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University: Catholic Unive	ersity in Ružomberok		
Faculty: Faculty of Health			
Course code: KLVM/54L1001W/22	Course title: Analytical chemistry		
Form of instruction: Lee Recommended study ra	nge: hours per semester: 24 / 24		
Credits: 4	Working load: 100 hours		
Recommended semester/t	rimester: 1.		
Level of study: I.			
Prerequisities:			
Organic Chemistry. Stude condition for participation	the course: will be two written examinations in the field of General Chemistry and nts must obtain a rating better than FX from both, thus fulfilling the in final exam. The final evaluation will be determined on the basis of evaluation and evaluation oral exam.		
compounds. He or she wi emphasis on compounds the laboratory methods of cher	s. He or she is familiar with the nomenclature of inorganic and organic ins basic knowledge of individual groups of organic substances, with hat are part of living organisms. He or she knows the basic principles of mical analysis.		
 Structure of atom. Periodic law and period of chemical substances. Phase states and Phase t Chemical reactions. Rea Selected chapters from compounds.Reactions of o Classification and nome Carboxylic acids, structu Natural substances. Carb acids. Alkaloids. Basics of analytical chemical complexation Protolytic, complexation Chemical calculations Laboratory electrodes. 	action kinetics. Thermochemistry. organic chemistry. Construction and bonds in molecules of organic rganic compounds. Effects of substituents. nclature of organic compounds. ure and reactivity of functional and substitution derivatives of carboxylic. bohydrates. Lipids. Isoprenoids (terpenes and steroids). Proteins. Nucleic mistry. Quantitative analysis. on, redox and precipitation equilibria in solutions. for the preparation of laboratory solutions		
Recommended or require	d literature:		

Language of instruction: Slovak

Notes:

1.000050

Course evaluation:

Assessed stude	nts in total: 37				
А	В	С	D	Е	FX
10.81	21.62	35.14	24.32	0.0	8.11

Name of lecturer(s): Prof. Ing. Peter Tomčík, PhD., doc. Ing. Eva Culková, PhD., Ing. Jaroslav Durdiak, PhD.

Last modification: 11.09.2022

Supervisor(s):

University: Catholic Unive	ersity in Ružomberok
Faculty: Faculty of Health	
Course code: KLVM/54L1002W/22	Course title: Anatomy
Form of instruction: Lee Recommended study ra	nge: hours per semester: 24 / 36
Credits: 3	Working load: 75 hours
Recommended semester/t	rimester: 1.
Level of study: I.	
Prerequisities:	
to write a test for 60%. Learning outcomes of the Course objective: Orientation in the subject of Acquisition of anatomical directions. The aim of the Theoretical knowledge: Gaining detailed knowledg be able to describe in Latin structure and the anatomic	the form of a written test, which contains 20 questions. It is necessary course:
Based on anatomical desc individual systems of the h	eription, the ability to identify and characterize individual organs and numan body.
 Myology, muscles of the Anatomy and structure of Anatomy and structure of 	of the digestive system. of the respiratory system. natomy and branching of blood vessels. of the urinary system.

11. Nervous system.

12. Sensory organs.

Recommended or required literature:

KUBAS, V. a kol.: Anatómia pre nelekárske vedy. Verbum, Ružomberok 2021.

ČIHÁK, R.: Anatomia I. Praha, Avicenum 1987

ČIHÁK, R.: Anatomie II. Praha, Avicenum 1988

ČIHÁK, R.: Anatomie III. Praha, Grada 1997

Kol. autorov: Anatómia ľudského tela I. a II. Martin, Osveta 2007

Language of instruction:

Slovak languge

Notes:

Course evaluation:

Assessed students in total: 41

А	В	С	D	Е	FX
14.63	2.44	17.07	12.2	29.27	24.39

Name of lecturer(s): doc. MUDr. Marián Šanta, CSc., MUDr. Viliam Kubas, PhD.

Last modification: 11.09.2022

Supervisor(s):

University: Cat	holic University	in Ružomberok			
Faculty: Faculty	y of Health				
Course code: KLVM/54L21S/		ourse title: Bache	elor Thesis Defen	ce	
Form of instr	uction: d study range: ly: hours per	rning activities : • semester:	and teaching me	thods:	
Credits: 10	W	orking load: 250	hours		
Recommended	semester/trime	ster: 5., 6			
Level of study:	I.				
Prerequisities:					
Requirements f	or passing the	course:			
Learning outco	mes of the cour	·se:			
Course content	s:				
Recommended	or required lite	erature:			
Language of ins	struction:				
Notes:					
Course evaluation					
А	В	C	D	Е	FX
66.67	16.67	0.0	16.67	0.0	0.0
Name of lecture	er(s):			1	1
Last modificati	on: 11.09.2022				
Supervisor(s): Person responsible for doc. RNDr. Jaro		ent and quality of the st).	udy programme:		

University: Catholic Univ	rersity in Ružomberok
Faculty: Faculty of Health	n
Course code: KLVM/54L1006W/22	Course title: Basic of Information and Communication Technologies
Form of instruction: Se Recommended study ra	ange: urs per semester: 24
Credits: 2	Working load: 50 hours
Recommended semester/	/trimester: 1.
Level of study: I.	
Prerequisities:	
Requirements for passing During the semester, partifinal assignment.	g the course: cipation in exercises, handing over practical tasks and elaboration of the
80 points. Credits will not	lop and submit 8 practical tasks, each with a weight of 10 points, a total of be awarded to a student who obtains less than 4 points from an assignment not submit all assignments with a minimum score.
 protection, cloud, types of 2. Work in Windows OS, s of Windows OS. 3. Hospital and health information tech 4. Use of information tech 5. Access to value information 6. Microsoft Office deskt individual versions. 7. Text editors - advanced 8. Spreadsheets - cell form graphics tools. 9. Graphic editors - acquise 	selected system programs of Windows OS, identity of individual versions formation systems - structure, databases, data collection, administration, cs, personal data protection.

Recommended or required literature:

Integrovaný pomocník v Microsoft Windows a Microsoft Office.

Office 2016 CZ - Průvodce uživatele, Josef Pecinovský a Rudolf Pecinovský, Grada 2016. 1001 tipu a triku pro Windows 7; Ondřej Bitto, Computer Press Brno 2010.

Strana: 2

Microsoft Office Excel 2007 Podrobná užívateľská príručka, Milan Brož, Computer Press Brno 2008.

Microsoft Office Word 2007 Podrobná užívateľská príručka, Milan Brož, Computer Press Brno 2008.

Microsoft Office PowerPoint 2007 Podrobná užívateľská príručka, Milan Brož, Computer Press Brno 2008.

Office 2010 - Pecinovský Josef, Grada 2011, - http://www.grada.sk/office-2010_4824/kniha.

Language of instruction:

Notes:

Course evaluation:

Assessed students in total: 42

А	В	С	D	Е	FX
57.14	26.19	14.29	0.0	0.0	2.38

Name of lecturer(s): Mgr. Milan Kaman

Last modification: 11.09.2022

Supervisor(s):

Person responsible for the delivery, development and quality of the study programme:

doc. RNDr. Jaroslav Timko, PhD.

University: Catholic Univers	sity in Ružomberok			
Faculty: Faculty of Health				
	22 Course title: Basics of Management and Economics in Health Care, Organisation of Health			
Form of instruction: Lectu Recommended study rang				
Credits: 2	Working load: 50 hours			
Recommended semester/tri	mester: 5.			
Level of study: I.				
Prerequisities:				
achieve. Final evaluation: There will be oral or written obtained is 100. Course evaluation: A - 100 %-93 % B - 92 %-85 % C - 84 %-77 % D - 76 %-69 % E - 68 %-60 % FX - 59 %- 0 %	written test during semester, the maximum of 20 points can students test, students can reach 80 points. The overall points that student can			
view of management and eco	uired knowledge and skills to create a comprehensive and conceptual phomic activities in health care, to be able to act preventively and think nking and action in the health team, department and the entire facility			

Students are able to act preventively and think in matters of economic thinking and leadership of the medical team at the level of the outpatient clinic, department and the whole facility from the perspective of health care economics, know the issues and use of marketing and informatics in health care economics.

Practical knowledge:

Students are able to use knowledge of general economic laws in the practical activities of the health care provider, ensure economic efficiency while maintaining the quality of health care.

Course contents:

The structure of the course:

1. Basics of management, definition, procedures, characteristics. Economic efficiency. Personal management. Marketing in healthcare

- 2. History of health care.
- 3. Healthcare organization and health systems.
- 4. Healthcare and health services in the social market economy.
- 5. Forms and structure of medical facilities. Medical professions and their characteristics
- 6. Health care systems in individual EU countries and in some countries around the world.
- 7. Organization and methods of providing health services.

8. Financing of health care and methods of financing according to the type of care. Contributory and budgetary organizations.

9. Health insurance, types and basic characteristics

10. International cooperation in health care. WHO.

Recommended or required literature:

Bibliography:

1. JAKUŠOVÁ, V.: The basis of health care management, Osveta Martin, 2010, ISBN 9788080633479

2. ŠAGÁT, T. et al.: Organisation in the health care, Osveta Martin, 2010 s., ISBN 8080631433, 2005

- 3. Ozorovský V., Vojteková I.: Health care management and funding, 2016 Wolters Kluwer
- 4. Jakušová V.: Management for non-medical study fields, Osveta 2016
- 5. Ondruš P., Ondrušová I.: Management and funding in health care, Matica slovenská 2017

6. DOMENIK, J.: The basic of prevention and hygiene, Learning material, Faculty of health care, Ružomberok, 2019

Language of instruction:

Slovak language

Notes:

This course is taught during the winter semester and is evaluated during the exam period of the winter semester.

Course evaluation:

Assessed students in total: 14

А	В	С	D	Е	FX
35.71	28.57	21.43	14.29	0.0	0.0

Name of lecturer(s): doc. MUDr. Jozef Domenik, PhD., MPH

Last modification: 11.09.2022

Supervisor(s):

Faculty: Faculty of Healt	
	h
Course code: KLVM/54L1010W/22	Course title: Biochemistry 1
Type and range of plann Form of instruction: La Recommended study ra hours weekly: 3 ho Teaching method: on-s	ange: ours per semester: 36
Credits: 5	Working load: 125 hours
Recommended semester/	/trimester: 2.
Level of study: I.	
Prerequisities:	
obtain a maximum of 20 p written tests. At the final	re will be 4 written test at the lectures, for each of which it is possible to points. To sit the exam, it is necessary to obtain at least 40 points from the oral exam, the student can get max. 60 points. be based on the total number of points obtained from the tests and the
Course objective - to acqu biochemistry to understan Examination Methods). Theoretical knowledge: d in the cell and in biologic	the course: hire basic and necessary knowledge of organic and inorganic chemistry and hd other subjects of Biochemistry-2 and Biochemistry – LEM (Laboratory hescription of basic chemical structures - simple and complex - occurring cal fluids in humans, both from a static and dynamic point of view, their hysiological conditions and basic changes in disease states.
bonds2. Structure and function3. Water and acid-base ba4. Amino acids and struct	mportant concepts of organic chemistry - functional groups and types of of the main cellular components - cell topohistochemistry. alance. ture of proteins. Relationship between function and structure of proteins. of catalysis, kinetics, inhibition, regulation iccation and nomenclature, structure, glycosidic bonds, glycoproteins

8. Nucleic acids, DNA replication, RNA synthesis, translation mRNA-protein synthesis, recombinant DNA, regulation of gene expression.

9. Introduction to metabolism, glycolysis, alternative pathways of carbohydrate metabolism, ATP production, mitochondrial electron transport and oxidative phosphorylation, pentose cycle, Krebs cycle.

10. Fatty acid metabolism, metabolism of lipids and related compounds.

11. Metabolism of proteins, biosynthesis of amino acids and compounds derived from them, metabolism of amino acids

12. Vitamins and hormones

Recommended or required literature:

1. ŠTERN et al: Obecná a klinická biochemie pro bakalárske odb.studia, Univezita Karlova, Praha, 2011

2. D.M. VASUDEVAN, S. SREEKUMARI, K. VAIDYANATHAN: Základy všeobecnej a klinickej biochémie, Balneotherma, Bratislava, 2014, strán 665. slov. preklad 6. vyd. Textbook of Biochemistry, 2011, ISBN 978-93-5025-016-7

Language of instruction:

Slovak

Notes:

Course evaluation:

Assessed students in total: 21

А	В	С	D	Е	FX
19.05	14.29	28.57	19.05	14.29	4.76

Name of lecturer(s): doc. MUDr. Ivan Solovič, CSc., Mgr. Anton Vaňuga, PhD.

Last modification: 11.09.2022

Supervisor(s):

University: Catholic Univers	sity in Ružomberok
Faculty: Faculty of Health	
Course code: KLVM/54L1023W/22	Course title: Biochemistry 2
Type and range of planned Form of instruction: Lectu Recommended study rang hours weekly: 4 hours Teaching method: on-site	ge:
Credits: 4	Working load: 100 hours
Recommended semester/tri	mester: 3.
Level of study: I.	
Prerequisities: KLVM/54L1	010W/22
obtain a maximum of 20 poin written tests. At the final ora	he course: vill be 4 written test at the lectures, for each of which it is possible to nts. To sit the exam, it is necessary to obtain at least 40 points from the l exam, the student can get max. 60 points. based on the total number of points obtained from the tests and the
of diseases and diagnoses. Theoretical knowledge: Gaining comprehensive know the preparation of patients individual organ systems and not only of the pathobiocher conditions of material colle	ourse: overview of knowledge about the used analytes for individual groups wledge of methods commonly used in laboratory and clinical practice, in the pre-analytical stage. The curriculum is divided according to the main clinical conditions in them. The student will gain an overview mistry of the conditions, but also of the indications for examination, ection, transport, method of examination, control of test reliability, s affecting the result, reference values, method of interpretation.
1. laboratory parameters and monitoring of patients at JIS	natory activity, indicators of various forms of inflammation - SIRS,

3. Diagnosis of acute ischemic conditions in cardiology and laboratory differential diagnosis of hypertension, examination of renal function in these conditions

4. risk factors for atherosclerosis, disorders of lipoprotein metabolism and monitoring of treatment of these conditions

5. monitoring of nutritional status,

6. monitoring of acid base and homeostasis disorders, especially in acute conditions

7. monitoring of oncological patients and tumor markers,

8. examinations in endocrinology according to individual diagnostic algorithms - e.g. hypothyroidism, hyperthyroidism, hypo- and hypercortisolism, sterility, decreased function of the hypothalamic-pituitary system

9. diabetes monitoring, lab. monitoring complications of diabetes (nephropathy, etc.)

10. gastroenterological and hepatological examinations,

11. examinations in neurology and psychiatry - examination of cerebrospinal fluid

12. monitoring of a pregnant woman during pregnancy and mother and child in the perinatal period

13. laboratory examination in pediatrics; pediatric reference values - specificities

14. diagnosis and monitoring of osteoporosis; metaphylaxis of urolithiasis.

15. monitoring of drug concentrations, poisoning, determination of alcohol, drugs

16. examination of renal function, monitoring of dialysis patients, monitoring of patients with transplanted organs (especially kidneys, but also after other transplants)

17. oxidative stress monitoring

18. clinical conditions for which examination by molecular biological methods is appropriate / necessary

Recommended or required literature:

1. PullmannR, Pavlovič M: Laboratórne nálezy a ich klinická aplikácia, RAABE Slovensko,2008-2014-vybrané kapitoly

2. Stern et al.:Klinická a obecná biochemie, KU Praha, 2011

3. Meško D, Pullmann R, Nosálová G: Vademekum klinickej biochémie, Osveta Martin, 2005

Language of instruction:

Slovak

Notes:

Course evaluation:

Assessed students in total: 21

А	В	С	D	Е	FX
14.29	23.81	14.29	4.76	42.86	0.0

Name of lecturer(s): Mgr. Anton Vaňuga, PhD., doc. MUDr. Ivan Solovič, CSc.

Last modification: 11.09.2022

Supervisor(s):

<u>г</u>	
University: Catholic Univer	sity in Ružomberok
Faculty: Faculty of Health	
Course code: KLVM/54L1004W/22	Course title: Biology
Form of instruction: Lect Recommended study rang	
Credits: 4	Working load: 100 hours
Recommended semester/tri	imester: 1.
Level of study: I.	
Prerequisities:	
Conditions for passing the c Final evaluation: written exa Course evaluation: A - 100% -91% B - 92% -85% C - 84% -77% D - 76% -69% E - 68% -60% FX - 59% - 0%	ourse: presence on the lectures.
general cytology, cell morph Theoretical knowledge: The physiology of the cell, mole	course: In a aim of the course is to acquaint students with basic knowledge of nology, physiology, molecular biology and general genetics. It is student will gain basic theoretical knowledge about the structure and cular biology, as well as general genetics. This knowledge belongs to dent must acquire and is necessary for other professional subjects.
cells, 3. Cytoplasm, Biolo organelles (Cytoplasmic m Endoplasmic reticulum, Va	nposition of the cell 2. Cell organization, Prokaryotic cell, Eukaryotic gical membranes, Cell wall, Basics of microscopy 4. Membrane nembrane, Nucleus, Mitochondria, Chloroplasts, Golgi apparatus, ncuola, Lysosomes, Microthelium, Plastids), 5. Fibrillar organelles Non-membrane organelles (Ribosomes, Inclusions) Microscopy of

chromosome, genomic mutations), Quantitative and population genetics

cells, cell organelles, Microscopic preparations 6. Intercellular communication, uptake and expenditure of substances, cell bioenergetics 7. Cell cycle (Mitosis, Amitosis, Meiosis), Cell division microscopy, Presentation of seminar papers 8. Molecular biology, Chemical basis of heredity: DNA, RNA, Genetic code and its expression 9. Transcription, Translation, Native and permanent preparations 10. Autosomal, Gonosomal inheritance 11. Gene interactions, extranuclear inheritance, presentation of seminar papers 12. Mutagenesis (mutations, mutagenic and repair, gene,

Recommended or required literature:

SABÓ, A. 2008. Biológia. Trnava : Typi Universitatis Tyrnaviensis, 2008. 165 s. ISBN 978-80-80821-99-9
SRŠEŇ, S. 2000. Základy klinickej genetiky a jej molekulárna podstata. Martin : Osveta, 2000. 409 s. ISBN 80-8063-021-6
ŠUBOVÁ, D. 2005. Cytológia. Ružomberok : Katolícka univerzita, 2005. 68 s. ISBN 80-808400-18-0

Language of instruction:

Slovak Language

Notes:

Course evaluation:

Assessed students in total: 41

А	В	С	D	Е	FX
17.07	34.15	19.51	14.63	12.2	2.44

Name of lecturer(s): doc. RNDr. Soňa Hlinková, PhD., RNDr. Lucián Zastko, PhD.

