Course descriptions

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COURSE DESCRIPTION

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Active Participation in the Scientific Conference of the Doctoral Students at the Faculty of Medicine CU in Bratislava</td></tr>
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Type of activities:
Number of hours:
per week: per level/semester:
Form of the course: on-site learning, distance learning</td></tr>
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<tr><td colspan="2">Notes:</td></tr>
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Total number of evaluated students: 43
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COURSE DESCRIPTION

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<tr><td colspan="2">Lecturers:</td></tr>
<tr><td colspan="2">Last change:</td></tr>
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COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Medicine	
Course ID: LF/L-PhD-043/22	**Course title:** Active participation at the domestic scientific event as the 1st author
Educational activities: **Type of activities:** **Number of hours:** **per week:** **per level/semester:** **Form of the course:** on-site learning, distance learning	
Number of credits: 5	
Recommended semester:	
Educational level: III.	
Prerequisites:	
Course requirements:	
Learning outcomes:	
Class syllabus:	
Recommended literature:	
Languages necessary to complete the course:	
Notes:	

Past grade distribution
Total number of evaluated students: 151

ABS	NEABS
100,0	0,0

Lecturers:
Last change:
Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Medicine	
Course ID: LF/L-PhD-045/22	**Course title:** Active participation at the international scientific event as the 1st author
Educational activities: **Type of activities:** **Number of hours:** **per week:** **per level/semester:** **Form of the course:** on-site learning, distance learning	
Number of credits: 10	
Recommended semester:	
Educational level: III.	
Prerequisites:	
Course requirements:	
Learning outcomes:	
Class syllabus:	
Recommended literature:	
Languages necessary to complete the course:	
Notes:	

Past grade distribution
Total number of evaluated students: 66

ABS	NEABS
100,0	0,0

Lecturers:
Last change:
Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Medicine	
Course ID: LF/L-PhD-046/22	**Course title:** Active participation at the international scientific event as a co-author
Educational activities: **Type of activities:** **Number of hours:** **per week:** **per level/semester:** **Form of the course:** on-site learning, distance learning	
Number of credits: 3	
Recommended semester:	
Educational level: III.	
Prerequisites:	
Course requirements:	
Learning outcomes:	
Class syllabus:	
Recommended literature:	
Languages necessary to complete the course:	
Notes:	

Past grade distribution
Total number of evaluated students: 55

ABS	NEABS
100,0	0,0

Lecturers:
Last change:
Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Medicine	
Course ID: LF/L-PhD-040/22	**Course title:** Active participation in the domestic scientific event on the topic of the DT, documented with the abstract in a journal or conference as a co-author
Educational activities: **Type of activities:** **Number of hours:** **per week:** **per level/semester:** **Form of the course:** on-site learning, distance learning	
Number of credits: 5	
Recommended semester:	
Educational level: III.	
Prerequisites:	
Course requirements:	
Learning outcomes:	
Class syllabus:	
Recommended literature:	
Languages necessary to complete the course:	
Notes:	

Past grade distribution

Total number of evaluated students: 56

ABS	NEABS
100,0	0,0

Lecturers:
Last change:
Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Medicine	
Course ID: LF/L-PhD-039/22	**Course title:** Active participation in the domestic scientific event on the topic of the DT, documented with the abstract in a journal or conference as the 1. author
Educational activities: **Type of activities:** **Number of hours:** **per week:** **per level/semester:** **Form of the course:** on-site learning, distance learning	
Number of credits: 10	
Recommended semester:	
Educational level: III.	
Prerequisites:	
Course requirements:	
Learning outcomes:	
Class syllabus:	
Recommended literature:	
Languages necessary to complete the course:	
Notes:	

Past grade distribution

Total number of evaluated students: 94

ABS	NEABS
100,0	0,0

Lecturers:
Last change:
Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Medicine	
Course ID: LF/L-PhD-042/22	**Course title:** Active participation in the internat scientific event on the topic of the DT, documented with the abstract in a journal or conference as a co-author
Educational activities: **Type of activities:** **Number of hours:** **per week: per level/semester:** **Form of the course:** on-site learning, distance learning	
Number of credits: 10	
Recommended semester:	
Educational level: III.	
Prerequisites:	
Course requirements:	
Learning outcomes:	
Class syllabus:	
Recommended literature:	
Languages necessary to complete the course:	
Notes:	

Past grade distribution

Total number of evaluated students: 28

ABS	NEABS
100,0	0,0

Lecturers:
Last change:
Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Medicine	
Course ID: LF/L-PhD-041/22	**Course title:** Active participation in the internat scientific event on the topic of the DT, documented with the abstract in a journal or conference as the 1. author
Educational activities: **Type of activities:** **Number of hours:** **per week:** **per level/semester:** **Form of the course:** on-site learning, distance learning	
Number of credits: 20	
Recommended semester:	
Educational level: III.	
Prerequisites:	
Course requirements:	
Learning outcomes:	
Class syllabus:	
Recommended literature:	
Languages necessary to complete the course:	
Notes:	

Past grade distribution

Total number of evaluated students: 54

ABS	NEABS
100,0	0,0

Lecturers:
Last change:
Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Medicine	
Course ID: LF/L-PhD-068/22	**Course title:** Co-investigator of a Scientific Project (e.g., VEGA, APPV and so on)
Educational activities: **Type of activities:** **Number of hours:** **per week: per level/semester:** **Form of the course:** on-site learning, distance learning	
Number of credits: 5	
Recommended semester:	
Educational level: III.	
Prerequisites:	
Course requirements:	
Learning outcomes:	
Class syllabus:	
Recommended literature:	
Languages necessary to complete the course:	
Notes:	
Past grade distribution Total number of evaluated students: 107	

ABS	NEABS
100,0	0,0

Lecturers:
Last change:
Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Medicine	
Course ID: LF/L-PhD_001/22	**Course title:** Completion of Dissertation Examination
Educational activities: **Type of activities:** **Number of hours:** **per week: per level/semester:** **Form of the course:** on-site learning, distance learning	
Type, volume, methods and workload of the student - additional information state examination, without a specification as it is the doctoral study degree	
Number of credits: 20	
Recommended semester:	
Educational level: III.	
Prerequisites:	
Course requirements: The subject assessment is done in the state examination frame following the Study Regulations of the Faculty of Medicine Comenius University in Bratislava. After submitting the written work to the dissertation thesis in the determined period (until half of the study at the latest). The state examination subjects involve the debate on the written work to the dissertation thesis (elaborated by the doctoral student) and others by the Dean approved subjects of the oral examination (ad hoc). Assessment is standard and reflects sufficiently the student's orientation in the given issues. The conditions for successful subject completion are in concord with the Faculty of Medicine CU's Study regulations. Scale of assessment (preliminary/final): The dissertation examination is evaluated as a whole by the classification grade passed or not passed.	
Learning outcomes: The graduate from the subject masters the tenets of the scientific work and has built the scientific thinking and scientific work system, masters the scientific work methodology, he/she knows how to prepare an abstract and overview scientific publication. The outcome of this knowledge is the completion of the written work to the dissertation thesis. The doctoral student shall complete the dissertation examination under the Law No. 131/2002 Coll. on Higher Education, § 54 Doctoral study programme and the Faculty of Medicine's Study regulations, Comenius University in Bratislava.	
Class syllabus: The study of scientific publications related to the topics of the doctoral study. Elaboration of the written work to the dissertation examination containing the overview of the current knowledge in the given issues. Forming the scientific goals of the dissertation thesis. Acquiring theoretical knowledge and practical skills related to the dissertation examination thesis and the subject of the doctoral study. The primary outcome is the written work to the dissertation thesis and its completion following the Study regulations FM CU. The form and the work content are regulated in Art. 29,	

Sec. 4 of the Study regulations FM CU. The dissertation examination consists of the debate over the written work to the dissertation examination and part when the doctoral student shall show theoretical knowledge from the study programme. The composition of the examination committee, determination of the opponent and the course of the dissertation examination follows the Study regulations FM CU.

Recommended literature:
Without the specification regarding the character of the dissertation thesis. The recommended literature is a part of the individual study plan of the doctoral student.

Languages necessary to complete the course:
Slovak combined with English (study literature in English)

Notes:

Past grade distribution
Total number of evaluated students: 94

A	B	C	D	E	FX	P	P/a
0,0	0,0	0,0	0,0	0,0	0,0	41,49	58,51

Lecturers:

Last change: 09.12.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Medicine	
Course ID: LF/L-PhD-002/22	**Course title:** Completion of the English language and the exam in the English language
Educational activities: **Type of activities:** **Number of hours:** **per week: per level/semester:** **Form of the course:** on-site learning, distance learning	
Type, volume, methods and workload of the student - additional information Seminars: 12 lessons/semester; Form of educational activities: combined	
Number of credits: 10	
Recommended semester:	
Educational level: III.	
Prerequisites:	
Course requirements: Oral examination – presentation Scale of assessment (preliminary/final): passed - failed	
Learning outcomes: Integration of receptive and productive communication skills at an advanced level based on terminology focused on students' professional needs, which will enable them to communicate at the required level in both written and oral form. Students' language competence enables essential communication in everyday situations focused on situations in the university and medical environment with particular emphasis on language competence in the chosen PhD study field. Focus on the extension of professional vocabulary with particular emphasis on the needs of practice in the individual specialisations.	
Class syllabus: Grammar: Application of the semantic-functional approach in combination with the extension of grammatical structures in context, the system of English tenses, infinitives, passives, compounding and shortening of sentences, subordinate clauses, etc. Vocabulary: Active mastery of professional vocabulary in the general medical context, differentiating between lay words and technical terms in medical terminology. Word formation using suffixes and prefixes. Collocations. Reading comprehension and writing: Ability to create written text, its oral presentation, the differences between the written and oral form of presentation. Creation of PP presentation, ability to present research results on academic forums using relevant professional terminology.	
Recommended literature: Sam McCarter: Medicine I., II. Student's Book. Oxford University Press. 144s. ISBN: 0194023001	
Languages necessary to complete the course:	

Slovak and English

Notes:

Past grade distribution
Total number of evaluated students: 149

A	B	C	D	E	FX	P	P/a
0,67	0,0	0,0	0,0	0,0	0,0	42,28	57,05

Lecturers: Ing. Janka Bábelová, PhD., Mgr. Katarína Hromadová, PhD., Mgr. Melinda Vasiľová, PhD., Ing. Mgr. Erika Jurišová, PhD.

Last change: 09.12.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Medicine	
Course ID: LF/L-PhD-030/22	**Course title:** Completion of the compulsory elective subject "Functional Anatomy of Human Reproduction and Clinical Embryology"
Educational activities: **Type of activities:** **Number of hours:** **per week: per level/semester:** **Form of the course:** on-site learning, distance learning	
Type, volume, methods and workload of the student - additional information The recommended scope of tuition (in hours): 12 hours of lectures + 12 hours of self-study Within the study: lectures are divided into three 4-hour courses in the semester Study methods: in-person	
Number of credits: 10	
Recommended semester:	
Educational level: III.	
Prerequisites:	
Course requirements: Presence at lectures is obligatory. The final multiple question test (evaluation A for 80% of points, B 75%, C 70%, D 65%, E 60%). Credits will not be granted if the doctoral student does not undergo the lectures and does not achieve a minimum of 60% in the final test. Scale of assessment (preliminary/final): Final classification: ‘passed’, ‘failed’	
Learning outcomes: Acquiring the selected latest knowledge and information on new trends in clinical embryology and reproductive medicine. The subject graduate masters anatomy and physiology of human reproduction, causes of origination and possibilities for diagnosis and treatment of the most frequent congenital developmental disorders, masters on theoretical level the causes and diagnostic, and treating infertility possibilities selected laboratory methods of assisted reproduction. The subject benefit is also a comprehensive overview of human reproduction issues and points to the intersection between theoretical knowledge on embryology and experimental biology and clinical research in gynaecology, obstetrics, and neonatology. The foundation for cooperation between theoretical and clinical workplaces dealing with research in the field of reproductive medicine.	
Class syllabus: 1. New knowledge in anatomy and histology of male and female reproductive organs. Ovarian and menstruation cycle. Spermiogenesis. Reproductive endocrinology and immunology 2. Fertilisation and early embryogenesis. Critical periods in the embryo and foetus development. 3. Prenatal screening and diagnosis of congenital developmental errors. Current possibilities in foetal surgery. 4. Teratology, causes of congenital errors origination and possibilities for their prevention. Selected aspects of care for a new-born with congenital developmental errors.	

5. Infertility. Causes of male and female infertility. Diagnosis and treatment of infertility.
6. Methods of assisted reproduction: spermiology and ejaculate analysis, micromanipulation methods and intra cytoplasm injections of the sperm to the oocyte, in vitro cultivation of the early embryo and assessment of its development, cryopreservation in reproductive medicine, pre-implementation genetic diagnostics, ethical and legal aspects of clinical embryology.
7. Biological and therapeutical potential of embryonal stem cells.

Recommended literature:

1. Coward K, Wells D. (Eds). Textbook of Clinical Embryology. Cambridge University Press. 2013. 392 s. ISBN 978-0-521-16640-9.
2. Sadler TW. Langmanova lékařská embryologie. Překlad 10. vyd. Praha: Grada, 2011. 414 s. ISBN 978-80-247-2640-3.
3. Řezáčová J. (Ed). Reprodukční medicína. Současní možnosti v asistované reprodukci. Praha: Mladá fronta. 2018. 710 s. ISBN 978-80-204-4657-2.

Languages necessary to complete the course:
Slovak, English

Notes:

Past grade distribution
Total number of evaluated students: 62

ABS	NEABS
100,0	0,0

Lecturers: prof. RNDr. Ivan Varga, PhD., prof. MUDr. Jozef Záhumenský, PhD.

Last change: 14.12.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Medicine	
Course ID: LF/L-PhD-031/22	**Course title:** Completion of the compulsory elective subject "Neuroscience – New Trends "
Educational activities: **Type of activities:** **Number of hours:** **per week: per level/semester:** **Form of the course:** on-site learning, distance learning	
Type, volume, methods and workload of the student - additional information Recommended scope of tuition (in hours): 12 hours of lectures + 12 hours of self-study Within the study: lectures are divided into three 4-hour courses in the semester Study methods: in-person	
Number of credits: 10	
Recommended semester:	
Educational level: III.	
Prerequisites:	
Course requirements: Active presence at lectures (control questions) and a minimum of 60% of points in the final written test Scale of assessment (preliminary/final): Credit granting for completion and successful test resultFinal classification: 'passed', 'failed'	
Learning outcomes: acquiring selected latest knowledge and information on new neuroscience research trends and research in neurological diseases and psychical disorders.	
Class syllabus: The subject aims to familiarise doctoral students with theoretical and clinical branches with new research trends in the neuroscience field. Lectures are related to the latest knowledge on the central and peripheral nervous system's activities, the etiopathogenesis of neurological diseases and psychiatric disorders. The students will also get the latest knowledge of the nervous system's regulation impact on other organ systems' activity. The main subject contribution is to allow the students to gain a complex overview of neuroscience and point out to the intersection between theoretical knowledge from neuroscience and clinical research in neurology, psychiatry, and neurosurgery. The foundation for cooperation between theoretical and clinical workplaces dealing with research in the field of reproductive medicine.	
Recommended literature: Handouts of lectures; Squire et al. Fundamental Neuroscience, 4th edition, 2012; Kandel et al. Principles of Neural Science, 2012.	
Languages necessary to complete the course:	

Slovak, English

Notes:

Past grade distribution
Total number of evaluated students: 49

ABS	NEABS
100,0	0,0

Lecturers: prof. MUDr. Boris Mravec, PhD., prof. MUDr. Daniela Ostatníková, PhD., prof. MUDr. Ján Pečeňák, CSc.

Last change: 20.12.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Medicine	
Course ID: LF/L-PhD-033/22	**Course title:** Completion of the compulsory elective subject "New Medicaments and Strategies in Pharmacotherapy"
Educational activities: **Type of activities:** **Number of hours:** **per week: per level/semester:** **Form of the course:** on-site learning, distance learning	
Type, volume, methods and workload of the student - additional information Recommended scope of tuition (in hours): 12 hours of lectures + 12 hours of self-study Within the study: lectures are divided into three 4-hour courses in the semester Study methods: in-person	
Number of credits: 10	
Recommended semester:	
Educational level: III.	
Prerequisites:	
Course requirements: Conditions for the subject completion: compulsory presence at lectures and completion of the oral exam, verifying the subject knowledge. Scale of assessment (preliminary/final): Final evaluation: 'Passed', 'failed'	
Learning outcomes: Acquiring new knowledge in strategy in developing new drugs at a general level with the impact on the safety aspects. The doctoral student also gains the latest knowledge in developing new medicaments in selected clinical disciplines like cardiology, endocrinology, psychiatry, neurology, rheumatology, oncology. The subject graduate will understand drug evaluation principles from medicine based on evidence (the ratio benefit/risk).	
Class syllabus: Strategy in the drug development with the aspect on drug safety. Rational methods of drug development. New drugs and strategies in pharmacotherapy New medicaments and strategies in cardiology New medicaments and strategies in endocrinology New medicaments and strategies in neurology New medicaments and strategies in rheumatology New medicaments and strategies in oncology	
Recommended literature: Kristová, V., Wawruch, M., Tisoňová, J. a kol. Kardiovaskulárne liečivá. Bratislava: Univerzita Komenského, 2011. 238 s. ISBN 978-80-223-2964-4. Kriška, M. a kol. Memorix klinickej farmakológie a liekov. Bratislava: SAP, 2006. 610 s. ISBN 80-89104-92-4. Magulová, L., Božeková, L., Kriška, M., Interakcie liečiv v klinickej praxi. 2. dopl. a uprav. Vyd. Bratislava: SAP, 2004. 333 s. ISBN 80-89104-53-3.	

