects. Ethical aspects of caring for psychiatric patients.

Recommended literature:

Williams, J. R. Medical Ethics Manual World Medical Association/WMA 3rd edition 2015. ISBN 978-92-990079-0-7. Available on http://www.wma.net/en/30publications/30ethicsmanual/pdf/Ethics_manual_3rd_Nov2015_en.pdf.
Convention for the Protection of Human Rights and Dignity of the Human Being with regard to the Application of Biology and Medicine (Oviedo). Convention on Human Rights and Biomedicine, Directorate of Legal Affairs, Council of Europe, Strassbourg, Nov 1996. Available on: http://www.coe.int/en/web/conventions/full-list/-/conventions/treaty/164
Medical Ethics Today: The BMA´s Handbook of Ethics and Law (3). British Medical Association, Chichester : John Wiley and Sons, 2012.
Journal Medical Ethics & Bioethics/Medicínska etika & bioetika. ISSN 1335-0560. Available on http://www.bioethics.sk/journal-me-and-b.

Languages necessary to complete the course:

Notes:

Past grade distribution

Total number of evaluated students: 649

A	B	C	D	E	FX
63,94	25,27	8,63	1,69	0,46	0,0

Lecturers: MUDr. Mária Mojzešová, PhD., MUDr. Ján Štvrtina, Mgr. Mária Kolesárová, PhD.

Last change: 22.12.2016

Approved by: prof. MUDr. Juraj Šteňo, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Medicine

Course ID:	**Course title:**
LF.PK/L-S-VLa-043/17	Medical Psychology and Communication with Patients

Educational activities:
Type of activities: lecture / practicals
Number of hours:
per week: **per level/semester:** 12s / 10s
Form of the course: on-site learning

Number of credits: 2

Recommended semester: 4.

Educational level: I.II.

Prerequisites:

Course requirements:

Learning outcomes:

Class syllabus:

Recommended literature:

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 15

A	B	C	D	E	FX
6,67	53,33	33,33	0,0	0,0	6,67

Lecturers: MUDr. Ľubomíra Izáková, PhD., doc. MUDr. Viera Kořínková, CSc., MUDr. Mária Králová, CSc., prof. MUDr. Ján Pečeňák, CSc., doc. MUDr. Tatiana Čaplová, CSc., PhDr. Michal Hajdúk, PhD., MUDr. Peter Janík, PhD., doc. PhDr. Eva Morovicsová, PhD., MPH, MUDr. Viktor Segeda, PhD., MUDr. Michal Turček, PhD., Mgr. Miroslava Zimányiová, PhDr. Zuzana Hradečná, MUDr. Zuzana Matzová, PhD., doc. MUDr. Igor Škodáček, PhD., MUDr. Jana Trebatická, PhD.

Last change:

Approved by: prof. MUDr. Juraj Šteňo, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava	
Faculty: Faculty of Medicine	
Course ID: LF.PK/L-VLa-041/12	**Course title:** Medical Psychology and Communication with Patients
Educational activities: **Type of activities:** lecture / laboratory practicals **Number of hours:** **per week:** **per level/semester:** 12s / 12s **Form of the course:** on-site learning	
Number of credits: 2	
Recommended semester: 5.	
Educational level: I.II.	
Prerequisites:	
Course requirements: 100% attendance at practicals Written exam (minimum 60%) Test results: A: 91-100%, B:81-90%, C:73-80%, D:66-72%, E: 60-65%, FX: less than 59% Oral exam: 2 questions Overall valuation will be assigned due to the average of obtained valuations.	
Learning outcomes: Knowledge: To learn and understand General and Developmental Psychology, Psychology of Patient (Patopsychology), Doctor and Healthcare Environment, Learn Psychology of Clinical Examination and Treatment (Placebo effect) Skills: To handle Communication with Patient – General Principles, Elaborate Identification of Distortion Factors, mastering Model play of Coping with Selected Situations in Contact Doctor - Patient – Adults and Children	
Class syllabus: Psychic Functions and Processes, Developmental Stages and their specifics, Patient´s Coping with Disease – factors and their identification. Practice of Techniques and Principles of Communication with Patient – children and adults, use of Clinical Examination Model, Modelling of patients attitudes towards disease, Placebo effect, Selected clinical and psychological problems	
Recommended literature: ŽUCHA, I. et al.: Medical Psychology. Bratislava: UK, 2013, 92 pp., ISBN 978-80-223-3371-9. COATES, G. T.: Notes of Communication: A Few Thoughts about the Way We Interact With the Poeple We Meet. (online), 180 pp. (cit.2013-06-12). Free e-book from www.wanterfall.com. Dostupné na http://www.wanterfall.com/Downloads/Communication.pdf WELSBY, P. D.: Communication Skills in the Medical Interview (online). (Modified: 16/06/2008 12:20, 17pp (cit.2013-06-12. Free e-book from www.wanterfall.com. Dostupné na http://faculty.ksu.edu.sa/drfahad/Articles/communication%20Skills%20in%20the%20Medical%20Interview.PDF	
Languages necessary to complete the course:	
Notes:	

Past grade distribution
Total number of evaluated students: 717

A	B	C	D	E	FX
25,52	29,99	25,24	11,02	5,02	3,21

Lecturers: prof. MUDr. Ján Pečeňák, CSc., doc. MUDr. Viera Kořínková, CSc., MUDr. Ľubomíra Izáková, PhD., MUDr. Mária Králová, CSc., doc. MUDr. Tatiana Čaplová, CSc., PhDr. Michal Hajdúk, PhD., MUDr. Peter Janík, PhD., doc. PhDr. Eva Morovicsová, PhD., MPH, MUDr. Viktor Segeda, PhD., MUDr. Michal Turček, PhD., Mgr. Miroslava Zimányiová

Last change: 05.12.2016

Approved by: prof. MUDr. Juraj Šteňo, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Medicine

Course ID:	**Course title:**
LF.MÚ/L-S-VLa-045/17	Microbiology 1

Educational activities:
Type of activities: lecture / laboratory practicals
Number of hours:
per week: **per level/semester:** 24s / 24s
Form of the course: on-site learning

Number of credits: 3

Recommended semester: 4.

Educational level: I.II.

Prerequisites: LF.ÚLBG/L-S-VLa-007/16 - Biology and Human Genetics 2

Course requirements:

Learning outcomes:

Class syllabus:

Recommended literature:

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 4

A	B	C	D	E	FX
0,0	25,0	50,0	25,0	0,0	0,0

Lecturers: doc. RNDr. Nasir Ahmad Jalili, CSc., prof. MUDr. Vladimír Krčméry, DrSc., doc. MUDr. Adriana Liptáková, PhD., MPH, doc. RNDr. Lívia Slobodníková, CSc., Mgr. Zuzana Hubenáková, RNDr. Lucia Janošíková, MUDr. Ján Koreň, PhD., RNDr. Ján Predný, RNDr. Magdaléna Šimkovičová, CSc., RNDr. Katarína Schwarzová, PhD.

Last change:

Approved by: prof. MUDr. Juraj Šteňo, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava	
Faculty: Faculty of Medicine	
Course ID: LF.MÚ/L-VLa-029/00	**Course title:** Microbiology 2

Educational activities:
Type of activities: lecture / laboratory practicals
Number of hours:
per week: **per level/semester:** 19s / 24s
Form of the course: on-site learning

Number of credits: 7

Recommended semester: 5.

Educational level: I.II.

Prerequisites: LF.MÚ/L-S-VLa-045/17 - Microbiology 1

Course requirements:
100% attendance at practicals
- 2 written tests; each with the minimum success rate of 60 %
- final test with the minimum success rate of 60%
Evaluation: A: 100-91%, B: 90-81%, C: 80-73%, D: 72-66%, E: 65-60%, Fx: 59 % and less
Exam: written part - test with the minimum success rate of 60%
theoretical part - 3 questions (general microbiology, special microbiology, the basics of clinical microbiology and antiinfectious immunity)
The final evaluation is determined from average of the obtained evaluations

Learning outcomes:
Knowledge:
- knowledge about agents of infectious diseases of the particular organs and organ systems, about the mode of their transmission and the most important virulence factors used in the pathogenesis
- predisposing factors for establishment of infectious diseases of the particular organs and organ systems, about the possibility of their prevention and therapy
- sampling and transport of material corresponding to infectious diseases of particular organs and organ systems and the corresponding microbiological diagnostics
Skills:
on the model patients, evaluation and interpretation of microbiological diagnostical tests used in the diagnostics of diseases of microbial etiology of the particular organs and organ systems

Class syllabus:
Lectures: Introduction to clinical microbiology. Laboratory diagnostic methods. Disinfection, sterilization, decontamination. Antimicrobial agents – antibiotics, resistance, side effects. Antiinfectious immunity. Active and passive immunization. Normal microbial flora of the respiratory tract. Infections of the upper and lower respiratory tract, atypical infections, tuberculosis. Normal microbial flora of the GIT. Infections of the GIT, infections of liver and the bile duct. Normal microbial flora of the skin. Infections of the skin and subcutaneous tissue, osteomyelitis. Infections in orthopedics. Normal microbial flora of the genital system. Infections of the genital system. Sexually transmitted diseases. Perinatal and congenital infections. Normal microbial flora of the uropoetic system. Infections of the uropoetic system. Neuroinfections. Infections of the

eye. Bioterrorism. Bacteremia, sepsis, cardiovascular infections. Endocarditis. Epidemiology and prevention of infections. Nosocomial infections. Infections caused by resistant bacteria. Infections of the immunocompromised patient. The problematics of HIV and viral infections.
Practicals: Antimicrobial susceptibility testing. Laboratory diagnostics of microbial diseases of respiratory and gastrointestinal tract, skin and soft tissue, bones, urogenital system. Diagnostics of infection of the foetus and newborn. Diagnostics of neuroinfections, infections of eye, sepsis and endocarditis.

Recommended literature:

Obligatory study literature:

Murray,P.R. et al.: Medical Microbiology. 8th ed. Philadelphia: Elsevier, 2016. 848 pp.
Shunnar, A. et al: Manual for the practical exercises in microbiology. Protocols. Bratislava: Comenius University, 2009, 89 pp.
Shunnar, A. et al: Manual for the practical exercises in microbiology. Theoretical introduction. Bratislava: Comenius University, 2011, 172 pp.

Recommended study literature:

Engleberg, N.C. et al: Schaechter´s Mechanisms of Microbial Disease. 4th ed. Baltimore: Lippincott Williams and Wilkins, 2007. 762 pp.

Languages necessary to complete the course:

Notes:

Past grade distribution

Total number of evaluated students: 1218

A	B	C	D	E	FX
15,6	19,87	17,9	13,14	14,7	18,8

Lecturers: prof. MUDr. Vladimír Krčméry, DrSc., doc. RNDr. Nasir Ahmad Jalili, CSc., doc. MUDr. Adriana Liptáková, PhD., MPH, MUDr. Ján Koreň, PhD., doc. RNDr. Lívia Slobodníková, CSc., RNDr. Katarína Schwarzová, PhD., Mgr. Zuzana Hubenáková

Last change: 07.12.2016

Approved by: prof. MUDr. Juraj Šteňo, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Medicine

Course ID:	**Course title:**
LF.NK1/L-VLa-055/11	Neurology 1

Educational activities:
Type of activities: lecture / laboratory practicals
Number of hours:
per week: **per level/semester:** 24s / 25s
Form of the course: on-site learning

Number of credits: 2

Recommended semester: 7.

Educational level: I.II.

Prerequisites: LF.ÚPA/L-VLa-043/00 - Pathological Anatomy 2 and LF.ÚPF/L-VLa-045/00 - Pathological Physiology 2

Course requirements:
100 % attendance on practicals, patient examination and elaboration of complete patient record, written test – minimum 70 %
Test grading: A: 95 - 100 %, B: 89 – 94 %, C: 83 – 88 %, D: 77 – 82 %, E: 70 – 76 %,
Fx: 0 - 69 %

Learning outcomes:
Knowledge: morphology of nervous system, molecular mechanisms underlying nervous system activity, functional neuroanatomy, major neurologic syndromes, manifestation of nervous system disorders, principles and techniques of clinical and instrumental neurological examination,
Skills: mastering of technique and interpretation of clinical and instrumental neurological examination

Class syllabus:
architecture, organization, and functioning of nervous system, functional neuroanatomy, signs and symptoms of nervous system disorders, major neurologic syndromes, clinical neurological examination – technique and interpretation, EEG, EP, EMG, USG, CT, MRI, lumbar puncture – principles, indications and interpretation

Recommended literature:
Biller J et al: The Neurological Examination, 6th ed., The McGraw-Hill Companies Inc, 2011,
Benarroch E et al: Mayo Clinic Medical Neurosciences, 5th ed., Mayo Clinic Scientific Press 2008

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 719

A	B	C	D	E	FX
0,7	8,07	19,75	33,24	35,33	2,92

Lecturers: prof. MUDr. Peter Turčáni, PhD., prof. MUDr. Peter Kukumberg, PhD., prof. MUDr. Pavel Traubner, PhD., prof. MUDr. Branislav Kollár, PhD., doc. MUDr. Jaroslav Pancák, PhD., prof. MUDr. Peter Valkovič, PhD., MUDr. Karin Gmitterová, PhD., MUDr. Zoltán Goldenberg, PhD., MUDr. Marián Kondáš, PhD., MUDr. Iveta Lisá, CSc., MUDr. Jana Martinková, PhD., doc. MUDr. Marek Sýkora, PhD., doc. MUDr. Stanislav Šutovský, PhD., doc. MUDr. Gabriela Timárová, PhD., MUDr. Pavel Šiarnik, PhD., MUDr. Jozef Szabó, MUDr. Zuzana Košutzká, doc. MUDr. Michal Minár, PhD., MUDr. Darina Slezáková, PhD.
Last change: 07.12.2016
Approved by: prof. MUDr. Juraj Šteňo, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Medicine

Course ID:	**Course title:**
LF.NK1/L-VLa-056/11	Neurology 2

Educational activities:
Type of activities: lecture / laboratory practicals
Number of hours:
per week: **per level/semester:** 26s / 25s
Form of the course: on-site learning

Number of credits: 4

Recommended semester: 8.

Educational level: I.II.

Prerequisites: LF.NK1/L-VLa-055/11 - Neurology 1

Course requirements:

Learning outcomes:
Knowledge: etiopathogenesis, clinical manifestation, diagnostic and therapy of cerebrovascular diseases, epilepsy, headache and craniofacial pain, neurodegenerative diseases, vertebrogenic disorders, tumors of nervous system, infections of nervous system, demyelinating diseases, disorders of peripheral nervous system, disorders of neuromuscular transmission, disorders of skeletal muscles, trauma of nervous system, neurological complications of systemic disease
Skills: identification of signs and symptoms of common neurological disorders, using laboratory tests in diagnosis of neurological diseases, interpretation of laboratory findings in context of clinical picture, generation a list of possible causes of patients signs and symptoms, elaboration of therapeutic program

Class syllabus:
cerebrovascular diseases, epilepsy, headache and craniofacial pain, neurodegenerative diseases, vertebrogenic disorders, tumors of nervous system, infections of nervous system, demyelinating diseases, disorders of peripheral nervous system, disorders of neuromuscular transmission, disorders of skeletal muscles, trauma of nervous system, neurological complications of systemic disease

Recommended literature:
Ropper AH et al: Adams&Victor's Principles of Neurology, 9th ed, The McGraw-Hill Companies, Inc, 2009,
Bradley WQ et al: Neurology in Clinical Practice, 5th ed, Butterworth-Heinemann, 2007

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 672

A	B	C	D	E	FX
27,23	17,11	16,67	9,97	14,58	14,43

Lecturers: prof. MUDr. Peter Turčáni, PhD., prof. MUDr. Peter Kukumberg, PhD., prof. MUDr. Pavel Traubner, PhD., prof. MUDr. Branislav Kollár, PhD., doc. MUDr. Jaroslav Pancák, PhD., prof. MUDr. Peter Valkovič, PhD., MUDr. Zoltán Goldenberg, PhD., MUDr. Marián Kondáš, PhD., MUDr. Iveta Lisá, CSc., doc. MUDr. Stanislav Šutovský, PhD., doc. MUDr. Gabriela Timárová, PhD., MUDr. Pavel Šiarnik, PhD., doc. MUDr. Marek Sýkora, PhD., MUDr. Jozef Szabó, MUDr. Karin Gmitterová, PhD., MUDr. Zuzana Košutzká, MUDr. Jana Martinková, PhD., MUDr. Darina Slezáková, PhD.
Last change: 07.12.2016
Approved by: prof. MUDr. Juraj Šteňo, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Medicine

Course ID:	**Course title:**
LF.ÚSLLE/L-S-VLa-051/16	Nursing 1

Educational activities:
Type of activities: practicals
Number of hours:
per week: **per level/semester:** 18s
Form of the course: on-site learning

Number of credits: 1

Recommended semester: 1.