Last modification: 11.09.2022

Supervisor(s):

University: Catholic Uni	versity in Ružomberok
Faculty: Faculty of Heal	th
Course code: KLVM/54L1003W/22	Course title: Biophysics
Form of instruction: L Recommended study i	range: hours per semester: 24 / 24
Credits: 2	Working load: 50 hours
Recommended semester	c/trimester: 1.
Level of study: I.	
Prerequisities:	
During the semester: Att The final evaluation: Wr Subject evaluation: A - 100%-91% B - 92%-85% C - 84%-77% D - 76%-69% E - 68%-60% FX - 59%-0%	
of environmental biophysic connected with the use of	o know basic physical processes within organism, to know the importance ics for diagnostics of particular diseases, to gain knowledge about the risks f ionizing and non-ionizing radiation in diagnostics and therapy. The student defines, distingushes, describes, identifies, divides basic terms,
 Biophysics of the cell Biophysics of the must Biophysics of the hear Biophysics of the breat Biophysics of the sense 	rt and blood vessel athing.

10. Nuclear medicine

Recommended or required literature:

. ŠAJTER, V. a kol.: Biofyzika, biochémia a rádiológia. Martin, Osveta, 2006, 226 s. 2. HRAZDÍRA, I. – MORNSTEIN, V.: Lékařská biofyzika a přístrojová technika. Brno, Neptun 2004, 396 s.

3. Chrapan, J.: Základy biofyziky 1. Ružomberok, KU, 2004, 143s.

4. Chrapan, J.: Základy biofyziky 2. Ružomberok, KU, 2009, 241s.

5. ROSINA, J. - VRÁNOVÁ, J. a kol.: Biofyzika pre zdravotnické a biomedicínske odbory. Praha, Grada 2013. 224 s.

6. NAVRÁTIL, L. - ROSINA, J. a kol.: Medicínska biofyzika. Praha, GRADA, 2005, 524s.

Language of instruction:

Slovak language

Notes:

Course evaluation:

Assessed students in total: 42

1 issessed stade					
А	В	С	D	E	FX
35.71	35.71	16.67	7.14	2.38	2.38

Name of lecturer(s): doc. MUDr. Pavol Dubinský, PhD., RNDr. Lucián Zastko, PhD., RNDr. Andrea Tvarožná

Last modification: 11.09.2022

Supervisor(s):

•	•				
Faculty: Facult	y of Health				
Course code: KLVM/54L1019		urse title: Clinic	cal Practice 1		
Form of instr		0	and teaching m	ethods:	
Credits: 3	We	orking load: 75	hours		
Recommended	semester/trimes	ster: 1.			
Level of study:	I.				
Prerequisities:					
-	for passing the c ester: 100% part				
-	oretical knowled	-	-	procedures used	
To deepen theo biochemistry, h skills Theoretical know workplaces, the methodologies	oretical knowled rematology, imm owledge: student spectrum of thei	s gradually gain r diagnostics and	ogy and microb an overview of l at the same time	procedures used iology, while acq the scope of wo learn the princip dologies under th	uiring practical rk of individual les of individual
To deepen theo biochemistry, h skills Theoretical know workplaces, the methodologies Practical skills: a lecturer Course content Gradually get a 1. with their dat 2. with safety, f 3. with docume 4. with current	oretical knowled nematology, imm owledge: student spectrum of thei students repeate	s gradually gain r diagnostics and dly practice som ll workplaces: regulations o their work, ment,	ogy and microb an overview of at the same time e selected metho	iology, while acq the scope of wo e learn the princip dologies under th	uiring practical rk of individual les of individual
To deepen theo biochemistry, h skills Theoretical know workplaces, the methodologies Practical skills: a lecturer Course content Gradually get a 1. with their dat 2. with safety, f 3. with docume 4. with current 5. with some se	oretical knowled rematology, imm owledge: student spectrum of their students repeate students s	s gradually gain r diagnostics and dly practice som ll workplaces: regulations their work, ment, on methods of th	ogy and microb an overview of at the same time e selected metho	iology, while acq the scope of wo e learn the princip dologies under th	uiring practical rk of individual les of individual
To deepen theo biochemistry, h skills Theoretical know workplaces, the methodologies Practical skills: a lecturer Course content Gradually get a 1. with their dat 2. with safety, f 3. with docume 4. with current 5. with some se	oretical knowled ematology, imm owledge: student spectrum of thei students repeate students repeate s: cquainted with a ily operation, ire and hygiene r ntation related to laboratory equip lected examinati or required lite	s gradually gain r diagnostics and dly practice som ll workplaces: regulations their work, ment, on methods of th	ogy and microb an overview of at the same time e selected metho	iology, while acq the scope of wo e learn the princip dologies under th	uiring practical rk of individual les of individual
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To deepen theo biochemistry, h skills Theoretical know workplaces, the methodologies Practical skills: a lecturer Course content Gradually get a 1. with their dat 2. with safety, f 3. with docume 4. with current 5. with some se Recommended Language of in	oretical knowled mematology, immovie owledge: student espectrum of their students repeate s: cquainted with a ily operation, fire and hygiene r ntation related to laboratory equip elected examinati or required lite struction: ion:	s gradually gain r diagnostics and dly practice som ll workplaces: regulations their work, ment, on methods of th	ogy and microb an overview of at the same time e selected metho	iology, while acq the scope of wo e learn the princip dologies under th	uiring practical rk of individual les of individual
To deepen theo biochemistry, h skills Theoretical knoworkplaces, the methodologies Practical skills: a lecturer Course content Gradually get a 1. with their dat 2. with safety, f 3. with docume 4. with current 5. with some se Recommended Language of in Notes: Course evaluat	oretical knowled mematology, immovie owledge: student espectrum of their students repeate s: cquainted with a ily operation, fire and hygiene r ntation related to laboratory equip elected examinati or required lite struction: ion:	s gradually gain r diagnostics and dly practice som ll workplaces: regulations their work, ment, on methods of th	ogy and microb an overview of at the same time e selected metho	iology, while acq the scope of wo e learn the princip dologies under th	uiring practical rk of individual les of individual

Name of lecturer(s): PhDr. Helena Habiňáková, RNDr. Ivana Turzová, Mgr. Miriam Tupá, doc. RNDr. Jaroslav Timko, PhD., RNDr. Lucián Zastko, PhD.

Last modification: 11.09.2022

Supervisor(s):

	· · · · · · · · · · · · · · · · ·	in Ružomberok			
Faculty: Facult	y of Health				
Course code: KLVM/54L102		urse title: Clinic	eal Practice 2		
Form of instr		rning activities a semester: 144s	and teaching m	ethods:	
Credits: 3	Wa	orking load: 75 l	nours		
Recommended	semester/trimes	ster: 2.			
Level of study:	I.				
Prerequisities:	KLVM/54L1019	W/22			
-	for passing the c ester: 100% parti				
niochemistry h	ematology imm	unalagy nathal	-	-	l in the field of
skills Theoretical know workplaces, the methodologies	owledge: students spectrum of thei	s gradually gain r diagnostics and	an overview of at the same time	tology, while act the scope of wo learn the princip	quiring practical ork of individual oles of individual ne supervision of
skills Theoretical know workplaces, the methodologies Practical skills: a lecturer Course content Gradually get a 1. with their dat 2. with safety, f 3. with docume 4. with current	owledge: students spectrum of thei students repeated students repeated students repeated	s gradually gain r diagnostics and dly practice some ll workplaces: egulations their work, nent,	an overview of at the same time e selected metho	iology, while acc the scope of wo e learn the princip dologies under th	quiring practical ork of individual oles of individual
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Name of lecturer(s): PhDr. Helena Habiňáková, Mgr. Iveta Čučvarová, doc. RNDr. Jaroslav Timko, PhD., RNDr. Lucián Zastko, PhD.

Last modification: 11.09.2022

Supervisor(s):

	5	in Ružomberok			
Faculty: Facult	y of Health				
Course code: KLVM/54L104		urse title: Clinic	cal Practice 3		
Form of instr		rning activities a semester: 144s	and teaching m	ethods:	
Credits: 3	Wo	orking load: 75 l	hours		
Recommended	semester/trimes	ster: 3.			
Level of study:	I.				
Prerequisities:	KLVM/54L1020	W/22			
-	for passing the c ester: 100% parti				
biochemistry h	amental are imame				
skills Theoretical know workplaces, the methodologies	owledge: students spectrum of thei	s gradually gain r diagnostics and	an overview of at the same time	the scope of we elearn the princip	quiring practical ork of individual oles of individual he supervision of
skills Theoretical know workplaces, the methodologies Practical skills: a lecturer Course content Gradually get a 1. with their dat 2. with safety, f 3. with docume 4. with current	owledge: students spectrum of thei students repeated students repeated s: cquainted with al	s gradually gain r diagnostics and dly practice some ll workplaces: egulations their work, nent,	an overview of at the same time e selected metho	the scope of wo	ork of individual ples of individual
skills Theoretical know workplaces, the methodologies Practical skills: a lecturer Course content Gradually get a 1. with their dat 2. with safety, f 3. with docume 4. with current 5. with some se	owledge: students spectrum of their students repeated students rep	s gradually gain r diagnostics and dly practice some ll workplaces: egulations their work, nent, on methods of th	an overview of at the same time e selected metho	the scope of wo	ork of individual ples of individual
skills Theoretical know workplaces, the methodologies Practical skills: a lecturer Course content Gradually get a 1. with their dat 2. with safety, f 3. with docume 4. with current 5. with some se	owledge: students spectrum of their students repeated students rep	s gradually gain r diagnostics and dly practice some ll workplaces: egulations their work, nent, on methods of th	an overview of at the same time e selected metho	the scope of wo	ork of individual ples of individual
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Name of lecturer(s): PhDr. Helena Habiňáková, Mgr. Iveta Čučvarová, doc. RNDr. Jaroslav Timko, PhD., RNDr. Lucián Zastko, PhD., MUDr. Adrian Kališ, PhD.

Last modification: 11.09.2022

Supervisor(s):

Faculty Facult		in Ružomberok			
racuity. racuit	y of Health				
Course code: KLVM/54L1046		urse title: Clinic	al Practice 4		
Form of instr		rning activities a semester: 144s	and teaching m	ethods:	
Credits: 3	Wo	orking load: 75 l	nours		
Recommended	semester/trimes	ster: 4.			
Level of study:	I.				
Prerequisities:	KLVM/54L1045	W/22			
-	for passing the c ester: 100% parti				
skills	ematology, imm	unology, patholo	ogy and microb	iology, while acc	quiring practical
workplaces, the methodologies	spectrum of thei	r diagnostics and	at the same time	the scope of wo e learn the princip	
workplaces, the methodologies Practical skills: a lecturer Course content Gradually get a 1. with their dai 2. with safety, f 3. with docume 4. with current	spectrum of thei students repeated s: cquainted with a	r diagnostics and dly practice some ll workplaces: egulations their work, nent,	at the same time	e learn the princip odologies under th	bles of individual
workplaces, the methodologies Practical skills: a lecturer Course content Gradually get a 1. with their dai 2. with safety, f 3. with docume 4. with current 5. with some se	spectrum of thei students repeated s: cquainted with al ily operation, ire and hygiene r ntation related to laboratory equipt	r diagnostics and dly practice some ll workplaces: egulations their work, nent, on methods of th	at the same time	e learn the princip odologies under th	bles of individual
workplaces, the methodologies Practical skills: a lecturer Course content Gradually get a 1. with their dai 2. with safety, f 3. with docume 4. with current 5. with some se	spectrum of thei students repeated s: cquainted with al ily operation, ire and hygiene r ntation related to laboratory equipi lected examination or required lite	r diagnostics and dly practice some ll workplaces: egulations their work, nent, on methods of th	at the same time	e learn the princip odologies under th	bles of individual
workplaces, the methodologies Practical skills: a lecturer Course content Gradually get a 1. with their dai 2. with safety, f 3. with docume 4. with current 5. with some se Recommended	spectrum of thei students repeated s: cquainted with al ily operation, ire and hygiene r ntation related to laboratory equipi lected examination or required lite	r diagnostics and dly practice some ll workplaces: egulations their work, nent, on methods of th	at the same time	e learn the princip odologies under th	bles of individual
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Name of lecturer(s): PhDr. Helena Habiňáková, Mgr. Iveta Čučvarová, doc. RNDr. Jaroslav Timko, PhD., RNDr. Lucián Zastko, PhD.

Last modification: 11.09.2022

Supervisor(s):

E14 E 14		in Ružomberok			
Faculty: Faculty	y of Health				
Course code: KLVM/54L1059		urse title: Clinic	cal Practice 5		
Form of instr		rning activities a semester: 144s	and teaching m	ethods:	
Credits: 3	Wa	orking load: 75	hours		
Recommended	semester/trimes	ster: 5.			
Level of study:	I.				
Prerequisities:	KLVM/54L1046	W/22			
-	for passing the c ester: 100% parti				
	ematology, imm	unology, pathol	and mieran		
workplaces, the methodologies	spectrum of thei	s gradually gain r diagnostics and	an overview of at the same time	the scope of wo e learn the princip dologies under th	bles of individual
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Theoretical knoworkplaces, the methodologies Practical skills: a lecturer Course content Gradually get and 1. with their dai 2. with safety, fr 3. with document 4. with current b 5. with some se	spectrum of thei students repeated s: cquainted with a ly operation, ire and hygiene r ntation related to laboratory equipt	s gradually gain r diagnostics and dly practice some ll workplaces: egulations their work, nent, on methods of th	an overview of at the same time e selected metho	the scope of wo e learn the princip dologies under th	ork of individual oles of individual
Theoretical knoworkplaces, the methodologies Practical skills: a lecturer Course content Gradually get and 1. with their dai 2. with safety, fr 3. with document 4. with current b 5. with some se	spectrum of thei students repeated s: cquainted with a ly operation, ire and hygiene r ntation related to laboratory equipi- lected examination or required lite	s gradually gain r diagnostics and dly practice some ll workplaces: egulations their work, nent, on methods of th	an overview of at the same time e selected metho	the scope of wo e learn the princip dologies under th	ork of individual oles of individual
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Theoretical knoworkplaces, the methodologies Practical skills: a lecturer Course content Gradually get and 1. with their dai 2. with safety, fr 3. with documer 4. with current l 5. with some set Recommended Language of inst Notes: Course evaluat	spectrum of thei students repeated s: cquainted with a ly operation, ire and hygiene r ntation related to laboratory equipt lected examination or required lite struction: ion:	s gradually gain r diagnostics and dly practice some ll workplaces: egulations their work, nent, on methods of th	an overview of at the same time e selected metho	the scope of wo e learn the princip dologies under th	ork of individual oles of individual

Name of lecturer(s): RNDr. Ivana Turzová, RNDr. Katarína Ondrášiková, Mgr. Miriam Tupá, doc. RNDr. Jaroslav Timko, PhD., RNDr. Lucián Zastko, PhD.