Kriška M (Ed). Riziko liekov v medicínskej praxi. Bratislava: Slovak Academic Press, 2000. 474 s. ISBN 80-88908-58-2.
Wawruch, M., Laššánová, M., Tisoňová, J. Kapitoly z klinickej farmakológie. Bratislava: Univerzita Komenského, 2012. 176 s. ISBN 978-80-223-3140-1.
Pečeňák J., Kořínková V. a kol. Psychofarmakológia. Wolters Kluwer 2016. 666s., ISBN 978-80-8168-542-2.
Brenner GM, Stevens CM. Pharmacology. 5th ed. Philadelphia: Saunders Elsevier, 2018. 540 p. ISBN 978-0-323-39166-5.

Languages necessary to complete the course:
Slovak, English

Notes:

Past grade distribution
Total number of evaluated students: 17

ABS	NEABS
100,0	0,0

Lecturers: doc. PharmDr. Andrea Gažová, PhD., prof. MUDr. Martin Wawruch, PhD.

Last change: 14.12.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Medicine

Course ID:	**Course title:**
LF/L-PhD-036/22	Completion of the compulsory elective subject "New Trends in Medical Biology and Clinical Genetics"

Educational activities:
Type of activities:
Number of hours:
per week: per level/semester:
Form of the course: on-site learning, distance learning

Type, volume, methods and workload of the student - additional information
Altogether 12 hours of courses: 12 hours lectures/semester (2 x 6 hours) + 12 hours of self-study.

Number of credits: 10

Recommended semester:

Educational level: III.

Prerequisites:

Course requirements:
Compulsory attendance at lectures combined with self-study. Passing the final multiple-choice test (evaluation A when obtaining 75% points, B when obtaining 70% points, C when obtaining 65% points, D when obtaining 60% points, E when obtaining 55% points). Credits will not be awarded if the doctoral student does not attend lectures and does not obtain at least 55% in the final test.
Scale of assessment (preliminary/final): Final evaluation: 'Passed', 'failed'

Learning outcomes:
The graduate of this course will gain knowledge in medical biology, molecular genetics, tissue engineering, regenerative medicine, and clinical genetics, focusing on the problematics of mechanisms and pathological processes in the human body. The graduate will master the principles of molecular genetic techniques, utilisation of nucleic acid analysis in medicine, the basics of personalised medicine, types of genetically and non-genetically persistent diseases, their frequency in the population, and basic principles of gene therapy.

Class syllabus:
Analysis of cellular and human biological samples in research and diagnostics.
Development of molecular genetic methods and revealing the molecular basis of hereditary diseases. The human genome and programs are supporting the use of data-driven knowledge in medicine. Types of molecular, genetic, metabolic and tumour pathologies and molecular levels of disorder manifestation (metabolomics, genomics, proteomics).
Methods used in diagnostics:
- methods of DNA, RNA isolation, transcription of mRNA into cDNA
- DNA amplification methods (PCR, Real-Time PCR)
- DNA sequencing, hybridisation and fragmentation analyses
- advanced methods in molecular genetics
- qualitative and quantitative measurement of gene expression

- whole genome, exome, transcriptome sequencing, personalised medicine and the perspective of whole-genome sequencing along with data problematics. Biological model organisms and tissue cultures in research. Regenerative medicine and in-vitro preparation of tissue replacements.

Recommended literature:

Recommended literature:

1. Böhmer, Daniel, Danišovič, Ľuboš, Repiská, Vanda: Lekárska biológia a genetika 1 [elektronický dokument]. - 2. dopl. vyd. Bratislava: Comenius University in Bratislava 102 s. ISBN 978-80-223-4922-2.
2. Gbelcová, Helena, Repiská, Vanda, Shawkatová, Ivana: Nukleové kyseliny a proteíny: Analytické metódy a postupy. - 1. vyd. - Bratislava: Univerzita Komenského, 2017. - 316 s. ISBN 978-80-223-4472-2
3. Repiská, Vanda, Böhmer, Daniel, Danišovič, Ľuboš, Klimová, Daniela: Medical biology and molecular genetics. - 1. vyd. - Bratislava: Univerzita Komenského v Bratislave, 2020. - 306 s. ISBN 978-80-223-4984--0
4. Repiská, Vanda, Böhmer, Daniel, Braxatorisová, Tatiana, Malová, Jana: Lekárska biológia a genetika 2 [elektronický dokument]. - 1. vyd. - Bratislava: Univerzita Komenského v Bratislave, 2020. - 135 s. ISBN 978-80-223-4929-1
5. Strachan, Tom: Human Molecular Genetics. – 4th edition - Taylor & Francis Ltd., 2010. 777 s. ISBN: 081-53-414-90
6. Nussbaum, Robert, McInnes, Roderick R., Huntington F. Willard: Thompson & Thompson Genetics in Medicine. - Elsevier Books, 2015. – 560 s. ISBN: 1437706967

Languages necessary to complete the course:

Slovak, English

Notes:

Past grade distribution

Total number of evaluated students: 90

ABS	NEABS
100,0	0,0

Lecturers: doc. MUDr. Daniel Böhmer, PhD., doc. RNDr. Ľuboš Danišovič, PhD., doc. Ing. Helena Gbelcová, PhD., prof. RNDr. Vanda Repiská, PhD., MPH

Last change: 20.12.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Medicine	
Course ID: LF/L-PhD-034/22	**Course title:** Completion of the compulsory elective subject "New Trends in Medical Microbiology and Immunology"
Educational activities: **Type of activities:** **Number of hours:** **per week: per level/semester:** **Form of the course:** on-site learning, distance learning	
Type, volume, methods and workload of the student - additional information 12 hours of contact teaching and 12 hours of self-study completed by a test. The full-time form.	
Number of credits: 10	
Recommended semester:	
Educational level: III.	
Prerequisites:	
Course requirements: There will be one written examination; at least 60 % will be needed to complete it. Scale of assessment (preliminary/final): Credit granting for completion and successful test resultFinal evaluation: 'Passed', 'failed'	
Learning outcomes: Gaining selected latest knowledge and information about new trends in Medical Microbiology and Immunology. The graduate of the course masters the principles of basic and modern diagnostic procedures in Medical Microbiology and Immunology, methods for examining the immune profile of patients, masters specialised examination procedures in medical microbiology and immunology, principles of molecular genetic techniques, PCR methodology, DNA isolation, RNA, sequencing, Elisa methodology, immunohistology. 2. He/she can work independently in the laboratory, receive and store samples, process results, statistically evaluate, interpret and present them in lectures and publications. 3. He/she can combine knowledge of medical microbiology with knowledge of immunology.	
Class syllabus: The course aims to acquaint doctoral students with clinical and theoretical fields of study with new knowledge and research trends. The lectures relate mainly to the latest selected knowledge of the origin and development of some of the most socially severe conditions and diseases. socially serious infectious diseases (Covid 19, AIDS, ...), infections of the cardiovascular system and blood and other systems, infections related to biofilm and foreign bodies, principles of rational antibiotic treatment and post-infectious immunopathological conditions. It also includes new findings in the field of immunogenetics, the role of cytokines, chemokines and subpopulations of lymphocytes and macrophages in the immunopathogenesis of diseases, classical and alternative inflammation, the role of inflammation as a key factor in tumour development	

and all diseases, the immunopathogenesis of sepsis, lung diseases, neuroinflammation, Alzheimer disease, neurodegenerative diseases, autoimmune and autoinflammatory diseases, the influence of the intestinal microbiome, the psyche, the endocrine system and the nervous system on the immune system.

Recommended literature:

The recommended literature for a student to the subject

1. Scientific articles linked to the topic of PhD thesis from Pubmed, Scopus and other web sites.
2. Buc M. Basic and Clinical Immunology. 4th ed. Bratislava: Comenius University 2020, in press
3. Shawkatová I. et al. Laboratory methods in Immunology, Comenius University 2019, 184 p.
4. Buc M and Javor J.: Basic and Clinical Immunology for Dentistry Students. Bratislava: Comenius University 2017, 315 pp.
5. Murray, P. R., Rosenthal, K. S., Pfaller, M. A.: Medical microbiology. London: Elsevier, 2021

Languages necessary to complete the course:

Slovak, English

Notes:

Past grade distribution

Total number of evaluated students: 44

ABS	NEABS
100,0	0,0

Lecturers: doc. MUDr. Mária Bucová, CSc., doc. RNDr. Vladimíra Ďurmanová, PhD., doc. MUDr. Adriana Liptáková, PhD., MPH, doc. Mgr. Ivana Shawkatová, PhD.

Last change: 14.12.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Medicine

Course ID:	**Course title:**
LF/L-PhD-035/22	Completion of the compulsory elective subject "New Trends in Medical, Clinical and Pharmacological Biochemistry"

Educational activities:
Type of activities:
Number of hours:
per week: per level/semester:
Form of the course: on-site learning, distance learning

Type, volume, methods and workload of the student - additional information
12 hours lectures/semester + 12 hours of self-study.
Lectures are held three times per semester in 4-hour sessions.
Lectures are held in person

Number of credits: 10

Recommended semester:

Educational level: III.

Prerequisites:

Course requirements:
To complete the course, attendance at lectures is required + successful completion of the final test.
Scale of assessment (preliminary/final): Final evaluation: 'Passed', 'failed'

Learning outcomes:
The student will gain information on current issues and trends in medical, pharmaceutical, and clinical biochemistry by completing the course. The course content will enable the updating of knowledge in the field of metabolomics, proteomics and transcriptomics in association with information on new detection methods of various biomolecules used in mentioned areas of interest. The acquired knowledge will contribute to a deeper understanding of the pathophysiological processes taking place during cardiovascular, metabolic, tumour, neurodegenerative diseases, or ageing physiological processes. Insight into the possibility of influencing these processes by bioactive substances, by the reduction of oxidative stress, lifestyle interventions or by new therapeutic strategies (nanoparticles, new methods of drug delivery to target organs, neuroprotective and regenerative strategies...) will provide the graduate with a basis for further increase of his/her knowledge and skills in future clinical or scientific practice.

Class syllabus:
- Fibrogenesis in the liver and the possibility of its monitoring by non-invasive laboratory tests
- Disorders of lipid metabolism, hyperlipoproteinemia, a new view on the interpretation of dyslipidaemias (lipoprint and its use), lipoprotein indices in the assessment of CVD risk
- Participation of oxidative stress in the pathology of various diseases and the possibility of its influence by natural substances with biomodulatory activities
- Effect of physical activity and selected nutrients (proteins, vitamin D, omega-3 fatty acids, probiotics, etc.) on the ageing process

- The potential risk of metal nanoparticles and metal oxides used in nanomedicine
- Neurodegenerative diseases and changes in cognitive functions in terms of metabolic diseases and ageing, biochemical detections of CNS dysfunction, strategies of neuroprotection and CNS regeneration

Recommended literature:

Ďurovcová, Eva, Mareková, Mária, Molčányiová, Angela, Turecký, Ladislav: Klinická biochémia : vybrané kapitoly, 1. vyd., Martin : Vydavateľstvo Osveta, 2020. 300 s. ISBN 978-80-8063-489-6.
Turecký, Ladislav: Klinická biochémia pre medikov. 2. rozš. vyd., Bratislava: Asklepios, 2014. 204 s, ISBN 978-80-7167-181-7
Marshall WJ, Lapsley M, Day AP, Ayling RM: Clinical Biochemistry. 3rd edition, Churchill Livingstone-Elsevier 2014, 932s. ISBN 978-0-7020-5140-1
Laher I (ed.): Systems Biology of Free Radicals and Antioxidants, Springer-Verlag Berlin Heidelberg 2014
Brady et al. Basic Neurochemistry, 8th Edition, Elsevier Science Publishing Co Inc. Academic Press, 2012, Pages 1120, ISBN 9780123749475
Farooqui AA. Molecular Aspects of Neurodegeneration, Neuroprotection, and Regeneration in Neurological Disorders. Elsevier Science Publishing Co Inc. Academic Press, 2020, Pages 400, ISBN: 9780128217115

Languages necessary to complete the course:
Slovak, English

Notes:

Past grade distribution
Total number of evaluated students: 17

ABS	NEABS
100,0	0,0

Lecturers: doc. RNDr. Monika Ďurfinová, PhD., prof. RNDr. Jana Muchová, PhD., prof. MUDr. Ladislav Turecký, CSc., prof. Ing. Ingrid Žitňanová, PhD.

Last change: 20.12.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Medicine	
Course ID: LF/L-PhD-032/22	**Course title:** Completion of the compulsory elective subject "Pathological Physiology and Pathology – new trends"
Educational activities: **Type of activities:** **Number of hours:** **per week: per level/semester:** **Form of the course:** on-site learning, distance learning	
Type, volume, methods and workload of the student - additional information Recommended scope of tuition (in hours): 12 hours of lectures + 12 hours of self-study Within the study: lectures are divided into three 4-hour courses in the semester Study methods: in-person	
Number of credits: 10	
Recommended semester:	
Educational level: III.	
Prerequisites:	
Course requirements: Active presence at lectures (control questions) and a minimum of 60% of points in the final written test Scale of assessment (preliminary/final): Credit granting for completion and successful test resultFinal classification: 'passed', 'failed'	
Learning outcomes: acquiring selected latest knowledge and information on new pathology, pathophysiology, and molecular biomedicine trends.	
Class syllabus: The subject aims to familiarise the doctoral students with clinical ans theoretical study branches with new trends in research and the state-of-art methodological procedures used in pathophysiology, pathology, and molecular biomedicine. The lectures are related mainly to the latest knowledge of origination and development of some socially most serious diseases (neurological, psychiatric, oncological, cardiovascular, infectious). The enrichment will be case studies of patients from pathologists and pathophysiologists and new opportunities in molecular diagnosis. The main subject benefit is the emphasis on possible intersections of basic and clinical research to support cooperation in clinical and experimental research at preclinical and clinical workplaces.	
Recommended literature: Handouts and CD of lectures; Kandel et al. Principles of Neural Science (2012); Mladosievicova B. et al. Molekulové mechanizmy patogenézy nádorov, (2012) SAP, 130 s.	
Languages necessary to complete the course: Slovak, English	

Notes:	
Past grade distribution Total number of evaluated students: 19	
ABS	NEABS
100,0	0,0
Lecturers: prof. MUDr. Beáta Mladosievičová, CSc.	
Last change: 14.12.2022	
Approved by:	

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Medicine	
Course ID: LF/L-PhD-029/22	**Course title:** Completion of the compulsory elective subject "The register of diseases, national healthcare registers, follow-up"
Educational activities: **Type of activities:** **Number of hours:** **per week: per level/semester:** **Form of the course:** on-site learning, distance learning	
Type, volume, methods and workload of the student - additional information Tuition form: in person + self-study The recommended scope of tuition (in hours): 12 hours of lectures + 12 hours of self-study Within the study: lectures are divided into three 4-hour courses in the semester Study methods: in-person + filing in the form the report on Malignant Tumour of Selected Disease for the National Cancer Register.	
Number of credits: 10	
Recommended semester:	
Educational level: III.	
Prerequisites:	
Course requirements: Presence at lectures and seminar Within the semester, there will be one final written test – 50 points. To gain A minimum of 45 points is needed, for B minimum of 40 points, for C minimum of 35 points, for D minimum of 30 points and E minimum 25 points. Credits will not be granted to the student who does not complete the lectures and the written test. Scale of assessment (preliminary/final): Final classification: 'passed', 'failed'	
Learning outcomes: The student obtains the overview on registers under the National Centre of Healthcare Information (NCZI) maintenance and the NCZI maintenance. He/she will have an overview of the diagnoses that are liable to the Report on relevant case studies that might be demonstrated from the Department of Ophthalmology Comenius University's clinical dispensary. The student will become familiar with diseases which classify into the register, dispensary. The register data are the base for publication activity for assessing the incidence of concrete disease, geographical division, age groups and so on.	
Class syllabus: Concise subject structure: The requirement for standards is defined for collecting, storage, safety, processing, and provision and publishing of data gathered in the national health registers. 1) Patients' registration in SR, recording, dispensary	

Information of registers under the NCZI maintenance and out of it. The register gathers clinical-epidemiological data on patients with diseases, processes information on morbidity and mortality, e.g., oncological diseases, incidence trends of these diseases in the population groups, the health condition of patients, and the level of provided healthcare.
2) NOR – the National Register of Patients with oncological diseases is a population clinical-epidemiological register of patients covering the whole SR territory. The register aims to gather selected clinical-epidemiological data on patients with oncological diseases in the Slovak Republic, to process the information on morbidity and mortality, e.g., from oncological diseases, incidence trends of these diseases in the population groups, on the health condition of patients and the type and level of provided healthcare. There are gathered information on the incidence of malignant tumours, tumours in situ, tumours of uncertain biological behaviour, and benign tumours of the nervous system and endocrine glands in the register. Data from the register are completed with the data from the database of the dead and causes of death, which allows data on mortality from particular oncological disease and data on patients' survival with the given disease. Data are classified according to gender and age group of patients and their geographical distribution concerning internationally recognised diseases classification systems (MKCH, MKCH-O, TNM). Data and outcomes processing serve as the materials for epidemiological analyses and studies of followed disease distribution in the population, analyse the time series and trends, analyse the region burden by the followed diseases to detect population preventive and treating strategies for evaluation of population risks.
3) Utilisation of data from the databases of the electronic healthcare
The detailed information on the programme of electronic healthcare implementation in Slovakia. Important documents related to the implementation of electronic healthcare, information on projects and their anticipated outcomes.
Documents and websites on electronic healthcare in Europe and worldwide. Essential information on electronic healthcare, its mission, and goals.
4) Data utilisation from the registers, databases
Data serve as materials for permanent improvement of the provided healthcare and enhancement of preventive population measures. The divisions use processed data at the Ministry of Healthcare Slovakia Republic as materials for planning the healthcare policy, evaluating inhabitants' health condition, preparing population preventive and intervention programmes, and international comparison for the World Health Organisation, OECD Eurostat. Professional healthcare societies utilise the data for clinical-epidemiological analyses and evaluate patients' management level with the selected disease.
5) Practical use in the clinical practice, in publication activities.
Based on our clinical results and experience with the registering, dispensary we demonstrate particular groups of diseases in ophthalmology. We will point out publication outcomes allowed just thanks to data from NCR. (NOR).
The student, when preparing his/her publications, will follow the data from registers. Therefore he/she must be informed on the sources and access to the sources.