Educational level: I.II.

Prerequisites:

Course requirements:
100% attendance at all practical lab lesson

Learning outcomes:
Knowledge:
After successful completion of the course student will be able to describe:
- current conditions of providing of nursing care
- organization of patient's treatment in hospital care
- principles of patient's treatment in outpatient care
- principles of communication with patients at specific professional
- principles of safe application of nursing procedures

Skills:
After successful completion of the course student will be able to demonstrate:
- practical skills in treatment of immobile patient
- planning of nursing care in a patient with disorders of self-sufficiency
- practical skills in administering enema and urinary catheterization
- practical skills in monitoring and recording vital signs
- practical skills in collecting biological material for examination
- practical skills in administration of different forms of medication to a patient

Class syllabus:
Legislation and regulations of nursing profession. Treatment of patients in outpatient and inpatient care. Treatment of immobile patients. Practical training in prescribed diagnostic and therapeutic procedures. Measurement, assessing and recording of vital signs. Enema administration, Urinary catheterization. Collection of blood samples for various types of examinations. Collection of other types of human biological material for examination (urine, stool, sputum, swabs). Administration of non-parenteral and parenteral forms of medication to a patient.

Recommended literature:
Nugent, P. M., Vitale, B.A. 2014: Fundamentals of nursing: content review plus practice questions. F. A. Davis Company, 2014, 913 pp. ISBN: 978-0-8036-3706-1
Perry, A. G., Potter, P. A., Ostendorf, W. 2016 : Nursing Interventions & Clinical Skils. Sixth edition. Elsevier Health Sciences, 2016, 888 pp. ISBN 978-0-323-18794-7

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 365

A	B	C	D	E	FX
27,12	31,51	16,99	13,15	10,68	0,55

Lecturers: doc. PhDr. Anna Mazalánová, PhD., PhDr. Iveta Grežďová, PhD., PhDr. Miriam Polhorská, PhD.

Last change: 22.12.2016

Approved by: prof. MUDr. Juraj Šteňo, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Medicine

Course ID:	**Course title:**
LF.ÚSLLE/L-S-VLa-052/16	Nursing 2

Educational activities:
Type of activities: practicals
Number of hours:
per week: **per level/semester:** 18s
Form of the course: on-site learning

Number of credits: 1

Recommended semester: 2.

Educational level: I.II.

Prerequisites: LF.ÚSLLE/L-S-VLa-051/16 - Nursing 1

Course requirements:
100% attendance at all practical lab lessons

Learning outcomes:
Knowledge:
After successful completion of the course student will be able to describe:
- aseptic technique principles of the professional nursing practice
- decontamination procedure principles of the equipment and environment
- principles of safe injection techniques
- methods of wound care methods and selected surgical procedures
- principles of physician - nurse collaboration during selected surgical procedures

Skills:
After successful completion of the course student will be able to demonstrate:
- aseptic technique skills
- skills of different types of injection administration
- skills for administration of infusion and transfusion therapy
- practical arrangements of wound dressing and treatment
- basic skills of assistance in minor surgical procedures

Class syllabus:
Administration of different types of injection. Practical application of infusion and transfusion therapy, the technique of peripheral venous cannulation. Aseptic techniques in nursing practice. Disinfection and sterilization in nursing practice. Physician - nurse collaboration in minor surgical procedures. Nursing assistance in chronic wound care management. Bandaging principles and techniques.

Recommended literature:
Nugent, P. M., Vitale, B.A. 2014: Fundamentals of nursing: content review plus practice questions. F. A. Davis Company, 2014, 913 pp. ISBN: 978-0-8036-3706-1
Perry, A. G., Potter, P. A., Ostendorf, W. 2016 : Nursing Interventions & Clinical Skils. Sixth edition. Elsevier Health Sciences, 2016, 888 pp. ISBN 978-0-323-18794-7

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 207

A	B	C	D	E	FX
24,15	30,92	23,19	11,59	10,14	0,0

Lecturers: doc. PhDr. Anna Mazalánová, PhD., PhDr. Iveta Grežďová, PhD., PhDr. Miriam Polhorská, PhD.

Last change: 22.12.2016

Approved by: prof. MUDr. Juraj Šteňo, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava	
Faculty: Faculty of Medicine	
Course ID: LF.OnK1/L-VLa-057/11	**Course title:** Oncological Propedeutics
Educational activities: **Type of activities:** lecture / laboratory practicals **Number of hours:** **per week:** **per level/semester:** 12s / 15s **Form of the course:** on-site learning	
Number of credits: 2	
Recommended semester: 8.	
Educational level: I.II.	
Prerequisites:	
Course requirements: Practicals/interships attendance: 100 % passing one test (minimum 60%) test evaluation: : A: 91 - 100 %, B: 81 – 99 %, C: 73 – 80 %, D: 66 – 72 %, E: 60 – 65 %, Fx: 59 % and less	
Learning outcomes: Knowledge: theoretical knowledge of molecular and biological aspects of tumor genesis, carcinogenesis, tumor pathology and symptomatology of oncological diseases. Knowledge of tumor epidemiology, diagnostic procedures, evaluation of therapeutic response, basic knowledge of treatments used in oncology: surgery, systemic treatment, radiotherapy. Basic knowledge of management of most frequent oncologic diseases and related social work. Skills: Determining anamnesis and clinical examination of oncological patients.	
Class syllabus: General oncology: biological aspects of oncologic diseases, carcinogenesis, tumor epidemiology, tumor pathology, classification, symptomatology, tumor diagnostics, modalities of tumor treatment: surgery, radiotherapy, systemic treatment. Evaluation of treatment response. Social and psychologic aspects of oncologic diseases. Specialised oncology: epidemiology, etiology, pathology, symptomatology, diagnostics, therapy, prognosis of selected oncological diseases	
Recommended literature: Perez, Brady: Principles and Practice of Radiation Oncology, 6th Edition, Barret, Dobbs et al.: Practical Radiotherapy Planning, 4th ed. Polock R.E. et al: Manual of Clinical Oncology.8th ed., New York: Willey Liss, 2004, 936 p.	
Languages necessary to complete the course:	
Notes:	

Past grade distribution
Total number of evaluated students: 581

A	B	C	D	E	FX
44,58	23,58	16,7	5,68	7,92	1,55

Lecturers: prof. MUDr. Dalibor Ondruš, DrSc., prof. MUDr. Stanislav Špánik, PhD., prof. MUDr. Juraj Švec, DrSc., doc. MUDr. Lýdia Heľpianská, CSc., MUDr. Ivana Krajčovičová, PhD., MUDr. Martin Chorváth, PhD., MUDr. Bela Mriňáková, PhD.

Last change: 07.12.2016

Approved by: prof. MUDr. Juraj Šteňo, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava	
Faculty: Faculty of Medicine	
Course ID: LF.KO/L-VLa-076/11	**Course title:** Ophthalmology

Educational activities:
Type of activities: lecture / laboratory practicals
Number of hours:
per week: **per level/semester:** 24s / 25s
Form of the course: on-site learning

Number of credits: 2

Recommended semester: 9., 10..

Educational level: I.II.

Prerequisites:

Course requirements:
Knowledge: 100 % of participation in practicals
Final test: 20 questions with minimum 60 % of correct answers
Test score: A: 91 - 100 %, B: 81 – 99 %, C: 73 – 80 %, D: 66 – 72 %, E: 60 – 65 %, Fx: 59 % and less
Exam: Theory: 3 questions: basic principles of optics, examination methods in Ophthalmology, general Ophthalmology, special Ophthalmology, Pedoophthalmology, acute situations and first aid in Ophthalmology
Total score is determined from the average of received ratings.

Learning outcomes:
Knowledge: - Acquiring basic, theoretical and practical knowledge in the field of Ophthalmology pediatric and adult patients.
- Basic problems of clinical morphology and physiology of vision. Diagnostic procedures in ophthalmology: an investigation in daylight and side light. Biomicroscopy of the eye. Ophthalmoscopy direct and indirect. Investigation of visual acuity, field of vision and color perception. Additional tests in Ophthalmology: diagnostic ultrasound, fluorescein angiography of retinal blood vessels, optical coherence tomography, basic radiodiagnostics in Ophthalmology. Pedoophthalmology, Ophtalmogenetics, Ophthalmogerontology, Ophthalmogeriatrics. Relationship between Ophthalmology and other medical specialties. General disorders and their manifestations in the eye. Screening in Ophthalmology. Diseases of the eye subsidiary bodies. Diseases of the anterior segment of the eye. Modern cataract surgery. Refractive disorders of the eye. Basics of refractive surgery. Vascular and degenerative diseases of the retina and vitreous. Basics of vitreous-retinal surgery. Glaucoma. Traumatology of the eye. Neurooophthalmology, Ophthalmooncology.
Skills:
- The basis of investigation techniques, history, principles of treatment of diseases of the anterior and posterior segment of the eye, the algorithm in the differential diagnosis of eye diseases, especially inflammatory etiology and injuries.
- Treatment of patients with diseases of the eye and orbit. Problems included patients with impairments of the eye to the environment - assessment activities. - First aid and urgent conditions in Ophthalmology

Class syllabus:
Basic examination in Ophthalmology (visual acuity test, direct and indirect ophthalmoscopy, slit lamp examination, perimetry)

Recommended literature:
Ahmed, E.: Textbook of Ophthalmology, Oxford University Press, London, 1993, 505 p.
Kanski, J.J.: Clinical Ophthalmology. A Systemic Approach. Butterwoth Heinemann, 2003, 720 p.
Oláh, Z.: Ophthalmology, Lectures for the 5th Class. LFUK, Bratislava, 100 p.
Evans, N.: Ophthalmology, Oxford University Press, 1995, 320 p.
Jogi, R.: Basic Ophthalmology, 4 th edition, Jaype Brothers Medical Publishers LTD. New Delhi, 2009, 502 p.

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 620

A	B	C	D	E	FX
27,9	29,52	22,26	8,39	11,29	0,65

Lecturers: prof. MUDr. Anton Gerinec, CSc., prof. MUDr. Zoltán Oláh, DrSc., prof. MUDr. Peter Strmeň, CSc., doc. MUDr. Mgr. Alena Furdová, PhD., MPH, doc. MUDr. Vladimír Krásnik, PhD., MUDr. Sylvia Lea Ferková, PhD., MUDr. Jaroslav Hasa, CSc., MUDr. Patricia Krajčová, PhD., MUDr. Jana Štefaničková, PhD., MUDr. Monika Gromová, PhD.

Last change: 05.12.2016

Approved by: prof. MUDr. Juraj Šteňo, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava	
Faculty: Faculty of Medicine	
Course ID: LF.ORLK1/L-VLa-077/11	**Course title:** Otorhinolaryngology
Educational activities: **Type of activities:** lecture / laboratory practicals **Number of hours:** **per week:** **per level/semester:** 14s / 35s **Form of the course:** on-site learning	
Number of credits: 2	
Recommended semester: 9., 10..	
Educational level: I.II.	
Prerequisites:	
Course requirements: All practicals need to be attended Ability to run patient's notes Test results need to reach 60% or more correct answers in order to pass (A: 91 - 100 %, B: 81 – 99 %, C: 73 – 80 %, D: 66 – 72 %, E: 60 – 65 %, Fx: 59 % and less) Practical exam Final evaluation takes into consideration all partial evaluations	
Learning outcomes: Knowledge: Profound theoretical knowledge in anatomy and physiology of ENT organs and neighboring areas. Knowledge on etiology, pathophysiology, diagnostics and treatment of ENT pathology. Basics of pharmacology in ENT, especially in infectious diseases. Theoretical knowledge on therapeutical approaches in ENT focused on oral cavity, nose, paranasal sinuses and the neck, principles of endoscopic diagnostic and surgical techniques in ENT. Principles of physiology and pathophysiology of hearing, basic knowledge of radiology in ENT. Basics of diagnostics and treatment in ENT oncology. Practical skills: History taking, physical examination of ENT organs, otoscopy, examination of the nose and nasal cavity including endoscopy, laryngoscopy including flexible laryngoscopy, epipharyngoscopy, examination of oral cavity and oropharynx, palpation of the neck. Reading and understanding of pure tone hearing test and tympanogram, principle of the neonatal hearing screening, evaluation of the CT and MRI of paranasal sinuses and the neck. Student must be able to make the provisional diagnosis including differential diagnoses, indicate appropriate examinations and therapeuticaly manage the patient.	
Class syllabus: Basics of anatomy and physiology of ENT organs. Standard examination methods including audiological diagnostics, neonatal screening of hearing. Symptoms of ENT diseases, disaseas of ear, nose, sinuses, larynx, pharynx, oesophagus, thyroid and parathyroid glands, salivary glands and the neck. Tracheostomy, cricothyroidotomy, intubation. Tracheostomy care. Aspects of care after laryngectomy, tonsillectomy, ear and nose surgeries. ENT emergencies- choking, nose bleeds,	

bleedng from the mouth, managemet of inhaled and ingested foregin bodies. Management of the patient with head and neck cancer. Head and neck trauma.

Recommended literature:

Tedla et al.: Basic Otorhinolaryngology (Vydavateľstvo UK, 2016, in press)
Anniko M et al.: Otorhinolaryngology, Head and Neck Surgery, Springer-Verlag Berlin Heidelberg 2010, 737 pp.
Becker, W., Naumann, H.H., Pfaltz, C.R.: Ear, Nose, and Throat Diseases. Sec. Ed. Thieme Verlag, Stuttgart, 1994, 581 s.

Languages necessary to complete the course:

Notes:

Past grade distribution

Total number of evaluated students: 638

A	B	C	D	E	FX
21,16	24,29	23,98	16,46	13,17	0,94

Lecturers: prof. MUDr. Milan Profant, CSc., prof. MUDr. Juraj Klačanský, CSc., doc. MUDr. Zuzana Kabátová, CSc., doc. MUDr. Milan Krošlák, CSc., MUDr. Daniela Nechojdomová, PhD., MUDr. Irina Šebová, CSc., MUDr. Lívia Majerníková, MUDr. Gabriela Pavlovčinová, PhD., MUDr. Patrik Štefanička, PhD., doc. MUDr. Miroslav Tedla, PhD., MPH, MUDr. RNDr. Lukáš Varga, PhD., MUDr. Ivana Matejová, MUDr. Dimitrios Paouris

Last change: 24.11.2016

Approved by: prof. MUDr. Juraj Šteňo, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Medicine

Course ID:	**Course title:**
LF.D_K/L-VLa-058/11	Paediatric Propedeutics

Educational activities:
Type of activities: lecture / laboratory practicals
Number of hours:
per week: **per level/semester:** 29s / 25s
Form of the course: on-site learning

Number of credits: 3

Recommended semester: 7.

Educational level: I.II.

Prerequisites: LF.ÚPA/L-VLa-043/00 - Pathological Anatomy 2 and LF.ÚPF/L-VLa-045/00 - Pathological Physiology 2

Course requirements:

Learning outcomes:

Class syllabus:

Recommended literature:

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 668

A	B	C	D	E	FX
0,9	4,49	19,46	27,69	44,91	2,54

Lecturers: doc. MUDr. Ľudmila Košťálová, CSc., doc. MUDr. Vladimír Bzdúch, CSc., doc. MUDr. Oľga Červeňová, CSc., doc. MUDr. Peter Čižnár, CSc., MUDr. Tomáš Dallos, PhD., MUDr. Jarmila Hornová, PhD., MUDr. Katarína Juríčková, MUDr. Katarína Krivošíková, MUDr. Alžbeta Lencsésová, prof. MUDr. Ľudmila Podracká, CSc., MUDr. Zuzana Pribilincová, CSc.

Last change:

Approved by: prof. MUDr. Juraj Šteňo, DrSc.

STATE EXAM DESCRIPTION

University: Comenius University in Bratislava	
Faculty: Faculty of Medicine	
Course ID: LF.D_K/L-VLa-ŠS-4/15	**Course title:** Paediatrics
Number of credits: 2	
Recommended semester: 11., 12..	
Educational level: I.II.	
State exam syllabus:	
Last change:	
Approved by: prof. MUDr. Juraj Šteňo, DrSc.	