Last modification: 11.09.2022

Supervisor(s):

University: Catholic University in Ružomberok				
Faculty: Faculty of Health				
Course code: KLVM/54L1016W/22	Course title: Communication			
Form of instruction: Lect Recommended study ran	ge: ours per semester: 24 / 24			
Credits: 4	Working load: 100 hours			
Recommended semester/tr	imester: 2.			
Level of study: I.				
Prerequisities:				
of verbal and nonverbal con seminars must be - 100%, stu- meet at least 60% criteria (f expression, adherence to the presentation, the pros and co- will not be admitted to the v	ts are actively involved in the teaching process (presentations, practice mmunication) in the practical mastery of the subject, participation in udents will prepare a seminar paper with a presentation, where they will formal page, content page, absence of errors in verbal and non-verbal e time horizon of 5 minutes, method of submission). At the end of the ons, self-reflection are evaluated. If the criteria are not met, the student written part of the final exam. sed on the fulfillment of the criteria within the exercises and the overall			
interpersonal communication student acquires competencia affect perception and comm Theoretical knowledge: The communication. It character of conversation, eliminates of attributes of assertive comm Practical skills: the student exercises, applies the acquir paralinguistic aspects of co practice. Course contents:	tims of the course unit: To acquire knowledge, skills in the field of on, to lead to communication skills in mutual interaction so that the ies in the field of interpersonal communication. Point out mistakes that nunication. Training in solving problem situations in practice. e student defines communication, the basic division of concepts within rizes the types of communication, masters the structure and principles communication bad habits, acquires elements of empathy, describes the nunication. applies the acquired knowledge during theoretical teaching within the ired knowledge in the field of nonverbal and verbal communication, mmunication, assertiveness, empathy, evaluation and devaluation in			
 Characteristics of social c Nonverbal communication Paralinguistic aspects of c Verbal communication - c Rules of proper listening Verbal expressions 	communication. characteristics			

- 7. Interview characteristics, structure of the interview
- 8. Questions in interviews
- 9. Forms and types of interviews
- 10. Empathy
- 11. Evaluation and devaluation
- 12. Assertiveness

Recommended or required literature:

1. CHALUPA, R. 2012. Efektivní krízová komunikace. Praha, Grada 2012, 169 s. ISBN 978-80-247-4234-2

2. PTÁČEK, R. 2011. Etika a komunikace v medicíně. Praha, Grada 2011, 528 s. ISBN 978-80-247-3976-2

3. HUMENÍK IVAN, SZANISZLÓ M. 2012. Biomedicínsky výskum, právne, etiky, filozoficky. Bratislava, Eurokódex, 2012 336 s. ISBN 978-80-89447-73-2

4. JEMELKA PETER, 2013. Kapitoly z aplikovanej etiky III. Úvod do bioetiky, Michal Vaško, 2013, 92.s. ISBN 978-80-7165-905-1

5. LITTVA, V a kol. 2019. Profesijná aplikovaná etika vo verejnom zdravotníctve, Verbum, Ružomberok, 2019, 174 s. ISBN 978-80-561-0694-5

6. LITTVA, V. a kol. 2020. Profesijná aplikovaná etika v urgentnej zdravotnej starostlivosti, Verbum, Ružomberok, 2020, 281 s. ISBN 978-80-561-0835-2

7. VÁCHA MAREK, 2012. Základy moderní lékařské etiky, Portál 2012, 302 s. ISBN 978-80-7367-780-0

Language of instruction:

slovak language

Notes:

The course is taught only in the summer semester and is evaluated only in the relevant examination period of the summer semester of the academic year.

Course evaluation:

Assessed students in total: 28

А	В	С	D	Е	FX
64.29	14.29	7.14	3.57	7.14	3.57

Name of lecturer(s): doc. PhDr. Mgr. Vladimír Littva, PhD., MPH, PhDr. Mária Lehotská, PhD., PhDr. Marcela Ižová, PhD.

Last modification: 11.09.2022

Supervisor(s):

University: Catholic University in Ružomberok				
Faculty: Faculty of Health				
Course code: KLVM/54L1008Y/22	Course title: English Language 1			
Type and range of planned Form of instruction: Sen Recommended study ran hours weekly: 1 hou Teaching method: on-site	nge: rs per semester: 12			
Credits: 1	Working load: 25 hours			
Recommended semester/t	rimester: 1.			
Level of study: I.				
Prerequisities:				
will be automatically regis condition, must pass an o conditioned by a maximum Course evaluation: A – 100 %-93 % B – 92 %	will get A from all these tests (except one other mark than A (not FX) or one absence) the seminar will be automatically registered in the university system. The students, who will not meet this condition, must pass an oral exam in the exam period. The participation in the final exam is conditioned by a maximum of two absences during the semester or two FX from the tests. Course evaluation: A – 100 %-93 % B – 92 %-85 % C – 84 %-77 % D – 76 %-69 % E – 68 %-60 % FX – 59 %- 0 %			
command the translation of Theoretical knowledge: Th the medical topic.	course: b head the students towards individual work with the english text, to f an english medical text, to develop the students communication skills. he student is able to use grammar correctly during the conversation on student can actively and promptly communicate in the hospital.			
Job interview. Language profession. Vocabulary: Ho Listening 1: Directions. Lis admissions procedure. Rea Patient record form. Langua Recommended or require				
 Grice, T.: Nursing 1, Oxford English for Careers, Oxford University Press, 2012 Džuganová, B.: Angličtina pre lekárov a pracovníkov v zdravotníctve. Easton Books, Bratislava,2014 Džuganová, B.: Medical English in Use, Martin, Osveta, 2010 Glendinning, E.H.: Professional English in Use Medicine, Cambridge University Press, Cambridge 2007 				

Language of instruction:

Slovak, English language

Notes:

This course is taught during the winter semester and is evaluated during the exam period of the winter semester.

Course evaluation:

Assessed students in total: 41

А	В	С	D	Е	FX
70.73	9.76	9.76	2.44	4.88	2.44

Name of lecturer(s): RNDr. PaedDr. Mária Nováková, PhD., MBA, PaedDr. Martin Pinkoš, doc. PhDr. Mgr. Vladimír Littva, PhD., MPH, doc. RNDr. Soňa Hlinková, PhD.

Last modification: 11.09.2023

Supervisor(s):

Person responsible for the delivery, development and quality of the study programme:

doc. RNDr. Jaroslav Timko, PhD.

University: Catholic Uni	versity in Ružomberok
Faculty: Faculty of Healt	h
Course code: KLVM/54L1017Y/22	Course title: English Language 2
Form of instruction: S Recommended study r	range: ours per semester: 12
Credits: 1	Working load: 25 hours
Recommended semester	/trimester: 2.
Level of study: I.	
Prerequisities: KLVM/54	4L1008Y/22
A from all these tests (ex- be automatically register this condition, must pass conditioned by a maximu Course evaluation: $A - 1$ % FX - 59 %- 0 % Learning outcomes of the	beginning of every lesson a short test will take place. If a student will get xcept one other mark than A (not FX) or one absence) the seminar will ed in the university information system. The students, who will not meet an oral exam in the exam period. The participation in the final exam is um of two absences during the semester or two FX from the tests. 00 %-93 % B – 92 %-85 % C – 84 %-77 % D – 76 %-69 % E – 68 %-60
command the translation Theoretical knowledge: T the medical topic.	of an english medical text, to develop the students communication skills. The student is able to use grammar correctly during the conversation on e student can actively and promptly communicate in the hospital.
Instructions. Reading: A Shock. Information post chart. Language spot: N	Language spot: Instructions. Speaking: Giving instructions. Listening: A suprise passenger. It's my job - Jeff Oliver. Signs and symptoms: er: First aid for motorists. Pain and describing pain. Listening: A pain Making comparisons. Reading: Pain. Patient care: Questions to assess ication about pain. Listening: Symptoms. Language spot: Question forms g an Mystery syndromes
 6. Džuganová, B.: Anglič Bratislava,2014 7. Džuganová, B.: Medic 	red literature: Oxford English for Careers, Oxford University Press, 2012 čtina pre lekárov a pracovníkov v zdravotníctve. Easton Books, al English in Use, Martin, Osveta, 2010 ofessional English in Use Medicine, Cambridge University Press,

Language of instruction:

English language, Slovak language

Notes:

This course is taught during the summer semester and is evaluated during the exam period of the summer semester.

Course evaluation:

Assessed students in total: 21

А	В	С	D	Е	FX
66.67	9.52	14.29	0.0	4.76	4.76

Name of lecturer(s): RNDr. PaedDr. Mária Nováková, PhD., MBA, PaedDr. Martin Pinkoš, doc. PhDr. Mgr. Vladimír Littva, PhD., MPH, doc. RNDr. Soňa Hlinková, PhD.

Last modification: 11.09.2022

Supervisor(s):

Person responsible for the delivery, development and quality of the study programme:

doc. RNDr. Jaroslav Timko, PhD.

University: Catholic Unive	ersity in Ružomberok		
Faculty: Faculty of Health			
Course code: KLVM/54L1032Y/22	Course title: English Language 3		
Form of instruction: Ser Recommended study ran	nge: rs per semester: 12		
Credits: 1	Working load: 25 hours		
Recommended semester/t	rimester: 3.		
Level of study: I.			
Prerequisities: KLVM/54L	.1017Y/22		
absence) the seminar will be will not meet this condition exam is conditioned by a m Course evaluation: $A - 100$ % FX - 59 %- 0 % Learning outcomes of the The aim of the course: To command the translation of	b head the students towards individual work with the english text, to f an english medical text, to develop the students communication skills.		
the medical topic.	the student is able to use grammar correctly during the conversation on student can actively and promptly communicate in the hospital.		
Course contents: Blood. Vocabulary: Testing blood. Listening 1: Blood types. Writing: Describing blood types. Listening 2: A blood test. Language spot: Zero and first conditional. Body bits: The heart. Reading: Blood pattern analysis. Hygiene. Vocabulary: Hygiene equipment. Listening 1: Hygiene report. Language spot: Talking about obligation. Writing: Notice. Listening 2: Test results. Reading: Ask the nurse. Monitoring the patient – taking vital signs. Vocabulary: Describing readings, Coma patient and hypothermia. Language spot: The Passive. Reading: General Anaesthetic. Listening 2: A scan.			
 Recommended or required literature: 1. Grice, T.: Nursing 1, Oxford English for Careers, Oxford University Press, 2012 2. Džuganová, B.: Angličtina pre lekárov a pracovníkov v zdravotníctve. Easton Books, Bratislava,2014 3. Džuganová, B.: Medical English in Use, Martin, Osveta, 2010 4. Glendinning, E.H.: Professional English in Use Medicine, Cambridge University Press, Cambridge 2007 			

Language of instruction:

Slovak, English language

Notes:

This course is taught during the winter semester and is evaluated during the exam period of the winter semester.

Course evaluation:

Assessed students in total: 24

А	В	С	D	Е	FX
75.0	8.33	8.33	0.0	0.0	8.33

Name of lecturer(s): RNDr. PaedDr. Mária Nováková, PhD., MBA, PaedDr. Martin Pinkoš, doc. PhDr. Mgr. Vladimír Littva, PhD., MPH, doc. RNDr. Soňa Hlinková, PhD.

Last modification: 13.09.2023

Supervisor(s):

Person responsible for the delivery, development and quality of the study programme:

doc. RNDr. Jaroslav Timko, PhD.

se title: English Language 4 ng activities and teaching methods: emester: 12 ting load: 25 hours r: 4. 22 Urse: tage 3 of every lesson a short test will take place. If a student will get other mark than A (not FX) or one absence) the seminar will university information system. The students, who will not meet xam in the exam period. The participation in the final exam is absences during the semester or two FX from the tests. % B – 92 %-85 % C – 84 %-77 % D – 76 %-69 % E – 68 %-60					
Ing activities and teaching methods: emester: 12 ing load: 25 hours r: 4. 22 Inse: lage 3 of every lesson a short test will take place. If a student will get other mark than A (not FX) or one absence) the seminar will university information system. The students, who will not meet xam in the exam period. The participation in the final exam is absences during the semester or two FX from the tests.					
emester: 12 ing load: 25 hours r: 4. 22 Urse: lage 3 of every lesson a short test will take place. If a student will get other mark than A (not FX) or one absence) the seminar will university information system. The students, who will not meet xam in the exam period. The participation in the final exam is absences during the semester or two FX from the tests.					
r: 4. 22 arse: age 3 of every lesson a short test will take place. If a student will get other mark than A (not FX) or one absence) the seminar will university information system. The students, who will not meet xam in the exam period. The participation in the final exam is absences during the semester or two FX from the tests.					
22 Trse: Tage 3 of every lesson a short test will take place. If a student will get other mark than A (not FX) or one absence) the seminar will university information system. The students, who will not meet xam in the exam period. The participation in the final exam is absences during the semester or two FX from the tests.					
age 3 of every lesson a short test will take place. If a student will get other mark than A (not FX) or one absence) the seminar will university information system. The students, who will not meet xam in the exam period. The participation in the final exam is absences during the semester or two FX from the tests.					
age 3 of every lesson a short test will take place. If a student will get other mark than A (not FX) or one absence) the seminar will university information system. The students, who will not meet xam in the exam period. The participation in the final exam is absences during the semester or two FX from the tests.					
age 3 of every lesson a short test will take place. If a student will get other mark than A (not FX) or one absence) the seminar will university information system. The students, who will not meet xam in the exam period. The participation in the final exam is absences during the semester or two FX from the tests.					
he students towards individual work with the english text, to					
command the translation of an english medical text, to develop the students communication skills. Theoretical knowledge: The student is able to use grammar correctly during the conversation on the medical topic. Practical knowledge: The student can actively and promptly communicate in the hospital.					
d forms of medication. Listening: Patient medication. Patient going to and Present continuous for future. Reading: Pandemic vocabulary and diagnostics.					
ture: nglish for Careers, Oxford University Press, 2012 lekárov a pracovníkov v zdravotníctve. Easton Books, sh in Use, Martin, Osveta, 2010 ll English in Use Medicine, Cambridge University Press,					

Notes:

This course is taught during the summer semester and is evaluated during the exam period of the summer semester.

Course evaluation: Assessed students in total: 7					
А	В	С	D	Е	FX
71.43	14.29	14.29	0.0	0.0	0.0
Name of lecturer(s): RNDr PaedDr Mária Nováková PhD MBA PaedDr Martin Pinkoš doc					

Name of lecturer(s): RNDr. PaedDr. Mária Nováková, PhD., MBA, PaedDr. Martin Pinkoš, doc. PhDr. Mgr. Vladimír Littva, PhD., MPH, doc. RNDr. Soňa Hlinková, PhD.

Last modification: 11.09.2022

Supervisor(s):

University: Catholic Univer	sity in Ružomberok				
Faculty: Faculty of Health					
Course code: Course title: Examination Methods in Biochemistry KLVM/54L1038W/22					
Form of instruction: Lect Recommended study ran	ge: ours per semester: 24 / 12				
Credits: 4	Working load: 100 hours				
Recommended semester/tr	imester: 4.				
Level of study: I.					
Prerequisities:					
obtain a maximum of 20 pc the written tests. At the final lectures and at all practical s	will be 3 written test at the lectures, for each of which it is possible to bints. To sit the exam, it is necessary to obtain at least 40 points from al oral exam, the student can get max. 90 points. Presence min. at 10				
examination of common an to provide basic common hematology, microbiology. Theoretical knowledge: bio in particular, expression o interferences, basic princip methods; basic knowledge f laboratory, accreditation, ce	ide theoretical knowledge and practical skills for mastering the halytes in the clinical biochemistry laboratory and at the same time knowledge of LEM for mastering selected laboratory methods in analytical chemistry in laboratory medicine and clinical biochemistry f analytical results, preanalytical phase and influence of possible bles of photometry, electromigration, separation, immunochemical for the use of molecular biological methods. Information system in the				
A. Theoretical background	n laboratory medicine and clinical biochemistry in particular analytical results.				

- 3. Pre-analytical phase, collection, transport, and storage of samples.
- 4. Work safety in laboratories of laboratory medicine disciplines
- 5. Quality management control, certification, accreditation, process maps.
- 6. Refractometry, osmometry, examination of urine with strips manually and using urine analyzer
- 7. Optical spectral methods, absorption and emission spectral methods, spectra, detection, division
- of instrumentation, automation,
- 8. Buffers in bioanalytics, preparation, work with scales and analytical ones.
- 9. Indicator reactions
- 10. Enzymes in bioanalytics
- 11. Immunochemical analyzes
- 12. Biochemical analyzers
- 13. Selected separation methods,
- 14. Immunoanalytical methods especially turbidimetry, ELISA, chemiluminescence

B. Practical application and selection or the possibility of using bioanalytical methods in the determination of common analytes with a more detailed description of the methodology

Recommended or required literature:

1. Pullmann, R, Pavlovič M: Laboratórne nálezy a ich klinická aplikácia, RAABE

- Slovensko,2008-2014-vybrané kapitoly
- 2. Stern et al.:Klinická a obecná biochemie, KU Praha, 2011
- 3. Meško D, Pullmann R, Nosálová G: Vademekum klinickej biochémie, Osveta Martin, 2005

Language of instruction:

Notes:

Course evaluation:

Assessed students in total: 9

А	В	С	D	Е	FX	
33.33	11.11	33.33	0.0	22.22	0.0	

Name of lecturer(s): doc. MUDr. Ivan Solovič, CSc., Mgr. Anton Vaňuga, PhD.

Last modification: 11.09.2022

Supervisor(s):

University: Catholic Unive	rsity in Ružomberok				
Faculty: Faculty of Health					
Course code:Course title: Examination Methods in Biochemistry 2KLVM/54L1049W/22					
Form of instruction: Lec Recommended study rar	nge: ours per semester: 12 / 36				
Credits: 4	Working load: 100 hours				
Recommended semester/tr	rimester: 5.				
Level of study: I.					
Prerequisities: KLVM/54L	1038W/22				
obtain a maximum of 20 p the written tests. At the fin lectures and at all practical The final evaluation will b oral exam. Course evaluation: A - 100% -90% B - 89% -80% C - 79% -70% D - 69% -60% E - 59% -45% FX - 44% -	will be 4 written test at the lectures, for each of which it is possible to oints. To sit the exam, it is necessary to obtain at least 40 points from al oral exam, the student can get max. 90 points. Presence min. at 10 sessions. e based on the total number of points obtained from the tests and the				
common analytes in the cl	course: nowledge and practical skills for the evaluation of examinations of inical biochemistry laboratory and at the same time to provide basic M for the evaluation of laboratory work in hematology, microbiology.				