Recommended literature:

Recommended literature:
DUŠEK, L., MUŽÍK, J., KUBÁSEK, M., KOPTÍKOVÁ, J., ŠNAJDROVÁ, L., ONDRUŠOVÁ, M. Národní portál epidemiologie zhoubných nádorů ve Slovenské republice. 2007. [cit. 2010-03-04]. ISBN 978-80-89292-05-9. Available on the internet: http://www. svod.cz/.
FURDOVÁ, A., OLÁH, Z.: Nádory oka a okolitých štruktúr. CERM, Brno, 2010, 151s. ISBN 978-80-7204-689-8

FURDOVÁ, A., OLÁH, Z. Incidencia, geografická distribúcia, vekové rozloženie, mortalita a histologická verifikácia u intraokulárnych tumorov (dg.190) v SR v r. 1968-1989 (štúdia). Československá oftalmologie, 1995, roč. 51, č. 3, s. 143-151 ISSN 0009-059X
FURDOVÁ, A. OLÁH Z., SVETLOŠÁKOVÁ, Z., KUSENDA, P.: Súčasný stav evidencie zhubných nádorov oka a očných adnexov (dg. C69) v SR a ČR. Česká a slovenská oftalmologie, 68 (5), 2012, s. 195-201 ISSN 1211-9059
ONDRUŠOVÁ, M., PLEŠKO, I., SAFEI-DIBA, CH., OBŠITNÍKOVÁ, A., ŠTEFAŇÁKOVÁ, D., ONDRUŠ, D. Komplexná analýza výskytu a úmrtnosti na zhubné nádory v Slovenskej republike 1978-2003. [online]. Bratislava, Národný onkologický register SR, NCZI [cit. 4.3.2010]. ISBN 978-80-89292-05-9., Dostupné na Internete: http://www.nor-sk.org/.
ONDRUŠOVÁ, M., DUŠEK, L., ONDRUŠ, D., MUŽÍK, J.. Aká je dostupnosť údajov o epidemiológii zhubných nádorov v Slovenskej republike? Onkológia, 2007, roč. 2, č. 5, s. 292-293 ISSN 1336-8176
http://www.ezdravotnictvo.sk/en/Pages/default.aspx
http://www.ehealth.nsw.gov.au/programs/clinical
Sendek Stanislav: Kvantifikácia dopadov aplikácie ehealth zdravotnom sektore v podmienkach Slovenskej republiky Mendelova Univerzita v Brne, Provozne ekonomická fakulta, 190 s., 2016 https://theses.cz/id/jzy5je/zaverecna_prace.pdf

Languages necessary to complete the course:
Slovak, English

Notes:

Past grade distribution
Total number of evaluated students: 90

ABS	NEABS
100,0	0,0

Lecturers: prof. MUDr. PhDr. Alena Furdová, PhD., MPH

Last change: 14.12.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Medicine

Course ID:	**Course title:**
LF/L-PhD-021/22	Completion of the compulsory subject "Aspects of Clinical Research in Paediatrics"

Educational activities:
Type of activities:
Number of hours:
per week: per level/semester:
Form of the course: on-site learning, distance learning

Type, volume, methods and workload of the student - additional information
12 hours lectures/semester + 12 hours of self-study.
Lectures are held three times per semester in 4-hour sessions.
Lectures are held in person or online.

Number of credits: 10

Recommended semester:

Educational level: III.

Prerequisites:

Course requirements:
Compulsory attendance at lectures. Individual study. Preparation of a scientific review article for publication. Credits will not be awarded if the doctoral student does not attend lectures and submits a scientific article.
Scale of assessment (preliminary/final): Completion of the course is assessed by the classification grades "completed" or "not completed".

Learning outcomes:
The student will gain knowledge of current scientific research areas in paediatrics and subspecialties in field of paediatrics. Student should practically understand the principles of reading scientific articles and their interpretation, as well as the interpretation of results of clinical studies in internal medicine and its disciplines. Students will learn to work with current EBM recommendations/ guidelines (from all fields of internal medicine) and how to implement them into daily medical practice and their research activities.

Class syllabus:
The student will expand the knowledge gained in other subjects of the study (Dissertation Thesis I., Introduction to Scientific Research 1., 2.) but with a targeted focus on children disease and scientific research in the fields of paediatrics according to the student's focus. Specifically, the subject deals with the creation of the cohort, methodology and processing of results in scientific research activities in the fields of paediatrics.
We will teach the student scientific research with an emphasis on interdisciplinary cooperation with other departments at Faculty of Medicine. The student must process an overview topic in the specified issue in the form of a publication.

The student is acquainted with the latest recommendations for the treatment of diseases in the field of paediatrics, how they are implemented in practice in the current health care system in Slovakia.

Recommended literature:
Websites of national and international professional societies focused on paediatrics and subspecialties of paediatrics.
International and national guidelines for paediatrics and its disciplines.
Materials and professional articles provided by teachers.

Languages necessary to complete the course:
Slovak, English

Notes:

Past grade distribution
Total number of evaluated students: 0

ABS	NEABS
0,0	0,0

Lecturers: doc. MUDr. Vladimír Bzdúch, CSc., doc. MUDr. Peter Čižnár, CSc., doc. MUDr. Tomáš Dallos, PhD., prof. MUDr. Alexandra Kolenová, PhD., doc. MUDr. Peter Olejník, PhD., prof. MUDr. Ľudmila Podracká, CSc.

Last change: 13.12.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Medicine	
Course ID: LF/L-PhD-003/22	**Course title:** Completion of the compulsory subject "Introduction to scientific research 1."
Educational activities: **Type of activities:** **Number of hours:** **per week: per level/semester:** **Form of the course:** on-site learning, distance learning	
Type, volume, methods and workload of the student - additional information Tuition form: in person + self-study The recommended scope of tuition (in hours): 12 hours of lectures + 12 hours of self-study Within the study: lectures are divided into three 4-hour courses in the semester Study methods: in-person	
Number of credits: 10	
Recommended semester:	
Educational level: III.	
Prerequisites:	
Course requirements: presence minimum 75%, abstract or poster elaboration in the electronic form. The final test was completed (evaluation A for 75% of points, B 70%, C 65%, D 60%, E 55%). Credits will not be granted if the doctoral student does not elaborate on the abstract of the poster and does not gain a minimum of 55% in the final test. Scale of assessment (preliminary/final): Final classification: 'passed', 'failed'	
Learning outcomes: The subject graduate masters the tenets of the scientific work, has built the system of scientific thinking and scientific work, masters the methodology of the scientific work, he/she knows how to prepare an abstract, poster and a scientific publication. He/she masters the ethical and legal aspects of experimental and clinical research and can present the scientific research results in publication and lecture activities. The graduate from the subject masters the work with electronic information sources (licensed and freely available). How to work with these sources and the ability to utilise them in the scientific-research and pedagogical work.	
Class syllabus: Why science and research are essential. Ethical principles in science and research. Clinical observations and clinical studies. Types of presentations at scientific events. Tenets of rhetoric and communication. How to prepare a scientific lecture. How to select and read scientific articles. Result processing and analysis. How to prepare a poster presentation. How to write parts of the scientific publication How to write a scientific article. How to proceed the scientific article into the journal. How to publish scientific results. Basic information on the organisation of libraries at CU. Academic Library of FM	

CU. Databases produced at CU. Orientation in the collected online catalogue of the faculty libraries. Database of the publication activities. The way of searching in the databases of the publication activity according to various selective criteria. Collective catalogue of SR periodicals. Project CVTI ST – the National Information System of the Support for Research and Development in Slovakia → access to electronic information sources. Abstract databases. Full-text databases. Electronic journal archives. Scientometric databases. Guideline on publication activities. Categorisation of the publication activities. Categorisation of responses. Current journals. Scientometric indicators. Medicine based on evidence. Reference managers.

Recommended literature:

Z. Zelinková: Úvod do vedeckej práce pre študentov medicíny a doktorandov medicínskych odborov, 2012, 65 s., elektronická kniha dostupná na web stránke LF UK
P. Celec: Ako publikovať v biomedicínskych vedách, 2012, 55 s., elektronická kniha dostupná na web stránke LF UK
I. Hulín et al: Úvod do vedeckého bádania 1, SAP, Bratislava 2003, 553 s
I.Hulín et al: Úvod do vedeckého bádania 2, Dialógy, úvahy a zamyslenia, SAP, Bratislava 2005, 531 s.
Library research tutorials and guides [online]. Owned by: Janis McKenzie. Burnaby: Simon Fraser University Library. Last Modified: 9 April 2018. [cit. 2018-05-07]. Available on the internet: https://www.lib.sfu.ca/help/research-assistance/tutorials

Languages necessary to complete the course:
Slovak, English

Notes:

Past grade distribution
Total number of evaluated students: 177

ABS	NEABS
100,0	0,0

Lecturers: prof. MUDr. Viera Štvrtinová, PhD., prof. RNDr. Ivan Varga, PhD., prof. MUDr. Jozef Záhumenský, PhD.

Last change: 09.12.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Medicine

Course ID:	**Course title:**
LF/L-PhD-004/22	Completion of the compulsory subject "Introduction to scientific research 2."

Educational activities:
Type of activities:
Number of hours:
per week: per level/semester:
Form of the course: on-site learning, distance learning

Type, volume, methods and workload of the student - additional information
Tuition form: in person + self-study
The recommended scope of tuition (in hours): 12 hours of lectures + 12 hours of self-study
Within the study: lectures are divided into three 4-hour courses in the semester
Study methods: in-person

Number of credits: 10

Recommended semester:

Educational level: III.

Prerequisites:

Course requirements:
presence minimum 75% and completion of the final test (over 60%).
Scale of assessment (preliminary/final): Final classification: ‘passed’, ‘failed’

Learning outcomes:
basic knowledge of scientific procedures in the medical research, forming and testing of scientific hypothesises, their connection with basic experimental and clinical designs, basis of statistical evaluation of medical data, practical mastering of descriptive statistics in the text, table and graphic form, testing intergroup and intragroup differences and relations in the most frequently occurring situations. The subject graduate masters the tenets of the lecture presentation and the work defence, which can gather the information from the scientific research to present in the table and graphic form in the publishing and lecture form.

Class syllabus:
1. The relation between medicine based on evidence and statistics, medical experiment/clinical study, research hypothesis, 2. Work with the data file, descriptive statistics, data division, graphic date presentation, extreme deviations (data transformation, division normalisation), the importance of estimating the size of choice 3. Introduction to testing, statistical hypotheses, 4. Parametric tests of significance for one or two selections, non-parametric alternatives, 5. The significance tests compare more than two means – analyses of variance (ANOVA) methods of multiple comparisons, non-parametric alternatives, 6. Contingency tables and statistics based on chi2 tests, significance tests for proportions, methods used in population and diagnostic-based research, 7. Correlation, regression, multiple regression, 8. Logistic regression, Kaplan-Meier survival analysis, Cox model of proportionate risk.

The subject also focuses on the possibilities and ways of MS Office utilisation in the research and presentations. It deals with MS PowerPoint usage in the correlation of information into presentations usable at lectures and defences of final theses. Insertion of texts, images, tables, graphs, hypertext links to existing external sources. It involves the work with graphic templates, animations and various other effects. In the explanation, there are involved essential principles of creation and presentation of presentation slides. Another aim of the course is to utilise several functions of the programme MS Excel to present information in the table form and subsequent transformation of selected data to the graph. The subject is oriented to the creation of tables, data insertion, correct cell formation, framing, background colouring of columns and rows, calculations in the tables using mathematical, statistical, text and date functions, creation of graphs and formatting of graphical elements at tables with high data content there is explained ordering and filtration of data according to multiple criteria.

Recommended literature:

WACZULÍKOVÁ Iveta a Peter SLEZÁK. Introductory Biostatistics. Comenius University in Bratislava, 2015. ISBN 978-80-223-3938-4

ZVÁROVÁ Jana. Základy statistiky pro biomedicínské obory. Praha: Karolinum, 2011. ISBN 80-71-84-786-0

LANG Thomas A. and Michelle SECIC. How to report statistics in medicine: annotated guidelines for authors, editors, and reviewers. Philadelphia: American College of Physicians, 1997. ISBN 0-943126-44-4.

Languages necessary to complete the course:

Notes:

Past grade distribution

Total number of evaluated students: 152

ABS	NEABS
100,0	0,0

Lecturers: prof. MUDr. Alexandra Bražinová, PhD., MPH, prof. MUDr. Daniela Ostatníková, PhD., prof. MUDr. Ján Pečeňák, CSc.

Last change: 12.12.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Medicine	
Course ID: LF/L-PhD-005/22	**Course title:** Completion of the compulsory subject "Introduction to scientific research 3."
Educational activities: **Type of activities:** lecture / independent work **Number of hours:** **per week:** **per level/semester:** 12s / 12s **Form of the course:** on-site learning, distance learning	
Type, volume, methods and workload of the student - additional information Tuition form: in person + self-study The recommended scope of tuition (in hours): 12 hours of lectures + 12 hours of self-study Within the study: lectures are divided into three 4-hour courses in the semester Study methods: in-person	
Number of credits: 10	
Recommended semester:	
Educational level: III.	
Prerequisites:	
Course requirements: The condition of granting credits is min. 100% presence at lectures and completion of the final test Scale of assessment (preliminary/final): Final classification: ‘passed’, ‘failed’	
Learning outcomes: The curse is focused on planning, assessing the clinical students and analysis of clinical data, and planning of scientific grant projects. It involves four sections: 1 a) general introduction to the clinical studies, 2) division of clinical studies, the protocol of a clinical study, 3) introduction to the correct clinical practice 4) forms for the elaboration of a scientific grant project. At the end of the course, the participants will be evaluated based on the presented issues.	
Class syllabus: Concise subject structure: 1) Introduction to clinical studies - why clinical studies are essential, medicine based on evidence - clinical study aims - study parameters – accidental and systemic error - test sensitivity - internal and external validity 2) Study division - design of clinical studies, file selection, calculation of file frequency - clinical protocol - basics of file statistics – validity, file robusticity, types of analysed data, analysis interpretation 3) Introduction to good clinical practice (GCP)	

- GCP historical background
- basic concepts: sponsor, investigator, ethical committee, monitor, audit
- ŠUKL role
4) Elaboration of the scientific grant project
– GUK (Comenius University Grants)
- VEGA grants
- KEGA grants
- APVV projects

Recommended literature:
Lecture handouts

Languages necessary to complete the course:
Slovak, English

Notes:

Past grade distribution
Total number of evaluated students: 143

ABS	NEABS
100,0	0,0

Lecturers: prof. MUDr. Michal Mego, DrSc., prof. MUDr. Boris Mravec, PhD., prof. MUDr. Fedor Šimko, CSc.