COURSE DESCRIPTION

University: Comenius University in Bratislava	
Faculty: Faculty of Medicine	
Course ID: LF.D_K/L-VLa-059/11	**Course title:** Paediatrics 1

Educational activities:
Type of activities: lecture / laboratory practicals
Number of hours:
per week: **per level/semester:** 24s / 25s
Form of the course: on-site learning

Number of credits: 2

Recommended semester: 8.

Educational level: I.II.

Prerequisites: LF.D_K/L-VLa-058/11 - Paediatric Propedeutics

Course requirements:
- 100% participation at the practical exercises
- to pass 1 written exam (at least 60 % required - evaluation of the exam: A: 91 - 100 %, B: 81 – 99 %, C: 73 – 80 %, D: 66 – 72 %, E: 60 – 65 %, Fx: 59 % and less
- practical exam (patient examination)

The overall evaluation is determined from the avarage of obtained evaluations

Learning outcomes:
Knowledge: Age groups during infancy and childhood. Anatomical and physiological peculiarities of infancy and childhood (growth, psychomotoric development, nutrition).
Prevention in pediatrics. Methods of examination and symptomatology in individual systems (respiratory, cardiovascular, digestive, uropoetic, blood, motoric and nervous)
Skills: precise history and examination of an infant and an older child (including taking of the weight, height, circumference of the head and chest, temperature, blood pressure, the number of pulses and breaths) and interpretation of fundamental laboratory parameters (blood count, examination of the urine, basic biochemical examination)

Class syllabus:
Peculiarities of infancy and childhood (growth, psychomotoric development, nutrition), Prevention in pediatrics, Detailed history and clinical examination of an infant and an older child (including measurement of weight, height, circumference of the head and chest, body temperature, blood pressure, pulses and breaths) and interpretation of basic laboratory parameters (blood count, examination of the urine, basic biochemical examination)
Pediatric history, Physical examination, Psychomotoric development. Age groups during infancy and childhood. Nutrition of infants - breast feeding, artificial feeding. Nutrition of older children. Anatomical and physiological peculiarities in infancy and childhood. Methods of examination of individual organs and systems, organ related symptomatology (respiratory, cardiovascular, digestive, uropoetic, blood, motoric and nervous).

Recommended literature:
Kovács L. et al: Pediatric Propedeutics - Workbook for Medical Students, BUX, Bratislava, 2014, 150 s.
Lissauer T, Clayden G. Illustrated Pediatrics, 3rd Edition, Mosby, 2007, 516 p.

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 678

A	B	C	D	E	FX
10,62	27,29	31,42	18,14	12,09	0,44

Lecturers: doc. MUDr. Ľudmila Košťálová, CSc., doc. MUDr. Vladimír Bzdúch, CSc., doc. MUDr. Oľga Červeňová, CSc., doc. MUDr. Peter Čižnár, CSc., MUDr. Tomáš Dallos, PhD., MUDr. Jarmila Hornová, PhD., MUDr. Katarína Juríčková, MUDr. Katarína Krivošíková, MUDr. Alžbeta Lencsésová, MUDr. Denisa Lobotková, PhD., MUDr. Zuzana Pribilincová, CSc., prof. MUDr. Ľudmila Podracká, CSc.

Last change: 24.11.2016

Approved by: prof. MUDr. Juraj Šteňo, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava	
Faculty: Faculty of Medicine	
Course ID: LF.D_K/L-VLa-060/11	**Course title:** Paediatrics 2

Educational activities:
Type of activities: lecture / laboratory practicals
Number of hours:
per week: **per level/semester:** 29s / 25s
Form of the course: on-site learning

Number of credits: 2

Recommended semester: 9.

Educational level: I.II.

Prerequisites: LF.D_K/L-VLa-059/11 - Paediatrics 1

Course requirements:
100% participation in the practical exercises
- to pass written exam (at least 60 % required - evaluation of the exam: A: 91 - 100 %, B: 81 – 99 %, C: 73 – 80 %, D: 66 – 72 %, E: 60 – 65 %, Fx: 59 % and less)
- practical exam (examination of a patient)
The overall evaluation is determined from the avarage of obtained evaluations.

Learning outcomes:
Knowledge:
Acute of nutritional disorders in infants. Diseases of the respiratory system (acute respiratory diseases, pneumonia, recurrent respiratory diseases, bronchial asthma, cystic fibrosis, bronchiectasis, interstitial pulmonary fibrosis). Diseases of the blood system (anemia, coagulation disorders, leukemia, lymphomas). Neonatology – physiologic newborn, low birth weight newborn. Life-threatening conditions. Cramps. Infections. Newborn of a mother taking drugs. Endocrinology – growth disorders, disorders of pubertal development, congenital adrenal hyperplasia, diseases of the thyroid and the parathyroid gland, Diabetes mellitus, Obesity. Anorexia nervosa. Hypertension. Disorders of connective tissue - JCA, SLE, dermatomyositis, vasculitis. Nephrology - glomerulonephritis, nephrotic syndrome, Urinary tract infection, VUR, Tubulopathies, Acute and chronic renal insufficiency. Cardiology - congenital heart defects, heart failure, inflammatory heart disease, rheumatic fever, arrhythmia.
Skills: Pediatric history taking and related communication skills, Clinical and neurological examination of the newborn, Clinical examination of infants and evaluation of psychomotor development, Assessment of height and weight and evaluation according to the nomogram, Breastfeeding/artificial nutrition – evaluation of the weight before and after feeding, Assessment of bone age and pubertal development (according to Tanner), Measurement of body temperature (rectal and axillary), Assessment of the vital functions (pulse and breaths rate), Measurement of blood pressure in different age groups. Microscopic examination of the urine, Calculation calories in meals, Evaluation of blood counts and differential blood counts, Determination of blood groups, Interpretation of lungs X-RAY finding, Interpretation of intravenous urography and cystography, Examination of tonsills and methods for taking samples for microbiological examination, Methods for drug delivery, Compiling genetic family tree, evaluation results of the examination of

chromosomes, Calculation of amount of fluids and electrolytes to be administered to dehydrated infants with acute gastroenteritis or diabetic ketoacidosis, respectively

Class syllabus:

Acute nutritional disorders of infants. Chronic nutritional disorders – malabsorption. Disorders of GIT in older children (gastric and duodenal peptic ulcer disease, inflammatory bowel disease, disorders of the liver, gall bladder and pancreas). Diseases of the respiratory system (acute respiratory diseases, pneumonia, recurrent respiratory diseases, bronchial asthma, cystic fibrosis, bronchiectasis, interstitial pulmonary fibrosis). Diseases of the blood system (anemia, coagulation disorders, leukemia, lymphomas). Neonatology – physiologic newborn, low birth weight newborn. Respiratory distress syndrome and other respiratory disorders. Differential diagnosis of cyanosis. M. haemolyticus and differential diagnosis of jaundice in newborns. Life-threatening conditions. Cramps. Infections. Newborn of the mother taking drugs. Endocrinology – growth disorders, disorders of pubertal development, congenital adrenal hyperplasia, diseases of the thyroid and the parathyroid gland, diabetes mellitus, Obesity. Anorexia nervosa. Hypertension. Disorders of connective tissue - JCA, SLE, dermatomyositis, vasculitis. Nephrology - glomerulonephritis, nephrotic syndrome, urinary tract infection, VUR, tubulopathies, acute and chronic renal insufficiency. Cardiology - congenital heart defects, heart failure, inflammatory heart disease, rheumatic fever, arrhythmia. Poisoning in children. Side effects of drugs. Genetic diseases - monogenic diseases, chromosomal aberrations. Birth defects. Congenital metabolic disorders of proteins, fat and carbohydrates.

Recommended literature:

Kovács L. et al: Pediatric Propedeutics- Workbook for Medical Students, BUX, Bratislava, 2014, 150 s.
Lissauer T, Clayden G. Illustrated Pediatrics, 3rd Edition, Mosby, 2007, 516 p.

Languages necessary to complete the course:

Notes:

Past grade distribution

Total number of evaluated students: 634

A	B	C	D	E	FX
53,31	24,45	16,09	1,89	4,26	0,0

Lecturers: prof. MUDr. Ľudmila Podracká, CSc., prof. MUDr. Ingrid Brucknerová, PhD., doc. MUDr. Peter Čižnár, CSc., MUDr. Ľubomír Barák, CSc., doc. MUDr. Vladimír Bzdúch, CSc., doc. MUDr. Oľga Červeňová, CSc., MUDr. Tomáš Dallos, PhD., MUDr. Jarmila Hornová, PhD., MUDr. Katarína Juríčková, doc. MUDr. Ľudmila Košťálová, CSc., MUDr. Katarína Krivošíková, MUDr. Alžbeta Lencsésová, MUDr. Denisa Lobotková, PhD., MUDr. Zuzana Pribilincová, CSc., MUDr. Katarína Prochotská, PhD., MUDr. Peter Repko, doc. MUDr. Juraj Staník, PhD., MUDr. Ľubica Tichá, PhD.

Last change: 24.11.2016

Approved by: prof. MUDr. Juraj Šteňo, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Medicine

Course ID:	**Course title:**
LF.D_K/L-VLa-061/11	Paediatrics 3

Educational activities:
Type of activities: lecture / laboratory practicals
Number of hours:
per week: **per level/semester:** 29s / 25s
Form of the course: on-site learning

Number of credits: 3

Recommended semester: 10.

Educational level: I.II.

Prerequisites: LF.D_K/L-VLa-060/11 - Paediatrics 2

Course requirements:
- 100% presence in lectures
- passing written exam 2 (minimum score of 60%)
- practical exam – patient examination with written presentation (diagnostics, differential diagnosis, therapeutic plan)

State exam:
- theoretical part – 3 questions

Learning outcomes:
Knowledge: Chronic nutritional disorders - malabsorption. Gastrointestinal diseases in older children (peptic and duodenal ulcer disease, inflammatory bowel disease, disorders of liver, gall bladder, and pancreas). Respiratory diseases (acute respiratory diseases, pneumonias, recurrent respiratory diseases, bronchial asthma, cystic fibrosis, bronchiectasis, interstitial lung fibrosis). Blood system diseases (anemias, bleeding disorders, leukemia, lymphomas). Neonatology - respiratory distress syndrome and other respiratory disorders. Differential diagnosis of cyanosis. M. haemolyticus and differential diagnosis of jaundice. Life-threatening conditions. Convulsions. Infections. Infant of a mother using drugs. Endocrinology - growth disorders, disorders of pubertal development, congenital adrenal hyperplasia, diseases of the thyroid and parathyroid glands, diabetes mellitus, obesity. Anorexia nervosa. Hypertension. Connective tissue disorders - JCA, SLE, dermatomyositis, and vasculitis. Nephrology - glomerulonephritis, nephrotic syndrome, urinary tract infection, VUR, tubulopathy, acute and chronic renal insufficiency. Cardiology - congenital heart diseases, heart failure, inflammatory heart diseases, rheumatic fever, arrhythmias. Poisoning in children. Drug side effects. Genetic diseases. Monogenic, chromosomal aberrations. Birth defects. Congenital metabolic disorders of proteins, lipids, carbohydrates etc.
Skills: Diagnostics and treatment principles of underlying pediatric conditions in conditions of children's department. The work of pediatrician in primary contact, feeding techniques of newborns and infants, nasogastric tube insertion, intravenous infusions into the veins of the head and limbs, oral administration of drugs to newborns and infants , sweat test, methods of blood and urine sampling, bone marrow biopsy and lumbar puncture, immunization, Mantoux test, ultrasound of brain and abdomen, newborn resuscitation, primary neonatal care, phototherapy, neonatal screening

Class syllabus:

Work at the department as a junior secondary doctor. Assisting in various diagnostic and therapeutic procedures. X-rays and ECG evaluation. Working at the outpatient clinic.
Participation in bed side visits and seminars.
Preparing a model medical record - detailed differential diagnosis and treatment, oral presentation with discussion in the presence of a teacher.
Circulations general pediatrics (4 weeks), pediatric dermatology (one week), pediatric neurology clinic (one week), pediatric cardiology (1 week)

Recommended literature:

Kovács L. et al: Pediatric Propedeutics- Workbook for Medical Students, BUX, Bratislava, 2014, 150 s.
Lissauer T,Clayden G. Illustrated Pediatrics, 3rd Edition, Mosby, 2007, 516 p.

Languages necessary to complete the course:

Notes:

Past grade distribution

Total number of evaluated students: 596

A	B	C	D	E	FX
37,58	13,76	16,11	12,75	16,28	3,52

Lecturers: prof. MUDr. Ľudmila Podracká, CSc., prof. MUDr. Ingrid Brucknerová, PhD., doc. MUDr. Vladimír Bzdúch, CSc., doc. MUDr. Peter Čižnár, CSc., MUDr. Ľubomír Barák, CSc., doc. MUDr. Oľga Červeňová, CSc., MUDr. Tomáš Dallos, PhD., MUDr. Jarmila Hornová, PhD., MUDr. Katarína Juríčková, doc. MUDr. Ľudmila Košťálová, CSc., MUDr. Katarína Krivošíková, MUDr. Alžbeta Lencsésová, MUDr. Denisa Lobotková, PhD., MUDr. Zuzana Pribilincová, CSc., MUDr. Katarína Prochotská, PhD., MUDr. Peter Repko, doc. MUDr. Juraj Staník, PhD., MUDr. Ľubica Tichá, PhD.

Last change: 24.11.2016

Approved by: prof. MUDr. Juraj Šteňo, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Medicine

Course ID:	**Course title:**
LF.D_K/L-VLa-126/16	Paediatrics – practice

Educational activities:
Type of activities: practice
Number of hours:
per week: **per level/semester:** 80s
Form of the course: on-site learning

Number of credits: 3

Recommended semester: 10.

Educational level: I.II.

Prerequisites:

Course requirements:
100 % presence during the internship

Learning outcomes:
Knowledge: Acute nutritional disorders in infants. Respiratory diseases (acute respiratory diseases, pneumonias, recurrent respiratory diseases, bronchial asthma, cystic fibrosis, bronchiectasis, interstitial lung fibrosis). Blood system diseases (anemias, bleeding disorders, leukemia, lymphomas). Neonatology - physiological newborn, newborn with low birth weight. Life-threatening conditions. Convulsions. Infections. Infants of mothers using drugs. Endocrinology - growth disorders, disorders of pubertal development, congenital adrenal hyperplasia, diseases of the thyroid and parathyroid glands, diabetes mellitus, obesity. Anorexia nervosa. Hypertension. Connective tissue disorders - JCA, SLE, dermatomyositis, and vasculitis. Nephrology - glomerulonephritis, nephrotic syndrome, urinary tract infection, VUR, tubulopathy, acute and chronic renal insufficiency. Cardiology - congenital heart diseases, heart failure, inflammatory heart diseases, rheumatic fever, arrhythmias.
Skills: Work of pediatrician in primary contact. Diagnostics and treatment of common pediatric conditions. History taking, physical examination, laboratory diagnostic methods, basic noninvasive and invasive diagnostic methods, special diagnostic methods in pediatrics and their usage in getting diagnosis with a therapeutic plan. Acquiring common skills.

Class syllabus:
Diagnostics and treatment of common pediatric conditions. History taking, physical examination, laboratory diagnostic methods, basic noninvasive and invasive diagnostic methods, special diagnostic methods in pediatrics and their usage in getting diagnosis with a therapeutic plan. Acquiring common skills.

Recommended literature:
Kovács L. et al: Pediatric Propedeutics- Workbook for Medical Students, BUX, Bratislava, 2014, 150 s.
Lissauer T,Clayden G. Illustrated Pediatrics, 3rd Edition, Mosby, 2007, 516 p.

Languages necessary to complete the course:

Notes:

Past grade distribution Total number of evaluated students: 75
ABS0
100,0
Lecturers: prof. MUDr. Ľudmila Podracká, CSc.
Last change: 24.11.2016
Approved by: prof. MUDr. Juraj Šteňo, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Medicine

Course ID:	**Course title:**
LF.ÚPA/L-VLa-042/00	Pathological Anatomy 1

Educational activities:
Type of activities: lecture / laboratory practicals
Number of hours:
per week: **per level/semester:** 48s / 48s
Form of the course: on-site learning

Number of credits: 5

Recommended semester: 5.