Information system in the laboratory, accreditation, certification, basics of chemometrics,

2-basic and selected more demanding laboratory procedures in molecular-biological diagnostics. Theoretical knowledge: theory of reference values, basics of chemometrics,

Practical skills: application of selected statistical methods for the determination of basic clinicalbiochemical analytes, mastering the principles of certification and accreditation of the laboratory and application to selected analytes

Course contents:

- A. Basics of molecular genetics important for clinical practice
- 1. Analytical methods used in clinical molecular genetic diagnostics an overview
- 2. Isolation of nucleic acids

3. Actual analytical procedures, reverse transcription, electrophoretic procedures, amplification methods, hybridization methods

- 4. Basic instrumentation thermocyclers, instruments for RT-PCR
- 5. Methods of restriction fragment analysis, PCR and RT-PCR
- 6. Overview of clinically significant and currently investigated polymorphisms
- B. Basics of chemometrics:
- 7. Basic statistical concepts, averages,

8. Theory of errors, distribution of random variables, frequency functions, exploratory analysis of one-dimensional data, quantiles, sample size,

9. Hypothesis testing, correlation, and regression analysis.

10. Theory of reference values and an example of a practical approach to their creation (supplied data) statistical processing of epidemiological studies.

11.Quality control, statistical programs in the daily routine activities of laboratories

C. Accreditation processes, certification and process map

12. Preparation of the laboratory for accreditation and re-accreditation

Recommended or required literature:

.Pullmann, R, Pavlovič M: Laboratórne nálezy a ich klinická aplikácia, RAABE Slovensko,2008-2014-vybrané kapitoly

2. Stern et al.:Klinická a obecná biochemie, KU Praha, 2011

3. Meško D, Pullmann R, Nosálová G: Vademekum klinickej biochémie, Osveta Martin, 2005

Language of instruction:

Slovak

Notes:

Course evaluation:

Assessed students in total: 13

110000000000000000000000000000000000000					
А	В	С	D	Е	FX
30.77	38.46	23.08	7.69	0.0	0.0

Name of lecturer(s): doc. MUDr. Ivan Solovič, CSc., Mgr. Anton Vaňuga, PhD.

Last modification: 11.09.2022

Supervisor(s):

University: Catholic Univ	University: Catholic University in Ružomberok					
Faculty: Faculty of Health						
Course code: KLVM/54L1037W/22	Course title: Examination Methods in Haematology and Transfusion					
Form of instruction: L Recommended study r	ange: hours per semester: 12 / 24					
Credits: 4	Working load: 100 hours					
Recommended semester.	'trimester: 4.					
Level of study: I.						
Prerequisities:						
maximum of 25 points can at least 25 points from the can get max. 50 points.	g the course: re will be two written examinations / practical exams in the lectures (a be obtained for each). To participate in the exam, it is necessary to obtain examinations and practical exams. At the final written exam, the student based on the total number of points obtained from examinations, practical					
emphasis on the pre-anal	e course: wledge in the field of laboratory hematology and transfusiology with ytical and analytical phase of blood sampling and examination. Ability					

emphasis on the pre-analytical and analytical phase of blood sampling and examination. Ability to prepare and microscopic evaluation of peripheral blood and bone marrow smears with the possibility of using special cytochemical examinations. Application of complex knowledge in the evaluation of laboratory tests.

Theoretical knowledge:

The student defines and identifies the individual phases of the laboratory examination. It describes the possibilities of counting blood cells using cytochemical examinations. It evaluates aspects of additional examinations, analyzes and compares theoretical knowledge with the achieved examinations.

Practical skills:

Performs basic blood tests, microscopic and special cytochemical tests. Addresses interferences and discrepancies in laboratory tests. Comprehensively demonstrates knowledge in diagnostic units.

Course contents:

1. Lectures: Quality control in the hematology laboratory - internal and external quality control Exercises: Practical application of SI units in the laboratory.

2. Lectures: Pre-analytical phase of the examination - blood collection, transport of material, preparation and processing of biological material before the examination. Anticoagulant solutions.

Exercises: Pre-analytical, analytical and post-analytical phase in the hematology laboratory, ensuring identification and traceability during the entire laboratory process, preparation of samples for analysis, centrifugation and sorting. Collection, transport, processing and storage of blood samples. Blood sampling.

3. Lectures: Blood count, Possibilities of counting blood cells (microscopic determination, electronic

counting of blood cells, automatic analyzers. Parameters of blood cells.

Exercises: General principles of blood cell counting. Counting erythrocytes, leukocytes, platelets, eosinophils, reticulocytes. Counting in chambers (Burker, Neubauer and Nageotte chambers). 4. Lectures: Differential leukocyte budgeting.

Exercises: Technique of paint determination, paint evaluation.

5. Lectures: Interferences in hemograms.

Exercises: examples of interferences and their evaluation.

6. Seminar: Interpretation of hematological results. Written examination and practical exam.

7. Lectures: Cytochemical examination (phosphatases, esterases, peroxidases, glucuronidases), iron staining, PAS reaction, Sudan black.

Exercises: practical laboratory diagnostics.

8. Lectures: Cytology and histology of bone marrow, lumbar puncture, punctures from other organs and body fluids. Other morphological examinations (Heinz bodies, basophilic erythrocyte spotting, schistocytes, non-segmented granuocytes, L.E. cells, lymphocytes in phase contrast). Exercises: practical laboratory diagnostics.

9. Seminar: Interpretation of peripheral blood and bone marrow smears. Written examination.10. Lectures: Tests for the diagnosis of anemia - basic examination for hemolytic anemia (general tests, tests for the detection of abnormal hemoglobin, tests for the detection of enzyme deficiency, examination for osmotic resistance).

Exercises: practical laboratory diagnostics.

11. Lectures: flow cytometry, cytogenetic and molecular genetic examination methods.

Exercises: practical aspects of flow cytometry, cytogenetic and molecular genetic examinations. 12. Seminar: Interpretation of laboratory results Written examination and practical exam.

Recommended or required literature:

15. Vydra J., Novák J., Lauermannová M. a kol. Hematologie v kostce, Mladá fronta, 2019 16. Sakalová A., Bátorová A., Mistrík M., Hrubiško M. a kol. Klinická hematológia, Osveta,

2010

17. Indrák K. a kol. Hematologie a transfuzní lékařství. Triton, 2014

18. Pecka M. Laboratorní hematologie v přehledu . [2. díl] , Fyziologie a patofyziologie krevní buňky. Český Těšín: FINIDR, 2006

19. Penka M., Tesařová E. Hematologie a transfuzní lékařství I, Grada, 2011

20. Penka M., Tesařová E. Hematologie a transfuzní lékařství II, Grada, 2012

21. Adam Z., Krejč M., Vorlíček J. a kol. Hematologie : přehled maligních hematologických nemocí. Grada ,2008.

Language of instruction:

Slovak language.

Notes:

Course evaluat					
Assessed stude	nts in total: 10				
А	В	С	D	Е	FX
10.0	30.0	30.0	20.0	10.0	0.0
Name of lectur	er(s): doc. RND	. Jaroslav Timko	, PhD., MUDr. Ja	aromír Tupý, Phľ).
Last modificat	ion: 11.09.2022				
	the delivery, developme oslav Timko, PhD	1 0	udy programme:		

Faculty: Faculty of H				
	lealth			
Course code:Course title: Examination Methods in Haematology and TransfusionXLVM/54L1050W/222				
Form of instruction Recommended stu	/ 2 hours per semester: 12 / 24			
Credits: 4	Working load: 100 hours			
Recommended seme	ster/trimester: 5.			
Level of study: I.				
Prerequisities: KLV	M/54L1037W/22			
maximum of 25 point at least 25 points from can get max. 50 point	there will be two written examinations / practical exams in the lectures (at the scan be obtained for each). To participate in the exam, it is necessary to obtain in the examinations and practical exams. At the final written exam, the student ts			
Final evaluation: will tests and a written test Course evaluation: A - 100% -93% B - 92% -85% C - 84% -77% D - 76% -69% E - 68% -60% FX - 59% - 0% Learning outcomes	be based on the total number of points obtained from examinations, practical st.			

The student defines the issues of immunohematology. It identifies the group system of erythrocytes and describes the possibilities of antibody screening. Evaluates compatibility testing, defines the need for examination of blood donors. Analyzes and compares theoretical knowledge with the achieved examinations.

Practical skills:

Performs immunohematological examinations of blood groups and antibody screening. Identifies specific antigens and evaluates compatibility tests. Addresses interferences and discrepancies in laboratory tests. Comprehensively demonstrates knowledge in diagnostic units.

Course contents:

1. Lectures: examination of platelet function and biochemistry. Exercises: practical laboratory

diagnostics.

2. Lectures: systems and methods for examination of hemostasis. Exercises: practical laboratory diagnostics.

3. Lectures: coagulation examination for diagnostic purposes I.

Exercises: principles of coagulation examinations.

4. Lectures: coagulation examination for diagnostic purposes II.

Exercises: special coagulation examinations.

5. Seminar: Interpretation of hemostasisological examinations.

6. Lectures: Immunohematological examinations - determining the blood group of patients.

Antibody screening.

Exercises: practical laboratory diagnostics.

7. Lectures: Immunohematological examinations - determining the blood group of blood donors. Antibody screening.

Exercises: practical laboratory diagnostics.

8. Lectures: direct and indirect antiglobulin test.

Exercises: practical laboratory diagnostics.

9. Lectures: compatibility test, Immunohematological examination of newborns and children up to 4 months of age.

Exercises: practical laboratory diagnostics.

10. Lectures: Documentation ("Request for Blood Preparation and Pre-Transfusion Examination", "Transfusion Record", "Transfusion Response Report", "Questionnaire for Blood, Plasma and Blood Cell Donors". Exercises and Seminar: Documentation blood product and pre-transfusion examination "," Transfusion record "," Transfusion response report "," Questionnaire for blood, plasma and blood cell donors ".

11. Lectures: serological examination of a blood donor. Immunohematology of leukocytes and platelets.

Exercises: practical laboratory diagnostics.

12. Seminar: Interpretation of immunohematological laboratory results Written examination and practical examination.

Recommended or required literature:

Vydra J., Novák J., Lauermannová M. a kol. Hematologie v kostce, Mladá fronta, 2019
 Sakalová A., Bátorová A., Mistrík M., Hrubiško M. a kol. Klinická hematológia, Osveta, 2010

24. Indrák K. a kol. Hematologie a transfuzní lékařství. Triton, 2014

25. Pecka M. Laboratorní hematologie v přehledu . [2. díl] , Fyziologie a patofyziologie krevní buňky. Český Těšín: FINIDR, 2006

26. Penka M., Tesařová E. Hematologie a transfuzní lékařství I, Grada, 2011

27. Penka M., Tesařová E. Hematologie a transfuzní lékařství II, Grada, 2012

28. Adam Z., Krejč M., Vorlíček J. a kol. Hematologie : přehled maligních hematologických nemocí. Grada ,2008.

Language of instruction:

Slovak language.

Notes:

Course evalua Assessed stude	tion: ents in total: 13					
А	В	С	D	E	FX	
15.38	38.46	46.15	0.0	0.0	0.0	
		r. Jaroslav Timko	, PhD., MUDr. J	aromír Tupý, PhD).	
Last modification: 11.09.2022						
-						

University: Catholic Uni Faculty: Faculty of Heal	
Course code: KLVM/54L1051W/22	Course title: Examination Methods in Histology and Cytology
Form of instruction: L Recommended study i	range: hours per semester: 12 / 36
Credits: 4	Working load: 100 hours
Recommended semester	c/trimester: 5.
Level of study: I.	
Prerequisities:	
attend for min. 10 lecture Final evaluation: based of exam (test) Course evaluation: A - 100% -91% B - 92% - 85% C - 84% - 77% D - 76% -69% E - 68% - 60% FX - 59% - 0%	tive participation in lectures. To participate in the exams, it is necessary to es and successful completion of 1 continuous written evaluation. on the evaluation of the number of these points obtained from the written
of tissues and special e molecular biology, in ord methods, identifying fund of cancer and interpretation Theoretical knowledge: student defines, disting examination methods in application of knowledge Practical skills: The student acquires the	aims of the course unit: To teach various methods of histological processing xaminations, including immunohistochemical methods and methods of ler to identify structural abnormalities. Also acquaintance with cytological ctional and structural changes of cells, especially by detecting early stages
 Material processing, in Methods for imaging of 	ation of inorganic substances and pigments

- 5. Methods for the detection of carbohydrates, lipids, enzymes
- 6. Methods of fluorescence microscopy
- 7. Methods of immunohistochemistry and molecular biology
- 8. Gynecological cytology
- 9. Non-gynecological cytology nervous system, gastriintestinal system
- 10. Non-gynecological cytology genitourinary system, respiratory system
- 11. Non-gynecological cytology mammary gland, lymph nodes

12. Non-gynecological cytology - body fluids

Recommended or required literature:

Language of instruction:

Notes:

Course evaluation:

Assessed students in total: 14

А	В	С	D	Е	FX
57.14	35.71	7.14	0.0	0.0	0.0

Name of lecturer(s): prof. MUDr. Anton Lacko, CSc., MUDr. Adrian Kališ, PhD.

Last modification: 11.09.2022

Supervisor(s):

University: Catholic Unive	ersity in Ružomberok
Faculty: Faculty of Health	
Course code: KLVM/54L1024W/22	Course title: Examination Methods in Microbiology
Form of instruction: Lea Recommended study ra	nge: nours per semester: 24 / 24
Credits: 3	Working load: 75 hours
Recommended semester/t	rimester: 3.
Level of study: I.	
Prerequisities:	
obtain a maximum of 20 p to obtain at least 20 points number of points obtained	will be two written examinations within the lectures. It is possible to oints from each. To participate in the final written exam, it is necessary from the examinations. The final evaluation will be based on the total from the written exam. Course evaluation: A - 100% -93% B - 92% 5% -69% E - 68% -60% FX - 59% - 0%
the interdisciplinary meani Theoretical knowledge: stu Practical skills: students	wide students with basic knowledge of medical microbiology, to clarify
Course contents: 1. Gram-negative bacteria 2. Gram-negative bacteria 3. Gram-positive bacteria 4. Acid-resistant bacteria 5. Anaerobic bacteria 6. Spirochetes 7. Other groups of bacteria 8. Medically important virt 9. Medically important virt 10. Medically important virt	2 uses 1 uses 2
Recommended or require 39. TIMKO, J.: Mikrobiolo 40. VOTAVA, M. a kol.: L 41. VOTAVA, M. a kol.: L	

42. BEDNÁŘ, M. a kol.: Lékařská mikrobiologie, Marvil, Praha, 1996

Language of instruction:

English language

Notes:

Course evaluation:

Assessed students in total: 25					
А	В	С	D	Е	FX
16.0	48.0	20.0	8.0	4.0	4.0

Name of lecturer(s): doc. RNDr. Jaroslav Timko, PhD., RNDr. Igor Porvazník, PhD.

Last modification: 11.09.2022

Supervisor(s):

University: Catholic Unive	ersity in Ružomberok	
Faculty: Faculty of Health		
Course code: Course title: First Aid LVM/54L1031W/22 Course title: First Aid		
Form of instruction: Lec Recommended study rat	nge: nours per semester: 12 / 12	
Credits: 2	Working load: 50 hours	
Recommended semester/t	rimester: 3.	
Level of study: I.		
Prerequisities:		
exam, the student can gain on the total points gained f 92 % - 85 % C – 84 % - 77 Learning outcomes of the To analyse system, organis first aid and to develop pro and to use the modern me knowledge of the urgent me in providing of the first ai procedures, the algorithm law aspects, system and org	sation, law aspects of the first aid, to know the general principles of the ofessional knowledge and skills of the students of the study programme thods of work in this field. Theoretical knowledge: The student has a edicine, masters cardiopulmonary resuscitation, is able to orientate onself id and in case of the other acute conditions. Practical skills: to master of the first aid in the sudden states and special situations. To know the	
3. The system, organisation technique and protocols of equipment and show). 5. I resuscitation. 6. Algorithms of sudden states and training	subject, the basic terms of the first aid. 2. Pre-hospital urgent healthcare. n, law aspects, and general principles of the firs aid. 4. The organisation, the first aid in case of the mass accidents and special situations (material History, phases, grades and procedures of urgent cardiopulmocerebral s of the urgent resuscitation of adults and children. 7. The first aid in case ng of first aid providing. 8. The first aid in the gynecology and obsterics. e CPCR. 10. Ethic problems in the resuscitations. 11. The most common	

Recommended or required literature:

- 6. BYDŽOVSKÝ, J.: První pomoc. Praha: Grada Publishing, 2011.
- 7. DOBIÁŠ, V. a kol.: Prednemocničná urgentná medicína. Martin: Osveta, 2007.
- 8. DOBIÁŠ, V.: Urgentná zdravotná starostlivosť. Martin: Osveta, 2007.

9. KELNAROVÁ, J. a kol.: První pomoc I. Praha: Grada, 2012.

- 10. KELNAROVÁ, J. a kol.: První pomocII. Praha: Grada, 2007.
- 11. LEJSEK, J. a kol.: První pomoc. Praha: Karolinum, 2013.
- 12. PLAVKOVÁ, M.: Prvá predlekárska pomoc. Bratislava: Josef Raabe Slovensko, 2013.
- 13. PIŠTEJOVÁ, M., KRAUS, D.: Prvá pomoc v praxi I. Prešov: Rokus, 2017.