Last change: 12.12.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Medicine	
Course ID: LF/L-PhD-012/22	**Course title:** Completion of the compulsory subject "New Medicaments and Strategies in Pharmacotherapy"
Educational activities: **Type of activities:** **Number of hours:** **per week: per level/semester:** **Form of the course:** on-site learning, distance learning	
Type, volume, methods and workload of the student - additional information Recommended scope of tuition (in hours): 12 hours of lectures + 12 hours of self-study Within the study: lectures are divided into three 4-hour courses in the semester Study methods: in-person	
Number of credits: 10	
Recommended semester:	
Educational level: III.	
Prerequisites:	
Course requirements: compulsory presence at lectures and a minimum of 60% of points in the final written test Scale of assessment (preliminary/final): Final evaluation: 'Passed', 'failed'	
Learning outcomes: Acquiring new knowledge in strategy in developing new drugs at a general level with the impact on the safety aspects. The doctoral student also gains the latest knowledge in developing new drugs in selected clinical disciplines like cardiology, endocrinology, psychiatry, neurology, rheumatology and oncology. The subject graduate will understand drug evaluation principles from medicine based on evidence (the ratio benefit/risk).	
Class syllabus: Strategy in the drug development with the aspect on drug safety. Rational methods of drug development. New drugs and strategies of pharmacotherapy in cardiology. New drugs and strategies of pharmacotherapy in endocrinology. New drugs and strategies of pharmacotherapy in neurology. New drugs and strategies of pharmacotherapy in rheumatology. New drugs and strategies of pharmacotherapy in oncology.	
Recommended literature: Kristová, V., Wawruch, M., Tisoňová, J. a kol. Kardiovaskulárne liečivá. Bratislava: Univerzita Komenského, 2011. 238 s. ISBN 978-80-223-2964-4. Kriška, M. a kol. Memorix klinickej farmakológie a liekov. Bratislava: SAP, 2006. 610 s. ISBN 80-89104-92-4. Magulová, L., Božeková, L., Kriška, M., Interakcie liečiv v klinickej praxi. 2. dopl. a uprav. Vyd. Bratislava: SAP, 2004. 333 s. ISBN 80-89104-53-3.	

Kriška M (Ed). Riziko liekov v medicínskej praxi. Bratislava: Slovak Academic Press, 2000. 474 s. ISBN 80-88908-58-2.
Wawruch, M., Laššánová, M., Tisoňová, J. Kapitoly z klinickej farmakológie. Bratislava: Univerzita Komenského, 2012. 176 s. ISBN 978-80-223-3140-1.
Pečeňák J., Kořínková V. a kol. Psychofarmakológia. Wolters Kluwer 2016. 666s., ISBN 978-80-8168-542-2.
Brenner GM, Stevens CM. Pharmacology. 5th ed. Philadelphia: Saunders Elsevier, 2018. 540 p. ISBN 978-0-323-39166-5.

Languages necessary to complete the course:
Slovak, English

Notes:

Past grade distribution
Total number of evaluated students: 0

ABS	NEABS
0,0	0,0

Lecturers: doc. PharmDr. Andrea Gažová, PhD., prof. MUDr. Martin Wawruch, PhD.

Last change: 13.12.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Medicine	
Course ID: LF/L-PhD-078/22	**Course title:** Completion of the compulsory subject "New Trends Medical Microbiology and Immunology"
Educational activities: **Type of activities:** **Number of hours:** **per week:** **per level/semester:** **Form of the course:** on-site learning, distance learning	
Number of credits: 10	
Recommended semester:	
Educational level: III.	
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

ABS	NEABS
100,0	0,0

Lecturers: prof. MUDr. Milan Buc, DrSc., doc. MUDr. Mária Bucová, CSc., doc. RNDr. Vladimíra Ďurmanová, PhD., doc. MUDr. Adriana Liptáková, PhD., MPH, doc. Mgr. Ivana Shawkatová, PhD.
Last change:
Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Medicine	
Course ID: LF/L-PhD-026/22	**Course title:** Completion of the compulsory subject "New Trends in Dentistry and Maxillofacial Surgery"
Educational activities: **Type of activities:** **Number of hours:** **per week: per level/semester:** **Form of the course:** on-site learning, distance learning	
Type, volume, methods and workload of the student - additional information 12 hours lectures/semester + 12 hours of self-study. Lectures are held three times per semester in 4-hour sessions. Lectures are held in person	
Number of credits: 10	
Recommended semester:	
Educational level: III.	
Prerequisites:	
Course requirements: To complete the course, attendance at lectures is required + successful completion of the final test. Scale of assessment (preliminary/final): Subject completion is assessed by the classification grades passed or did not pass	
Learning outcomes: By completing the course, the student will gain sufficient information on the dissertation thesis project current issues following the specifics of particular topics. This amount of knowledge is essential for the firmly established theoretical skills of the graduate from the view of his/her knowledge. But it also supports his potential in the broad field of applied practice. Undoubtedly, the results will reflect in the student's overview in methodological approaches in the subject issues.	
Class syllabus: The subject Dissertation thesis I. is part of doctoral student's study activities. It gains exclusively individual character regarding the specifics of the dissertation thesis topics. Its essential structure is noticeable already in the frame of the individual study plan of a doctoral student. The subject is essential, especially from understanding the essential theoretical and methodological aspects of the solved dissertation thesis, emphasising self-study and consultations with the supervisor and a broad spectrum of consultants. It contributes to creating the doctoral student's potential in his/her further (scientific) period of his/her study.	
Recommended literature: Without the specification regarding the character of the dissertation thesis. The recommended literature is a part of the individual study plan of the doctoral student.	
Languages necessary to complete the course:	

Slovak combined with English

Notes:

Past grade distribution
Total number of evaluated students: 2

ABS	NEABS
100,0	0,0

Lecturers: doc. MUDr. Ladislav Czakó, PhD., MPH, doc. MUDr. Dušan Hirjak, PhD., prof. MUDr. Peter Stanko, PhD., doc. MUDr. Andrej Thurzo, PhD.

Last change: 09.12.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Medicine

Course ID:	**Course title:**
LF/L-PhD-007/22	Completion of the compulsory subject "New Trends in Dermatovenereology"

Educational activities:
Type of activities:
Number of hours:
per week: per level/semester:
Form of the course: on-site learning, distance learning

Type, volume, methods and workload of the student - additional information
12 hours lectures/semester + 12 hours of self-study.
Lectures are held three times per semester in 4-hour sessions.
Lectures are held in person

Number of credits: 10

Recommended semester:

Educational level: III.

Prerequisites:

Course requirements:
To complete the course, attendance at lectures is required + successful completion of the final test.
Scale of assessment (preliminary/final): Final classification: 'passed', 'failed'

Learning outcomes:
The student will gain knowledge in the field of dermatovenereology. He will master the principles of etiopathogenesis, diagnostics, therapy of skin and venereal diseases and most modern examination methods and therapeutic approaches in dermatovenereology. He will learn to work independently, process the results, statistically evaluate, interpret and present them in the form of lectures and publications.

Class syllabus:
The course is aimed at acquianting of PhD. students with new research trends in the field of dermatovenereology. New findings in the etiopathogenesis of genetically determined, autoimmune and autoinflammatory diseases. Modern diagnostic procedures in skin and venereal diseases. Non-invasive diagnostic and therapeutic methods. Therapeutic approaches leading to more effective topical therapy. Personalised systemic therapy of selected dermatoses. Evaluation of effectiveness of treatment and impact on the quality of life of the patient. Epidemiological aspects of skin and venereal diseases.

Recommended literature:
Sevon Kang: Fitzpatrick's Dermatology, Ninth Edition, 2-Volume Set, 2019
Katsambas, AD., Lotti TM., Dessinioti, C., D´Erme AM.: European Handbook of Dermatological Treatments, Springer, 2015. 1579 s
Hercogová, J.et al.: Klinická dermatovenerologie I a II, Mladá Fronta 2019

Šimaljaková, M., Buchvald, D.: Dermatovenerológia, UK Bratislava, 2019, 543 s.. Švecová, D., Danilla.T.: Textbook of Dermatology. UK Bratislava, 2017, 384 s.

Languages necessary to complete the course:
Slovak and English

Notes:

Past grade distribution
Total number of evaluated students: 0

ABS	NEABS
0,0	0,0

Lecturers: doc. MUDr. Martin Boháč, PhD., doc. MUDr. Dušan Buchvald, CSc., prof. MUDr. Mária Šimaljaková, PhD., prof. MUDr. Danka Švecová, PhD.

Last change: 13.12.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Medicine	
Course ID: LF/L-PhD-008/22	**Course title:** Completion of the compulsory subject "New Trends in Gynaecology and Obstetrics"
Educational activities: **Type of activities:** **Number of hours:** **per week: per level/semester:** **Form of the course:** on-site learning, distance learning	
Type, volume, methods and workload of the student - additional information 12 hours lectures/semester + 12 hours of self-study. Lectures are held three times per semester in 4-hour sessions. Lectures are held in person	
Number of credits: 10	
Recommended semester:	
Educational level: III.	
Prerequisites:	
Course requirements: To complete the course, attendance at lectures is required + successful completion of the final test. Scale of assessment (preliminary/final): Final classification: 'passed', 'failed'	
Learning outcomes: The graduate has knowledge based on the current state of scientific knowledge in the field of gynecology and obstetrics, masters the scientific methods of human body research, knows the regulatory mechanisms and mechanisms of the origin and development of diseases of the mother and fetus. He acquired these skills through study, scientific research and independent creative activity in the field according to an individual study plan under the guidance of a supervisor. The graduate of the field has mastered the principles - methodology of scientific work, from the ability of orientation in the latest knowledge of the field, through the scientific formulation of the problem, assessment of the ethical side of scientific work, planning and implementation of scientific research, proper statistical and documentary processing of data obtained, their interpretation and presentation and their possible proposal for application in practice. A graduate of the study field of gynecology and obstetrics has independently the ability to work scientifically and bring their own solutions to problems in the field. He has the ability to contribute to the development of the field of study through scientific, pedagogical, publishing and popular science work.	
Class syllabus: Concise subject structure (Syllabus): The main topics of the core knowledge of the third degree of university studies in the field of Gynecology and Obstetrics are linked to deep knowledge of all areas of the field, mastering the methodology of scientific work and gaining new original scientific knowledge in the field	

through own creative work under the supervision of a supervisor. The doctoral study in the field of gynecology and obstetrics consists of a study and a scientific part.
Study part of the study program of Gynecology and obstetrics - functions, mechanisms and regulation of functions of mother and fetal body from the molecular level to the whole organism. Prevention, diagnosis, differential diagnosis and treatment of women's diseases.
Scientific part of the study program Gynecology and Obstetrics - Scientific research of a current problem in the stated field, or a multidisciplinary problem with a focus on the area of gynecology and obstetrics. Mastering the principles and methodology of scientific experimental work and the relevant part of the work in clinical research. The scientific part of the study program has a decisive advantage in doctoral studies in the field of gynecology and obstetrics. The dissertation examination must prove that the student has the ability to independently acquire theoretical and practical knowledge, control them and be able to transform them into a comprehensive form (written part). The defense of the dissertation must meet the criteria of proving ability and creative activity in the field of research by acquiring one's own knowledge, mostly by independent scientific work under the supervision of a supervisor. The study of gynecology and obstetrics in the third degree is covered by the study credit system. For granting credits, the credit transfer system and other requirements is a binding credit system for doctoral studies, approved by the Scientific Board of the Faculty.

Recommended literature:

Borovský, M. a kol. Gynekologická endokrinológia. Bratislava: Herba, 2016. 248 s. ISBN 978-80-89631-57-5.
Dosedla, E. Moderný cisársky rez. Martin: Osveta, 2022. 141 s. EAN 9788080635077
Marešová, P. a kol. Moderní postupy v gynekologii a porodnictví. Praha: Maxdorf, 2022. 768 s. ISBN 978-80-7345-709-9
Rob, L. A kol. Gynekologie. Praha: Galén, 2022. 356 s. ISBN 978-80-7492-426-2
Hájek, Z. a kol. Porodnictví. Praha: Grada, 2014. 518 s. ISBN 978-80-247-4529-9

Languages necessary to complete the course:
Slovak and English

Notes:

Past grade distribution
Total number of evaluated students: 1

ABS	NEABS
100,0	0,0

Lecturers: prof. MUDr. Miroslav Borovský, CSc., doc. MUDr. Vladimír Ferianec, PhD., doc. MUDr. Miroslav Korbeľ, CSc., doc. MUDr. Alexandra Krištúfková, PhD., prof. MUDr. Kamil Pohlodek, PhD., MPH, doc. MUDr. Mikuláš Redecha, PhD., doc. MUDr. Martin Redecha, PhD., doc. MUDr. Martin Šimko, PhD., doc. MUDr. Peter Štencl, CSc., prof. MUDr. Jozef Záhumenský, PhD.

Last change: 13.12.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Medicine	
Course ID: LF/L-PhD-010/22	**Course title:** Completion of the compulsory subject "New Trends in Hygiene, Epidemiology and Social Medicine"
Educational activities: **Type of activities:** **Number of hours:** **per week: per level/semester:** **Form of the course:** on-site learning, distance learning	
Type, volume, methods and workload of the student - additional information 12 hours lectures/semester + 12 hours of self-study. Lectures are held three times per semester in 4-hour sessions. Lectures are held in person	
Number of credits: 10	
Recommended semester:	
Educational level: III.	
Prerequisites:	
Course requirements: To complete the course, attendance at lectures is required + successful completion of the final test. Scale of assessment (preliminary/final): Final classification: 'passed', 'failed'	
Learning outcomes: After successful completion of the course the graduate will gain knowledge about the patterns of environmental impact on the health of the population, the protection and promotion of health of the population and the individual, the principles of prevention, the importance of social determinants of health and basic legislation in this area. The graduate will be able to explain the causes and mechanisms of health inequalities, to understand the special health needs of vulnerable groups and to obtain knowledge on the basic human rights and obligations to protect them in the medical practice. The graduate will gain knowledge on epidemiologic situation of the most frequent communicable and non-communicable diseases in the world and their determinants, information on population health status monitoring, ability to define basic epidemiologic methods and their use for monitoring and assessment of disease prevalence, ability to define strength of evidence generated by epidemiologic studies and to interpret their use in evidence-based medicine. The graduate of the course knows the basic methods of monitoring the factors of internal and external environment and the health status of individuals and population groups in order to protect health and prevent disease, can communicate with the public on environmental, behavioral and psychosocial factors and health at an appropriate level, cooperates with public health professionals and can work independently in the field of counseling, can apply the principles of equity and non-discrimination in medical practice, taking into account the specific health care needs of vulnerable groups, can identify and resolve human rights violation issues in medical practice. The graduate is able to use basic epidemiologic methods to describe prevalence of specific disease and analyse its assosiaction with determining factors, has a skill to critically read and evaluate outcomes of	

epidemiologic studies published in scientific literature - is able to assess the use of methods, to interpret the results and their use in clinical practice and to assess the study limitations.

Class syllabus:

Concise subject structure (Syllabus):

Living conditions and health. Health risk assessment and health impact assessment. Education, training, lifestyle in relation to health. The environment and its chemical, physical, biological and psychosocial factors. Nutritional health risks. Environmental factors in relation to infectious diseases. Environment, lifestyle and chronic diseases. Basics of psychohygiene. Environmental risks of children and young adults. Work and health, risk factors. Hospital hygiene, outpatient facilities and inpatient wards. Social determinants of health and health inequities. Health and human rights. Health and health care for vulnerable groups of population. Epidemiologic situation of communicable and noncommunicable diseases in the world, Europe and in the Slovak Republic. Burden of diseases. Population health indicators. Epidemiologic methods - description and analysis. Epidemiologic studies. Epidemic process, classification and prevention of infectious diseases. Immunisation and vaccine effectiveness assessment. Epidemiology and prevention of nosocomial infections.Risk factors and prevention of the most frequent noncommunicable diseases. Importance of epidemiologic monitoring and assessment for evidence based medicine.

Recommended literature:

Ševčíková Ľ. and contributors: Hygiene – Environmental 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.
Fabiánová, E., Bátora, I. Occupational Health and Toxicology. 1st Ed. Bratislava: Comenius University, 2015. 146 p. ISBN 978-80-223-3931-5.
Kostičová M. (ed.). Social Medicine. Bratislava: Comenius University in Bratislava, 2015
Špaleková M. (ed.) Epidemiology for Study of Public Health. Volume 1 & 2. Comenius University in Bratislava. 2015
Celentano D. Gordis Epidemiology. 6th Edition. Elsevier Science 2019. ISBN 0323552293

Languages necessary to complete the course:

Slovak and English

Notes:

Past grade distribution

Total number of evaluated students: 4

ABS	NEABS
100,0	0,0

Lecturers: prof. MUDr. Ľubica Argalášová, PhD., prof. MUDr. Alexandra Bražinová, PhD., MPH, doc. MUDr. Michaela Kostičová, PhD., MPH

Last change: 13.12.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Medicine

Course ID:	**Course title:**
LF/L-PhD-076/22	Completion of the compulsory subject "New Trends in Medical Biology and Clinical Genetics"

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

Number of credits: 10

Recommended semester:

Educational level: III.