Educational level: I.II.

Prerequisites: LF.AÚ/L-S-VLa-003/17 - Anatomy 3 and LF.ÚHE/L-S-VLa-019/17 - Histology and Embryology 2

Course requirements:
100% histopathology class attendance.
90% autopsy class attendance.
To pass 2 written control tests with minimum score of 60 points.
Test scoring: A: 91 - 100 %, B: 81 – 99 %, C: 73 – 80 %, D: 66 – 72 %, E: 60 – 65 %, Fx: 59 % and less
Total score is determined from the average of ratings received.

Learning outcomes:
Knowledge:
Etiology and pathogenesis of pathological changes in tissues and organs. Recognition of the connection between clinical manifestations and pathological-anatomic substrate of diseases. Pathomorphologic changes of tissues and organs in correlation with functional changes.
Skills:
Working with light microscope. The use of conventional, special staining methods and histochemical methods in the differential diagnosis of pathological processes.

Class syllabus:
General pathology: methods in pathology, cell pathology, regressive and progressive changes, necrosis, atrophy, metabolic diseases, disorders of blood and lymph circulation, inflammation – acute, chronic, granulomatous, developmental defects, nutritional diseases, immunopathology, AIDS, transplantation pathology, environmental pathology.
General oncology: nomenclature and taxonomy of tumors, cancerogenesis, tumor growth and its influence on organism, benign and malignant tumors, histological diagnostics, grading and staging, tumor markers, invasion and metastasis, epithelial and mesenchymal tumors, neuroectodermal tumors, mixed tumors, teratomas, germ cell tumors, tumors of placenta, mesothelioma. Hemopoetic tumors, malignant lymphomas. Description of gross pathological changes. Arrangement of diagnoses in autopsy report.

Recommended literature:
Harsh Mohan: Textbook of Jaypee Brothers Medical Publishers LTD., 2010, 933 p.
Robins and Cotrans: Atlas of Pathology, ELSEVIER 2006, 529 p.

Damjanov Ivan: Atlas of Histopathology, Jaypee Brothers Medical Publishers LTD., 2012, 399 p.

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 815

A	B	C	D	E	FX
13,99	36,56	25,28	17,42	5,4	1,35

Lecturers: prof. MUDr. Ľudovít Danihel, CSc., prof. MUDr. Pavel Babál, CSc., doc. MUDr. Ján Porubský, CSc., MUDr. Andrea Černá, PhD., MUDr. Pavol Janega, PhD., MUDr. Michal Palkovič, PhD., MUDr. Mgr. Vladimír Šišovský, PhD., MUDr. Zuzana Čierna, PhD., MUDr. Kristína Mosná, MUDr. Andrea Janegová, PhD., MUDr. Katarína Letkovská, PhD., MUDr. Kristína Mikuš Kuracinová, MUDr. Hedviga Mrázová, PhD., MUDr. Lucia Krivošíková

Last change: 22.12.2016

Approved by: prof. MUDr. Juraj Šteňo, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Medicine

Course ID:	**Course title:**
LF.ÚPA/L-VLa-043/00	Pathological Anatomy 2

Educational activities:
Type of activities: lecture / laboratory practicals
Number of hours:
per week: **per level/semester:** 48s / 48s
Form of the course: on-site learning

Number of credits: 8

Recommended semester: 6.

Educational level: I.II.

Prerequisites: LF.ÚPA/L-VLa-042/00 - Pathological Anatomy 1

Course requirements:
100% histopathology class attendance.
90% autopsy class attendance.
Histopathology class - To pass 2 written control tests with minimum score of 60 % - Multiple Choice Test.
Autopsy classes - Continuous oral evaluation of knowledge
Complex exam:
- Practical exam in autopsy room – oral form
- Description of 1 histopathological slide
- Final written multiple choice test – minimum score of 60 %
- Oral exam 3 questions 1 – general pathology
1 - oncology
1 – systemic pathology
Test scoring: A: 91 - 100 %, B: 81 – 99 %, C: 73 – 80 %, D: 66 – 72 %, E: 60 – 65 %, Fx: 59 % and less. Total score is determined from the average of ratings received.

Learning outcomes:
Knowledge:
Morphologic changes of the organs in tumorous and non-tumorous processes. Tumor classification, grading, staging. Etiology, pathogenesis, complications and prognosis of pathological changes of different organs. Pathomorphologic changes of tissue and organs in correlation with functional changes. Diagnosis arrangement of autopsy report based on gross and microscopical examination.
Skills:
The use of modern immunohistochemical, molecular-biological and ultrastructural methods in diagnostics of pathological processes.

Class syllabus:
Special systemic pathology: cardiovascular system – vascular diseases, atherosclerosis, heart diseases, respiratory system – inflammations, allergies, emphysema, tumors, hemopoetic system, pathology of spleen, lymph nodes, nephropathology – vascular disorders, glomerulonephritis, tumors, ulcerous colitis, Crohn´s disease, metabolic diseases, bones and joints – inflammations, degenerative diseases, myopathies, endocrine system – syndromes, tumors, neuroendocrine system,

skin – inflammations, tumors, genitals – inflammations, sexually transmitted diseases, precancerous states, tumors, breast, endometrial dysfunctions, pathology of pregnancy, trophoblastic disease, nervous system – traumas, circulation disorders, inflammations, degenerative diseases, tumors, pathology of neonate.

Recommended literature:

Harsh Mohan: Textbook of Jaypee Brothers Medical Publishers LTD., 2010, 933 p.
Robins and Cotrans: Atlas of Pathology, ELSEVIER 2006, 529 p.
Damjanov Ivan: Atlas of Histopathology, Jaypee Brothers Medical Publishers LTD., 2012, 399 p.

Languages necessary to complete the course:

Notes:

Past grade distribution

Total number of evaluated students: 1152

A	B	C	D	E	FX
15,19	10,59	17,45	13,98	23,18	19,62

Lecturers: prof. MUDr. Ľudovít Danihel, CSc., prof. MUDr. Pavel Babál, CSc., doc. MUDr. Ján Porubský, CSc., MUDr. Andrea Černá, PhD., MUDr. Pavol Janega, PhD., MUDr. Michal Palkovič, PhD., MUDr. Mgr. Vladimír Šišovský, PhD., MUDr. Zuzana Čierna, PhD., MUDr. Kristína Mosná, MUDr. Andrea Janegová, PhD., MUDr. Katarína Letkovská, PhD., MUDr. Kristína Mikuš Kuracinová, MUDr. Lucia Krivošíková, MUDr. Hedviga Mrázová, PhD.

Last change: 22.12.2016

Approved by: prof. MUDr. Juraj Šteňo, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Medicine

Course ID:	**Course title:**
LF.ÚPF/L-VLa-044/00	Pathological Physiology 1

Educational activities:
Type of activities: lecture / laboratory practicals
Number of hours:
per week: **per level/semester:** 36s / 36s
Form of the course: on-site learning

Number of credits: 4

Recommended semester: 5.

Educational level: I.II.

Prerequisites: LF.FyÚ/L-S-VLa-014/17 - Physiology 2

Course requirements:

Learning outcomes:

Class syllabus:
Principles of molecular pathogenesis and genetics, pathophysiology of malignant diseases, carcinogenesis, disturbances of body fluids, electrolytes and acid-base balance, anesthesia and pain, stress, shock, pathophysiology of respiratory system, pathophysiology of the cardiovascular system, pathophysiology of the gastrointestinal system.
Pathophysiology of malignancy. Stable and unstable angina pectoris.
Acute myocardial infarction. Heart failure. Arrhythmias. Sudden cardiac death. Stress. Arterial blood pressure deregulation. Inborn valvular defects of the heart. Acquired valvular defects of the heart. Shock. Pulmonary hypertension. Liver disease.
Water disturbances. Electrolyte disturbances. Disturbances in acid-base balance. Anesthesia and pain. Principles of work with experimental animals. Carcinogenesis. Myocardial infarction. Cardiomyopathies. Electrical activity of the heart and its disturbances. Tachyarrhythmias. Bradyarrhythmias. Arterial hypertension I. Arterial hypertension II.

Recommended literature:
Hulín et al.: Pathophysiology. Bratislava, SAP 1997, 696 s.
Holzerová, J., Bakošová, M., Sapáková, E., Kraj?ovi?ová, ?., Hulín, I.: Pathophysiology. Supplement 2000. Bratislava, SAP 2000, 80 s.
Hulin's Pathophysiological Letters. SAP, Bratislava, 1999, 123 pp.
Štvrtinová V., Jakubovský J., Hulín I.: Inflammation and Fever. 1995, 113 pp.

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 813

A	B	C	D	E	FX
10,21	62,48	20,05	5,9	1,11	0,25

Lecturers: prof. MUDr. Marián Bernadič, CSc., prof. MUDr. Beáta Mladosievičová, CSc., prof. MUDr. Fedor Šimko, CSc., doc. RNDr. Ing. Peter Celec, DrSc., MUDr. RNDr. Ľudovít Paulis, PhD., MUDr. Ljuba Bachárová, DrSc., doc. MUDr. Barbara Ukropcová, PhD.
Last change: 02.06.2015
Approved by: prof. MUDr. Juraj Šteňo, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Medicine

Course ID:	**Course title:**
LF.ÚPF/L-VLa-045/00	Pathological Physiology 2

Educational activities:
Type of activities: lecture / laboratory practicals
Number of hours:
per week: **per level/semester:** 36s / 36s
Form of the course: on-site learning

Number of credits: 7

Recommended semester: 6.

Educational level: I.II.

Prerequisites: LF.ÚPF/L-VLa-044/00 - Pathological Physiology 1

Course requirements:

Learning outcomes:

Class syllabus:
Pathophysiology of the uropoietic tract, gastrointestinal tract, respiratory system, endocrine system, central and peripheral nervous system, autonomous nervous system, pathophysiology of sensory organs, pathophysiology of bones and joints, pathophysiology of the blood and haematopoiesis, vascular disorders.
Pathophysiology of white blood cells. Anemic syndrome. Disorders of suprarenal gland. Endothelial dysfunction. Pathophysiology of nervous system - general principles. Pathophysiology of sensory system. Thromboembolism. Cerebral ischemia and hemorrhage. Alzheimer's disease, prion diseases. Syndrome of insulin resistance. Renal failure I. Renal failure II.
Disorders of ventilation and perfusion. Bronchial asthma. Proteinuria and the nephrotic syndrome. Ileus. Peptic ulcer. Icterus. Diabetes mellitus I. Pathophysiology of thyroid gland. Pathophysiology of epilepsy. Pneumonia and lung cancer. Diabetes mellitus II. Pathophysiology of suprarenal glands. Disseminated intravascular coagulation.

Recommended literature:
Hulín et al.: Pathophysiology. Bratislava, SAP 1997, 696 s.
Holzerová, J., Bakošová, M., Sapáková, E., Kraj?ovi?ová, ?., Hulín, I.: Pathophysiology. Supplement 2000. Bratislava, SAP 2000, 80 s.
Hulin's Pathophysiological Letters. SAP, Bratislava, 1999, 123 pp.
Štvrtinová V., Jakubovský J., Hulín I.: Inflammation and Fever. 1995, 113 pp.

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 1007

A	B	C	D	E	FX
13,31	15,49	23,24	16,48	23,63	7,85

Lecturers: prof. MUDr. Marián Bernadič, CSc., prof. MUDr. Beáta Mladosievičová, CSc., prof. MUDr. Fedor Šimko, CSc., doc. RNDr. Ing. Peter Celec, DrSc., MUDr. RNDr. Ľudovít Paulis, PhD., MUDr. Ljuba Bachárová, DrSc., doc. MUDr. Barbara Ukropcová, PhD.
Last change: 02.06.2015
Approved by: prof. MUDr. Juraj Šteňo, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Medicine

Course ID:	**Course title:**
LF.D_K/L-VLa-142/17	Pediatria 4

Educational activities:
Type of activities: seminar / laboratory practicals
Number of hours:
per week: **per level/semester:** 64s / 280s
Form of the course: on-site learning

Number of credits: 16

Recommended semester: 11., 12..

Educational level: I.II.

Prerequisites: LF.D_K/L-VLa-061/11 - Paediatrics 3

Course requirements:

Learning outcomes:

Class syllabus:

Recommended literature:

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 71

A	B	C	D	E	FX
69,01	18,31	9,86	2,82	0,0	0,0

Lecturers: prof. MUDr. Ingrid Brucknerová, PhD., prof. MUDr. Ľudmila Podracká, CSc., doc. MUDr. Peter Čižnár, CSc., doc. MUDr. Ľudmila Košťálová, CSc., MUDr. Ľubomír Barák, CSc., doc. MUDr. Vladimír Bzdúch, CSc., doc. MUDr. Oľga Červeňová, CSc., MUDr. Tomáš Dallos, PhD., MUDr. Jarmila Hornová, PhD., MUDr. Katarína Juríčková, MUDr. Katarína Krivošíková, MUDr. Alžbeta Lencsésová, MUDr. Denisa Lobotková, PhD., MUDr. Zuzana Pribilincová, CSc., MUDr. Katarína Prochotská, PhD., MUDr. Peter Repko, doc. MUDr. Juraj Staník, PhD., MUDr. Ľubica Tichá, PhD., doc. MUDr. Dušan Buchvald, CSc., MUDr. Linda Gáborová, MUDr. Dominika Sabová, MUDr. Marko Bjeloševič, MUDr. Lenka Majerová, prof. MUDr. Jozef Mašura, CSc., MUDr. Peter Olejník, PhD., MUDr. Barbora Ascherová, doc. MUDr. Alexandra Kolenová, PhD., MUDr. Judita Puškáčová, PhD., MUDr. Rebeka Holubová, MUDr. Miriam Kolníková, PhD., MUDr. Gonzalo Alonso Ramos Rivera, MUDr. Lucia Švecová, MUDr. Monika Achbergerova, MUDr. Mgr. Miroslava Makohusová, MUDr. Peter Švec, PhD.

Last change:

Approved by: prof. MUDr. Juraj Šteňo, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Medicine

Course ID:	**Course title:**
LF.ÚFKF/L-VLa-030/00	Pharmacology 1

Educational activities:
Type of activities: lecture / laboratory practicals
Number of hours:
per week: **per level/semester:** 36s / 24s
Form of the course: on-site learning

Number of credits: 3

Recommended semester: 6.

Educational level: I.II.

Prerequisites: LF.FyÚ/L-S-VLa-014/17 - Physiology 2

Course requirements:
100% participation on practicals
Participation in 3 written tests, minimum is to achieve 70 %
Test rating: A: 94 - 100 %, B: 88 - 93 %, C: 82 - 87 %, D: 76 - 81 %, E: 70 - 75 %,
Fx: 69 % and less
Elaboration of a semestral work
The final rating is the arithmetic mean of all ratings

Learning outcomes:
Knowledge:
To acquire general knowledge on:
- basic mechanisms of drug action
- fate of the drug in the body
- risks of pharmacotherapy
- preclinical and clinical evaluation of drugs
Skills:
- ability to use and apply the knowledge on general pharmacology in subsequent study of special pharmacology

Class syllabus:
Drug and society. How drugs act. Drugs information sources. Nomenclature. Types of drug action. Basic principles of the movement of drugs in the body. Basic pharmacokinetic concepts. Mechanisms of drug action on molecular level. Receptors. Adverse drug reactions. Risks of pharmacotherapy in pregnancy and during lactation. Risks of medication in the elderly. Good clinical practice. Pharmacogenetics. Pharmacoepidemiology. Pharmacovigilance. Pharmacoeconomics. Principles of drug prescription. Pharmacology of the autonomous nervous system. Pain and pharmacotherapeutic approach. Antimicrobial substances. The characteristics of betalactams, macrolides, glycopeptides and aminoglycosides, tetracyclines, chinolones and antibiotic specialities – antituberculotics, antiparasitics, antivirus substances. Cytostatics. Biologic drugs. Immunosuppresives and immunostimulants. Drugs used in the treatment of peptic ulcer, diseases if the intestine, pancreas, liver and gall-ducts.

Recommended literature:

Katzung B.G. et al. Pharmacology. 9th Edition, McGraw Hill, 2010
Brenner, GM, and Stevens, CM: Pharmacology, 4th edition Philadelphia: Saunders/Elsevier, 2013.
Rang, HP et al.: Rang and Dale´s Pharmacology. 7th edition Edingburgh: Elsevier, Churchill Livingstone, 2012.