Language of instruction:

Slovak

Notes:

Course evaluation:

Assessed	students	in	total.	24
110000000	students	111	ioiui.	4-

А	В	С	D	Е	FX
91.67	4.17	4.17	0.0	0.0	0.0

Name of lecturer(s): doc. MUDr. Milan Minarik, PhD., Ing. Bc. Michal Sekerák, MPH

Last modification: 11.09.2022

Supervisor(s):

University: Catholic Unive	rsity in Ružomberok	
Faculty: Faculty of Health		
Course code:Course title: Focus on Spirituality - Spiriruality of TruthDEKZ/54Z2001W/22Course title: Focus on Spirituality - Spiriruality of Truth		
Type and range of planned Form of instruction: Sen Recommended study ran hours weekly: 1 hour Teaching method: on-site	nge: rs per semester: 12	
Credits: 1	Working load: 25 hours	
Recommended semester/tr	imester: 1.	
Level of study: I.		
Prerequisities:		
discussions, working in grou (60-100%). b) final assessment: Elabor at a personal colloquium (6 The final assessment of the Credit is awarded to a stud fulfilling the specified cond Learning outcomes of the • Knowledge: The student H • Skills: The student can ide • Competencies: The student witness to the truth. Course contents: What it is about - the meani	e student during the spirituality concentration program, participating in ups, participating in cultural, spiritual formation and volunteer activities ation of an essay on 1 standard page of A4 format and its presentation 0-100%). subject corresponds to the verbal assessment: Passed/Not passed. ent who obtained a minimum of 60 out of 100% from the subject for litions. course: has knowledge about the true meaning of life and human identity. entify the true meaning of life and characterize sin and its consequences. t is ready to transform the knowledge of the meaning of life into bearing	
principle of new life. Knov	vledge and consequences of sin. Jesus Christ as the way, the truth and bearing witness to the truth.	
Vojtecha, 2009, 118 s. ISBN 2. Posynodálna apoštolská mladým a celému Božiemu 978-80-8161-368-5. 3. ŠPIDLÍK, T. 2000. Pram Vojtecha, 2000, 558 s. ISBN 4. YOUCAT Katechizmus I	ikta XVI. CARITAS IN VERITATE. 2009. Trnava: Spolok sv. N 978-80-7162-786-9. exhortácia Svätého Otca Františka CHRISTUS VIVIT ľudu. 2019. Trnava: Spolok sv. Vojtecha, 2019, 125 s. ISBN ene svetla: príručka kresťanskej dokonalosti. Trnava: Spolok sv.	

Language of instruction:

Slovak language

Notes:

One study group consists of a maximum of 30 students, so that a personal approach to the students is possible and also so that the students can be divided into small groups with the number of 6 members for the purpose of effective communication.

Course evaluation:

Assessed students in total: 160

NEABS
1.25

98.75

ABSOL

Name of lecturer(s): doc. PhDr. Mgr. Vladimír Littva, PhD., MPH, PaedDr. Martin Pinkoš

Last modification: 11.09.2022

Supervisor(s):

DEKZ/54Z2004W/22 Type and range of planned lea	
DEKZ/54Z2004W/22 Type and range of planned lea	arning activities and teaching methods:
	ar :
Form of instruction: Semina Recommended study range: hours weekly: 1 hours p Teaching method: on-site	
Credits: 1 W	Vorking load: 25 hours
Recommended semester/trime	ester: 4.
Level of study: I.	
Prerequisities:	
 discussions, working in groups, (60-100%). b) final assessment: Elaboratio at a personal colloquium (60-10). The final assessment of the sub Credit is awarded to a student fulfilling the specified condition Learning outcomes of the couter of the student has behavior and actions. 	udent during the spirituality concentration program, participating in , participating in cultural, spiritual formation and volunteer activities on of an essay on 1 standard page of A4 format and its presentation 00%). Deject corresponds to the verbal assessment: Passed/Not passed. who obtained a minimum of 60 out of 100% from the subject for ons.
• Competencies: The student is	s able to experience the Christian faith more personally through a and evil and through a more concrete motivation to do good in the
Course contents: Good and evil, sin and virtue. C sins" and "modern virtues". Sac	Good as an answer to evil. Virtues in the life of a Christian. "Modern cramental Reconciliation.
života. 1995. Trnava: Spolok sv 2. Encyklika Jána Pavla II. VE mravnosti. 1994. Trnava: Spolo	ANGELIUM VITAE o hodnote a nenarušiteľnosti ľudského v. Vojtecha, 1995, 195 s. ISBN: 80-7162-097-1. RITATIS SPLENDOR o základných otázkach cirkevnej náuky o ok sv. Vojtecha, 1994, 180 s. ISBN 80-7162-057-2. olíckej cirkvi pre mladých. 2011. Bratislava: Karmelitánske

Notes:

One study group consists of a maximum of 30 students, so that a personal approach to the students is possible and also so that the students can be divided into small groups with the number of 6 members for the purpose of effective communication.

Course evaluation:

Assessed students in total: 80

ABSOL	NEABS
92.5	7.5

Name of lecturer(s): PaedDr. Martin Pinkoš, doc. PhDr. Mgr. Vladimír Littva, PhD., MPH, RNDr. PaedDr. Mária Nováková, PhD., MBA

Last modification: 11.09.2022

Supervisor(s):

University: Catholic Unive	ersity in Ružomberok
Faculty: Faculty of Health	
Course code: KLVM/54L1040W/22	Course title: Genetics
Type and range of planned Form of instruction: Lec Recommended study ran hours weekly: 2 hou Teaching method: on-site	nge: rs per semester: 24
Credits: 2	Working load: 50 hours
Recommended semester/t	rimester: 4.
Level of study: I.	
Prerequisities:	
obtain a maximum of 20 pe to obtain at least 20 points number of points obtained	will be two written examinations within the lectures. It is possible to oints from each. To participate in the final written exam, it is necessary from the examinations. The final evaluation will be based on the total from the written exam. Course evaluation: A - 100% -93% B - 92% 5% -69% E - 68% -60% FX - 59% - 0%
genetic diseases and ethica Theoretical knowledge: stu	ovide knowledge of basic genetic concepts, basics of human genetics, l principles in genetics. adents will learn selected parts of general genetics and get acquainted gnosis, genetic prognosis of genetic pathological conditions
5. Genetically determined	tics pathological conditions (monogenic diseases) pathological conditions (chromosomal aberrations) with multifactorial type of inheritance natic cells tics (indications, methods) seases iseases
Recommended or require Sršeň, Š., Sršňová, K.: Zák 2005	d literature: lady klinickej genetiky a jej molekulárna podstata, Martin, Osveta,
Language of instruction:	
Notes:	

Course evaluat Assessed stude					
А	В	С	D	E	FX
88.89	39 0.0 0.0 11.11 0.0 0.0				
	er(s): RNDr. Igo ion: 11.09.2022	r Porvazník, PhI	D., doc. RNDr. So	oňa Hlinková, PhI).
-	the delivery, developme oslav Timko, PhD	1 1	udy programme:		

University: Catholic University	sity in Ružomberok			
Faculty: Faculty of Health				
Course code: KLVM/54L1018Y/22	Course title: German Language			
Form of instruction: Sem Recommended study rang				
Credits: 1	Working load: 25 hours			
Recommended semester/tri	commended semester/trimester: 2.			
Level of study: I.				
Prerequisities: KLVM/54L1	009Y/22			
place. If a student will get A absence) the seminar will be will not meet this condition, n exam is conditioned by a ma Course evaluation: A - 100 %-93 % B - 92 %-8 Learning outcomes of the c The aim of the subject: To	head the students towards individual work with the german text, to			
Theoretical knowledge: The the medical topic.	a german medical text, to develop the students communication skills. e student is able to use grammar correctly during the conversation on udent can actively and promptly communicate in the hospital.			
 Course contents: The Body parts. Treatment interview and r Health problems. The pair Grammar: subordinate cla The digestive system. Medicine history: Wilhelr Medical history: Jan Jeser The cells and the tissues. Grammar: modal verbs. Measurement. The numb Documentation in the ho Abdominal organs. 	n inteview. nuses. n Conrad Röntgen. nius. pers 1-1000. Use of measuring instruments.			

Recommended or required literature:

28. HANÁKOVÁ, A. 2021. Němčina pro nelekařské zdravotnické obory. Praha: Grada, 2021, 232 s. ISBN 978-80-271-1717-8.

29. MOKROŠOVÁ, I. – BAŠTOVÁ, L. 2020. Němčina pro lékaře. Praha: Grada, 2004, 416 s. ISBN 978-80-247-2127-9.

30. DŽUGANOVÁ, B. – BARNAU, A. 2017. Nemčina pre lekárov a pracovníkov v zdravotníctve. Praha: Easton Books, 2017, 288 s. ISBN 978-80-810-9319-7.

Language of instruction:

German language, Slovak language

Notes:

This subject is taught during the summer semester and is evaluated during the exam period of the summer semester.

Course evaluation:

Assessed students in total: 1

А	В	С	D	Е	FX
100.0	0.0	0.0	0.0	0.0	0.0

Name of lecturer(s): RNDr. PaedDr. Mária Nováková, PhD., MBA, PaedDr. Martin Pinkoš, doc. PhDr. Mgr. Vladimír Littva, PhD., MPH, doc. RNDr. Soňa Hlinková, PhD.

Last modification: 11.09.2022

Supervisor(s):

University: Catholic Uni	
Faculty: Faculty of Healt	h
Course code: KLVM/54L1009Y/22	Course title: German Language 1
Form of instruction: S Recommended study i	eange: ours per semester: 12
Credits: 1	Working load: 25 hours
Recommended semester	/trimester: 1.
Level of study: I.	
Prerequisities:	
place. If a student will g absence) the seminar wil will not meet this conditi	beginning of every seminar a short test from the previous lesson will take et A from all these tests (except one other mark than A (not FX) or one l be automatically registered in the university system. The students, who on, must pass an oral exam in the exam period. final exam is conditioned by a maximum of two absences during the
to command the translati to develop the students c Theoretical knowledge: The student is able to use Practical knowledge: The student can actively Course contents: 1. First day in the hospita 2. Hierarchy in the hospita 3. The hospital, the depart	ards individual work with the german text, on of a german medical text, ommunication skills. e grammar correctly during the conversation on the medical topic. and promptly communicate in the hospital.
4. In the hospital, in the l5. Graduation of the adje6. Verbs with additions. I	ctives.
	Page: 64

7. Ordinal numbers.

- 8. Requests and Imperative.
- 9. Respiratory system.
- 10. The blood.
- 11. From healing potions to transfusions.
- 12. Separable verbs. Reflexive pronouns. Verbs with accusative and dative.

Recommended or required literature:

25. HANÁKOVÁ, A. 2021. Němčina pro nelekařské zdravotnické obory. Praha: Grada, 2021, 232 s. ISBN 978-80-271-1717-8.

26. MOKROŠOVÁ, I. – BAŠTOVÁ, L. 2020. Němčina pro lékaře. Praha: Grada, 2004, 416 s. ISBN 978-80-247-2127-9.

27. DŽUGANOVÁ, B. – BARNAU, A. 2017. Nemčina pre lekárov a pracovníkov v zdravotníctve. Praha: Easton Books, 2017, 288 s. ISBN 978-80-810-9319-7.

Language of instruction:

Slovak language, German language

Notes:

This subject is taught during the winter semester and is evaluated in the exam period of the winter semester.

Course evaluation:

Assessed students in total: 1

А	В	С	D	Е	FX
100.0	0.0	0.0	0.0	0.0	0.0

Name of lecturer(s): PaedDr. Martin Pinkoš, RNDr. PaedDr. Mária Nováková, PhD., MBA, doc. PhDr. Mgr. Vladimír Littva, PhD., MPH, doc. RNDr. Soňa Hlinková, PhD.

Last modification: 11.09.2022

Supervisor(s):

University: Catholic Univer	rsity in Ružomberok
Faculty: Faculty of Health	
Course code: KLVM/54L1033Y/22	Course title: German Language 3
Form of instruction: Sem Recommended study ran	ge: rs per semester: 12
Credits: 1	Working load: 25 hours
Recommended semester/tr	imester: 3.
Level of study: I.	
Prerequisities: KLVM/54L	1018Y/22
show the knowledge about or Internet and compare su	the course: rticipation in lessons. During the lessons the students are expected to current medical issues in foreign language as acquired from media ich information with topics specified in the brief subject curriculum. Immar reference and write grammar exercises as required by the teacher.
to understand the text in for translating ant to gain com apply communicative skills Theoretical achievement: So curriculum correctly when able to communicate active differences between local en Course contents:	course: aim of the subject is to guide students to acquiring the capability oreign language without outside help, to master the rules of correct municative skills. Students are to learn professional vocabulary and s when talking about topics determined in brief subject curriculum. tudents are able to apply grammar references specified in brief subject talking about individual topics. Practical achievement: Students are ly in foreign language with the patient and are able to distinguish the nvironment and the environment abroad.
Kurvendokumentation. Di Aufnahmegespräch. Die Erkrankungen. Die Gramma	ie Bauchorgane. Die Grammatik: Positionen im Satz. Das Pflegeanamnese, die Hilfsmittel. Das Anamnesegespräch. Die atik: Perfekt und Satzklammer. Die Atmungsorgane. Die Vorbereitung ion. Die Übergabe aus dem OP. Die erste postoperative Visite. Die

Recommended or required literature:

31. FIRNHABER-SENSEN, U. – RODI, M. 2013. Deutsch im Krankenhaus. München : Klett-Langenscheidt GmbH, 2013, 128 s. ISBN 978-3-12-606179-7

32. DŽUGANOVÁ, B. – BARNAU, A. 2017. Nemčina pre lekárov a pracovníkov v zdravotníctve. Bratislava : Eastone Books, 2017, 274 s. ISBN 978-80-8109-319-7.

33. HANÁKOVÁ, A. 2021. Nemčina: pro nelékařské zdravotnické obory. Praha : Grada Publishing, 2021, 231 s. ISBN 978-80-271-1717-8.

34. DŽUGANOVÁ, B. – GEREISS, K. 2003. Deutsch für Mediziner. Martin : Osveta, 2003, 369 s. ISBN 80-8063-129-8.

Language of instruction:

Sloval language, German language

Notes:

The subject is being taught only in the winter term and tested in determined examination period of the winter term of academic year.

Course evaluation:

Assessed students in total: 1

А	В	С	D	Е	FX
100.0	0.0	0.0	0.0	0.0	0.0

Name of lecturer(s): RNDr. PaedDr. Mária Nováková, PhD., MBA, PaedDr. Martin Pinkoš, doc. PhDr. Mgr. Vladimír Littva, PhD., MPH, doc. RNDr. Soňa Hlinková, PhD.

Last modification: 11.09.2022

Supervisor(s):

Person responsible for the delivery, development and quality of the study programme:

doc. RNDr. Jaroslav Timko, PhD.

University: Catholic Univer	rsity in Ružomberok			
Faculty: Faculty of Health				
Course code: KLVM/54L1044Y/22	Course title: German Language 4			
Form of instruction: Sem Recommended study ran	ge: rs per semester: 12			
Credits: 1	Working load: 25 hours			
Recommended semester/tr	ecommended semester/trimester: 4.			
Level of study: I.				
Prerequisities: KLVM/54L	1033Y/22			
show the knowledge about or Internet and compare su	the course: rticipation in lessons. During the lessons the students are expected to a current medical issues in foreign language as acquired from media ach information with topics specified in the brief subject curriculum. Immar reference and write grammar exercises as required by the teacher.			
to understand the text in for translating ant to gain com- apply communicative skills Theoretical achievement: St curriculum correctly when able to communicate active	course: aim of the subject is to guide students to acquiring the capability oreign language without outside help, to master the rules of correct municative skills. Students are to learn professional vocabulary and s when talking about topics determined in brief subject curriculum. tudents are able to apply grammar references specified in brief subject talking about individual topics. Practical achievement: Students are bly in foreign language with the patient and are able to distinguish the nvironment and the environment abroad.			
Therapien und Eingriffen Wundvesorgung. Grammati Anordnung von Medikam	k und die Pflegemaβnahmen. Anordnungen von Untersuchungen, h. Die Übergabe. Pflegeberichte verfassen. Wunde beschreiben. k: Passiv. Das Kreislaufsystem. Die Medikamente, Der Beipackzettel. enten, Darreichungsformen. Grammatik: Nebensätze mit wil und rtschatz erarbeiten. Wunddokumentation. Allegemeine Infektionslehre. jektive im Komparativ.			

Recommended or required literature:

35. FIRNHABER-SENSEN, U. – RODI, M. 2013. Deutsch im Krankenhaus. München : Klett-Langenscheidt GmbH, 2013, 128 s. ISBN 978-3-12-606179-7

36. DŽUGANOVÁ, B. – BARNAU, A. 2017. Nemčina pre lekárov a pracovníkov v zdravotníctve. Bratislava : Eastone Books, 2017, 274 s. ISBN 978-80-8109-319-7.

37. HANÁKOVÁ, A. 2021. Nemčina: pro nelékařské zdravotnické obory. Praha : Grada Publishing, 2021, 231 s. ISBN 978-80-271-1717-8.

38. DŽUGANOVÁ, B. – GEREISS, K. 2003. Deutsch für Mediziner. Martin : Osveta, 2003, 369 s. ISBN 80-8063-129-8.

Language of instruction:

Slovak language, German language

Notes:

The subject is being taught only in the summer term and tested in determined examination period of the summer term of academic year.

Course evaluation:

Assessed students in total: 1

А	В	С	D	Е	FX
100.0	0.0	0.0	0.0	0.0	0.0

Name of lecturer(s): RNDr. PaedDr. Mária Nováková, PhD., MBA, PaedDr. Martin Pinkoš, doc. PhDr. Mgr. Vladimír Littva, PhD., MPH, doc. RNDr. Soňa Hlinková, PhD.

Last modification: 11.09.2022

Supervisor(s):

Person responsible for the delivery, development and quality of the study programme:

doc. RNDr. Jaroslav Timko, PhD.