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

ABS	NEABS
100,0	0,0

Lecturers: doc. MUDr. Daniel Böhmer, PhD., doc. RNDr. Ľuboš Danišovič, PhD., doc. Ing. Helena Gbelcová, PhD., prof. RNDr. Vanda Repiská, PhD., MPH

Last change:

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Medicine

Course ID:	**Course title:**
LF/L-PhD-013/22	Completion of the compulsory subject "New Trends in Medical Neuroscience"

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

Type, volume, methods and workload of the student - additional information
12 hours lectures/semester + 12 hours of self-study.
Lectures are held three times per semester in 4-hour sessions.
Lectures are held in person

Number of credits: 10

Recommended semester:

Educational level: III.

Prerequisites:

Course requirements:
To complete the course, attendance at lectures is required + successful completion of the final test.
Scale of assessment (preliminary/final): Final classification: 'passed', 'failed'

Learning outcomes:
By attending the course the student will get information on current trends in medical neuroscience. The students will obtain up-to date knowledge on pathomechanisms of neurodevelopmental disorders and neurodegenerative diseases and study the research outcomes on the level of cell cultures, animal experiments and human studies. The student will be provided with concise information on translation of basic research into clinical practice. The main contribution of the course is to understand the interweaving between the theoretical knowledge, outcomes of experimental animal research and clinical research. The course will create the base for cooperation among theoretical and clinical disciplines in application of evidence-based knowledge into students future clinical or scientific practice.

Class syllabus:
The course is focused on new trends in medical neuroscience. Students attending the course will get information about the research advances relating to peripheral and central nervous system, they will learn about etiopathogenesis of neurological diseases and psychiatric disorders, the content will help students understand clinical applications of theoretical knowledge on brain and its functions in prevention of brain disorders and management of brain diseases. The course lectures will provide the advanced knowledge on gender specific approach to brain research and on the regulatory effects of nervous system on body organs, behaviour and cognition. Students will obtain up-to-date information on psychopharmacology and new pharmacotherapy in treatment of mental disorders, and on the latest experimental methods in neuroscience and brain research. The students will

be exposed to the interprofessional concept of neuroscience applicable in precise personalized medicine.

Recommended literature:
Mark Bear, Barry Connors, Michael Paradiso, eds. Neuroscience: Exploring the Brain, Enhanced 4th Edition: Exploring the Brain, Enhanced Edition, Jones and Bartlett Learning, 2020.
Eric Kandel, John D. Koester, Sarah Mack, Steven Siegelbaum, eds. Principles of Neural Science, McGraw Hill 2021.
Handouts and other materials offered by lecturers

Languages necessary to complete the course:
Slovak, English

Notes:

Past grade distribution
Total number of evaluated students: 2

ABS	NEABS
100,0	0,0

Lecturers: doc. RNDr. Ján Bakoš, PhD., prof. MUDr. Boris Mravec, PhD., prof. MUDr. Daniela Ostatníková, PhD., prof. MUDr. Stanislav Šutovský, PhD.

Last change: 13.12.2022

Approved by:

COURSE DESCRIPTION

<table>
<tr><td colspan="2">Academic year: 2022/2023</td></tr>
<tr><td colspan="2">University: Comenius University Bratislava</td></tr>
<tr><td colspan="2">Faculty: Faculty of Medicine</td></tr>
<tr><td>Course ID:
LF/L-PhD-077/22</td><td>Course title:
Completion of the compulsory subject "New Trends in Medical, Clinical and Pharmacological Biochemistry"</td></tr>
<tr><td colspan="2">Educational activities:
Type of activities:
Number of hours:
per week: per level/semester:
Form of the course: on-site learning, distance learning</td></tr>
<tr><td colspan="2">Number of credits: 10</td></tr>
<tr><td colspan="2">Recommended semester:</td></tr>
<tr><td colspan="2">Educational level: III.</td></tr>
<tr><td colspan="2">Prerequisites:</td></tr>
<tr><td colspan="2">Course requirements:</td></tr>
<tr><td colspan="2">Learning outcomes:</td></tr>
<tr><td colspan="2">Class syllabus:</td></tr>
<tr><td colspan="2">Recommended literature:</td></tr>
<tr><td colspan="2">Languages necessary to complete the course:</td></tr>
<tr><td colspan="2">Notes:</td></tr>
<tr><td colspan="2">Past grade distribution
Total number of evaluated students: 0</td></tr>
<tr><td colspan="2"><table>
<tr><td>ABS</td><td>NEABS</td></tr>
<tr><td>0,0</td><td>0,0</td></tr>
</table></td></tr>
<tr><td colspan="2">Lecturers: doc. RNDr. Monika Ďurfinová, PhD., prof. RNDr. Jana Muchová, PhD., prof. MUDr. Ladislav Turecký, CSc.</td></tr>
<tr><td colspan="2">Last change:</td></tr>
<tr><td colspan="2">Approved by:</td></tr>
</table>

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Medicine	
Course ID: LF/L-PhD-017/22	**Course title:** Completion of the compulsory subject "New Trends in Oncology"
Educational activities: **Type of activities:** **Number of hours:** **per week: per level/semester:** **Form of the course:** on-site learning, distance learning	
Type, volume, methods and workload of the student - additional information 12 hours lectures/semester + 12 hours of self-study. Lectures are held three times per semester in 4-hour sessions. Lectures are held in person	
Number of credits: 10	
Recommended semester:	
Educational level: III.	
Prerequisites:	
Course requirements: To complete the course, attendance at lectures is required + successful completion of the final test. Scale of assessment (preliminary/final): Final classification: 'passed', 'failed'	
Learning outcomes: The student will gain information on current issues and trends in oncology. They will get acquainted with biological aspects of cancer, with the latest epidemiological indicators of selected oncological diseases at home and in the world. He masters the principles of diagnosis and treatment of the most serious oncological diseases.	
Class syllabus: General oncology: biological aspects of cancer, carcinogenesis, cancer epidemiology, cancer pathology, classification, symptomatology and diagnosis of tumors, modalities of anticancer treatment: surgical treatment, radiotherapy, systemic treatment. Evaluation of treatment response. Social and psychological aspects of cancer. Special oncology: epidemiology, etiology, pathology, symptomatology, diagnostics, therapy, prognosis of selected cancers	
Recommended literature: 1. Kaušitz, J., Ondruš, D. et al.: General oncology. Bratislava: Solen, 2017. 608 pp. ISBN 978-80-89858-05-7. 2. Kaušitz, J., Ondruš, D. et al.: Special oncology. Bratislava: Solen, 2020. 712 pp. ISBN 978-80-89858-18-7.	
Languages necessary to complete the course: Slovak, English	
Notes:	

Past grade distribution Total number of evaluated students: 0	
ABS	NEABS
0,0	0,0
Lecturers: doc. MUDr. Ľuboš Drgoňa, CSc., doc. MUDr. Michal Chovanec, PhD., prof. MUDr. Michal Mego, DrSc., prof. MUDr. Dalibor Ondruš, DrSc.	
Last change: 13.12.2022	
Approved by:	

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Medicine	
Course ID: LF/L-PhD-016/22	**Course title:** Completion of the compulsory subject "New Trends in Ophthalmology"
Educational activities: **Type of activities:** **Number of hours:** **per week: per level/semester:** **Form of the course:** on-site learning, distance learning	
Type, volume, methods and workload of the student - additional information 12 hours lectures/semester + 12 hours of self-study. Lectures are held three times per semester in 4-hour sessions. Lectures are held in person	
Number of credits: 10	
Recommended semester:	
Educational level: III.	
Prerequisites:	
Course requirements: To complete the course, attendance at lectures is required + successful completion of the final test. Scale of assessment (preliminary/final): Final classification: 'passed', 'failed'	
Learning outcomes: The student will gain information on current issues and trends in Ophthalmology, diagnostics and treatment methods. The course content will enable the updating of knowledge in the field of diagnostic procedures in Ophthalmology. We will provide the graduate with a basis for further increase of his/her knowledge and skills in future clinical or scientific practice.	
Class syllabus: Basics of anatomy and physiology of the organ of sight, basics of diagnostic methods, operative procedures	
Recommended literature:	
Languages necessary to complete the course: Slovak and English	
Notes:	
Past grade distribution Total number of evaluated students: 1	

ABS	NEABS
100,0	0,0

Lecturers: prof. MUDr. PhDr. Alena Furdová, PhD., MPH, prof. MUDr. Anton Gerinec, CSc., doc. MUDr. Vladimír Krásnik, PhD., doc. MUDr. Jana Štefaničková, PhD., doc. MUDr. Dana Tomčíková, PhD.
Last change: 13.12.2022
Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Medicine	
Course ID: LF/L-PhD-018/22	**Course title:** Completion of the compulsory subject "New Trends in Orthopaedics"
Educational activities: **Type of activities:** **Number of hours:** **per week: per level/semester:** **Form of the course:** on-site learning, distance learning	
Type, volume, methods and workload of the student - additional information 12 hours lectures/semester + 12 hours of self-study. Lectures are held three times per semester in 4-hour sessions. Lectures are held in person	
Number of credits: 10	
Recommended semester:	
Educational level: III.	
Prerequisites:	
Course requirements: To complete the course, attendance at lectures is required + successful completion of the final test. Scale of assessment (preliminary/final): Final classification: 'passed', 'failed'	
Learning outcomes: The student will gain information on current issues and trends in prevention, research, diagnostics and treatment of diseases and injuries of locomotion system. The course content will enable the updating of knowledge in the field of scientific hypothesis formulation. Insight into the clinical orthopaedics. will provide the graduate with a basis for further increase of his/her knowledge and skills in future clinical or scientific practice.	
Class syllabus: 1-2nd year: study of scientific literature, attendance at domestic and international scientific congresses and symposias, establishment of the study aim 3.year. dissertation examination 4-5 year preparation of the dissertation thesis	
Recommended literature: Šimko P., Kokavec M.: Principy chirurgie Vb, Prima-Print Tovarniky, 2019, pp 781-1770 American academy of orthopaedic surgeons, Orthopaedic knowledge update, latest ed.	
Languages necessary to complete the course: Slovak, English	
Notes:	

Past grade distribution Total number of evaluated students: 0	
ABS	NEABS
0,0	0,0
Lecturers: prof. MUDr. Milan Kokavec, PhD., MPH, doc. MUDr. Boris Šteňo, PhD., doc. MUDr. Radoslav Zamborský, PhD., MPH	
Last change: 13.12.2022	
Approved by:	

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Medicine	
Course ID: LF/L-PhD-019/22	**Course title:** Completion of the compulsory subject "New Trends in Otorhinolaryngology"
Educational activities: **Type of activities:** **Number of hours:** **per week: per level/semester:** **Form of the course:** on-site learning, distance learning	
Type, volume, methods and workload of the student - additional information 12 hours lectures/semester + 12 hours of self-study. Lectures are held three times per semester in 4-hour sessions. Lectures are held in person	
Number of credits: 10	
Recommended semester:	
Educational level: III.	
Prerequisites:	
Course requirements: The student will gain information on current issues and trends in Otorhinolaryngology. The course content will enable the updating of knowledge in the field of Otorhinolaryngology Insight into the Otorhinolaryngology will provide the graduate with a basis for further increase of his/her knowledge and skills in future clinical or scientific practice. Scale of assessment (preliminary/final): Final classification: 'passed', 'failed'	
Learning outcomes: The student will gain information on current issues and trends in Otorhinolaryngology. The course content will enable the updating of knowledge in the field of Otorhinolaryngology Insight into the Otorhinolaryngology will provide the graduate with a basis for further increase of his/her knowledge and skills in future clinical or scientific practice.	
Class syllabus: Basics of scientific work in otorhinolaryngology – Active search for scientific information, identification of the scientific problem, processing of the working hypothesis, selection of appropriate methods of research and solution Basics of medical statistics, processing, interpretation and presention of results, preparationf of scientific grant application. Contemporary technology and trends in diagnostic methods in ORL, audiologic tests subjective, objective, audiogram, tympanogram, BERA, SSEP, OAE), vestibular testing (nystagmography, head impulse test). Endoscopic techniques in ORL (larynx, pharynx, trachea, paranasal sinuses, ear), imaging in ORL Clinical ORL diagnosis of basic orl diseases, larynx, pharynx, trachea, paranasal sinuses, ear, neck cranial base, adjacent anatomical spaces	

Surgicla methods in ORL
Novel techniques in phoniatry

Recommended literature:
Profant a kol.: Otorinolaryngológia (ARM333, 2000, 232s.),
Kabátová a kol. Audiológia, (Grada, 2012, 360s),
Jakubíková a kol.: Vrodené anomálie hlavy a krku (Grada, 2012, 244s)
Profant a kol Otológia, UK, 2022, 167s
Cummings Otolaryngology, Head and Neck Surgery Mosby, 5th edition, 2010)

Languages necessary to complete the course:
Slovak, English

Notes:

Past grade distribution
Total number of evaluated students: 1

ABS	NEABS
100,0	0,0

Lecturers: prof. MUDr. Milan Profant, CSc., doc. MUDr. Patrik Štefanička, PhD., doc. MUDr. Miroslav Tedla, PhD., MPH, doc. MUDr. RNDr. Lukáš Varga, PhD.

Last change: 13.12.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Medicine

Course ID:	**Course title:**
LF/L-PhD-022/22	Completion of the compulsory subject "New Trends in Psychiatry"

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

Type, volume, methods and workload of the student - additional information
12 hours lectures/semester + 12 hours of self-study.
Lectures are held three times per semester in 4-hour sessions.
Lectures are held in person

Number of credits: 10

Recommended semester:

Educational level: III.

Prerequisites:

Course requirements:
To complete the course, attendance at lectures is required + successful completion of the final test.
Scale of assessment (preliminary/final): Final classification: 'passed', 'failed'

Learning outcomes:
The graduate of the course will gain knowledge in the field of epidemiology, classification, etiology, diagnosis and treatment of mental disorders. Will be familiar with principles of classification in connection with current research findings on the etiology of mental disorders in the field of genetics, imaging and laboratory methods. He knows and can apply diagnostic scales to assess the symptoms and course of mental disorders. He is familiar with descriptive and inferential statistical methods and can interpret data from the published studies. He knows the mechanisms of action of various treatments. The knowledge based on the concept of a bio-psycho-social model of mental disorders will use for developing the hypotheses and the choice of research methods.

Class syllabus:
Epidemiology of mental disorders. Etiology of mental disorders. Changes in the central nervous system in mental disorders. Psychopathology and diagnostic tools for assessing the severity and change of symptoms. Examination methods in clinical psychiatry and in the neursoceince research. Biological and non-biological treatment methods in psychiatry. Design and methodology of research studies. Research data processing and publishing.

Recommended literature:
Global Burden of Disease publications series (https://www.thelancet.com/gbd)
Continuous monitoring of scientific journals.
American Psychiatric Association (Ed.). (2022). Diagnostic and statistical manual of mental disorders: DSM-5-TR (Fifth edition, text revision). American Psychiatric Association Publishing.

Hajdúk, M. (2020). Methodology and research designs in clinical psychology. Comenius University in Bratislava.
Pečeňák, J. (2014). Classification in psychiatry. Comenius University in Bratislava.
Pečeňák, J., Kořínková, V., & et al. (2016). Psychopharmacology. Wolters Kluwer.

Languages necessary to complete the course:
Slovak, English

Notes:

Past grade distribution
Total number of evaluated students: 0

ABS	NEABS
0,0	0,0

Lecturers: doc. MUDr. Ľubomíra Izáková, PhD., prof. MUDr. Ján Pečeňák, CSc., doc. MUDr. Jana Trebatická, PhD.