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 799

A	B	C	D	E	FX
12,64	28,16	27,16	16,02	15,89	0,13

Lecturers: prof. MUDr. Viera Kristová, CSc., prof. MUDr. Milan Kriška, DrSc., prof. MUDr. Martin Wawruch, PhD., PharmDr. Andrea Gažová, PhD., MUDr. Miriam Petrová, PhD., MUDr. Kristína Hudecová, PhD., MUDr. Monika Laššánová, PhD., MUDr. Jana Tisoňová, PhD., MUDr. Róbert Vojtko, PhD.

Last change: 08.12.2016

Approved by: prof. MUDr. Juraj Šteňo, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava	
Faculty: Faculty of Medicine	
Course ID: LF.ÚFKF/L-VLa-031/11	**Course title:** Pharmacology 2

Educational activities:
Type of activities: lecture / laboratory practicals
Number of hours:
per week: **per level/semester:** 36s / 24s
Form of the course: on-site learning

Number of credits: 7

Recommended semester: 7.

Educational level: I.II.

Prerequisites: LF.ÚFKF/L-VLa-030/00 - Pharmacology 1 and LF.ÚPF/L-VLa-045/00 - Pathological Physiology 2

Course requirements:
100% participation on practicals
Participation in 2 written tests, minimum is to achieve 70 %
Test rating: A: 94 - 100 %, B: 88 - 93 %, C: 82 - 87 %, D: 76 - 81 %, E: 70 - 75 %,
Fx: 69 % and less
Elaboration of a semestral work
Examinaiton – written part – test (minimum is to achieve 70 %)
- theoretical part – three questions (one question general pharmacology,
two questions special pharmacology)
The final rating is the arithmetic mean of all ratings

Learning outcomes:
Knowledge:
To acquire knowledge on drugs of particular pharmacodynamic groups with emphasis on:
- mechanisms of drug action
- pharmacokinetics
- clinical application
- adverse effects
- drug interactions

Skills:
- ability to apply the knowledge of pharmacology in clinical disciplines
- ability to judge the risk/benefit ratio of drugs in an individual patient

Class syllabus:
Drugs of the cardiovascular system. Cardiotonics. Dysrhythmics. Antianginal drugs. Drugs used in the therapy of heart failure. Hypolipidemics. Antihypertensives. Vasodilator drugs. Antiaggregation drugs. Drugs used in psychiatry. Antidepressives. Anxiolytics. Cognitives. Antipsychotics. Drugs influencing the hormonal system. Antidiabetics, drugs used to treat dysfunction of adrenals. Glucocorticoids. Strategy of the treatment with glucocorticoids. Drugs influencing the urogenital system. Drugs influencing the smooth muscles, motoric activities and secretion in the

airways. Antiasthmatics. Vitamins in therapy. Methods of drugs evaluation. Principles of rational pharmacotherapy. Audit of the pharmacotherapy.

Recommended literature:

Katzung B.G. et al. Pharmacology. 9th Edition, McGraw Hill, 2010
Brenner, GM, and Stevens, CM: Pharmacology, 4th edition Philadelphia: Saunders/Elsevier, 2013.
Rang, HP et al.: Rang and Dale´s Pharmacology. 7th edition Edingburgh: Elsevier, Churchill Livingstone, 2012.

Languages necessary to complete the course:

Notes:

Past grade distribution

Total number of evaluated students: 708

A	B	C	D	E	FX
21,75	19,49	23,73	18,08	14,97	1,98

Lecturers: prof. MUDr. Viera Kristová, CSc., prof. PharmDr. Daniela Ježová, DrSc., prof. MUDr. Milan Kriška, DrSc., prof. MUDr. Martin Wawruch, PhD., PharmDr. Andrea Gažová, PhD., MUDr. Miriam Petrová, PhD., MUDr. Jana Tisoňová, PhD., MUDr. Kristína Hudecová, PhD., MUDr. Monika Laššánová, PhD., MUDr. Róbert Vojtko, PhD.

Last change: 08.12.2016

Approved by: prof. MUDr. Juraj Šteňo, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Medicine

Course ID:	**Course title:**
LF.ÚTVŠ/L-VLa-X19/16	Physical Training (5)

Educational activities:
Type of activities: practicals
Number of hours:
per week: **per level/semester:** 24s
Form of the course: on-site learning

Number of credits: 1

Recommended semester: 5.

Educational level: I.II.

Prerequisites:

Course requirements:
100% participation in seminars

Learning outcomes:
Knowledge:
- Theoretical knowledge about the importance of physical activity and sport for a healthy life of man
- Theoretical knowledge of the history and present various kinds of sport
- Theoretical knowledge of strength training, swimming and tourism
- The rules of the different sports
- Sport as a means of fair play

Skills:
Practical skills of different kinds of sports - game activities, game combinations and game systems (defense, offense)
Practical skills of strengthening

Class syllabus:
Teach the theory, methodology and practical coping following sports: basketball, volleyball, football- futsal, hockey, tennis, table tennis, badminton, swimming, aerobics, zumba, hiking (medium course, walking and water) and winter sports according to the interest of students. Foundations and principles of exercise in the gym. Practicing and mastering the basic game activities and simple combinations in game situations. Fundamentals of the rules, strategy and tactics in the selected sport. Exercises for medically fragile - fit, gym, swimming pool. Optional winter concentration.

Recommended literature:
Fitness and Strength Training for All Sports : Theory, Methods, Programs

Languages necessary to complete the course:

Notes:

Past grade distribution Total number of evaluated students: 254
ABS0
100,0
Lecturers: PaedDr. Róbert Važan, PhD., Mgr. Barbora Kociánová, PhD., Mgr. Michal Korman, Mgr. Monika Lamošová, Mgr. Veronika Lovásová, PhD., Mgr. Petra Slyšková
Last change: 22.12.2016
Approved by: prof. MUDr. Juraj Šteňo, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Medicine

Course ID:	**Course title:**
LF.ÚTVŠ/L-VLa-X20/16	Physical Training (6)

Educational activities:
Type of activities: practicals
Number of hours:
per week: **per level/semester:** 24s
Form of the course: on-site learning

Number of credits: 1

Recommended semester: 6.

Educational level: I.II.

Prerequisites:

Course requirements:
100% participation in seminars

Learning outcomes:
Knowledge:
- Theoretical knowledge about the importance of physical activity and sport for a healthy life of man
- Theoretical knowledge of the history and present various kinds of sport
- Theoretical knowledge of strength training, swimming and tourism
- The rules of the different sports
- Sport as a means of fair play

Skills:
Practical skills of different kinds of sports - game activities, game combinations and game systems (defense, offense)
Practical skills of strengthening

Class syllabus:
Teach the theory, methodology and practical coping following sports: basketball, volleyball, football- futsal, hockey, tennis, table tennis, badminton, swimming, aerobics, zumba, hiking (medium course, walking and water) and winter sports according to the interest of students. Foundations and principles of exercise in the gym. Practicing and mastering the basic game activities and simple combinations in game situations. Fundamentals of the rules, strategy and tactics in the selected sport. Exercises for medically fragile - fit, gym, swimming pool. Optional winter concentration.

Recommended literature:
Fitness and Strength Training for All Sports : Theory, Methods, Programs

Languages necessary to complete the course:

Notes:

Past grade distribution Total number of evaluated students: 135
ABS0
100,0
Lecturers: PaedDr. Róbert Važan, PhD., Mgr. Barbora Kociánová, PhD., Mgr. Michal Korman, Mgr. Monika Lamošová, Mgr. Veronika Lovásová, PhD., Mgr. Petra Slyšková
Last change: 22.12.2016
Approved by: prof. MUDr. Juraj Šteňo, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava	
Faculty: Faculty of Medicine	
Course ID: LF.ÚTVŠ/L-S-VLa-075/16	**Course title:** Physical Training 1
Educational activities: **Type of activities:** practicals **Number of hours:** **per week: per level/semester:** 25s **Form of the course:** on-site learning	
Number of credits: 1	
Recommended semester: 1.	
Educational level: I.II.	
Prerequisites:	
Course requirements: 100 % trainings attendance	
Learning outcomes: Knowledge: - theoretical knowledges about the importance of physical activity and sport for a healthy lifestyle - theoretical knowledges about history and presence of various type of sports - theoretical knowledges about strengthening, swimming and hiking - the rules of the different sports - sport as a medium of fair play Skills: - ractical skills of different kinds of sports – sports game activities for individuals, sports game combinations and sports game systems (defense, offense) - practical skills of strengthening	
Class syllabus: Theoretical education, methodology and practicing of following sports: basketball, volleyball, football- futsal, hockey, tennis, table tennis, badminton, swimming, aerobics, zumba, hiking (conditioning, walking and water) and winter sports according to the interest of students. Foundations and principles of exercise in the gym. Practicing and mastering the basic sports game activities and simple combinations in a sports game situations. Fundamentals of the rules, strategy and tactics in the selected sport. Exercises for students with limited sports abilities- fitness centrum, gym, swimming pool. Optional winter concentration.	
Recommended literature: Fitness and Strength Training for All Sports : Theory, Methods, Programs	
Languages necessary to complete the course:	
Notes:	

Past grade distribution Total number of evaluated students: 363
ABS0
100,0
Lecturers: PaedDr. Róbert Važan, PhD., Mgr. Ján Beracka, Mgr. Darina Halčáková, Mgr. Michal Korman, Mgr. Gabriela Lamačková, Mgr. Barbora Kociánová, PhD., Mgr. Monika Lamošová, Mgr. Veronika Lovásová, PhD., Mgr. Petra Slyšková
Last change: 22.12.2016
Approved by: prof. MUDr. Juraj Šteňo, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava	
Faculty: Faculty of Medicine	
Course ID: LF.ÚTVŠ/L-S-VLa-076/16	**Course title:** Physical Training 2
Educational activities: **Type of activities:** practicals **Number of hours:** **per week:** **per level/semester:** 25s **Form of the course:** on-site learning	
Number of credits: 1	
Recommended semester: 2.	
Educational level: I.II.	
Prerequisites:	
Course requirements: 100% participation in seminars	
Learning outcomes: Knowledge: - Theoretical knowledge about the importance of physical activity and sport for a healthy life of man - Theoretical knowledge of the history and present various kinds of sport - Theoretical knowledge of strength training, swimming and tourism - The rules of the different sports - Sport as a means of fair play Skills: Practical skills of different kinds of sports - game activities, game combinations and game systems (defense, offense) Practical skills of strengthening	
Class syllabus: Teach the theory, methodology and practical coping following sports: basketball, volleyball, football- futsal, hockey, tennis, table tennis, badminton, swimming, aerobics, zumba, hiking (medium course, walking and water) and winter sports according to the interest of students. Foundations and principles of exercise in the gym. Practicing and mastering the basic game activities and simple combinations in game situations. Fundamentals of the rules, strategy and tactics in the selected sport. Exercises for medically fragile - fit, gym, swimming pool. Optional winter concentration.	
Recommended literature: Fitness and Strength Training for All Sports : Theory, Methods, Programs	
Languages necessary to complete the course:	
Notes:	

Past grade distribution Total number of evaluated students: 172
ABS0
100,0
Lecturers: PaedDr. Róbert Važan, PhD., Mgr. Barbora Kociánová, PhD., Mgr. Michal Korman, Mgr. Monika Lamošová, Mgr. Veronika Lovásová, PhD., Mgr. Petra Slyšková
Last change: 22.12.2016
Approved by: prof. MUDr. Juraj Šteňo, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava	
Faculty: Faculty of Medicine	
Course ID: LF.ÚTVŠ/L-S-VLa-073/17	**Course title:** Physical Training 3
Educational activities: **Type of activities:** practicals **Number of hours:** **per week:** **per level/semester:** 25s **Form of the course:** on-site learning	
Number of credits: 1	
Recommended semester: 3.	
Educational level: I.II.	
Prerequisites:	
Course requirements:	
Learning outcomes:	
Class syllabus:	
Recommended literature:	
Languages necessary to complete the course:	
Notes:	
Past grade distribution Total number of evaluated students: 137	
ABS0	
100,0	
Lecturers: PaedDr. Róbert Važan, PhD., Mgr. Barbora Kociánová, PhD., Mgr. Michal Korman, Mgr. Monika Lamošová, Mgr. Veronika Lovásová, PhD., Mgr. Petra Slyšková	
Last change:	
Approved by: prof. MUDr. Juraj Šteňo, DrSc.	

COURSE DESCRIPTION

University: Comenius University in Bratislava	
Faculty: Faculty of Medicine	
Course ID: LF.ÚTVŠ/L-S-VLa-074/17	**Course title:** Physical Training 4
Educational activities: **Type of activities:** practicals **Number of hours:** **per week:** **per level/semester:** 25s **Form of the course:** on-site learning	
Number of credits: 1	
Recommended semester: 4.	
Educational level: I.II.	
Prerequisites:	
Course requirements:	
Learning outcomes:	
Class syllabus:	
Recommended literature:	
Languages necessary to complete the course:	
Notes:	
Past grade distribution Total number of evaluated students: 1	
ABS0	
100,0	
Lecturers: PaedDr. Róbert Važan, PhD., Mgr. Barbora Kociánová, PhD., Mgr. Michal Korman, Mgr. Monika Lamošová, Mgr. Veronika Lovásová, PhD., Mgr. Petra Slyšková	
Last change:	
Approved by: prof. MUDr. Juraj Šteňo, DrSc.	

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Medicine

Course ID:	**Course title:**
LF.FyÚ/L-S-VLa-013/17	Physiology 1

Educational activities:
Type of activities: lecture / practicals
Number of hours:
per week: **per level/semester:** 60s / 60s
Form of the course: on-site learning

Number of credits: 8

Recommended semester: 3.

Educational level: I.II.

Prerequisites: LF.AÚ/L-S-VLa-002/16 - Anatomy 2

Course requirements:

Learning outcomes:

Class syllabus:

Recommended literature:

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 153

A	B	C	D	E	FX
11,76	28,1	30,72	21,57	3,27	4,58

Lecturers: prof. MUDr. Daniela Ostatníková, PhD., prof. MUDr. Boris Mravec, PhD., doc. MUDr. Dušan Michalík, CSc., MUDr. Katarína Babinská, PhD., doc. MUDr. Jana Radošinská, PhD., doc. MUDr. Mgr. Július Hodosy, PhD., MUDr. Rastislav Važan, PhD., MUDr. Silvia Hnilicová, PhD., MUDr. Mgr. Rudolf Drábek, MUDr. Aleksandra Sashova Tomova, PhD., RNDr. Ján Bakoš, PhD.

Last change:

Approved by: prof. MUDr. Juraj Šteňo, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Medicine

Course ID:	**Course title:**
LF.FyÚ/L-S-VLa-014/17	Physiology 2

Educational activities:
Type of activities: lecture / practicals
Number of hours:
per week: **per level/semester:** 60s / 60s
Form of the course: on-site learning

Number of credits: 10

Recommended semester: 4.

Educational level: I.II.

Prerequisites: LF.AÚ/L-S-VLa-003/17 - Anatomy 3 and LF.FyÚ/L-S-VLa-013/17 - Physiology 1

Course requirements:

Learning outcomes:

Class syllabus:

Recommended literature:

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 13

A	B	C	D	E	FX
15,38	0,0	15,38	23,08	0,0	46,15

Lecturers: prof. MUDr. Daniela Ostatníková, PhD., prof. MUDr. Boris Mravec, PhD., doc. MUDr. Dušan Michalík, CSc., doc. MUDr. Jana Radošinská, PhD., MUDr. Katarína Babinská, PhD., doc. MUDr. Mgr. Július Hodosy, PhD., MUDr. Rastislav Važan, PhD., MUDr. Silvia Hnilicová, PhD., RNDr. Ján Bakoš, PhD., MUDr. Mgr. Rudolf Drábek, MUDr. Aleksandra Sashova Tomova, PhD.