Faculty: Faculty of Heal	iversity in Ružomberok
	lth
Course code: KLVM/54L1025W/22	Course title: Haematology and Transfusion Study 1
Form of instruction: Recommended study	range: ours per semester: 36
Credits: 4	Working load: 100 hours
Recommended semeste	r/trimester: 3.
Level of study: I.	
Prerequisities:	
necessary to obtain at let the student can get max. Final evaluation: will b presentation and written Course evaluation: A - 100% -93% B - 92% -85% C - 84% -77% D - 76% -69%	e based on the total number of points obtained from the examinations,
E - 68% -60% FX - 59% - 0% Learning outcomes of t	

Course contents:

1. Physiology of hematopoiesis (origin and development of hematopoiesis, development of blood cells - red, white blood cells, platelets

2. Red blood cells (erythrocyte) - development, structure, metabolism, shape changes

3. Anemia from disorders of erythrocyte formation, iron metabolism

- 4. Anemia from increased eytrocyte loss, acute posthemorrhagic anemia.
- 5. Written examination. White blood cell (leukocyte) development, division, function
- 6. Quantitative and qualitative disorders of the leukocyte system
- 7. Acute leukemia
- 8. Myelodysplastic syndrome, Myeloproliferative neoplasia, Polyglobulia
- 9. Hodgin's lymphoma, NHL part 1
- 10. NHL part 2 (CLL, plysmocytoma).
- 11. Written examination. Seminar: Elaboration and presentation of set topics I.
- 12. Seminar: Elaboration and presentation of set topics II.

Recommended or required literature:

- 1. Vydra J., Novák J., Lauermannová M. a kol. Hematologie v kostce, Mladá fronta, 2019
- Sakalová A., Bátorová A., Mistrík M., Hrubiško M. a kol. Klinická hematológia, Osveta, 2010
 Indrák K. a kol. Hematologie a transfuzní lékařství. Triton, 2014
- 4. Pecka M. Laboratorní hematologie v přehledu . [2. díl] , Fyziologie a patofyziologie krevní buňky. Český Těšín: FINIDR, 2006
- 5. Penka M., Tesařová E. Hematologie a transfuzní lékařství I, Grada, 2011
- 6. Penka M., Tesařová E. Hematologie a transfuzní lékařství II, Grada, 2012
- 7. Adam Z., Krejč M., Vorlíček J. a kol. Hematologie : přehled maligních hematologických nemocí. Grada ,2008.

Language of instruction:

Slovak language.

Notes:

Course evaluation:

Assessed students in total: 22

А	В	С	D	Е	FX
18.18	36.36	22.73	22.73	0.0	0.0

Name of lecturer(s): doc. RNDr. Jaroslav Timko, PhD., MUDr. Jaromír Tupý, PhD.

Last modification: 11.09.2022

Supervisor(s):

University: Catholic Un	iversity in Ružomberok
Faculty: Faculty of Hea	lth
Course code: KLVM/54L1036W/22	Course title: Haematology and Transfusion Study 2
Form of instruction: Recommended study	range: nours per semester: 24
Credits: 3	Working load: 75 hours
Recommended semeste	r/trimester: 4
Level of study: I.	
Prerequisities: KLVM/5	54L1025W/22
necessary to obtain at le the student can get max.	be based on the total number of points obtained from the examinations, i exam.
Course objective:	nowledge in the field of hematology and transfusiology with emphasis

It describes the immunological aspects of blood elements, determines individual features, distinguishes clinical consequences. It identifies the problem of blood donation, breaks down and compares individual transfusion drugs, determines the effectiveness of hemotherapy and its side effects.

Course contents:

- 1. Platelets (platelets) development, composition, function,
- 2. Quantitative and qualitative platelet disorders.
- 3. Physiology of blood clotting (vessels and vascular system, primary hemostasis, system of

coagulation factors, system of natural inhibitors, fibrinolytic system)

4. Disorders of primary hemostasis - quantitative and qualitative disorders, drug hemostyptic treatment. Congenital bleeding conditions

- 5. Congenital thrombophilia, acquired blood clotting disorders.
- 6. Written examination. Erythrocyte immunology (general immunology, blood groups)
- 7. Hemolytic disease of the newborn, autoimmune and alloimmune hemolytic anemia
- 8. HLA system, leukocyte and platelet immunology, stem cell transplantation

9. Production of transfusion drugs (blood donation, donor, autotransfusion, principles of production of transfusion drugs, basic division of transfusion drugs, quality control in transfusion service facilities

10. Hemotherapy (history of blood treatment, transfusion drugs, treatment with transfusion drugs, complications of hemotherapy, hemovigilance, crisis blood policy)

11. Written examination. Seminar: Elaboration and presentation of set topics I.

12. Seminar: Elaboration and presentation of set topics II.

Recommended or required literature:

8. Vydra J., Novák J., Lauermannová M. a kol. Hematologie v kostce, Mladá fronta, 2019

9. Sakalová A., Bátorová A., Mistrík M., Hrubiško M. a kol. Klinická hematológia, Osveta, 2010 10. Indrák K. a kol. Hematologie a transfuzní lékařství. Triton, 2014

11. Pecka M. Laboratorní hematologie v přehledu . [2. díl] , Fyziologie a patofyziologie krevní buňky. Český Těšín: FINIDR, 2006

12. Penka M., Tesařová E. Hematologie a transfuzní lékařství I, Grada, 2011

13. Penka M., Tesařová E. Hematologie a transfuzní lékařství II, Grada, 2012

14. Adam Z., Krejč M., Vorlíček J. a kol. Hematologie : přehled maligních hematologických nemocí. Grada ,2008.

Language of instruction:

Slovak language.

Notes:

Course evaluation:

Assessed students in total: 8

А	В	С	D	Е	FX
12.5	25.0	25.0	25.0	12.5	0.0

Name of lecturer(s): doc. RNDr. Jaroslav Timko, PhD., MUDr. Jaromír Tupý, PhD.

Last modification: 11.09.2022

Supervisor(s):

entrersny: eathere	University in Ružomberok				
Faculty: Faculty of He	ealth				
Course code: KLVM/54L1027W/22	Course title: Histological Techniques 1				
Form of instruction Recommended stud	y range: 2 hours per semester: 12 / 24				
Credits: 2	Working load: 50 hours				
Recommended semes	ter/trimester: 3.				
Level of study: I.					
Prerequisities:					
participate for min. 10 Final evaluation: will written exam (test) Course evaluation: A - 100% -93% B - 92% -85% C - 84% -77% D - 76% -69% E - 68% -60% FX - 59% - 0%	Active participation in lectures. To participate in the exam, it is necessary to lectures and successful completion of 1 continuous written evaluation. be based on the evaluation of the total number of points obtained from the				
to learn to know tissue a) Basic histological te b) Processing of biolo fixation. Basic paraffin Theoretical knowledge student defines, distin histological technique professional subjects Practical skills: The student acquires th in the operation of the Course contents: 1. Department of pathe	e - aims of the course unit: To teach the basics of histological technique and es practically. echnique: histological laboratory equipment. ogical material for histological purposes. Fixation - principle and types of n technique. Practical preparation of paraffin histological sections. e: nguishes, describes and identifies the basic concepts in the subject of es with their subsequent synthesis and application of knowledge in other he acquired theoretical knowledge in practice and gains practical experience histological laboratory and basic histological techniques				

- 4. Biopsy material types of material, methods of collection
- 5. Receipt of biopsy material
- 6. Excision of biopsy material
- 7. Pouring the material into paraffin
- 8. Cutting histological specimens
- 9. Staining of histological specimens (basic staining of HE)
- 10. Completion of histological specimens
- 11. Errors arising in the process of processing biopsy material
- 12. Information bringing biopsy examination

Recommended or required literature:

Language of instruction:

Notes:

Course evaluation:

Assessed students in total: 22

А	В	С	D	Е	FX
45.45	36.36	18.18	0.0	0.0	0.0

Name of lecturer(s): MUDr. Adrian Kališ, PhD., doc. RNDr. Soňa Hlinková, PhD.

Last modification: 11.09.2022

Supervisor(s):

University: Catholic Univer	rsity in Ružomberok				
Faculty: Faculty of Health					
Course code: KLVM/54L1035W/22	Course title: Histological Techniques 2				
Form of instruction: Lec Recommended study ran	nge: ours per semester: 12 / 24				
Credits: 2	Working load: 50 hours				
Recommended semester/tr	rimester: 4.				
Level of study: I.					
Prerequisities: KLVM/54L	1027W/22				
participate for min. 10 lectu					
of material processing durin results from the department Theoretically master the pro- with the essence of immuno Theoretical knowledge: student defines, distinguis histological techniques wit professional subjects Practical skills: The student acquires the acc in basic and special histolog	ims of the course unit: To learn the system and methodical procedure ng perioperative biopsy, processing of cytological material, dispatch of c of pathological anatomy, acquaintance with NIS. becesses of staining of biopsy and cytological material and get acquainted obistochemical methods. hes, describes and identifies the basic concepts in the subject of the their subsequent synthesis and application of knowledge in other quired theoretical knowledge in practice and gains practical experience				
Course contents: 1. Perioperative biopsy I. pa 2. Perioperative biopsy II. s 3. Cytological material - typ					

- 4. Receipt of cytological material
- 5. Processing of cytological material
- 6. Errors arising in the process of processing cytological material
- 7. Dispatch of results of biopsy and cytological examinations
- 8. NIS
- 9. Basic biopsy and cytological staining
- 10. Special biopsy staining I. part
- 11. Special biopsy staining II. section
- 12. Immunohistochemical methods in pathology

Recommended or required literature:

Language of instruction:

Notes:

Course evaluation:

Assessed students in total: 9

110000000000000000000000000000000000000					
А	В	С	D	Е	FX
88.89	11.11	0.0	0.0	0.0	0.0

Name of lecturer(s): MUDr. Adrian Kališ, PhD., doc. RNDr. Soňa Hlinková, PhD.

Last modification: 11.09.2022

Supervisor(s):

Faculty: Faculty of Health						
Course code: KLVM/54L1026W/22	W/22 Course title: Histology and Cytology 1					
Type and range of planned Form of instruction: Lect Recommended study rang hours weekly: 2 hours Teaching method: on-site	ge:					
Credits: 3	Working load: 75 hours					
Recommended semester/tri	imester: 3.					
Level of study: I.						
Prerequisities:						
participate for min. 10 lectur	ourse: participation in lectures. To participate in the exam, it is necessary to res and successful completion of 1 continuous written evaluation. sed on the evaluation of the total number of points obtained from the					
histological structure of tiss use of acquired knowledge i Theoretical knowledge: student defines, distinguishe	ns of the course unit: Thorough knowledge and skills about the basic ues in the body. To know the conceptual apparatus of the subject, the n further study and professional activities. es, describes and identifies the basic concepts in the subject of general uent synthesis and application of knowledge in other professional					
Course contents: 1. Cell I. part 2. Cell II. section 3. Cell nucleus 4. Cell cycle, mitosis 5. Cell cycle regulation, ster 6. Tissue, division of tissues 7. Epithelial tissue 8. Covering epithelium I. pa						

9. Covering epithelium II. section

- 10. Glandular epithelium
- 11. Connective tissue ligament, cartilage
- 12. Connective tissue bone, muscle tissue

Recommended or required literature:

Language of instruction:

Notes:

Course evaluation:

Assessed students in total: 23

А	В	С	D	Е	FX
69.57	26.09	0.0	4.35	0.0	0.0

Name of lecturer(s): MUDr. Adrian Kališ, PhD., doc. RNDr. Soňa Hlinková, PhD.

Last modification: 11.09.2022

Supervisor(s):

University: Catholic Unive	rsity in Ružomberok					
Faculty: Faculty of Health						
Course code: KLVM/54L1034W/22						
Form of instruction: Lec Recommended study rar	nge: ours per semester: 12 / 12					
Credits: 3	Working load: 75 hours					
Recommended semester/ti	rimester: 4.					
Level of study: I.						
Prerequisities: KLVM/54L	1026W/22					
participate for min. 10 lectu Final evaluation: will be ba written exam (test) Course evaluation: A - 100% -93% B - 92% -85% C - 84% -77% D - 76% -69% E - 68% -60% FX - 59% - 0%	e participation in lectures. To participate in the exam, it is necessary to ures and successful completion of 1 continuous written evaluation. ased on the evaluation of the total number of points obtained from the					
histological structure of tiss use of acquired knowledge Theoretical knowledge: student defines, distinguish	course: ims of the course unit: Thorough knowledge and skills about the basic sues in the body. To know the conceptual apparatus of the subject, the in further study and professional activities. es, describes and identifies the basic concepts in the subject of general quent synthesis and application of knowledge in other professional					
Course contents: 1. Cardiovascular system 2. Digestive system Part I 3. Digestive system II. sect 4. Respiratory system 5. Urinary system 6. Male reproductive system 7. Female reproductive system 8. Nervous system 9. Endocrine glands	n					
	Page: 80					

10. Sensory organs

11. Lymphatic system

12. Leather

Recommended or required literature:

Language of instruction:

Notes:

Course evaluation:

Assessed students in total: 22

A		B (C D	E	FX
36.3	6 31	1.82 18	.18 4.55	· / / 55	4.55

Name of lecturer(s): MUDr. Adrian Kališ, PhD., doc. RNDr. Soňa Hlinková, PhD.

Last modification: 11.09.2022

Supervisor(s):

Person responsible for the delivery, development and quality of the study programme:

doc. RNDr. Jaroslav Timko, PhD.

University: Catholic Uni	versity in Ružomberok				
Faculty: Faculty of Healt	th				
Course code: KLVM/54L1028W/22	Course title: Immunology and Examination Methods in Immunology 1				
Form of instruction: L Recommended study r	range: hours per semester: 24 / 24				
Credits: 3	Working load: 75 hours				
Recommended semester	r/trimester: 3.				
Level of study: I.					
Prerequisities:					
processed topic related to points. They will also write To participate in the final exam, the student can get The final evaluation will presentation and oral examination A - 100 % - 92 % B - 91 % - 85 % C - 84 % - 77 % D - 76 % - 69 % E - 68 % - 60 % FX - 59 % - 0 %	be based on the total number of points obtained from the examination, mination.				
Theoretical knowledge: Students are able to anal clinical and therapeutic a Course contents: Contents of the course 1. Introduction to immun morphology - organs, tiss 2. Types of immune mech specific components of the	wledge of general and clinical immunology lyze and synthesize the acquired knowledge so that their activities help activities for the benefit of the patient. hology. Function and importance of the immune system (IS). IS sues, cells and IS molecules. hanisms. Comparison of non-specific and specific immunity. Non- he immune system. Phagocytosis. ment activation pathways. Cytokines - functions, properties and				

distribution. Inflammation - involved cells and molecules (inflammatory mediators).

4. Antigens - properties, functional characteristics, the most important human antigens. Antigens blood groups.

5. The major histocompatibility complex – structure, biological and medical significance. Differential antigens. Apoptosis - programmed cell death.

6. Specific immune response. B lymphocytes and antibody production. Immunoglobulins – structure and properties. B-cell subpopulations. Monoclonal antibodies.

7. T cells of key cell specific cellular immunity. Presentation of antigens. Cells with non-specific cytotoxic activity.

8. Mucosal and cutaneous immune system. Anti-infective immunity.

9. Hypersensitivity Reactions (Types I, II, III, IV)

10. Autoimmunization and autoimmune diseases.

11. Primary and secondary immunodeficiencies. Antitumor immunity.

12. Tissue and organ transplantation.

Recommended or required literature:

BUC, M. 2012. Základná a klinická imunológia, Bratislava : Veda, 2012, 831 s. ISBN 978-80-224-1235-3

JÍLEK, P. 2019. Imunologie. Stručně, jasně, přehledně. Praha : Grada, 2019, 104 s. ISBN 978-80-271-0595-3

Language of instruction:

Language, knowledge of which is necessary to complete the course: Slovak language

Notes:

Notes: the course is provided in the winter semester

Course evaluation:

Assessed students in total: 23

110000000000000000000000000000000000000					
А	В	С	D	Е	FX
39.13	17.39	26.09	8.7	8.7	0.0

Name of lecturer(s): doc. RNDr. Jaroslav Timko, PhD., RNDr. Ivana Turzová

Last modification: 11.09.2022

Supervisor(s):

University: Catholic Univ	versity in Ružomberok				
Faculty: Faculty of Health	a				
Course code: KLVM/54L1039W/22	Course title: Immunology and Examination Methods in Immunology 2				
Form of instruction: Le Recommended study ra	ange: hours per semester: 12 / 24				
Credits: 3	Working load: 75 hours				
Recommended semester/	/trimester: 4.				
Level of study: I.					
Prerequisities: KLVM/54	L1028W/22				
will also write 1 written to to participate in the final e exam, the student can get	l be based on the total number of points obtained from the written and oral examination.				
immunology and allergolo2. Examination algorithms3. Quality control, with the4. Laboratory informationTheoretical knowledge:	atination procedures and laboratory methods used in clinical ogy in practice. s in the diagnosis of immunopathological conditions. the management and economics of immuno-allergological laboratories. In systems. In systems.				

material in laboratories.

4. Acquire theoretical knowledge necessary for quality control management, basic knowledge in connection with the management and economics of immuno-allergological laboratories, with the application of laboratory and hospital information.

Practicals kills:

1. The graduate is able to work independently in the laboratories of clinical immunology and allergology.

2. He/She will gain practical knowledge of working with devices that are used in immunoallergol. lab. - such as flowcytometer, fluorescence microscope, ELISA reader, nephelometer, immunoanalyzers.