Last change: 13.12.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Medicine	
Course ID: LF/L-PhD-011/22	**Course title:** Completion of the compulsory subject "New Trends in Surgery"
Educational activities: **Type of activities:** **Number of hours:** **per week: per level/semester:** **Form of the course:** on-site learning, distance learning	
Type, volume, methods and workload of the student - additional information 12 hours lectures/semester + 12 hours of self-study. Lectures are held three times per semester in 4-hour sessions. Lectures are held in person	
Number of credits: 10	
Recommended semester:	
Educational level: III.	
Prerequisites:	
Course requirements: To complete the course, attendance at lectures is required + successful completion of the final test. Scale of assessment (preliminary/final): Final classification: 'passed', 'failed'	
Learning outcomes: The graduate of the doctoral study will acquire comprehensive theoretical knowledge of surgical disciplines, mastering the differential diagnosis of surgical diseases. The graduate will masters the principles of patient examination with differential diagnosis and patient treatment design. The graduate will be able to perform minor surgery and the will have the ability to assist in surgical procedures. Master the indication criteria for surgical diseases.	
Class syllabus: Within the doctoral study, work in departments, outpatient clinics and operating theaters of individual surgical clinics in the classification as a junior secondary doctor, participation in ward-rounds and seminars of clinics, assistance in operations, implementation of small diagnostic and therapeutic procedures. The doctoral study deals with the following topics: Organ transplants. Extensive liver resections. Intensive treatment in surgery. Surgical diseases of the esophagus, stomach, duodenum, small intestine, colon and rectum. Lung and mediastinal surgical diseases. Chest injuries. Surgical diseases and injuries in childhood. Comprehensive care for burns. Plastic surgery consultations. Ileus and peritonitis. Orthopedics consultations. Current trends in oncosurgery. Surgery of the liver, bile ducts and pancreas. Conservative and surgical treatment of fractures. Neurosurgery consultations. Urology consultations. Vascular surgery consultations. Divisio and treatment of shock. Circulatory and respiratory resuscitation. Principles of treatment of water and electrolyte turnover and acid-base balance in surgery. Diagnostic procedures and laparoscopic dexterity on the simulator. Simulation workplace.	

Recommended literature:

Breza a spol.: Všeobecná a špeciálna urológia II. vydanie, Bratislava UK 2010
Breza, J a kol.: Princípy chirurgie, Slovak Academic Press, 2016, 4.diel série
Cameron, J.: Current Surgical Therapy. 8th ed. London: Churchill Livingstone, 2004,
Coran G. Arnold at all.: Pediatric Surgery, Vol. 1, 2, Elsevier 2012,
Černý, J. (ed.): Chirurgia tráviacej rúry. 4 zv. Martin: Osveta, 1988
Černý, J. (ed.): Špeciálna chirurgia 2. Chirurgia brušných orgánov a retroperitonea, Martin: Osveta, 1992
Černý, J. (ed.): Špeciálna chirurgia. 4 zv. Martin: Osveta, 1988-1995.
Durdík, Š.: Vybrané kapitoly z onkologickej chirurgie. Bratislava: WillArt, 2009, 304s.
Ferko, A., Vobořil, Z. (ed.): Chirurgie v kostce. Praha: Grada, 2002. 596 s.
Haruštiak, S a kol.: Princípy chirurgie – kapitola 6- Neurochirurgia, Slovac Academic Press, 2010
Huťan M. a kol.:Základy všeobecnej a špeciálnej chirurgie. Bratislava UK2012 (198 s.)
Kaušitz, J. a kol.: Onkológia. VEDA, 663 s.
Kaušitz, J. a kol.: Špeciálna onkológia. Solen, 2020 692 s.
Kirk, R.M.: General Surgical Operations. 5th ed. London: Churchill Livingstone, 2006
Marek, V., Durdík, Š.: Akútna apendicitída – Včasná diagnostika a predoperačná rozvaha, 2021, 120s.
Ohrádka, B a kol: Špeciálna Chirurgia I, Univerzita Komenského v Bratislave, 2001
Ohrádka, B a kol: Špeciálna Chirurgia II, Univerzita Komenského v Bratislave, 2002
Olejník, J. (ed.): Perioperačný manuál chirurga. Bratislava: Ebner, 2002, 388 s.
Olejník, J. (ed.): Akútna pankreatitída. Bratislava: Ebner, 2002, 68 s.
Pechan, J.: Princípy chirurgie, PRIMA –PRINT, 2013, 3.diel série
Pokorný V. a kol.: Traumatológie. 1.vyd. 2012 Praha Triton (307 st.)
Sabiston Textbook of Surgery 20th Edition, Elsevier 2016
Siman, J. a kol.: Princípy chirurgie, Slovak Academic Press, 2007, 1.diel série
Šimko, P. a kol.: Princípy chirurgie, PRIMA –PRINT, 2019, 5.diel série A
Šimko, P. a kol.: Princípy chirurgie, PRIMA –PRINT, 2019, 5.diel série B
Škultéty, J. : Špeciálna chirurgia I., Univerzita Komenského v Bratislave, 2014
Štencl, J., Holéczy, P.: Základné laparoskopické operácie v chirurgii. Martin: Osveta, 2001. 131 s.
Šteňo J.: Neurochirurgia, s. 3-40. In: Ohrádka B. a kol.: Špeciálna chirurgia I. , 2. preprac. vyd. Bratislava: Univerzita Komenského, 2001, 201 s. ISBN 80-223-1620-2.
Šteňo J.: Neurochirurgia, s. 5-298 In: Haruštiak S., ed. Princípy chirurgie II. Bratislava: SAP, 2010, 848 s. ISBN 978-80-8095-053-8
Vidiščák, M. a kol.: Novorodenecká chirurgia I, M-Servis 2008
Vrtík, L. a kol.: Základy chirurgie, Univerzita Komenského v Bratislave, 2019
Way, L.W. (ed.): Současná chirurgická diagnostika a léčba. Praha: Grada, 2000, 1660 s.
Zacharias Zachariou: Pediatric Surgery Digest, Springer 2009
Zeman M., Krška Z. a kolektív: Chirurgická propedeutika tretie doplnené a prepracované vydanie 2013, Praha Grada 2013 (512 strán)

Languages necessary to complete the course:

Notes:

Past grade distribution

Total number of evaluated students: 2

ABS	NEABS
100,0	0,0

Lecturers: doc. MUDr. Jozef Babala, PhD., doc. MUDr. Martin Boháč, PhD., doc. MUDr. Ladislav Czakó, PhD., MPH, doc. MUDr. Marek Čambal, PhD., doc. MUDr. Ľudovít Danihel, PhD., prof. MUDr. Štefan Durdík, PhD., doc. MUDr. Jozef Fedeleš, CSc., doc. MUDr. František Horn, PhD., doc. MUDr. Michal Hulman, PhD., prof. MUDr. Ján Koller, CSc., doc. MUDr. Eliška Kubíková, PhD., MPH, prof. MUDr. Peter Labaš, CSc., prof. MUDr. Viktor Matejčík, CSc., doc. MUDr. Augustín Prochotský, CSc., doc. MUDr. Martin Sabol, PhD., doc. MUDr. Milan Schnorrer, CSc., doc. MUDr. Andrej Šteňo, PhD., MPH, PhDr. Michal Trnka, PhD., doc. MUDr. Marián Vician, CSc., doc. MUDr. Luděk Vrtík, CSc., doc. MUDr. Roman Záhorec, CSc.
Last change: 13.12.2022
Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Medicine	
Course ID: LF/L-PhD-024/22	**Course title:** Completion of the compulsory subject "New Trends in Urology"
Educational activities: **Type of activities:** **Number of hours:** **per week: per level/semester:** **Form of the course:** on-site learning, distance learning	
Type, volume, methods and workload of the student - additional information 12 hours lectures/semester + 12 hours of self-study. Lectures are held three times per semester in 4-hour sessions. Lectures are held in person	
Number of credits: 10	
Recommended semester:	
Educational level: III.	
Prerequisites:	
Course requirements: To complete the course, attendance at lectures is required + successful completion of the final test. Scale of assessment (preliminary/final): Final classification: 'passed', 'failed'	
Learning outcomes: The graduate masters the knowledge of the current state of scientific knowledge in the field of urology. Can orient himself / herself in the latest knowledge of the field, can scientifically formulate a professional problem, assess the ethical side of scientific work, plan and carry out scientific research, statistically and documentarily process the obtained data, correctly interpret and present and apply in clinical practice. Graduates in the field of urology have the ability to contribute to the development of their field through scientific, pedagogical and publishing activities	
Class syllabus: The study program is designed so that the graduate acquires the required knowledge and skills and at the same time has adequate time to solve the assigned scientific problem. The acquisition of theoretical knowledge, to which 1/3 of the study program is allocated, is concentrated in the first two years of study. It is realized in the form of specialized lectures, training courses, clinical seminars and self-study. The course is managed and supervised by a professional supervisor who evaluates the course of study once a semester by allocating credits (the allocation of credits is regulated by the Faculty Study Regulations approved by the Scientific Council and the Academic Senate). A comprehensive evaluation of the study part is a dissertation exam, by which the doctoral student demonstrates the required knowledge and mastery of the principles of scientific work (written work for the dissertation exam). The scientific part represents 2/3 of the study program, takes place throughout the study period. It is implemented by a comprehensive solution of a specified scientific problem in the field of urology. The course is organized by a professional trainer who once a year	

evaluates the fulfillment of the approved time schedule and allocates credits for scientific activities in accordance with the Study Regulations.
An integral part of the study program is the acquisition of skills, which is realized throughout the study by active work with literature, preparation of papers, continuous processing of research results and their presentation at conferences, preparation of publications, participation in undergraduate teaching and direct involvement in medical care of patients with urological diseases

Recommended literature:
Emil A. Tanagho a Jack W. McAninch. Smithova všeobecná urológia. Martin: Osveta 2006.
Alan W. Partin, Roger R. Dmochowski, Louis R. Kavoussi, Craig A. Peters a Alan J. Wein. Urology, 12th Edition. Elsevier. 2020

Languages necessary to complete the course:
Slovak, English

Notes:

Past grade distribution
Total number of evaluated students: 1

ABS	NEABS
100,0	0,0

Lecturers: prof. MUDr. Peter Bujdák, PhD., doc. MUDr. Branislav Trebatický, PhD., doc. MUDr. Stanislav Žiaran, PhD., MPH

Last change: 13.12.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Medicine	
Course ID: LF/L-PhD-023/22	**Course title:** Completion of the compulsory subject "New Trends in roentgenology and radiology"
Educational activities: **Type of activities:** **Number of hours:** **per week: per level/semester:** **Form of the course:** on-site learning, distance learning	
Type, volume, methods and workload of the student - additional information 12 hours lectures/semester + 12 hours of self-study. Lectures are held three times per semester in 4-hour sessions. Lectures are held in person	
Number of credits: 10	
Recommended semester:	
Educational level: III.	
Prerequisites:	
Course requirements: To complete the course, attendance at lectures is required + successful completion of the final test. Scale of assessment (preliminary/final): Final classification: 'passed', 'failed'	
Learning outcomes: The student will gain information on current issues and trends in the subject of roentgenology and radiology. The course content will enable the updating of knowledge in the field of all modern imaging methods such as ultrasonography (US), computed tomography (CT), magnetic resonance (MR) and interventional radiology, as also in hybrid imaging methods (eg PET / CT). Insight into the newer imaging technics and technologies will provide the graduate with a basis for further increase of his/her knowledge and skills in future clinical or scientific practice. He/she will be sufficiently prepared to work in research and to bring own solutions to the researched issues. Students will learn the ethical and social foundations of medical practice and they will actively present the results of their work by presentations and publications. He/she will be able to creatively apply the acquired knowledge in the practice and also to acquire the ability to develop own scientific discipline, especially applications in all areas of radiology. The student complies with all valid regulations on the use of ionizing radiation in diagnostics and therapy. The student will be familiar with identification of main health problems in the context of all diagnostic modalities, their importance in the diagnostic algorithm and in the patients personalized management. He/she will participate in multidisciplinary scientific research activities and will develop new diagnostic and treatment procedures, resp. introduces new hitherto unused modern methods into the routine practice. Knowledges, skills and abilities:	

- scientific research and bringing their own solutions to problems in the field of radiology,
- scientific formulation of problems,
- principles of scientific work,
- linking scientific research with practice,
- ethical, social and legal aspects of scientific work,
- principles of oral and written presentation of results,
- principles of statistical analysis,
- putting the results into practice,
- leading smaller teams of scientists, research and development staff,
- leading research projects and responsibility for comprehensive scientific and research problems in radiology,
- contribution to the development of the field of study,
- familiar with the principles of experiment design, clinical study.

Class syllabus:

Concise subject structure (Syllabus):

1.Basic knowledge

a / physical basis of imaging, including conventional X-ray, US, CT and MRI

b / quality control

c / radiation protection

d / radiation physics and radiobiology

e / anatomy, physiology and techniques related to radiological procedures

f / pharmacology and application of contrast agents

g / computer basics and statistics

h / knowledge of nuclear medicine

i/ use of arteficial inteligence

2.Pathological sciences

Knowledge of pathology and pathophysiology in relation to diagnostic and interventional radiology.

3. Clinical radiology

Excellent knowledge of clinical radiology. These should include:

a / Imaging of:

- chest and heart
- head and neck
- gastrointestinal system
- genitourinary system
- mammodiagnostics
- musculoskeletal system
- neuroradiology
- interventional radiology
- dental radiology

b / Imaging modalities

- ultrasonography
- conventional radiology
- comuited tomography
- MRI
- hybrid imaging methods (PET / CT or PET / MR)

c / knowledge of nuclear medicine

d / acute medicine - participation in emergency services

Scientific part:

a / research of a current scientific problem in radiology and radiology:

knowledge of the basic elements of scientific methods, including statistics, which are essential for understanding published works and supporting research at the workplace.
b / elaboration of the chosen topic from the practical, literary and statistical point of view,
b / knowledge of the principles of scientific work, connection to research.

Recommended literature:
Sutton, D. Textbook of Radiology and Imaging, Lippincott Williams & Wilkins; 7th edition (January 1, 2014) ISBN-13: ľ978-8131220160
High IF journals as Radiology, European Radiology, etc.
Handouts of lectures

Languages necessary to complete the course:
Slovak, English

Notes:

Past grade distribution
Total number of evaluated students: 2

ABS	NEABS
100,0	0,0

Lecturers: doc. MUDr. Andrej Klepanec, PhD., MPH, prof. MUDr. Viera Lehotská, PhD., doc. MUDr. Jana Poláková Mištinová, PhD.

Last change: 13.12.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Medicine

Course ID:	**Course title:**
LF/L-PhD-014/22	Completion of the compulsory subject "New trends in neurology"

Educational activities:
Type of activities:
Number of hours:
per week: per level/semester:
Form of the course: on-site learning, distance learning

Type, volume, methods and workload of the student - additional information
12 hours lectures/semester + 12 hours of self-study.
Lectures are held three times per semester in 4-hour sessions.
Lectures are held in person

Number of credits: 10

Recommended semester:

Educational level: III.

Prerequisites:

Course requirements:
To complete the course, attendance at lectures is required + successful completion of the final multiple-choice test - minimum 70 % (Test evaluation: A: 95 - 100 %, B: 89 – 94 %, C: 83 – 88 %, D: 77 – 82 %, E: 70 – 76 %)
Scale of assessment (preliminary/final): Final classification: 'passed', 'failed'

Learning outcomes:
The student will gain information on the application of new neuroscientific knowledge in clinical neurology for diagnostics and therapy. He commands the principles of diagnostic process and the actual position of laboratory and imaging methods in diagnostics of neurological disorders. The graduate has general knowledge of the pathophysiological mechanisms of the main neurological disorders and the actual possibilities of pharmacological interventions. The course will also provide state-of-the-art information on the position of innovative therapy (gene therapy, stem cells) in the management of neurological diseases.

Class syllabus:
Application of neuroscience knowledge in clinical neurology
Perspectives and Trends in the Diagnostics and Therapy of Cerebrovascular Disorders
Perspectives and Trends in the Diagnostics and Therapy of Dementias
Perspectives and Trends in the Diagnostics and Therapy of Paroxysmal Disorders
Perspectives and Trends in the diagnosis and therapy of Extrapyramidal Disorders
Perspectives and Trends in the diagnosis and therapy of Demyelinating Disorders

Recommended literature:
Benarroch E et al: Mayo Clinic Medical Neurosciences, 6th ed., Mayo Clinic Scientific Press 2018

Ropper AH et al: Adams & Victor's Principles of Neurology, 11th ed, The McGraw-Hill Companies, Inc, 2019
Samuels M: Samuels´s Manual of Neurological Therapeutics, 9th ed., Walters Kluwer 2017
Louis ED et al: Merritt´s Neurology, 14th ed., Walters Kluwer 2021

Languages necessary to complete the course:
Slovak, English

Notes:

Past grade distribution
Total number of evaluated students: 0

ABS	NEABS
0,0	0,0

Lecturers: doc. MUDr. Karin Gmitterová, PhD., prof. MUDr. Branislav Kollár, PhD., MPH, prof. MUDr. Peter Turčáni, PhD., prof. MUDr. Peter Valkovič, PhD.