Last change:

Approved by: prof. MUDr. Juraj Šteňo, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava	
Faculty: Faculty of Medicine	
Course ID: LF.FyÚ/L-VLa-026/00	**Course title:** Physiology 2
Educational activities: **Type of activities:** lecture / laboratory practicals **Number of hours:** **per week:** **per level/semester:** 60s / 60s **Form of the course:** on-site learning	
Number of credits: 11	
Recommended semester: 4.	
Educational level: I.II.	
Prerequisites:	
Course requirements: 100% presence in practical classes/seminars To prepare protocols from all performed practical tasks To submit the assigned seminar projects To pass successfully 4 written tests (minimum 70 % each) after completing a specific topic Final complex examination - a complex written test (minimum points to pass 70%) - practical part of the examination: to perform a practical task and to evaluate the result - oral part of the examination: 2 questions on medical physiology The final evaluation is based on the results of all 3 parts.	
Learning outcomes: Knowledge: To obtain the knowledge of facts and to understand their relationships in the topic of cardiovascular physiology, thermoregulation, excretory system, endocrine system and reproduction, senses, and central nervous system. To acquire basic knowledge about of disease prevention and healthy lifestyle. Skills: To acquire skills in recording, evaluation and interpretation of results of selected examinations of the cardiovascular system, sensory organs, and central nervous system. To gain/improve skills in basic medical examinations and measurements (examination of the arterial pulse, blood pressure, ECG, visual acuity, eye ground, visual field, otoscopy and audiometry, examination of reflexes). To get skills in presentation of scientific information and information about disease prevention and healthy lifestyle in form of short lecture and discussion.	
Class syllabus: Cardiovascular system - physiological properties of the cardiac muscle, cardiac cycle, heart sounds, arterial pulse, electrocardiography, blood flow in vessels, blood pressure, transcapillary exchange, lymph circulation, regional blood circulations. Thermoregulation - body temperature and its biorhythms, heat production and losses, mechanisms of thermoregulation.	

Kidneys - body fluids and their ion-structure, glomerular filtration rate and tubular processes, acid-base balance, formation and excretion of urine, regulation of renal functions.
Endocrine glands and reproduction - mechanisms of hormonal action, function of the hypothalamus - pituitary system, functions of hormones and endocrine glands.
Special senses - receptors, their classification and function, specialization of receptors, receptor potentials - vision, hearing, taste, olfaction, sense of balance, mechanoception, thermoreception, nociception, proprioception.
Physiology of central nervous system – reflex, reflex arch, sensation and perception, regulation of movements and muscle tone, higher nervous functions - memory, emotions, learning, speech, functional specialization of brain hemispheres.

Recommended literature:

OSTATNÍKOVÁ, D. et al. Basics of Medical Physiology. Bratislava: Comenius University, 2014. 264 p. ISBN 978-80-223-3563-8.
OSTATNÍKOVÁ, D. et al. Laboratory Guide to Medical Physiology. Bratislava: Univerzita Komenského, 2014. 212 p. ISBN 978-80-223-3720-5.
SILVERTHORN, D.U. Human Physiology: An Integrated Approach. 7th ed. University of Texas, Austin. Pearson, 2015. 960 p. ISBN 978-12-9209-493-9.
KOEPPEN, B.M. and STANTON, B.A., eds. Berne & Levy Physiology: With Student Consult Online Access. 6th ed. Philadelphia: Mosby Elsevier, 2010. 848 p. ISBN 978-0323073622.
HALL, J.E. Guyton and Hall Textbook of Medical Physiology. 13th ed. Philadelphia: Saunders Elsevier, 2016. 1146 p. ISBN 978-1-4557-7016-8.

Languages necessary to complete the course:

Notes:

Past grade distribution

Total number of evaluated students: 1431

A	B	C	D	E	FX
9,5	11,18	12,72	15,79	27,46	23,34

Lecturers: prof. MUDr. Daniela Ostatníková, PhD., doc. MUDr. Dušan Michalík, CSc., prof. MUDr. Boris Mravec, PhD., MUDr. Katarína Babinská, PhD., doc. MUDr. Mgr. Július Hodosy, PhD., doc. MUDr. Jana Radošinská, PhD., MUDr. Rastislav Važan, PhD., RNDr. Ján Bakoš, PhD., MUDr. Mgr. Rudolf Drábek, MUDr. Silvia Hnilicová, PhD., MUDr. Aleksandra Sashova Tomova, PhD.

Last change: 24.11.2016

Approved by: prof. MUDr. Juraj Šteňo, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Medicine

Course ID:	**Course title:**
LF.ÚLFBIT/L-VLa-105/00	Principles of Imaging Methods in Medicine

Educational activities:
Type of activities: lecture
Number of hours:
per week: **per level/semester:** 24s
Form of the course: on-site learning

Number of credits: 2

Recommended semester: 8., 10.

Educational level: I.II.

Prerequisites: LF.IK_1/L-VLa-040/11 - Internal Propedeutics

Course requirements:

Learning outcomes:

Class syllabus:

Recommended literature:

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 35

A	B	C	D	E	FX
8,57	22,86	8,57	20,0	34,29	5,71

Lecturers: doc. RNDr. Katarína Kozlíková, CSc.

Last change: 02.06.2015

Approved by: prof. MUDr. Juraj Šteňo, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Medicine

Course ID:	**Course title:**
LF.ÚLFBIT/L-VLa-141/10	Principles of e-Health

Educational activities:
Type of activities: lecture
Number of hours:
per week: **per level/semester:** 24s
Form of the course: on-site learning

Number of credits: 2

Recommended semester: 8., 10.

Educational level: I.II.

Prerequisites:

Course requirements:

Learning outcomes:

Class syllabus:

Recommended literature:

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 104

A	B	C	D	E	FX
98,08	1,92	0,0	0,0	0,0	0,0

Lecturers: doc. RNDr. Martin Kopáni, PhD., doc. RNDr. Pavol Vitovič, PhD.

Last change:

Approved by: prof. MUDr. Juraj Šteňo, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava	
Faculty: Faculty of Medicine	
Course ID: LF.PK/L-VLa-063/11	**Course title:** Psychiatry 1
Educational activities: **Type of activities:** lecture / laboratory practicals **Number of hours:** **per week:** **per level/semester:** 24s / 25s **Form of the course:** on-site learning	
Number of credits: 2	
Recommended semester: 8.	
Educational level: I.II.	
Prerequisites: LF.PK/L-S-VLa-043/17 - Medical Psychology and Communication with Patients	
Course requirements: 100 % practicals attendance Written test (60 % at least) Written test evaluation: A: 91 - 100 %, B: 81 – 90 %, C: 73 – 80 %, D: 66 – 72 %, E: 60 – 65 %, Fx: 59 % and less	
Learning outcomes: Knowledge: - Understand the etiology, pathogenesis, epidemiology, clinical manifestations of mental disorders - Learn the investigational procedures, principles of treatment and rehabilitation in psychiatry, legal status and assessment of persons with mental disorders in childhood and adulthood - Understand the causes, clinical, diagnostic and therapeutic procedures in emergency conditions in psychiatry - Understand the psychopathological symptoms and the classification of mental disorders according to ICD-10 Skills: - Master the general principles of communication with patients suffering mental disorder in childhood and adulthood - Demonstrate the ability to identify psychopathological symptoms within clinical psychiatric examination of persons with psychiatric disorders in childhood and adulthood - Demonstrate the ability to investigate the psychological functions (clinically, screening scales) specifically - Master the identification of relevant data from medical history and assess their potential relationship to psychopathological symptoms	
Class syllabus: Causes, mechanisms and epidemiology of mental disorders. Psychopathology, classification, diagnostics, differential diagnosis, treatment, rehabilitation, assessment of psychiatric disorders in children and adults. First aid in psychiatry. Practicing of clinical examination, identification of symptoms, diagnostic conclusion and differential diagnosis, preparation of draft plan of further investigations and treatment of mental disorders. Training the use of screening and assessment scales.	

Recommended literature:

Kolibáš, E. a kol.: Introduction to clinical psychiatry. Bratislava: Asklepios, 1996. 107 pp. ISBN 80-967610-0-5

Semple, D. – Smyth, R.: Oxford Handbook of Psychiatry, 2nd Edition. Oxford University Press, 2009. 977 pp. ISBN 978-0-19-923946-7

Sadock, B. J. – Sadock, V. A.: Kaplan and Sadock's Synopsis of Psychiatry, 10th Edition. Lippincott Williams & Wilkins, 2010. 1470 pp. ISBN 978-0781773270

Languages necessary to complete the course:

Notes:

Past grade distribution

Total number of evaluated students: 558

A	B	C	D	E	FX
1,08	22,4	39,96	26,16	9,68	0,72

Lecturers: prof. MUDr. Ján Pečeňák, CSc., doc. MUDr. Viera Kořínková, CSc., doc. MUDr. Tatiana Čaplová, CSc., PhDr. Michal Hajdúk, PhD., MUDr. Ľubomíra Izáková, PhD., MUDr. Peter Janík, PhD., MUDr. Mária Králová, CSc., MUDr. Viktor Segeda, PhD., MUDr. Michal Turček, PhD., Mgr. Miroslava Zimányiová, PhDr. Zuzana Hradečná, MUDr. Zuzana Matzová, PhD., doc. MUDr. Igor Škodáček, PhD., MUDr. Jana Trebatická, PhD.

Last change: 05.12.2016

Approved by: prof. MUDr. Juraj Šteňo, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava	
Faculty: Faculty of Medicine	
Course ID: LF.PK/L-VLa-064/11	**Course title:** Psychiatry 2
Educational activities: **Type of activities:** lecture / laboratory practicals **Number of hours:** **per week:** **per level/semester:** 12s / 25s **Form of the course:** on-site learning	
Number of credits: 3	
Recommended semester: 9.	
Educational level: I.II.	
Prerequisites: LF.PK/L-VLa-063/11 - Psychiatry 1	
Course requirements: 100% participation at practical trainings Exam: written test (minimally for 60%) Valuation of the test: A: 91 – 100 %, B: 81 – 99 %, C: 73 – 80 %, D: 66 – 72 %, E: 60 – 65 %, Fx: 59 % and less Oral exam: 2 questions (1 from general, 1 from special psychiatry) Overall valuation will be assigned due to the average of obtained valuations.	
Learning outcomes: - Knowledge: to be familiar with etiology, pathogenesis, epidemiology, clinical presentations, diagnostics, differential diagnostics, treatment, rehabilitation and appraisal of the main groups of mental disorders in children and adults. - Skills: to handle clinical psychiatric examination of persons with mental disorder, to elaborate the data from documentation, to work-out the psychiatric findings. - To demonstrate the ability for examination of cognitive functions in adults by means of standardized assessment scale.	
Class syllabus: The causes and the mechanisms of creation and epidemiology of individual mental disorders. Diagnostic criteria and differential diagnostics. Treatment, rehabilitation and appraisal of mental disorders in childhood, adolescence and adulthood. Clinical examination, identification of signs and symptoms, differentially diagnostic elaboration and diagnostic conclusions. Formation of examination plan and proposal for treatment in selected groups of mental disorders in childhood and adulthood.	
Recommended literature: Jarema, M. (Ed) et al: Practical aspects of Psychiatry. Amepra, Praha, 2009, 408pp, ISBN 978-80-86694-08-5 Kolibáš,E. et al.: Introduction to Clinical Psychiatry, Asclepios, Bratislava, 1996,107 p. ISBN80-967610-0-5 Semple D., Smyth R. Oxford Handbook of Psychiatry. 2nd Edition, 2009, 977p, ISBN 978-0-19-923946-7	

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 561

A	B	C	D	E	FX
16,58	25,49	24,78	16,22	15,15	1,78

Lecturers: prof. MUDr. Ján Pečeňák, CSc., doc. MUDr. Viera Kořínková, CSc., doc. MUDr. Igor Škodáček, PhD., MUDr. Ľubomíra Izáková, PhD., MUDr. Mária Králová, CSc., MUDr. Jana Trebatická, PhD., doc. MUDr. Tatiana Čaplová, CSc., PhDr. Michal Hajdúk, PhD., MUDr. Peter Janík, PhD., MUDr. Viktor Segeda, PhD., MUDr. Michal Turček, PhD., Mgr. Miroslava Zimányiová, PhDr. Zuzana Hradečná, MUDr. Zuzana Matzová, PhD.

Last change: 05.12.2016

Approved by: prof. MUDr. Juraj Šteňo, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Medicine

Course ID:	**Course title:**
LF.RK1/L-VLa-065/09	Radiology and Nuclear Medicine

Educational activities:
Type of activities: lecture / laboratory practicals
Number of hours:
per week: **per level/semester:** 12s / 24s
Form of the course: on-site learning

Number of credits: 2

Recommended semester: 7.

Educational level: I.II.

Prerequisites:

Course requirements:

Learning outcomes:

Class syllabus:
Radiodiagnostics - history of radiology, principles of X-rays, X-ray tube, radiation protection, US, CT, MRI.
Clinical knowledge about diseases of brain, lungs, heart, GIT, urogynecology, musculoskeletal system, soft tissue, ENT, mammology and radiographic, US, CT and MRI picture interpretation.
Nuclear Medicine - equipment used in NM, biological effect of radiation. Using of NM in GIT, the uropoetic tractus, chest - lung and heart bone system, neurosystem, etc.

Recommended literature:
R.B. Gunderman: Essential Radiology
Armstrong Peter, Waskie Martin L.: Diagnostic Imaging, 3rd Ed., 1992,
Sutton D.: Radiology and Imaging for medical students, Edinburgh, Churchill Livingstone 1994, 259 p.
Alazraki, P. and Mishkin, S.: Fundamentals of Nuclear Medicine, 1991, 188 p.
Mettler, F.A. and Guiberteau, M.J. Essentials of Nuclear Medicine Imaging, 1991, 326 p., W.B.Saunders Company, Harcourt Brace Jovanovich Inc.,The Curtis Center, Independence Square West, Philadelphia, PA 19106

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 770

A	B	C	D	E	FX
31,3	32,6	20,52	10,78	4,81	0,0

Lecturers: prof. MUDr. Jozef Bilický, CSc., doc. MUDr. Soňa Balogová, PhD., doc. MUDr. Viera Lehotská, PhD., doc. MUDr. Jana Poláková Mištinová, PhD., MUDr. Vladimír Javorka, PhD.,

MUDr. Vladimír Pročka, MUDr. Lucia Vanovčanová, PhD., MUDr. Andrea Baisová, MUDr. Elena Janvarsová
Last change: 02.06.2015
Approved by: prof. MUDr. Juraj Šteňo, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Medicine

Course ID:	**Course title:**
LF.ÚCJ/L-S-VLa-083/16	Slovak Language 1

Educational activities:
Type of activities: practicals
Number of hours:
per week: **per level/semester:** 48s
Form of the course: on-site learning

Number of credits: 1

Recommended semester: 1.

Educational level: I.II.

Prerequisites:

Course requirements:

Learning outcomes:

Class syllabus:

Recommended literature:

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 372

A	B	C	D	E	FX
44,89	26,34	10,48	10,22	5,91	2,15

Lecturers: Mgr. Anna Rollerová, PhD., Ing. Janka Bábelová, PhD., Mgr. Radoslav Ďurajka, PhD., PhDr. Lýdia Friedová, PhDr. Valéria Jamrichová, PhDr. Elena Nikolajová Kupferschmidtová, PhD., PhDr. Beata Ricziová, Mgr. Angela Škovierová, PhD., Mgr. Eva Taranová, PhD., Mgr. Oľga Vaneková, PhD., PhDr. Rudolf Kapitáň, Mgr. Lýdia Ďurišová, Mgr. Jana Navrátilová, Mgr. Milota Haláková, PhDr. Mária Vrábelová, Mgr. Patricia Kotlebová, Mgr. Marína Kšiňanová, Mgr. Lucia Lauková, PhD., Mgr. Daniela Rošková, PhD.

Last change: 30.09.2016

Approved by: prof. MUDr. Juraj Šteňo, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Medicine

Course ID:	**Course title:**
LF.ÚCJ/L-S-VLa-084/16	Slovak Language 2

Educational activities:
Type of activities: practicals
Number of hours:
per week: **per level/semester:** 48s
Form of the course: on-site learning

Number of credits: 1

Recommended semester: 2.

Educational level: I.II.

Prerequisites: LF.ÚCJ/L-S-VLa-083/16 - Slovak Language 1

Course requirements:

Learning outcomes:

Class syllabus:

Recommended literature:

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 338

A	B	C	D	E	FX
40,53	23,96	19,23	7,99	4,44	3,85

Lecturers: Mgr. Anna Rollerová, PhD., Ing. Janka Bábelová, PhD., Mgr. Radoslav Ďurajka, PhD., PhDr. Lýdia Friedová, PhDr. Valéria Jamrichová, PhDr. Elena Nikolajová Kupferschmidtová, PhD., PhDr. Beata Ricziová, Mgr. Angela Škovierová, PhD., Mgr. Eva Taranová, PhD., Mgr. Oľga Vaneková, PhD., Mgr. Lýdia Ďurišová, Mgr. Milota Haláková, PhDr. Mária Vrábelová, PhDr. Rudolf Kapitáň, Mgr. Jana Navrátilová, Mgr. Patricia Kotlebová, Mgr. Marína Kšiňanová, Mgr. Daniela Rošková, PhD., Mgr. Lucia Lauková, PhD.