3. He/She has the ability to organize work in the laboratory, to cooperate with clinical workplaces in solving diagnostic and therapeutic problems within treatment and prevention process.

Course contents:

Course contents

1. Methods used to investigate components of humoral immunity (principle of methods, their pitfalls, application, instrumentation and economic balance sheet).

General principles of antigen-antibody reaction. Electrophoresis and immuno electrophoresis, radial immunodiffusion, nephelometry and turbidimetry, agglutination and hemagglutination.

Complement fixation tests. Immunoreactions with labeled antibodies - RIA, ELISA, EIA.
 Immunoblotting, immunofluorescence, determination of antibodies and antigens by flow

cytometry.

4. Methods used to investigate the components of cellular immunity (principle of methods, their pitfalls, application, instrumentation and economic balance sheet). Cell isolation techniques, flowcytometry.

5. Rosette tests, lymphocyte proliferation, ELISPOT, cytotoxic tests.

6. Phagocytosis, bactericidal test, oxidative flare tests: NBT, INT, chemiluminescence.

7. Immunohistochemical methods, methods of molecular biology.

8. Possibilities of investigation of components of immunity.

Examination of humoral imunity parameters - antibodies, monoclonal proteins, cryoglobulins, immunocomplexes, acute phase proteins, complement and its components, autoantibodies.

9. Examination of cellular imunity parameters. Determination of surface features of lymphocytes, functional lymphocyte tests, cytotoxicity of NK cells and T lymphocytes, determination of cytokines. Phagocytosis, chemotaxis, oxidative metabolism, phagocyte microbicides. Basophil activation test, examination of apoptosis, HLA typing.

10. Investigation algorithms at diagnosis of immunopathological conditions.

Diagnosis of immunodeficiencies.

Diagnosis of autoimmune diseases.

Diagnosis of allergic diseases.

11. Quality system in the immunological laboratory.

Recommended or required literature:

 BARTŮŇKOVÁ, J. - PAULÍK, M. a kol.2011. Vyšetřovací metody v imunologii; 2. prepracované vydanie. Praha : Grada Publishing, 2011, 164 s. ISBN978-80-247-3533-7
 BLAŽÍČKOVÁ, S. – KRÁL, V. – STIBOROVÁ, I. 2019. Vyšetrovacie metódy v imunológii pre poslucháčov FZSP. Trnava : Veda, 2019. 144 s. ISBN 978-80-568-0379-0

Language of instruction:

Language, knowledge of which is necessary to complete the course: Slovak language

Notes: Notes: the course is provided in the summer semester

Course evaluation:

Assessed students in total: 8

A	В	С	D	Е	FX
25.0	37.5	25.0	12.5	0.0	0.0
Name of lecturer(s): prof. MUDr. Anton Lacko, CSc., RNDr. Ivana Turzová					

ne of lecturer(s): prof. MUDr. Anton Lacko, CSc., RNDr. Ivana Turzova

Last modification: 11.09.2022

Supervisor(s):

University: Cath	olic University	in Ružomberok					
Faculty: Faculty	of Health						
Course code: KLVM/54L228/2		Course title: Laboratory Examination Methods - Practical Part					
Type and range Form of instru Recommended hours weekl Teaching meth	iction: l study range: y: hours per		and teaching m	ethods:			
Credits: 6	Working load: 150 hours						
Recommended s	semester/trime	ster: 5., 6					
Level of study: I							
Prerequisities:							
Requirements fo	or passing the c	course:					
Learning outcor	nes of the cour	se:					
Course contents	:						
Recommended of	or required lite	rature:					
Language of ins	truction:						
Notes:							
Course evaluation							
A	В	С	D	E	FX		
33.33	50.0	0.0	0.0	16.67	0.0		
Name of lecture	r(s):	•	•	· · · · ·			
Last modificatio	on: 11.09.2022						
Supervisor(s): Person responsible for th doc. RNDr. Jaros			udy programme:				

University: Cat	holic University	in Ružomberok					
Faculty: Faculty	of Health						
Course code: KLVM/54L23S/		Course title: Laboratory Examination Methods in Biochemistry and Microbiology					
Form of instr	uction: d study range: ly: hours per	rning activities a semester:	nd teaching m	ethods:			
Credits: 6	We	orking load: 150	hours				
Recommended	semester/trime	ster: 5., 6					
Level of study:	I.						
Prerequisities:							
Requirements f	or passing the o	course:					
Learning outco	mes of the cour	ˈse:					
Course content	s:						
Recommended	or required lite	erature:					
Language of ins	struction:						
Notes:							
Course evaluation							
А	В	С	D	E	FX		
33.33	33.33	16.67	0.0	16.67	0.0		
Name of lecture	er(s):			· · · · · ·			
Last modificati	on: 11.09.2022						
Supervisor(s): Person responsible for doc. RNDr. Jaro		ent and quality of the stu).	idy programme:				

University: Cath	olic University	in Ružomberok					
Faculty: Faculty	of Health						
Course code: KLVM/54L24S/2		Course title: Laboratory Examination Methods in Hematology and Transfusion, Histopathology and Cytology					
Type and range Form of instru Recommendec hours weekl Teaching meth	iction: l study range: y: hours per		and teaching me	ethods:			
Credits: 6	Wo	rking load: 150	hours				
Recommended s	semester/trimes	ster: 5., 6					
Level of study:	[,						
Prerequisities:							
Requirements fo	or passing the c	ourse:					
Learning outcom	nes of the cour	se:					
Course contents	:						
Recommended of	or required lite	rature:					
Language of ins	truction:						
Notes:							
Course evaluation							
A	В	С	D	E	FX		
16.67	16.67 16.67 16.67 33.33 16.67 0.0						
Name of lecture	r(s):			·			
Last modification	on: 11.09.2022						
Supervisor(s): Person responsible for t doc. RNDr. Jaros			udy programme:				

Odd: Course title: Laboratory Techniques 41.1013W/22 I range of planned learning activities and teaching methods: of instruction: Lecture / Seminar mended study range: weekly: 1/2 hours per semester: 12 / 24 ng method: on-site Working load: 100 hours 4 Working load: 100 hours wended semester/trimester: 2. study: 1. stities: ments for passing the course: ill be two written examinations in the exercises, a maximum of 20 points for each. 1 evaluation: will be based on the total number of points obtained from the examinations ongoing evaluation of the activity at each laboratory exercise. g outcomes of the course: will be introduced to the main theoretical principles and the practical way of performing al laboratory operations and methods. They will learn the principles of safety at work in a laboratory, familiarize themselves with the materials used in the laboratory and their use: able to clarify theoretical aspects of basic laboratory operations, operations and principles aboratory, practicing basic chemical operations in general and inorganic y, physical chemistry, organic matter synthesis, and analytical chemistry. contents: . ontents: . ontents: . ontents: . ontents: .<		University in Ružomberok
41.1013W/22 I range of planned learning activities and teaching methods: of instruction: Lecture / Seminar mended study range: sweekly: 1 / 2 hours per semester: 12 / 24 ng method: on-site 4 Working load: 100 hours wended semester/trimester: 2. study: 1. isities: ments for passing the course: ill be two written examinations in the exercises, a maximum of 20 points for each. 1 evaluation: will be based on the total number of points obtained from the examinations ongoing evaluation of the activity at each laboratory exercise. g outcomes of the course: will be introduced to the main theoretical principles and the practical way of performing al laboratory operations and methods. They will learn the principles of safety at work in a laboratory operations and principles able to clarify theoretical aspects of basic laboratory operations, operations and principles able to clarify theoretical aspects of basic chemical operations in general and inorganic y, physical chemistry, organic matter synthesis, and analytical chemistry. contents: ontents: uetion and organization of exercise. Principles of safety at work with chemical substances. ieal laboratory equipment and fire protection Materials used in the laboratory and basic ry tools. o chemical substances used in chemical laboratory. Workin	Faculty: Faculty of H	ealth
of instruction: Lecture / Seminar mended study range: s weekly: 1 / 2 hours per semester: 12 / 24 ng method: on-site 4 Working load: 100 hours tended semester/trimester: 2. study: 1. isities: ments for passing the course: ill be two written examinations in the exercises, a maximum of 20 points for each. I evaluation: will be based on the total number of points obtained from the examinations ong ong evaluation of the activity at each laboratory exercise. g outcomes of the course: will be introduced to the main theoretical principles and the practical way of performing al laboratory operations and methods. They will learn the principles of safety at work in a 1 laboratory, familiarize themselves with the materials used in the laboratory and their use. able to clarify theoretical aspects of basic laboratory operations, operations and principles tory methods of synthesis and chemical analysis. They will also acquire basic, skill and the chemical laboratory, practicing basic chemical operations in general and inorganic y, physical chemistry, organic matter synthesis, and analytical chemistry. contents: uction and organization of exercise. Principles of safety at work with chemical substances. ical laboratory equipment and fire protection Materials used in the laboratory and basic ty tools. e of chemical substances used in chemical laboratory. Working with gases. irement of weight, volume and density. Calibration of measuring containers. ility, effect of temperature on solubility, dissolution, preparation of solutions, saturated solubility curve. ration of insoluble matter, precipitation, decantation, filtration, drying. ing with glass, measuring temperature, heating, cooling, phase conversion, determination g point, boiling point. ples of construction of laboratory apparatuses. illization, sublimation llation, fractional distillation and boiling point. rmination of acid-base equivalence point, acid-base indicators, solution preparation and	Course code: KLVM/54L1013W/22	2 1
ended semester/trimester: 2. study: I. stides: ments for passing the course: ill be two written examinations in the exercises, a maximum of 20 points for each. I evaluation: will be based on the total number of points obtained from the examinations orgoing evaluation of the activity at each laboratory exercise. goutcomes of the course: will be introduced to the main theoretical principles and the practical way of performing al laboratory operations and methods. They will learn the principles of safety at work in a l laboratory operations and methods. They will learn the principles of safety at work in a l laboratory operations and methods. They will learn the principles of safety at work in a l laboratory, familiarize themselves with the materials used in the laboratory and their use. able to clarify theoretical aspects of basic laboratory operations, operations and principles story methods of synthesis and chemical analysis. They will also acquire basic, skill and the chemical laboratory, practicing basic chemical operations in general and inorganic y, physical chemistry, organic matter synthesis, and analytical chemistry. stonents: oution and organization of exercise. Principles of safety at work with chemical substances. ical laboratory equipment and fire protection Materials used in the laboratory and basic ry tools. e of chemical substances used in chemical laboratory. Working with gases. rement of weight, volume and density. Calibration of measuring containers. ility, effect of temperature on solubility, dissolution, preparation of solutions, saturated solubility curve. ration of insoluble matter, precipitation, decantation, filtration, drying. ing with glass, measuring temperature, heating, cooling, phase conversion, determination g point, boiling point. ples of construction of laboratory apparatuses. Ilitation, fractional distillation and boiling point. rmination of acid-base equivalence point, acid-base indicators, solution preparation and	Form of instruction Recommended stud	a: Lecture / Seminar ly range: 2 hours per semester: 12 / 24
study: I. isities: ments for passing the course: ill be two written examinations in the exercises, a maximum of 20 points for each. I evaluation: will be based on the total number of points obtained from the examinations ongoing evaluation of the activity at each laboratory exercise. g outcomes of the course: will be introduced to the main theoretical principles and the practical way of performing al laboratory operations and methods. They will learn the principles of safety at work in a l laboratory operations and methods. They will learn the principles of safety at work in a l laboratory, familiarize themselves with the materials used in the laboratory and their use. able to clarify theoretical aspects of basic laboratory operations, operations and principles atory methods of synthesis and chemical analysis. They will also acquire basic, skill and the chemical laboratory, practicing basic chemical operations in general and inorganic y, physical chemistry, organic matter synthesis, and analytical chemistry. sontents: uction and organization of exercise. Principles of safety at work with chemical substances. ical laboratory equipment and fire protection Materials used in the laboratory and basic ry tools. e of chemical substances used in chemical laboratory. Working with gases. irrement of weight, volume and density. Calibration of measuring containers. ility, effect of temperature on solubility, dissolution, preparation of solutions, saturated solubility curve. ration of insoluble matter, precipitation, decantation, filtration, drying. ing with glass, measuring temperature, heating, cooling, phase conversion, determination g point, boiling point. ples of construction of laboratory apparatuses. Ilitation, fractional distillation and boiling point. rmination of acid-base equivalence point, acid-base indicators, solution preparation and	Credits: 4	Working load: 100 hours
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 ments for passing the course: ins for the course: ill be two written examinations in the exercises, a maximum of 20 points for each. I evaluation: will be based on the total number of points obtained from the examinations ongoing evaluation of the activity at each laboratory exercise. goutcomes of the course: will be introduced to the main theoretical principles and the practical way of performing al laboratory operations and methods. They will learn the principles of safety at work in a 1 laboratory, familiarize themselves with the materials used in the laboratory and their use. able to clarify theoretical aspects of basic laboratory operations, operations and principles atory methods of synthesis and chemical analysis. They will also acquire basic, skill and the chemical laboratory, practicing basic chemical operations in general and inorganic y, physical chemistry, organic matter synthesis, and analytical chemistry. contents: uction and organization of exercise. Principles of safety at work with chemical substances. ical laboratory equipment and fire protection Materials used in the laboratory and basic try tools. e of chemical substances used in chemical laboratory. Working with gases. urement of weight, volume and density. Calibration of measuring containers. ility, effect of temperature on solubility, dissolution, preparation of solutions, saturated solubility curve. ration of insoluble matter, precipitation, decantation, filtration, drying. ing with glass, measuring temperature, heating, cooling, phase conversion, determination og point, boiling point. ples of construction of laboratory apparatuses. ultization, sublimation llation, fractional distillation and boiling point. rmination of acid-base equivalence point, acid-base indicators, solution preparation and 	Level of study: I.	
ns for the course: ill be two written examinations in the exercises, a maximum of 20 points for each. I evaluation: will be based on the total number of points obtained from the examinations ongoing evaluation of the activity at each laboratory exercise. g outcomes of the course: will be introduced to the main theoretical principles and the practical way of performing al laboratory operations and methods. They will learn the principles of safety at work in a l laboratory, familiarize themselves with the materials used in the laboratory and their use. a ble to clarify theoretical aspects of basic laboratory operations, operations and principles atory methods of synthesis and chemical analysis. They will also acquire basic, skill and the chemical laboratory, practicing basic chemical operations in general and inorganic y, physical chemistry, organic matter synthesis, and analytical chemistry. sontents: uction and organization of exercise. Principles of safety at work with chemical substances. ical laboratory equipment and fire protection Materials used in the laboratory and basic ry tools. e of chemical substances used in chemical laboratory. Working with gases. irrement of weight, volume and density. Calibration of measuring containers. ility, effect of temperature on solubility, dissolution, preparation of solutions, saturated solubility curve. ration of insoluble matter, precipitation, decantation, filtration, drying. ing with glass, measuring temperature, heating, cooling, phase conversion, determination to point, boiling point. ples of construction of laboratory apparatuses. ultization, sublimation llation, fractional distillation and boiling point. rmination of acid-base equivalence point, acid-base indicators, solution preparation and	Prerequisities:	
will be introduced to the main theoretical principles and the practical way of performing al laboratory operations and methods. They will learn the principles of safety at work in a l laboratory, familiarize themselves with the materials used in the laboratory and their use. a ble to clarify theoretical aspects of basic laboratory operations, operations and principles atory methods of synthesis and chemical analysis. They will also acquire basic, skill and the chemical laboratory, practicing basic chemical operations in general and inorganic y, physical chemistry, organic matter synthesis, and analytical chemistry. contents: uction and organization of exercise. Principles of safety at work with chemical substances. ical laboratory equipment and fire protection Materials used in the laboratory and basic ry tools. e of chemical substances used in chemical laboratory. Working with gases. rrement of weight, volume and density. Calibration of measuring containers. ility, effect of temperature on solubility, dissolution, preparation of solutions, saturated solubility curve. ration of insoluble matter, precipitation, decantation, filtration, drying. ing with glass, measuring temperature, heating, cooling, phase conversion, determination ing point, boiling point. ples of construction of laboratory apparatuses. allization, sublimation llation, fractional distillation and boiling point. rmination of acid-base equivalence point, acid-base indicators, solution preparation and	Conditions for the cou There will be two wri The final evaluation:	urse: tten examinations in the exercises, a maximum of 20 points for each. will be based on the total number of points obtained from the examinations
contents: uction and organization of exercise. Principles of safety at work with chemical substances. ical laboratory equipment and fire protection Materials used in the laboratory and basic ry tools. e of chemical substances used in chemical laboratory. Working with gases. urement of weight, volume and density. Calibration of measuring containers. ility, effect of temperature on solubility, dissolution, preparation of solutions, saturated solubility curve. ration of insoluble matter, precipitation, decantation, filtration, drying. ing with glass, measuring temperature, heating, cooling, phase conversion, determination g point, boiling point. ples of construction of laboratory apparatuses. allization, sublimation llation, fractional distillation and boiling point. rmination of acid-base equivalence point, acid-base indicators, solution preparation and	individual laboratory chemical laboratory, f They are able to clarif of laboratory methods habits in the chemica	operations and methods. They will learn the principles of safety at work in a familiarize themselves with the materials used in the laboratory and their use. By theoretical aspects of basic laboratory operations, operations and principles is of synthesis and chemical analysis. They will also acquire basic, skill and al laboratory, practicing basic chemical operations in general and inorganic
	 Chemical laborator laboratory tools. Nature of chemical Measurement of we Solution solubility cur Preparation of insol Working with glass of melting point, boili Principles of constr Solution, sub Crystallization, sub Distillation, fraction 	ry equipment and fire protection Materials used in the laboratory and basic substances used in chemical laboratory. Working with gases. eight, volume and density. Calibration of measuring containers. of temperature on solubility, dissolution, preparation of solutions, saturated ve. luble matter, precipitation, decantation, filtration, drying. s, measuring temperature, heating, cooling, phase conversion, determination ing point. ruction of laboratory apparatuses. limation onal distillation and boiling point.
Ρ _{аσе} . 90	P.P.Cump.	