Last change: 13.12.2022

Approved by:

COURSE DESCRIPTION

<table>
<tr><td colspan="2">Academic year: 2022/2023</td></tr>
<tr><td colspan="2">University: Comenius University Bratislava</td></tr>
<tr><td colspan="2">Faculty: Faculty of Medicine</td></tr>
<tr><td>Course ID:
LF/L-PhD-020/22</td><td>Course title:
Completion of the compulsory subject "New trends in pathological and forensic diagnostics"</td></tr>
<tr><td colspan="2">Educational activities:
Type of activities:
Number of hours:
per week: per level/semester:
Form of the course: on-site learning, distance learning</td></tr>
<tr><td colspan="2">Number of credits: 10</td></tr>
<tr><td colspan="2">Recommended semester:</td></tr>
<tr><td colspan="2">Educational level: III.</td></tr>
<tr><td colspan="2">Prerequisites:</td></tr>
<tr><td colspan="2">Course requirements:</td></tr>
<tr><td colspan="2">Learning outcomes:</td></tr>
<tr><td colspan="2">Class syllabus:</td></tr>
<tr><td colspan="2">Recommended literature:</td></tr>
<tr><td colspan="2">Languages necessary to complete the course:</td></tr>
<tr><td colspan="2">Notes:</td></tr>
<tr><td colspan="2">Past grade distribution
Total number of evaluated students: 0
<table>
<tr><td>ABS</td><td>NEABS</td></tr>
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</table></td></tr>
<tr><td colspan="2">Lecturers: prof. MUDr. Pavel Babál, CSc., doc. MUDr. Zuzana Čierna, PhD., doc. MUDr. Pavol Janega, PhD., prof. MUDr. Jozef Šidlo, CSc.</td></tr>
<tr><td colspan="2">Last change: 09.12.2022</td></tr>
<tr><td colspan="2">Approved by:</td></tr>
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COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Medicine

Course ID:	**Course title:**
LF/L-PhD-015/22	Completion of the compulsory subject "New trends in principle syndromes of pathologic physiology"

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

Type, volume, methods and workload of the student - additional information
12 hours lectures/semester + 12 hours of self-study.
Lectures are held three times per semester in 4-hour sessions.
Lectures are held in person

Number of credits: 10

Recommended semester:

Educational level: III.

Prerequisites:

Course requirements:
To complete the course, attendance at lectures is required + successful completion of the final test.
Scale of assessment (preliminary/final): Final classification: 'passed', 'failed'

Learning outcomes:
By completing the course the student acquires the ability to gain a deeper insight into the relationship between the origin and development of diseases of individual systems. He is able to present facts, analyze and evaluate in terms of detailed analysis and subsequent synthesis, which allows the student to comprehensively assess the pathophysiological changes not only of the primarily affected organ, but the entire system and organism. Such an approach also enables the creation of a potential design of a therapeutic procedure with subsequent correction of the pathological condition based on the analysis of various, but also anticipated changes in the organs and systems affected by the pathological event.

Class syllabus:
1. Hypertension as a complex syndrome.
2. Risk factors of the cardiovascular system.
3. Obesity as an (un) treatable disease of civilization.
4. Metabolic syndrome - threats and perspectives.
5. Endothelial dysfunction and atherosclerosis - is there a way out?
6. Heart failure as a central medical problem.
7. Pathogenesis of heart failure therapy - or happiness wishes ready?
8. COVID-19 - alteration of the renin-angiotensin system and the basis of possible therapy.
9. Chronotherapy of hypertension - a fundamental problem of current hypertension?
10. Heart rate and age - main risk factors?

11. New antidiabetic drugs SGLT2 inhibition and heart failure - miracles happen.
12. Medicine of major clinical trials - disappointments and perspectives: is everything different?

Recommended literature:

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 0

ABS	NEABS
0,0	0,0

Lecturers: doc. MUDr. Tomáš Baka, PhD., prof. MUDr. Beáta Mladosievičová, CSc., prof. MUDr. Jana Radošinská, PhD., prof. MUDr. Fedor Šimko, CSc.

Last change: 13.12.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Medicine	
Course ID: LF/L-PhD-025/22	**Course title:** Completion of the compulsory subject "Scientific Aspects of Clinical Research in Internal Medicine"
Educational activities: **Type of activities:** **Number of hours:** **per week: per level/semester:** **Form of the course:** on-site learning, distance learning	
Type, volume, methods and workload of the student - additional information 12 hours lectures/semester + 12 hours of self-study. Lectures are held three times per semester in 4-hour sessions. Lectures are held in person or online.	
Number of credits: 10	
Recommended semester:	
Educational level: III.	
Prerequisites:	
Course requirements: Compulsory attendance at lectures. Individual study. Preparation of a scientific review article for publication. Credits will not be awarded if the doctoral student does not attend lectures and submits a scientific article. Scale of assessment (preliminary/final): Granting credits for completing the course and preparing the publication.Completion of the course is assessed by the classification grades "completed" or "not completed".	
Learning outcomes: The student will gain knowledge of current scientific research areas in internal medicine and its fields. Student should practically understand the principles of reading scientific articles and their interpretation, as well as the interpretation of results of clinical studies in internal medicine and its disciplines. Students will learn to work with current EBM recommendations/guidelines (from all fields of internal medicine) and how to implement them into daily medical practice and their research activities.	
Class syllabus: The student will expand the knowledge gained in other subjects of the study (Dissertation Thesis I., Introduction to Scientific Research 1., 2.) but with a targeted focus on internal medicine and scientific research in the fields of internal medicine according to the student's focus. Specifically, the subject deals with the creation of the cohort, methodology and processing of results in scientific research activities in the fields of internal medicine. We will teach the student scientific research with an emphasis on interdisciplinary cooperation with other departments at Faculty of Medicine. The student must process an overview topic in the specified issue in the form of a publication.	

The student is acquainted with the latest recommendations for the treatment of diseases in the field of internal medicine, how they are implemented in practice in the current health care system in Slovakia.

Recommended literature:
Websites of national and international professional societies focused on internal medicine and its specialized parts.
International and national guidelines for internal medicine and its disciplines.
Materials and professional articles provided by teachers.

Languages necessary to complete the course:
Slovak and English

Notes:

Past grade distribution
Total number of evaluated students: 0

ABS	NEABS
0,0	0,0

Lecturers: doc. PharmDr. Andrea Gažová, PhD., doc. MUDr. Peter Jackuliak, PhD., MPH, doc. MUDr. Soňa Kiňová, PhD., doc. MUDr. Tomáš Koller, PhD., doc. MUDr. Martin Kužma, PhD., prof. PharmDr. Ján Kyselovič, CSc., prof. MUDr. Juraj Payer, PhD., MPH, prof. MUDr. Viera Štvrtinová, PhD.

Last change: 09.12.2022

Approved by:

STATE EXAM DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Medicine	
Course ID: LF/L-PhD-075/22	**Course title:** Defence of the Dissertation Thesis
Number of credits: 0	
Educational level: III.	

Course requirements:

The successful completion of all compulsory subjects and the other 2 compulsory elective subjects.
2. Realisation of the examination in the English Language,
3. Completed dissertation examination,
4. A doctoral student in the full-time and external form must be an author of a minimum of 3 scientific works 'in extenso'. A minimum of one work must be related to the dissertation work thesis in the indexed journal as the first author. The scientific work in the indexed journal means that it is available in the databases WEB of SCIENCE, PUBMED or SCOPUS. The doctoral student must have a minimum of one work in the journal with the impact factor (minimum IF=0.5) as the first author or co-author. In the frame of FMCU, the only credible IF value we consider just the date, which comes from the Journal Citation Reports (JCR), which is the only one that the database Web of Science recognises.
5. Just those outcomes are taken into consideration that has been already published. It means not those which were just sent for publishing or accepted for publishing. In reasonable cases, it is possible to recognise one missing publication based on the acceptance list. It is also possible to recognise the publication which is already available on PubMed as 'ahead of print."
6. Acquiring a minimum of 210 credits + 30 credits for acceptance of the dissertation thesis for defence
Evaluation of the subject runs in the state examination frame following the Study Regulations FM CU in Bratislava after submitting the dissertation work (aa a final thesis). Assessment is standard and reflects sufficiently the student's orientation in the given issues. The conditions for successful subject completion are in concord with the Faculty of Medicine CU's Study Regulations.
Scale of assessment (preliminary/final): The defence of the dissertation thesis is classified with the classification grade Passed or FX

Learning outcomes:

The subject goal is to use the theoretical, methodological and applied knowledge of the doctoral study in the elaboration, subsequent defence of the dissertation thesis and completion of the doctoral study.

Class syllabus:

It depends on the dissertation thesis. With the dissertation thesis, the student presents the ability and readiness for independent scientific and creative activity in the field of research or development or independent theoretical and creative activity. It shall be characterised by a high level of analysis and synthesis of knowledge and a good overview of existing professional literature. The work must be original, created by the author, following the rules for work with the information sources. The work must not have a plagiarism character and must not breach other authors' rights. The author is obliged to cite precisely used information sources, state names, and concrete results of other author teams' research by citing the relevant source to precisely describe laboratory results and terrain research

of other authors or author teams. The citing technique is regulated by the given field's customs, respecting the relevant standards and norms.
State exam syllabus:
Recommended literature: It depends on the dissertation thesis. Without the specification regarding the character of the dissertation thesis. The recommended literature is a part of the individual study plan of the doctoral student.
Languages necessary to complete the course: Slovak combined with English (study literature in English)
Last change: 12.12.2022
Approved by:

STATE EXAM DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Medicine	
Course ID: LF/L-PhD-001/22	**Course title:** Dissertation Examination
Number of credits: 0	
Educational level: III.	

Course requirements:

The subject assessment is done in the state examination frame following the Study Regulations of the Faculty of Medicine Comenius University in Bratislava. After submitting the written work to the dissertation thesis in the determined period (until half of the study at the latest). The state examination subjects involve the debate on the written work to the dissertation thesis (elaborated by the doctoral student) and others by the Dean approved subjects of the oral examination (ad hoc). Assessment is standard and reflects sufficiently the student's orientation in the given issues. The conditions for successful subject completion are in concord with the Faculty of Medicine CU's Study regulations.

Scale of assessment (preliminary/final): The dissertation examination is evaluated as a whole by the classification grade passed or not passed.

Learning outcomes:

The graduate from the subject masters the tenets of the scientific work and has built the scientific thinking and scientific work system, masters the scientific work methodology, he/she knows how to prepare an abstract and overview scientific publication. The outcome of this knowledge is the completion of the written work to the dissertation thesis. The doctoral student shall complete the dissertation examination under the Law No. 131/2002 Coll. on Higher Education, § 54 Doctoral study programme and the Faculty of Medicine's Study regulations, Comenius University in Bratislava.

Class syllabus:

The study of scientific publications related to the topics of the doctoral study. Elaboration of the written work to the dissertation examination containing the overview of the current knowledge in the given issues. Forming the scientific goals of the dissertation thesis. Acquiring theoretical knowledge and practical skills related to the dissertation examination thesis and the subject of the doctoral study. The primary outcome is the written work to the dissertation thesis and its completion following the Study regulations FM CU. The form and the work content are regulated in Art. 29, Sec. 4 of the Study regulations FM CU. The dissertation examination consists of the debate over the written work to the dissertation examination and part when the doctoral student shall show theoretical knowledge from the study programme. The composition of the examination committee, determination of the opponent and the course of the dissertation examination follows the Study regulations FM CU.

State exam syllabus:

Recommended literature:

Without the specification regarding the character of the dissertation thesis. The recommended literature is a part of the individual study plan of the doctoral student.

Languages necessary to complete the course:

Slovak combined with English (study literature in English)
Last change: 09.12.2022
Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Medicine	
Course ID: LF/L-PhD-074/22	**Course title:** Dissertation Thesis Accepted for Defence
Educational activities: **Type of activities:** **Number of hours:** **per week: per level/semester:** **Form of the course:** on-site learning, distance learning	
Number of credits: 30	
Recommended semester:	
Educational level: III.	
Prerequisites:	
Course requirements:	
Learning outcomes:	
Class syllabus:	
Recommended literature:	
Languages necessary to complete the course:	
Notes:	
Past grade distribution Total number of evaluated students: 76	

ABS	NEABS
100,0	0,0

Lecturers:
Last change:
Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Medicine	
Course ID: LF/L-PhD-027/22	**Course title:** Dissertation Thesis I.
Educational activities: **Type of activities:** **Number of hours:** **per week: per level/semester:** **Form of the course:** on-site learning, distance learning	
Type, volume, methods and workload of the student - additional information without specification regarding it is a doctoral degree of the study (methods choice – in-person, distant, combined)	
Number of credits: 10	
Recommended semester:	
Educational level: III.	
Prerequisites:	
Course requirements: Evaluation of the course is individual according to a doctoral student's study plan and based on the agreement between the supervisor and the doctoral student. The part of the subject is mainly the individual study of literature focused on the dissertation thesis. Scale of assessment (preliminary/final): Subject completion is assessed by the classification grades passed or did not pass	
Learning outcomes: By completing the course, the student will gain sufficient information on the dissertation thesis project current issues following the specifics of particular topics. This amount of knowledge is essential for the firmly established theoretical skills of the graduate from the view of his/her knowledge. But it also supports his potential in the broad field of applied practice. Undoubtedly, the results will reflect in the student's overview in methodological approaches in the subject issues.	
Class syllabus: The subject Dissertation thesis I. is part of doctoral student's study activities. It gains exclusively individual character regarding the specifics of the dissertation thesis topics. Its essential structure is noticeable already in the frame of the individual study plan of a doctoral student. The subject is essential, especially from understanding the essential theoretical and methodological aspects of the solved dissertation thesis, emphasising self-study and consultations with the supervisor and a broad spectrum of consultants. It contributes to creating the doctoral student's potential in his/her further (scientific) period of his/her study.	
Recommended literature: Without the specification regarding the character of the dissertation thesis. The recommended literature is a part of the individual study plan of the doctoral student.	
Languages necessary to complete the course:	

Slovak combined with English (study literature in English)

Notes:

Past grade distribution
Total number of evaluated students: 78

ABS	NEABS
100,0	0,0

Lecturers:

Last change: 09.12.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Medicine	
Course ID: LF/L-PhD-028/22	**Course title:** Dissertation Thesis II.
Educational activities: **Type of activities:** **Number of hours:** **per week: per level/semester:** **Form of the course:** on-site learning, distance learning	
Type, volume, methods and workload of the student - additional information without specification regarding it is a doctoral degree of the study (methods choice – in-person, distant, combined)	
Number of credits: 10	
Recommended semester:	
Educational level: III.	
Prerequisites:	
Course requirements: Evaluation of the course is individual according to a doctoral student's study plan and based on the agreement between the supervisor and the doctoral student. The part of the subject is mainly the individual study of literature focused on the dissertation thesis. Scale of assessment (preliminary/final): Subject completion is assessed by the classification grades passed or did not pass	
Learning outcomes: By completing the course, the student will gain sufficient information on the dissertation thesis project's current issues following the specifics of particular topics. This amount of knowledge is essential for the firmly established theoretical skills of the graduate from the view of his/her knowledge. But it also supports his potential in the broad field of applied practice. Undoubtedly, the results will reflect in the student's overview in methodological approaches in the subject issues.	
Class syllabus: The subject Dissertation thesis II. is part of doctoral student's study activities. It gains exclusively individual character regarding the specifics of the dissertation thesis topics. Its essential structure is noticeable already in the frame of the individual study plan of a doctoral student. The subject is essential, especially from understanding the essential theoretical and methodological aspects of the solved dissertation thesis, emphasising the self-study and consultations with the supervisor and a broad spectrum of consultants. It contributes to creating the doctoral student's potential in his/her further (scientific) period of his/her study.	
Recommended literature: Without the specification regarding the character of the dissertation thesis. The recommended literature is a part of the individual study plan of the doctoral student.	
Languages necessary to complete the course:	

Slovak combined with English (study literature in English)

Notes:

Past grade distribution
Total number of evaluated students: 59

ABS	NEABS
100,0	0,0

Lecturers:

Last change: 09.12.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Medicine	
Course ID: LF/L-PhD-069/22	**Course title:** For Each Citation in the International or Domestic Publications, Registered in the Citation Indexes
Educational activities: **Type of activities:** **Number of hours:** **per week:** **per level/semester:** **Form of the course:** on-site learning, distance learning	
Number of credits: 5	
Recommended semester:	
Educational level: III.	
Prerequisites:	
Course requirements:	
Learning outcomes:	
Class syllabus:	
Recommended literature:	
Languages necessary to complete the course:	
Notes:	

Past grade distribution
Total number of evaluated students: 85

ABS	NEABS
100,0	0,0

Lecturers:
Last change:
Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Medicine	
Course ID: LF/L-PhD-070/22	**Course title:** International Stay As Part of the Study Programme
Educational activities: **Type of activities:** **Number of hours:** **per week: per level/semester:** **Form of the course:** on-site learning, distance learning	
Number of credits: 5	
Recommended semester:	
Educational level: III.	
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	

ABS	NEABS
100,0	0,0

Lecturers:
Last change:
Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Medicine	
Course ID: LF/L-PhD-006/22	**Course title:** New Research Trends in Morphological Sciences
Educational activities: **Type of activities:** **Number of hours:** **per week: per level/semester:** **Form of the course:** on-site learning, distance learning	
Type, volume, methods and workload of the student - additional information 12 hours lectures/semester + 12 hours of self-study. Lectures are held three times per semester in 4-hour sessions. Lectures are held in person	
Number of credits: 10	
Recommended semester:	
Educational level: III.	
Prerequisites:	
Course requirements: To complete the course, attendance at lectures is required + successful completion of the final test. Scale of assessment (preliminary/final): Final classification: 'passed', 'failed'	
Learning outcomes: The graduate of the course will gain knowledge of current trends in anatomy, histology and human embryology. He will be able to routinely master the work in the histology laboratory, immunohistochemical laboratory, work with transmission and scanning electron microscopy, as well as the principles of research in clinical and variational anatomy.	
Class syllabus: Histological technique with a focus on light microscopy, including immunohistochemical methods. Histological technique with a focus on transmission and scanning electron microscopy. Principles and methods of neurohistology. Basics of working with tissue cultures. Introduction to practical clinical embryology.	
Recommended literature: S. Kim Suvarna, Christopher Layton a John D. Bancroft. Bancroft's Theory and Practice of Histological Techniques (Eighth Edition). Elsevier. 2019. Stacey Mills. Histology for Pathologists. Lippincott Williams and Wilkins, 2019. Kevin Coward a Dagan Wells. Textbook of Clinical Embryology. Cambridge University Press. 2018	
Languages necessary to complete the course: Slovak and English	
Notes:	

Past grade distribution
Total number of evaluated students: 0

ABS	NEABS
0,0	0,0

Lecturers: prof. MUDr. Štefan Polák, CSc., doc. PhDr. Ivan Varga, CSc., doc. MUDr. Eliška Kubíková, PhD., MPH, doc. MUDr. Zora Haviarová, PhD., doc. RNDr. Marianna Danková, PhD.