Last change: 30.09.2016

Approved by: prof. MUDr. Juraj Šteňo, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Medicine

Course ID:	**Course title:**
LF.ÚCJ/L-S-VLa-085/17	Slovak language 3

Educational activities:
Type of activities: practicals
Number of hours:
per week: **per level/semester:** 36s
Form of the course: on-site learning

Number of credits: 2

Recommended semester: 3.

Educational level: I.II.

Prerequisites: LF.ÚCJ/L-S-VLa-084/16 - Slovak Language 2

Course requirements:

Learning outcomes:

Class syllabus:

Recommended literature:

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 147

A	B	C	D	E	FX
42,18	26,53	10,88	10,2	8,16	2,04

Lecturers: Ing. Janka Bábelová, PhD., Mgr. Radoslav Ďurajka, PhD., PhDr. Valéria Jamrichová, Mgr. Marína Kšiňanová, PhDr. Elena Nikolajová Kupferschmidtová, PhD., PhDr. Beata Ricziová, Mgr. Anna Rollerová, PhD., Mgr. Angela Škovierová, PhD., Mgr. Eva Taranová, PhD., PhDr. Mária Vrábelová, Mgr. Lýdia Ďurišová, Mgr. Milota Haláková, PhDr. Rudolf Kapitáň, Mgr. Jana Navrátilová, Mgr. Oľga Vaneková, PhD., PhDr. Lýdia Friedová, Mgr. Lucia Lauková, PhD., Mgr. Daniela Rošková, PhD.

Last change:

Approved by: prof. MUDr. Juraj Šteňo, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Medicine

Course ID:	**Course title:**
LF.ÚCJ/L-S-VLa-086/17	Slovak language 4

Educational activities:
Type of activities: practicals
Number of hours:
per week: **per level/semester:** 36s
Form of the course: on-site learning

Number of credits: 3

Recommended semester: 4.

Educational level: I.II.

Prerequisites: LF.ÚCJ/L-S-VLa-085/17 - Slovak language 3

Course requirements:

Learning outcomes:

Class syllabus:

Recommended literature:

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 72

A	B	C	D	E	FX
58,33	25,0	12,5	2,78	0,0	1,39

Lecturers: Ing. Janka Bábelová, PhD., Mgr. Radoslav Ďurajka, PhD., Mgr. Milota Haláková, PhDr. Valéria Jamrichová, Mgr. Marína Kšiňanová, PhDr. Elena Nikolajová Kupferschmidtová, PhD., PhDr. Beata Ricziová, Mgr. Anna Rollerová, PhD., Mgr. Angela Škovierová, PhD., Mgr. Eva Taranová, PhD., Mgr. Oľga Vaneková, PhD., PhDr. Mária Vrábelová, Mgr. Lýdia Ďurišová, PhDr. Rudolf Kapitáň, Mgr. Jana Navrátilová, Mgr. Lucia Lauková, PhD., Mgr. Daniela Rošková, PhD., PhDr. Lýdia Friedová

Last change:

Approved by: prof. MUDr. Juraj Šteňo, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Medicine

Course ID:	**Course title:**
LF.ÚCJ/L-VLa-X24/00	Slovak language 4

Educational activities:
Type of activities: seminar
Number of hours:
per week: **per level/semester:** 48s
Form of the course: on-site learning

Number of credits: 1

Recommended semester: 4.

Educational level: I.II.

Prerequisites:

Course requirements:

Learning outcomes:

Class syllabus:

Recommended literature:

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 944

A	B	C	D	E	FX
27,12	16,84	20,55	14,3	15,04	6,14

Lecturers: Mgr. Anna Rollerová, PhD., Ing. Janka Bábelová, PhD., Mgr. Lýdia Ďurišová, Mgr. Radoslav Ďurajka, PhD., PhDr. Lýdia Friedová, Mgr. Milota Haláková, PhDr. Valéria Jamrichová, PhDr. Rudolf Kapitáň, Mgr. Jana Navrátilová, PhDr. Beata Ricziová, PhDr. Mária Vrábelová, Mgr. Eva Taranová, PhD., PhDr. Elena Nikolajová Kupferschmidtová, PhD., Mgr. Angela Škovierová, PhD., Mgr. Oľga Vaneková, PhD., Mgr. Marína Kšiňanová

Last change: 30.09.2016

Approved by: prof. MUDr. Juraj Šteňo, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Medicine

Course ID:	**Course title:**
LF.ÚCJ/L-VLa-X25/00	Slovak language 5

Educational activities:
Type of activities: seminar
Number of hours:
per week: **per level/semester:** 24s
Form of the course: on-site learning

Number of credits: 2

Recommended semester: 5.

Educational level: I.II.

Prerequisites: LF.ÚCJ/L-VLa-X24/00 - Slovak language 4

Course requirements:

Learning outcomes:

Class syllabus:

Recommended literature:

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 1096

A	B	C	D	E	FX
32,12	18,52	16,51	13,5	16,88	2,46

Lecturers: Mgr. Anna Rollerová, PhD., Ing. Janka Bábelová, PhD., Mgr. Radoslav Ďurajka, PhD., Mgr. Lýdia Ďurišová, PhDr. Lýdia Friedová, Mgr. Milota Haláková, PhDr. Valéria Jamrichová, PhDr. Rudolf Kapitáň, Mgr. Jana Navrátilová, PhDr. Beata Ricziová, PhDr. Mária Vrábelová, Mgr. Eva Taranová, PhD., PhDr. Elena Nikolajová Kupferschmidtová, PhD., Mgr. Angela Škovierová, PhD., Mgr. Oľga Vaneková, PhD., Mgr. Marína Kšiňanová, Mgr. Lucia Lauková, PhD., Mgr. Daniela Rošková, PhD.

Last change: 30.09.2016

Approved by: prof. MUDr. Juraj Šteňo, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Medicine

Course ID:	**Course title:**
LF.ÚSLLE/L-VLa-066/00	Social Medicine

Educational activities:
Type of activities: lecture / seminar
Number of hours:
per week: **per level/semester:** 12s / 24s
Form of the course: on-site learning

Number of credits: 2

Recommended semester: 8.

Educational level: I.II.

Prerequisites:

Course requirements:
100% attendance at seminars

Learning outcomes:
Knowledge:
After successful completion of the course student will be able to:
- Understand the scope, mission and tasks of social medicine.
- Identify the most important periods from the history of medicine.
- Demonstrate the basic knowledge from philosophy of medicine.
- Describe the methods of population health assessment.
- Describe the models and theories of health and disease, their determinants.
- Describe the role of social factors in shaping the health of individuals and populations.
- Understand the basic principles of health financing.
- Know the basics of medical law and basic legal obligations of physician.
- Understand the principles of quality improvement and patient safety in health care.
- Understand the obligation to protect human rights in medical practice.
- Describe the main principles and steps in evidence-based medicine

Skills:
After successful completion of the course student will be able to:
- Measure and assess the health status of the population.
- Analyze the health inequities in relation to social determinants.
- Compare and analyze different types of health systems.
- Discuss and apply the health legislation and principles of medical law in health care.
- Discuss the role of international organizations in promotion and protection of health.
- Apply the principles of quality improvement and patient safety in medical practice.
- Identify and resolve human rights issues in medical practice.
- Search and apply the evidence-based approaches in medical practice.

Class syllabus:
Social medicine – origin, development, scope, its position in the system of medical sciences. History of medicine and health care. Philosophy of medicine. Basics of medical law. Legal liability in health care. Health and disease: concepts, models, determinants, classification systems. Social

determinants and health inequities. Health systems and health financing. Study of population health: sources of information, measures, methods of assessment. International Red Cross: mission, principles, tasks. World Health Organization: structure, mission, tasks, programmes, strategies. Quality in health care: definitions, dimensions, quality management models in health care. Health and human rights. Evidence-based medicine: definition, principles, steps

Recommended literature:

Kostičová M. (ed.). Social Medicine. Bratislava: Comenius University in Bratislava, 2015.
Kostičová, M., Ozorovský, V., Badalík L., Fabian G. An Introduction to Social Medicine. Bratislava: Asklepios, 2011.
Health 2020 – An European policy framework supporting action across government and societyfor health and well-being. Copenhagen: WHO Regional Office for Europe, World Health Organisation, 2012.

Languages necessary to complete the course:

Notes:

Past grade distribution

Total number of evaluated students: 870

A	B	C	D	E	FX
68,51	15,29	7,82	3,79	4,48	0,11

Lecturers: doc. MUDr. Vojtech Ozorovský, CSc., MUDr. Michaela Kostičová, PhD., MPH, Mgr. Silvia Capíková, PhD.

Last change: 22.12.2016

Approved by: prof. MUDr. Juraj Šteňo, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Medicine

Course ID:	**Course title:**
LF.KTLFR/L-VLa-068/00	Sport Medicine

Educational activities:
Type of activities: lecture / laboratory practicals
Number of hours:
per week: **per level/semester:** 12s / 10s
Form of the course: on-site learning

Number of credits: 2

Recommended semester: 8.

Educational level: I.II.

Prerequisites: LF.ChK1/L-VLa-033/11 - Surgical Propedeutics 2 and LF.IK_1/L-VLa-040/11 - Internal Propedeutics

Course requirements:
- 100% attendance at lectures
- 1 test (min. 60% success rate)
- oral exam

Evaluation of the test: A: 91-100%, B: 81-99%, C: 73-80% D: 66-72% E: 60-65%,
FX: 59% or less
Total score is determined from the average of ratings received

Learning outcomes:
Knowledge:
- to advise the students with the primary and secondary prevention combined with exercise testing to sports traumatology and cardiology

Class syllabus:
The primary and secondary prevention combined with exercise testing to sports traumatology and cardiology

Recommended literature:
Sport Medicine Manual, IOC, Lausanne 1990
International Sports Medicine Directory, FIMS, Human Kinetics, 2001
Froelicher, V. F.: Manual of Exercise Testing, Mosby-year Book Inc., St Louis, 1994
Harries. M., et al.: Oxford Textbook of Sports Medicine, Oxford University Press, Oxford, 1994

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 738

A	B	C	D	E	FX
36,04	26,15	21,95	10,7	5,15	0,0

Lecturers: MUDr. Pavel Malovič, PhD., MUDr. Vladimír Hostýn, MUDr. Edward Radzo, PhD.

Last change: 09.01.2017
Approved by: prof. MUDr. Juraj Šteňo, DrSc.

STATE EXAM DESCRIPTION

University: Comenius University in Bratislava	
Faculty: Faculty of Medicine	
Course ID: LF.ChK/L-VLa-ŠS-2/15	**Course title:** Surgery
Number of credits: 2	
Recommended semester: 11., 12..	
Educational level: I.II.	
State exam syllabus:	
Last change:	
Approved by: prof. MUDr. Juraj Šteňo, DrSc.	

COURSE DESCRIPTION

University: Comenius University in Bratislava	
Faculty: Faculty of Medicine	
Course ID: LF.ChK1/L-VLa-122/16	**Course title:** Surgery - summer practice
Educational activities: **Type of activities:** practice **Number of hours:** **per week:** **per level/semester:** 80s **Form of the course:** on-site learning	
Number of credits: 3	
Recommended semester: 8.	
Educational level: I.II.	
Prerequisites:	
Course requirements:	
Learning outcomes:	
Class syllabus:	
Recommended literature:	
Languages necessary to complete the course:	
Notes:	
Past grade distribution Total number of evaluated students: 97	
ABS0	
100,0	
Lecturers: prof. MUDr. Ján Koller, CSc., MUDr. Marianna Hajská, PhD.	
Last change:	
Approved by: prof. MUDr. Juraj Šteňo, DrSc.	

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Medicine

Course ID:	**Course title:**
LF.ChK1/L-VLa-046/11	Surgery 1

Educational activities:
Type of activities: lecture / laboratory practicals
Number of hours:
per week: **per level/semester:** 29s / 35s
Form of the course: on-site learning

Number of credits: 3

Recommended semester: 7.

Educational level: I.II.

Prerequisites: LF.ChK1/L-VLa-033/11 - Surgical Propedeutics 2

Course requirements:

Learning outcomes:

Class syllabus:
GIT surgery, acute abdominal diseases, basics of traumatology. Surgical diseases and principles of surgical therapy - digestive tract, parenhymatous organs, surgery of hernias (dg. and treatment strategy of acute abdominal diseases) basics of traumatology, polytrauma, minimal principles of invasive surgery.

Recommended literature:
D. C. Sabiston: Textbook of Surgery, Philadelphia, W.B. Saunders Company, 208 p.
Lawrence W. Way: Current Surgical Diagnosis And Treatment, 10th Ed., San Fransisco., Appleton - Lange 1993, 1196 p.
R. D. Liechty, R.T. Soper: Fundamentals of Surgery, Mosby Comp. 1989, 648 p.
Lonnie R. Mercier: Practical Orthopedics, 2nd Ed., Year Book Medical Publishers, Inc., Chicago-London, 1987, 365 p.
Traumacare, William Odling Smee M.B.F.C.S., 1981
Leund M. S., McKroyd J.S.: Illustrated handbook of General Surgery, 1991
Bailey and Love's: Short practice of Surgery, Chapman and Hall, Medical, London, Glasgow, New York, Tokyo, Melbourne, Madras. 22nd Ed., 1041 p.
Hamilton Bailey: Demonstration of Physical Signs in Clinical Surgery, Bristol, John Wright and Son Ltd.

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 681

A	B	C	D	E	FX
37,89	30,25	21,73	7,93	1,91	0,29

Lecturers: doc. MUDr. Marián Vician, CSc., prof. MUDr. Peter Labaš, CSc., doc. MUDr. Milan Schnorrer, CSc., MUDr. Boris Hrbatý, PhD., MUDr. Milan Oravský, PhD., MUDr. Richard Reis, PhD., Ing. MUDr. Andrea Bolgáčová, doc. MUDr. Marek Čambal, PhD., doc. MUDr. Juraj Fillo, CSc., MUDr. Dimitrios Papastavrou, doc. MUDr. Luděk Vrtík, CSc., MUDr. Mária Zemanová, MUDr. Martin Dubovský, MUDr. Katarína Mészárosová, MUDr. Jozef Babala, PhD., MUDr. Dana Dúbravová, MUDr. Miroslava Fuňáková, PhD., MUDr. František Horn, PhD., MUDr. Pavol Omaník, PhD., MUDr. Martin Smrek, PhD., doc. MUDr. Ján Trnka, CSc., MUDr. Róbert Donát, PhD., prof. MUDr. Štefan Durdík, PhD., MPH, MUDr. Daniel Dyttert, PhD., MUDr. Róbert Králik, PhD., MUDr. Peter Mračna, PhD., MUDr. Štefan Nemergut, MUDr. Viktor Rekeň, MUDr. Martin Sabol, PhD.
Last change: 02.06.2015
Approved by: prof. MUDr. Juraj Šteňo, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Medicine

Course ID:	**Course title:**
LF.ChK1/L-VLa-047/11	Surgery 2

Educational activities:
Type of activities: lecture / laboratory practicals
Number of hours:
per week: **per level/semester:** 24s / 30s
Form of the course: on-site learning

Number of credits: 3

Recommended semester: 8.

Educational level: I.II.

Prerequisites: LF.ChK1/L-VLa-046/11 - Surgery 1

Course requirements:

Learning outcomes:

Class syllabus:
Basics of vascular surgery and endocrine surgery. Basics of thoracic surgery. Diseases of the artery system. Diseases of the venous system. Principles of the vascular surgery. Diseases of the thyroid gland and their surgical therapy. The remaining endocrine diseases and their therapy. Principles of thoracic surgery, division, basics of surgical therapy of benign and malignant diseases of lungs. Diseases of the breast.

Recommended literature:
D. C. Sabiston: Textbook of Surgery, Philadelphia, W.B. Saunders Company, 208 p.
Lawrence W. Way: Current Surgical Diagnosis And Treatment, 10th Ed., San Fransisco., Appleton - Lange 1993, 1196 p.
R. D. Liechty, R.T. Soper: Fundamentals of Surgery, Mosby Comp. 1989, 648p.
Lonnie R. Mercier: Practical Orthopedics, 2nd ed., Year Book Medical Publishers, Inc., Chicago-London, 1987, 365 p.
Traumacare, William Odling Smee M.B.F.C.S., 1981
Leund M. S., McKroyd J.S.: Illustrated handbook of General Surgery, 1991
Bailey and Love's: Short practice of Surgery, Chapman and Hall: Medical, London, Glasgow, New York, Tokyo, Melbourne, Madras. 22nd Ed., 1041 p.
Hamilton Bailey: Demonstration of Physical Signs in Clinical Surgery. Bristol, John Wright and Son Ltd.

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 669

A	B	C	D	E	FX
17,34	12,56	24,81	23,17	20,03	2,09

Lecturers: doc. MUDr. Marián Vician, CSc., prof. MUDr. Peter Labaš, CSc., doc. MUDr. Milan Schnorrer, CSc., MUDr. Boris Hrbatý, PhD., MUDr. Milan Oravský, PhD., MUDr. Richard Reis, PhD., Ing. MUDr. Andrea Bolgáčová, doc. MUDr. Marek Čambal, PhD., doc. MUDr. Juraj Fillo, CSc., MUDr. Dimitrios Papastavrou, doc. MUDr. Luděk Vrtík, CSc., MUDr. Mária Zemanová, MUDr. Martin Dubovský, MUDr. Katarína Mészárosová, MUDr. Róbert Donát, PhD., prof. MUDr. Štefan Durdík, PhD., MPH, MUDr. Daniel Dyttert, PhD., MUDr. Róbert Králik, PhD., MUDr. Peter Mračna, PhD., MUDr. Štefan Nemergut, MUDr. Viktor Rekeň, MUDr. Martin Sabol, PhD.
Last change: 02.06.2015
Approved by: prof. MUDr. Juraj Šteňo, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Medicine

Course ID:	**Course title:**
LF.OTK1/L-VLa-048/11	Surgery 3

Educational activities:
Type of activities: lecture / laboratory practicals
Number of hours:
per week: **per level/semester:** 24s / 25s
Form of the course: on-site learning

Number of credits: 3

Recommended semester: 9.

Educational level: I.II.

Prerequisites: LF.ChK1/L-VLa-047/11 - Surgery 2

Course requirements:

Learning outcomes:

Class syllabus:
Uro-oncology, diseases of the prostate, male infertility, erection disorders, acute and chronic renal insufficiency, urolithiasis, acute states in urology. Tumours, inflammations and injuries of the central and peripheral nervous system.

Recommended literature:
Recommended literature:
D. C. Sabiston: Textbook of Surgery, Philadelphia, W.B. Saunders Company, 208 p.
Lawrence W. Way: Current Surgical Diagnosis And Treatment, 10th Ed., San Fransisco., Appleton - Lange 1993, 1196 p.
R. D. Liechty, R.T. Soper: Fundamentals of Surgery, Mosby Comp. 1989, 648p.
Lonnie R. Mercier: Practical Orthopedics, 2nd Ed., Year Book Medical Publishers, Inc., Chicago-London, 1987, 365 p.
Traumacare, William Odling Smee M.B.F.C.S., 1981
Leund M. S., McKroyd J.S.: Illustrated handbook of General Surgery, 1991
Bailey and Love's: Short practice of Surgery, Chapman and Hall: Medical, London, Glasgow, New York, Tokyo, Melbourne, Madras. 22nd Ed., 1041 p.
Hamilton Bailey: Demonstration of Physical Signs in Clinical Surgery. Bristol, John Wright and SonLtd.
Smith's General Urology, Edited by Tanagho E.A., Aninch, J.W., Appleton - Lange, San Mateo, California, 1995

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 641

A	B	C	D	E	FX
66,77	15,44	9,83	4,68	1,72	1,56

Lecturers: prof. MUDr. Ján Breza, DrSc., prof. MUDr. Viktor Matejčík, CSc., prof. MUDr. Juraj Šteňo, DrSc., doc. MUDr. Andrej Šteňo, PhD., MPH, MUDr. Martin Novotný, PhD., MUDr. Andrey Švec, PhD., MUDr. Ján Kozák, MUDr. Ing. Ján Breza, PhD.
Last change: 02.06.2015
Approved by: prof. MUDr. Juraj Šteňo, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Medicine

Course ID:	**Course title:**
LF.OTK1/L-VLa-049/11	Surgery 4

Educational activities:
Type of activities: lecture / laboratory practicals
Number of hours:
per week: **per level/semester:** 29s / 25s
Form of the course: on-site learning

Number of credits: 3

Recommended semester: 10.

Educational level: I.II.

Prerequisites: LF.OTK1/L-VLa-048/11 - Surgery 3

Course requirements:

Learning outcomes:

Class syllabus:
Congenital and metabolic diseases of the skeleton, inflammations and injuries of the skeleton, principles of rheumo-orthopaedics, diseases of the spine.
Surgery of the face, congenital malformations of the face and hands, lobe plastic surgery, suture materials.

Recommended literature:
D. C. Sabiston: Textbook of Surgery, Philadelphia, W.B. Saunders Company, 208 p.
Lawrence W. Way: Current Surgical Diagnosis And Treatment, 10th Ed., San Fransisco., Appleton - Lange 1993, 1196 p.
R. D. Liechty, R.T. Soper: Fundamentals of Surgery, Mosby Comp. 1989, 648p.
Lonnie R. Mercier: Practical Orthopedics, 2nd Ed., Year Book Medical Publishers, Inc., Chicago-London, 1987, 365 p.
Traumacare, William Odling Smee M.B.F.C.S., 1981
Leund M. S., McKroyd J.S.: Illustrated handbook of General Surgery, 1991
Bailey and Love's: Short practice of Surgery, Chapman and Hall: Medical, London, Glasgow, New York, Tokyo, Melbourne, Madras. 22nd Ed., 1041 p.
Hamilton Bailey: Demonstration of Physical Signs in Clinical Surgery. Bristol, John Wright and Son Ltd.
Smith's General Urology, Edited by Tanagho E.A., Aninch, J.W., Appleton - Lange, San Mateo, California, 1995

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 491

A	B	C	D	E	FX
28,51	32,99	23,42	11,41	3,46	0,2

Lecturers: prof. MUDr. Viktor Matejčík, CSc., prof. MUDr. Juraj Šteňo, DrSc., doc. MUDr. Andrej Šteňo, PhD., MPH, MUDr. Andrey Švec, PhD., Ladislav Novotný, MUDr. Martin Boháč, PhD., doc. MUDr. Jozef Fedeleš, CSc., MUDr. Pavol Macho, MUDr. Drahomír Palenčár, PhD., MUDr. Lukáš Šimko, PhD., MUDr. Iľja Chandoga, PhD., doc. MUDr. Boris Šteňo, PhD., doc. MUDr. Silvia Vajcziková, PhD., MUDr. Jozef Babala, PhD., MUDr. Miroslava Fuňáková, PhD., MUDr. František Horn, PhD., MUDr. Pavol Omaník, PhD., MUDr. Martin Smrek, PhD., doc. MUDr. Ján Trnka, CSc., prof. MUDr. Milan Kokavec, PhD., MPH
Last change: 02.06.2015
Approved by: prof. MUDr. Juraj Šteňo, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Medicine

Course ID:	**Course title:**
LF.ChK1/L-VLa-032/11	Surgical Propedeutics 1

Educational activities:
Type of activities: lecture / laboratory practicals
Number of hours:
per week: **per level/semester:** 29s / 25s
Form of the course: on-site learning

Number of credits: 3

Recommended semester: 5.

Educational level: I.II.

Prerequisites: LF.AÚ/L-S-VLa-003/17 - Anatomy 3

Course requirements:

Learning outcomes:

Class syllabus:
Preoperative preparation of a surgical patient. Postoperative care of a surgical patient. Principles of asepsis and antisepsis in surgery. Surgical instruments. Surgical team before and during operation in the operation theatre. Principles of giving transfusion. Principles of homeostasis. Shock.

Recommended literature:
Liechty, R.D., Soper, R.T.: Fundamentals of Surgery, St. Louis, C.V. Mosby, 1989, 648 p.
Leund, M.S., McKroyd, J.S.: Illustrated Handbook of General Surgery, 1993

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 820

A	B	C	D	E	FX
37,44	40,12	14,15	6,22	2,07	0,0

Lecturers: doc. MUDr. Marián Vician, CSc., prof. MUDr. Peter Labaš, CSc., doc. MUDr. Milan Schnorrer, CSc., MUDr. Boris Hrbatý, PhD., MUDr. Milan Oravský, PhD., MUDr. Richard Reis, PhD., Ing. MUDr. Andrea Bolgáčová, doc. MUDr. Marek Čambal, PhD., doc. MUDr. Juraj Fillo, CSc., MUDr. Dimitrios Papastavrou, doc. MUDr. Luděk Vrtík, CSc., MUDr. Mária Zemanová, MUDr. Vladimír Bak, PhD., MUDr. Ľudovít Danihel, PhD., MUDr. Martin Kukučka, MUDr. Matúš Rajčok, PhD., MUDr. Jozef Babala, PhD., MUDr. Dana Dúbravová, MUDr. Miroslava Fuňáková, PhD., MUDr. Dana Kuniaková, PhD., MUDr. Ľubica Pevalová, CSc., RNDr. Eva Štefánková, PhD., MUDr. Marianna Hajská, PhD., prof. MUDr. Ján Koller, CSc., MUDr. Peter Tisovský, PhD., MUDr. Martin Žabka, PhD., MUDr. Iľja Chandoga, PhD., doc. MUDr. Boris Šteňo, PhD., doc. MUDr. Silvia Vajcziková, PhD., MUDr. Martin Boháč, PhD., doc. MUDr. Jozef Fedeleš, CSc., MUDr. Pavol Macho, MUDr. Drahomír Palenčár, PhD., MUDr. Lukáš Šimko, PhD.

Last change: 02.06.2015

Approved by: prof. MUDr. Juraj Šteňo, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Medicine

Course ID:	**Course title:**
LF.ChK1/L-VLa-033/11	Surgical Propedeutics 2

Educational activities:
Type of activities: lecture / laboratory practicals
Number of hours:
per week: **per level/semester:** 29s / 25s
Form of the course: on-site learning

Number of credits: 5

Recommended semester: 6.

Educational level: I.II.

Prerequisites: LF.ChK1/L-VLa-032/11 - Surgical Propedeutics 1

Course requirements:

Learning outcomes:

Class syllabus:
General instruction - wounds, fractures and postoperative complications. Documentation of a surgical patient. Principles of septic surgery. Surgery of catastrophes. Examining surgical patients. Specifics of the status praesens examination. Principles of small diagnostic and therapeutic surgical procedures.

Recommended literature:
Liechty, R.D., Soper, R.T.: Fundamentals of Surgery, St. Louis, C.V. Mosby, 1989, 648 p.
Leund, M.S., McKroyd, J.S.: Illustrated Handbook of General Surgery, 1993

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 635

A	B	C	D	E	FX
36,38	20,79	13,07	15,43	11,81	2,52

Lecturers: doc. MUDr. Marián Vician, CSc., prof. MUDr. Peter Labaš, CSc., doc. MUDr. Milan Schnorrer, CSc., doc. MUDr. Ján Trnka, CSc., MUDr. Jozef Babala, PhD., MUDr. Boris Hrbatý, PhD., MUDr. Milan Oravský, PhD., MUDr. Richard Reis, PhD., Ing. MUDr. Andrea Bolgáčová, doc. MUDr. Marek Čambal, PhD., doc. MUDr. Juraj Fillo, CSc., MUDr. Dimitrios Papastavrou, doc. MUDr. Luděk Vrtík, CSc., MUDr. Mária Zemanová, MUDr. Vladimír Bak, PhD., MUDr. Ľudovít Danihel, PhD., MUDr. Martin Kukučka, MUDr. Matúš Rajčok, PhD., MUDr. Dana Dúbravová, MUDr. Miroslava Fuňáková, PhD., MUDr. František Horn, PhD., MUDr. Pavol Omaník, PhD., MUDr. Martin Smrek, PhD., MUDr. Marianna Hajská, PhD., prof. MUDr. Ján Koller, CSc., MUDr. Peter Tisovský, PhD., MUDr. Martin Žabka, PhD., MUDr. Iľja Chandoga, PhD., doc. MUDr. Boris Šteňo, PhD., doc. MUDr. Silvia Vajcziková, PhD., MUDr. Martin Boháč,

PhD., doc. MUDr. Jozef Fedeleš, CSc., MUDr. Pavol Macho, MUDr. Drahomír Palenčár, PhD., MUDr. Lukáš Šimko, PhD.
Last change: 02.06.2015
Approved by: prof. MUDr. Juraj Šteňo, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava	
Faculty: Faculty of Medicine	
Course ID: LF.ChK1/L-VLa-123/16	**Course title:** Surgical Propedeutics – practice
Educational activities: **Type of activities:** practice **Number of hours:** **per week:** **per level/semester:** 40s **Form of the course:** on-site learning	
Number of credits: 2	
Recommended semester: 6.	
Educational level: I.II.	
Prerequisites:	
Course requirements:	
Learning outcomes:	
Class syllabus:	
Recommended literature:	
Languages necessary to complete the course:	
Notes:	
Past grade distribution Total number of evaluated students: 132	
ABS0	
100,0	
Lecturers: prof. MUDr. Ján Koller, CSc., MUDr. Marianna Hajská, PhD.	
Last change:	
Approved by: prof. MUDr. Juraj Šteňo, DrSc.	

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Medicine

Course ID:	**Course title:**
LF/L-VLa-111/00	Tropical Parasitology

Educational activities:
Type of activities: lecture
Number of hours:
per week: **per level/semester:** 24s
Form of the course: on-site learning

Number of credits: 2

Recommended semester: 8., 10.

Educational level: I.II.

Prerequisites: LF.ÚFKF/L-VLa-031/11 - Pharmacology 2

Course requirements:

Learning outcomes:

Class syllabus:

Recommended literature:

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 32

A	B	C	D	E	FX
56,25	9,38	12,5	3,13	9,38	9,38

Lecturers: doc. RNDr. Nasir Ahmad Jalili, CSc.

Last change: 02.06.2015

Approved by: prof. MUDr. Juraj Šteňo, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava	
Faculty: Faculty of Medicine	
Course ID: LF.KUMMK/L-VLa-116/00	**Course title:** Urgent medicine
Educational activities: **Type of activities:** lecture / laboratory practicals **Number of hours:** **per week:** **per level/semester:** 12s / 12s **Form of the course:** on-site learning	
Number of credits: 2	
Recommended semester: 10.	
Educational level: I.II.	
Prerequisites:	
Course requirements: 100% participation Practical extended CPR Written exam – test with minimum achievement of 60% Test evaluation: A: 91 - 100 %, B: 81 – 99 %, C: 73 – 80 %, D: 66 – 72 %, E: 60 – 65 %, Fx: 59 % and less Final evaluation will be calculated as the average of achieved partial evaluations.	
Learning outcomes: KNOWLEDGE: Urgent medicine shall provide teoretical information on providing health care in life threatening situations in pre-hospital, as well as hospital stage of rescue chain. To define the medicine of disasters, mass accidents, special events. SKILLS: To handle advanced life support, securing access to airways via intubation, laryngeal mask, laryngeal tubus. To handle intraoseal access to blood circulation, fractures stabilization, stopping a massive bleeding. Using of protective equipment against military attacks.	
Class syllabus: Diagnostics and diferencial diagnostics of the most serious conditions in pre-hospital care, treatment of serious injuries and transport management. Organization and practical realization of profesional health care activities within urgent medicine and medicine of disasters. Integrated rescue system. Possible types of injuries and diseases in case of disasters and mass accidents. Military medicine – health care organization during war and health care system in case of usage of weapons of mass destruction.	
Recommended literature:	
Languages necessary to complete the course:	
Notes:	

Past grade distribution
Total number of evaluated students: 629

A	B	C	D	E	FX
36,88	26,87	15,9	10,65	9,38	0,32

Lecturers: prof. MUDr. Oto Masár, CSc., MUDr. Ireneusz Przewlocki, PhD., PhDr. Hana Belejová, PhD., PhDr. Dušan Sysel, PhD.

Last change: 07.12.2016

Approved by: prof. MUDr. Juraj Šteňo, DrSc.