Last change: 13.12.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Medicine	
Course ID: LF/L-PhD-067/22	**Course title:** Obtaining the Grant of Comenius University
Educational activities: **Type of activities:** **Number of hours:** **per week: per level/semester:** **Form of the course:** on-site learning, distance learning	
Number of credits: 15	
Recommended semester:	
Educational level: III.	
Prerequisites:	
Course requirements:	
Learning outcomes:	
Class syllabus:	
Recommended literature:	
Languages necessary to complete the course:	
Notes:	
Past grade distribution Total number of evaluated students: 31	

ABS	NEABS
100,0	0,0

Lecturers:
Last change:
Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Medicine

Course ID:	**Course title:**
LF/L-PhD-072/22	Other Activities

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

Number of credits: 2

Recommended semester:

Educational level: III.

Prerequisites:

Course requirements:

Learning outcomes:

Class syllabus:

Recommended literature:

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 173

ABS	NEABS
100,0	0,0

Lecturers:

Last change:

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Medicine	
Course ID: LF/L-PhD-037/22	**Course title:** Pedagogical activity – in-person tuition or other professional activity related to pedagogical activity
Educational activities: **Type of activities:** **Number of hours:** **per week:** **per level/semester:** **Form of the course:** on-site learning, distance learning	
Number of credits: 10	
Recommended semester:	
Educational level: III.	
Prerequisites:	
Course requirements:	
Learning outcomes:	
Class syllabus:	
Recommended literature:	
Languages necessary to complete the course:	
Notes:	

Past grade distribution
Total number of evaluated students: 70

ABS	NEABS
100,0	0,0

Lecturers:
Last change:
Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Medicine	
Course ID: LF/L-PhD-066/22	**Course title:** Submission of the Grant of Comenius University
Educational activities: **Type of activities:** **Number of hours:** **per week: per level/semester:** **Form of the course:** on-site learning, distance learning	
Number of credits: 5	
Recommended semester:	
Educational level: III.	
Prerequisites:	
Course requirements:	
Learning outcomes:	
Class syllabus:	
Recommended literature:	
Languages necessary to complete the course:	
Notes:	
Past grade distribution Total number of evaluated students: 60	

ABS	NEABS
100,0	0,0

Lecturers:
Last change:
Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Medicine	
Course ID: LF/L-PhD-065/22	**Course title:** The Chapter in the Textbook or Monograph – For Each Author's Sheet as a Co-Author
Educational activities: **Type of activities:** **Number of hours:** **per week:** **per level/semester:** **Form of the course:** on-site learning, distance learning	
Number of credits: 5	
Recommended semester:	
Educational level: III.	
Prerequisites:	
Course requirements:	
Learning outcomes:	
Class syllabus:	
Recommended literature:	
Languages necessary to complete the course:	
Notes:	

Past grade distribution
Total number of evaluated students: 11

ABS	NEABS
100,0	0,0

Lecturers:
Last change:
Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Medicine	
Course ID: LF/L-PhD-064/22	**Course title:** The Chapter in the Textbook or Monograph – For Each Author's Sheet as the 1st Author
Educational activities: **Type of activities:** **Number of hours:** **per week:** **per level/semester:** **Form of the course:** on-site learning, distance learning	
Number of credits: 15	
Recommended semester:	
Educational level: III.	
Prerequisites:	
Course requirements:	
Learning outcomes:	
Class syllabus:	
Recommended literature:	
Languages necessary to complete the course:	
Notes:	

Past grade distribution
Total number of evaluated students: 9

ABS	NEABS
100,0	0,0

Lecturers:
Last change:
Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Medicine	
Course ID: LF/L-PhD-073/22	**Course title:** The Lecture at the Workplace Seminar
Educational activities: **Type of activities:** **Number of hours:** **per week: per level/semester:** **Form of the course:** on-site learning, distance learning	
Number of credits: 2	
Recommended semester:	
Educational level: III.	
Prerequisites:	
Course requirements:	
Learning outcomes:	
Class syllabus:	
Recommended literature:	
Languages necessary to complete the course:	
Notes:	
Past grade distribution Total number of evaluated students: 208	

ABS	NEABS
100,0	0,0

Lecturers:
Last change:
Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Medicine	
Course ID: LF/L-PhD-051/22	**Course title:** The Scientific Work in the Current Journal (i.e., Indexed in the Database: Current Content) or in the Journal With the Impact Factor as the 1st Author
Educational activities: **Type of activities:** **Number of hours:** **per week: per level/semester:** **Form of the course:** on-site learning, distance learning	
Number of credits: 40	
Recommended semester:	
Educational level: III.	
Prerequisites:	
Course requirements:	
Learning outcomes:	
Class syllabus:	
Recommended literature:	
Languages necessary to complete the course:	
Notes:	
Past grade distribution Total number of evaluated students: 6	

ABS	NEABS
100,0	0,0

Lecturers:
Last change:
Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Medicine	
Course ID: LF/L-PhD-062/22	**Course title:** The Scientific Work in the Domestic Reviewed Journal as the 1st Author
Educational activities: **Type of activities:** **Number of hours:** **per week:** **per level/semester:** **Form of the course:** on-site learning, distance learning	
Number of credits: 15	
Recommended semester:	
Educational level: III.	
Prerequisites:	
Course requirements:	
Learning outcomes:	
Class syllabus:	
Recommended literature:	
Languages necessary to complete the course:	
Notes:	

Past grade distribution
Total number of evaluated students: 48

ABS	NEABS
100,0	0,0

Lecturers:
Last change:
Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Medicine	
Course ID: LF/L-PhD-063/22	**Course title:** The Scientific Work in the Domestic Reviewed Journal as a Co-Author
Educational activities: **Type of activities:** **Number of hours:** **per week:** **per level/semester:** **Form of the course:** on-site learning, distance learning	
Number of credits: 5	
Recommended semester:	
Educational level: III.	
Prerequisites:	
Course requirements:	
Learning outcomes:	
Class syllabus:	
Recommended literature:	
Languages necessary to complete the course:	
Notes:	

Past grade distribution
Total number of evaluated students: 59

ABS	NEABS
100,0	0,0

Lecturers:	
Last change:	
Approved by:	

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Medicine	
Course ID: LF/L-PhD-060/22	**Course title:** The Scientific Work on the Topic of the Dissertation Work in the Domestic Reviewed Journal as a Co-Author
Educational activities: **Type of activities:** **Number of hours:** **per week:** **per level/semester:** **Form of the course:** on-site learning, distance learning	
Number of credits: 10	
Recommended semester:	
Educational level: III.	
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

ABS	NEABS
100,0	0,0

Lecturers:
Last change:
Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Medicine	
Course ID: LF/L-PhD-059/22	**Course title:** The Scientific Work on the Topic of the Dissertation Work in the Domestic Reviewed Journal as the 1st Author
Educational activities: **Type of activities:** **Number of hours:** **per week:** **per level/semester:** **Form of the course:** on-site learning, distance learning	
Number of credits: 20	
Recommended semester:	
Educational level: III.	
Prerequisites:	
Course requirements:	
Learning outcomes:	
Class syllabus:	
Recommended literature:	
Languages necessary to complete the course:	
Notes:	

Past grade distribution
Total number of evaluated students: 30

ABS	NEABS
100,0	0,0

Lecturers:
Last change:
Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Medicine	
Course ID: LF/L-PhD-050/22	**Course title:** The scientific work in an indexed journal available in the databases PubMed, SCOPUS, or WEB of SCIENCE as a co-author
Educational activities: **Type of activities:** **Number of hours:** **per week:** **per level/semester:** **Form of the course:** on-site learning, distance learning	
Number of credits: 10	
Recommended semester:	
Educational level: III.	
Prerequisites:	
Course requirements:	
Learning outcomes:	
Class syllabus:	
Recommended literature:	
Languages necessary to complete the course:	
Notes:	

Past grade distribution
Total number of evaluated students: 43

ABS	NEABS
100,0	0,0

Lecturers:
Last change:
Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Medicine	
Course ID: LF/L-PhD-049/22	**Course title:** The scientific work in an indexed journal available in the databases PubMed, SCOPUS, or WEB of SCIENCE as the 1st author
Educational activities: **Type of activities:** **Number of hours:** **per week:** **per level/semester:** **Form of the course:** on-site learning, distance learning	
Number of credits: 30	
Recommended semester:	
Educational level: III.	
Prerequisites:	
Course requirements:	
Learning outcomes:	
Class syllabus:	
Recommended literature:	
Languages necessary to complete the course:	
Notes:	

Past grade distribution
Total number of evaluated students: 17

ABS	NEABS
100,0	0,0

Lecturers:
Last change:
Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Medicine	
Course ID: LF/L-PhD-054/22	**Course title:** The scientific work in the current journal (i.e., indexed in the database: CC) or in the journal with the IF more than 0,5 as a co-author
Educational activities: **Type of activities:** **Number of hours:** **per week:** **per level/semester:** **Form of the course:** on-site learning, distance learning	
Number of credits: 25	
Recommended semester:	
Educational level: III.	
Prerequisites:	
Course requirements:	
Learning outcomes:	
Class syllabus:	
Recommended literature:	
Languages necessary to complete the course:	
Notes:	

Past grade distribution
Total number of evaluated students: 11

ABS	NEABS
100,0	0,0

Lecturers:
Last change:
Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Medicine	
Course ID: LF/L-PhD-053/22	**Course title:** The scientific work in the current journal (i.e., indexed in the database: CC) or in the journal with the IF more than 0,5 as the 1st Author
Educational activities: **Type of activities:** **Number of hours:** **per week:** **per level/semester:** **Form of the course:** on-site learning, distance learning	
Number of credits: 50	
Recommended semester:	
Educational level: III.	
Prerequisites:	
Course requirements:	
Learning outcomes:	
Class syllabus:	
Recommended literature:	
Languages necessary to complete the course:	
Notes:	

Past grade distribution
Total number of evaluated students: 5

ABS	NEABS
100,0	0,0

Lecturers:
Last change:
Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Medicine	
Course ID: LF/L-PhD-056/22	**Course title:** The scientific work in the current journal (i.e., indexed in the database: CC) or in the journal with the IF more than 1,0 as a co-author
Educational activities: **Type of activities:** **Number of hours:** **per week:** **per level/semester:** **Form of the course:** on-site learning, distance learning	
Number of credits: 30	
Recommended semester:	
Educational level: III.	
Prerequisites:	
Course requirements:	
Learning outcomes:	
Class syllabus:	
Recommended literature:	
Languages necessary to complete the course:	
Notes:	

Past grade distribution
Total number of evaluated students: 26

ABS	NEABS
100,0	0,0

Lecturers:	
Last change:	
Approved by:	

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Medicine	
Course ID: LF/L-PhD-055/22	**Course title:** The scientific work in the current journal (i.e., indexed in the database: CC) or in the journal with the IF more than 1,0 as the 1st Author
Educational activities: **Type of activities:** **Number of hours:** **per week:** **per level/semester:** **Form of the course:** on-site learning, distance learning	
Number of credits: 60	
Recommended semester:	
Educational level: III.	
Prerequisites:	
Course requirements:	
Learning outcomes:	
Class syllabus:	
Recommended literature:	
Languages necessary to complete the course:	
Notes:	
Past grade distribution Total number of evaluated students: 18	

ABS	NEABS
100,0	0,0

Lecturers:
Last change:
Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Medicine	
Course ID: LF/L-PhD-058/22	**Course title:** The scientific work in the current journal (i.e., indexed in the database: CC) or in the journal with the IF more than 2,0 as a co-author
Educational activities: **Type of activities:** **Number of hours:** **per week:** **per level/semester:** **Form of the course:** on-site learning, distance learning	
Number of credits: 35	
Recommended semester:	
Educational level: III.	
Prerequisites:	
Course requirements:	
Learning outcomes:	
Class syllabus:	
Recommended literature:	
Languages necessary to complete the course:	
Notes:	
Past grade distribution Total number of evaluated students: 82	

ABS	NEABS
100,0	0,0

Lecturers:
Last change:
Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Medicine	
Course ID: LF/L-PhD-057/22	**Course title:** The scientific work in the current journal (i.e., indexed in the database: CC) or in the journal with the IF more than 2,0 as the 1st Author
Educational activities: **Type of activities:** **Number of hours:** **per week:** **per level/semester:** **Form of the course:** on-site learning, distance learning	
Number of credits: 70	
Recommended semester:	
Educational level: III.	
Prerequisites:	
Course requirements:	
Learning outcomes:	
Class syllabus:	
Recommended literature:	
Languages necessary to complete the course:	
Notes:	
Past grade distribution Total number of evaluated students: 44	

ABS	NEABS
100,0	0,0

Lecturers:
Last change:
Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Medicine	
Course ID: LF/L-PhD-052/22	**Course title:** The scientific work in the current journal (i.e., indexed in the database: Current Content) or in the journal with the Impact Factor as a co-author
Educational activities: **Type of activities:** **Number of hours:** **per week:** **per level/semester:** **Form of the course:** on-site learning, distance learning	
Number of credits: 20	
Recommended semester:	
Educational level: III.	
Prerequisites:	
Course requirements:	
Learning outcomes:	
Class syllabus:	
Recommended literature:	
Languages necessary to complete the course:	
Notes:	

Past grade distribution
Total number of evaluated students: 12

ABS	NEABS
100,0	0,0

Lecturers:
Last change:
Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Medicine	
Course ID: LF/L-PhD-048/22	**Course title:** The scientific work on the topic of the dissertation work in the indexed journal in the databases PubMed, SCOPUS, or WEB of SCIENCE as a co-author
Educational activities: **Type of activities:** **Number of hours:** **per week: per level/semester:** **Form of the course:** on-site learning, distance learning	
Number of credits: 20	
Recommended semester:	
Educational level: III.	
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	

ABS	NEABS
100,0	0,0

Lecturers:
Last change:
Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Medicine	
Course ID: LF/L-PhD-047/22	**Course title:** The scientific work on the topic of the dissertation work in the indexed journal in the databases PubMed, SCOPUS, or WEB of SCIENCE as the 1st author
Educational activities: **Type of activities:** **Number of hours:** **per week: per level/semester:** **Form of the course:** on-site learning, distance learning	
Number of credits: 40	
Recommended semester:	
Educational level: III.	
Prerequisites:	
Course requirements:	
Learning outcomes:	
Class syllabus:	
Recommended literature:	
Languages necessary to complete the course:	
Notes:	

Past grade distribution
Total number of evaluated students: 37

ABS	NEABS
100,0	0,0

Lecturers:
Last change:
Approved by:

COURSE DESCRIPTION

<table>
<tr><td colspan="2">Academic year: 2022/2023</td></tr>
<tr><td colspan="2">University: Comenius University Bratislava</td></tr>
<tr><td colspan="2">Faculty: Faculty of Medicine</td></tr>
<tr><td>Course ID:
LF/L-PhD-038/22</td><td>Course title:
Therapeutical-preventive activity</td></tr>
<tr><td colspan="2">Educational activities:
Type of activities:
Number of hours:
per week: per level/semester:
Form of the course: on-site learning, distance learning</td></tr>
<tr><td colspan="2">Number of credits: 10</td></tr>
<tr><td colspan="2">Recommended semester:</td></tr>
<tr><td colspan="2">Educational level: III.</td></tr>
<tr><td colspan="2">Prerequisites:</td></tr>
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<tr><td colspan="2">Past grade distribution
Total number of evaluated students: 41</td></tr>
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<tr><td colspan="2">Lecturers:</td></tr>
<tr><td colspan="2">Last change:</td></tr>
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