12. Determination of water in crystalline hydrates, heating and annealing.

Recommended or required literature:

1. Durdiak, J. a kol.: Laboratórna technika 1, Ružomberok: Verbum - vydavateľstvo Katolíckej univerzity v Ružomberku, Ružomberok 2005.

2. ŠTERN et al: Obecná a klinická biochemie pro bakalárske odb.studia, Univezita Karlova, Praha, 2011

3. D.M. VASUDEVAN, S. SREEKUMARI, K. VAIDYANATHAN: Základy všeobecnej a klinickej biochémie, Balneotherma, Bratislava, 2014, strán 665. slov. preklad 6. vyd. Textbook of Biochemistry, 2011, ISBN 978-93-5025-016-7

Language of instruction:

Slovak

Notes:

Course evaluation:

Assessed students in total: 26

А	В	С	D	Е	FX
30.77	11.54	15.38	15.38	15.38	11.54

Name of lecturer(s): doc. Ing. Eva Culková, PhD., Ing. Jaroslav Durdiak, PhD., Ing. Zuzana Lukáčová, PhD., doc. MUDr. Ivan Solovič, CSc., RNDr. Lucián Zastko, PhD., JUDr. Zuzana Lukáčová, PhD.

Last modification: 11.09.2022

Supervisor(s):

University: Catholic Univ	versity in Ružomberok
Faculty: Faculty of Health	h
Course code: KLVM/54L1007W/22	Course title: Latin Language
Type and range of plann Form of instruction: Se Recommended study ra hours weekly: 1 ho Teaching method: on-si	ange: urs per semester: 12
Credits: 1	Working load: 25 hours
Recommended semester/	/trimester: 1.
Level of study: I.	
Prerequisities:	
in which students demons can get max. 60 points. 10 exam, any non-participati disciplines. Course evaluation: A - 100% -93% B - 92% -85% C - 84% -77% D - 76% -69% E - 68% -60% FX - 59% - 0%	itten form of the final exam includes the curriculum of the whole semester, strate the level of their knowledge. At the written final exam, the student 00% active participation in the exercises is required for admission to the on must be justified or replaced at another date of the exercise in parallel
a condition for mastering Theoretical knowledge:: Latin-Greek form with an Practical skills: The stude activities, in the study of p	e course: aims of the course unit: To obtain a minimum of Latin grammar, which is the basics of Latin medical terminology. The student has to demonstrate knowledge of medical terminology in a inner understanding of its structure. Ent should be able to use the acquired knowledge in practical professional professional literature and in parallel professional subjects, to use medical and linguistically in oral and written form.
structure of multiword ter	c introduction to medical Latin, Latin and Greek in medical nomenclature, rms. sic grammatical terms, practice of correct reading of Latin medical terms.

Latin pronunciation, basic grammatical terms, practice of correct reading of Latin medical terms.
 Declension of nouns with a focus on the frequency of the genitive, the accusative and the ablative.
 Adjectives, their declension and connection with nouns, use of degrees.

5. Adverbs, use of prepositions in medical terminology and their connection with nouns in accusative and ablative.

- 6. Numerals, their use and declension, expression of quantity.
- 7. Verbs in pharmaceutical terminology, recipe.
- 8. Latin and Greek prefixes and suffixes, terms with Latin and Greek basis.

9. Greek equivalents of basic anatomical terms and terminology used in the clinic. Advocacy of suffixes.

10. Compound words. Principles of composite formation. Simple diagnoses.

11. Latin sentences still valid today. Active work with terminological expressions.

- 12. Practical exercises and tasks, creating multiword terms and automation of common connections.
- 13. Systematization and verification of acquired knowledge.

Recommended or required literature:

1. ŠIMON, F.-BUJALKOVÁ, M. 2012. Latinský jazyk premedikov. Košice : Knihy Hanzluvka, 2012. 169s. ISBN 978-80-89546-06-0

2. KÁBRT, J. 2010. Latinský jazyk. Martin: Osveta, 2010. 156s. ISBN 978-80-8063-353-0

3. ŠIMON, F. 1990. Latinská lekárska terminológia. Martin: Osveta, 1990, 184s. ISBN 8021702974.

Language of instruction:

Slovak language, Latin language

Notes:

The course is taught only in the winter semester.

Course evaluation:

Assessed students in total: 43

А	В	С	D	Е	FX
25.58	23.26	23.26	13.95	4.65	9.3

Name of lecturer(s): PhDr. Mária Macková

Last modification: 11.09.2022

Supervisor(s):

University: Catholic U	niversity in Ružomberok
Faculty: Faculty of Hea	alth
Course code: KLVM/54L1056W/22	Course title: Law and Legislation
Form of instruction: Recommended study	range: hours per semester: 12
Credits: 1	Working load: 25 hours
Recommended semest	er/trimester: 5.
Level of study: I.	
Prerequisities:	
lectures. Within the lectures. Within the lectures or al exam, the student general health legislation	quisites: During the semester: During the semester active participation in etures, students analyze the assigned topics. Final assessment: In the final can get a maximum of 60 points - answers 3 questions from three topics - on, competencies of a health worker and a case study. Course evaluation: A - 85% C - 84% - 77% D - 76% - 69% E - 68% - 60% FX - 59% - 0%
Objective of the course and their function in soc competences, legal resp knowledge: To teach so aspects and competence	- aims of the course unit: Importance of social and health legislation, rights eiety, their application to health care, acquisition of basic concepts, rights and ponsibility of a health worker and definition of his competence. Theoretical tudents to understand the basics of law, social and health legislation, legal tes of health professionals. The student will gain comprehensive knowledge case studies from clinical practice.
Labor liability for dama of a healthcare profession	undamental human rights and freedoms. Labor law of health professionals. age. Criminal liability for damage. Legal aspects of health care. Legal status onal. Health standards, patients' rights and medical records. Protection and ealth. Health and safety at work. Administrative procedure - legal aspects.

Recommended or required literature:

1. SIMOČKOVÁ, V. PEŘINA, J. 2019. Legislatíva verzus zdravotníci. Martin : Osveta, 2019. 159 s. 978-80-8063-483-4.

SIMOČKOVÁ, V. 2019. Minimum pracovného práva pre zdravotníkov : učebné texty sú zamerané na pracovnoprávne ustanovenia. Košice : Multiprint. 2019, 75 s. 978-80-89551-33-0.
 TÓTH, K. a kol. 2008. Právo a zdravotníctvo. Bratislava: Herba. 2008. 388 s. ISBN 978-80-89171-57-6.

4. TÓTH, K. a kol. 2013. Právo a zdravotníctvo II. Bratislava: Herba. 2013. 432 s. ISBN 978-80-89631-08-7.

5. VLČEK, R., HRUBEŠOVÁ, Z. 2007. Zdravotnícke právo. Bratislava: Epos. 2007. 319 s. ISBN 978-80-8057-705-6.

6. VONDRÁČEK, Ľ.2005. Právní předpisy nejen pro hlavní, vrchní, staniční sestry. Praha: Grada. 2005.100 s. ISBN 80-247-1198-2.

Language of instruction:

Slovak and Czech language

Notes:

Course evaluation:

Assessed students in total: 14

А	В	С	D	Е	FX
92.86	7.14	0.0	0.0	0.0	0.0

Name of lecturer(s): doc. MUDr. Ivan Solovič, CSc.

Last modification: 11.09.2022

Supervisor(s):

Person responsible for the delivery, development and quality of the study programme:

doc. RNDr. Jaroslav Timko, PhD.

Faculty: Faculty of Health	
Course code: KLVM/54L1011W/22	Course title: Microbiology 1
Form of instruction: Lect Recommended study ran	ge: ours per semester: 24 / 24
Credits: 5	Working load: 125 hours
Recommended semester/tr	imester: 2.
Level of study: I.	
Prerequisities:	
each test (total of 40 points) of 20 points (cumulative fr points received on the final Course grade scale: A - 100%-93% B - 92%-85% C - 84%-77% D - 76%-69% E - 68%-60% FX - 59%-0%	vill be two written tests. A student may get a maximum of 20 points on . To be allowed to take the final exam, a student must earn a minimum om both tests). The final mark will be determined by the number of exam.
to clarify the inter-disciplina Theoretical knowledge: stu- selected chapters from the s Practical skills: students wi samples and transporting inoculation of infectious su microscopic examination	ve students basic knowledge in the field of medical microbiology; (ii) ary character of the course dents will master the basics of general microbiology as well as other
Course contents: Course contents: 1. Introduction to Microbiol 2. Taxonomy, bacterial cell 3. Pathogenicity and viruler 4. Normal bacterial flora 5. Diagnostic microbiology 6. Diagnostic microbiology 7. Antimicrobial substances	structure acy, infection 1 2
	Page: 96

- 8. Nosocomial infections
- 9. General epidemiology
- 10. Special epidemiology of bacterial infections 1
- 11. Special epidemiology of bacterial infections 2
- 12. Special epidemiology of bacterial infections 3

Recommended or required literature:

Language of instruction:

Notes:

Course evaluation:

Assessed	students	in	total: 20
Assessed	Students	ш	101a1.20

 Assessed students in total. 20						
А	В	С	D	Е	FX	
55.0	10.0	0.0	20.0	5.0	10.0	
Name of lacturar(s): day RNDr Jaroslav Timko PhD RNDr Jaar Parvaznik PhD						

Name of lecturer(s): doc. RNDr. Jaroslav Timko, PhD., RNDr. Igor Porvazník, PhD.

Last modification: 11.09.2022

Supervisor(s):

Faculty: Faculty of Health					
Course code: KLVM/54L1052W/22	Course title: Microbiology 2				
Form of instruction: Lect Recommended study ran	ge: ours per semester: 24 / 24				
Credits: 4	Working load: 100 hours				
Recommended semester/tr	imester: 5.				
Level of study: I.					
Prerequisities: KLVM/54L1	1011W/22				
obtain a maximum of 20 po to obtain at least 20 points f	will be two written examinations within the lectures. It is possible to ints from each. To participate in the final written exam, it is necessary				
the interdisciplinary meanin Theoretical knowledge: stud Practical skills: students wil	vide students with basic knowledge of medical microbiology, to clarify				
Course contents: Course contents: 1. Methods of molecular biology 2. Methods of molecular biology 3. Methods of molecular biology 4. General parasitology - definition, classification, diagnostics 5. Special parasitology - blood and intestinal parasites 6. Special parasitology - other parasites 7. Special parasitology - arthropods 8. General mycology - taxonomy, morphology, pathogenicity 9. Characteristics and diagnostics of yeasts 10. Characteristics and diagnostics of filamentous fungi 11. Microbiology of the environment					
Page: 98					

12. Infections caused by biological weapons.

Recommended or required literature:

TIMKO, J.: Mikrobiológia, epidemiológia, Verbum, Ružomberok 2009

VOTAVA, M. a kol.: Lékařská mikrobiologie (obecná, speciální). Neptun, Brno 2001, 2003

VOTAVA, M. a kol.: Lékařská mikrobiologie (vyšetřovací metody). Neptun, Brno 2010

BEDNÁŘ, M. a kol.: Lékařská mikrobiologie, Marvil, Praha, 1996

Language of instruction:

English language

Notes:

Course evaluation:

Assessed students in total: 13

А	В	С	D	Е	FX
46.15	15.38	23.08	7.69	7.69	0.0

Name of lecturer(s): RNDr. Igor Porvazník, PhD., doc. RNDr. Jaroslav Timko, PhD.

Last modification: 11.09.2022

Supervisor(s):

culty: Faculty of Health							
Course code: Course title: Nuclear Medicine KLVM/54L1029W/22							
Form of instruction: Lec Recommended study ran	nge: nours per semester: 12 / 12						
redits: 2	Working load: 50 hours						
ecommended semester/tr	rimester: 3.						
evel of study: I.							
erequisities:							
U	the course: dance at lectures. The final evaluation: Oral exam. Subject evaluation - 85% C - 84% - 77% D - 76% - 69% E - 68% - 60% Fx - 59% - 0%						
nitters, with radiopharma iclear medicine. The use of heoretical knowledge:	f nuclear medicine. To characterize the work with the open radioactive accuticals. The student get knowledge about the device equipment of of methods in clinics.						
kleárnej medicíny. Rádio boratóriu. Príprava rádiof onkológii. Delenie nádo zužitie nádorových mark anovenie prognózy. Prístr vivo a na in vitro merat mografia. PET- pozitróno tiarenia. Využitie SPECT pod.).	ukleárna medicína. Rozdelenie diagnostických a liečebných metóc ofarmaká, výroba rádionuklidov, zásady práce v rádiofarmaceutickom farmák, kalibrácia dávok. Rádiosaturačné metódy. Rádioimunoanalýza prových markerov, nádorové markery pri jednotlivých karcinómoch terov v skriningu u zdravých jedincov, na monitorovanie liečby, na rojová technika v nukleárnej medicíne, scintilačný detektor, súpravy na nie vzoriek. Gamakamera-SPECT –jednofotónová emisná počítačová pvá emisná tomografia. Ochrana pred ionizujúcim žiarením. Choroba z a PET vyšetrenia v medicíne (v onkológii, v kardiológii, v neurológi						
ecommended or required LACKO, A. et al.: Nové 78-80-968742-8-6.	d literature: trendy v nukleárnej medicíne. Turany: vyd. P+M, 200780 s. ISBN						
inguage of instruction: ovak language							
otes:							

Course evaluat Assessed studen							
A B C D E FX							
95.65	0.0	4.35	0.0	0.0	0.0		
Name of lecturer(s): prof. MUDr. Anton Lacko, CSc.							
Last modification: 11.09.2022							
Supervisor(s): Person responsible for the delivery, development and quality of the study programme: doc. RNDr. Jaroslav Timko, PhD.							

University: Catholic Univer	sity in Ružomberok					
Faculty: Faculty of Health						
Course code: KLVM/54L1012W/22	Course title: Pathology and Pathological Physiology					
Form of instruction: Lect Recommended study ran	ge: ours per semester: 24 / 36					
Credits: 3	Working load: 75 hours					
Recommended semester/tr	imester: 2.					
Level of study: I.						
Prerequisities:						
participate for min. 10 lectu	The course: e participation in lectures. To participate in the exam, it is necessary to res and successful completion of 1 continuous written evaluation. sed on the evaluation of the total number of points obtained from the					
Learning outcomes of the course: Objective of the course - aims of the course unit: Thorough knowledge and skills about basic pathomorphological changes of disease processes in the organism. To know the conceptual apparatus of the field, the use of acquired knowledge in further study and professional activities. Theoretical knowledge: student defines, distinguishes, describes and identifies basic concepts in the subjects of pathological anatomy and pathological physiology with their subsequent synthesis and application of knowledge in other professional subjects						
 a. Introduction, history of th 2. Tissue damage and adapti a. Pathology of pain. 3. Inflammation definition a a. Fever, stress. 4. Disorders of local circula a. Pathophysiology of inflammation 	ive changes.					
	Page: 102					

- a. Disorders of body fluid volume, electrolytes, minerals and acid-base balance.
- 6. Characterization and division of tumors.
- a. Tumor cell transformation, benign and malignant tumors.
- 7. Diseases of the heart and blood vessels.
- a. Pathogenesis of hypertension and atherosclerosis.
- 8. Diseases of the kidneys, genitals.
- a. Mechanisms of action of hormones.
- 9. Diseases of the respiratory system.
- a. Pathophysiology of the respiratory system.
- 10. Diseases of the musculoskeletal system.
- a. Pathophysiology of the excretory system.
- 11. Diseases of the GIT.
- a. Pathophysiology of the digestive system.
- 12. Diseases of the endocrine system and skin.
- a. Pathophysiology of pregnancy.

Recommended or required literature:

Language of instruction:

Notes:

Course evaluation:

Assessed students in total: 20

А	В	С	D	Е	FX
50.0	15.0	10.0	10.0	5.0	10.0

Name of lecturer(s): prof. MUDr. Anton Lacko, CSc., MUDr. Adrian Kališ, PhD., MUDr. Libor Danihel, PhD.

Last modification: 11.09.2022

Supervisor(s):

University: Catholic University	sity in Ružomberok							
Faculty: Faculty of Health								
Course code: KLVM/54L1015W/22	Course title: Pedagogy, psychology, and sociology							
Form of instruction: Lectu Recommended study rang	Type and range of planned learning activities and teaching methods: Form of instruction: Lecture / Seminar Recommended study range: hours weekly: 3 / 0 hours per semester: 36 / 0 Teaching method: on-site							
Credits: 3	Working load: 75 hours							
Recommended semester/tri	mester: 2.							
Level of study: I.								
Prerequisities:								
Requirements for passing the course: During semester: Active participation in the lectures (50% minimum) and exercises (100%); 3 successful continuous tests (100-65% to pass). Final evaluation will be based on the total points gained from the final written exam. The subject evaluation: A - 100 % - 93 % B - 92 % - 85 % C - 84 % - 77 % D - 76 % - 69 % E - 68 % - 60 % Fx - 59 % - 0 %.								
Learning outcomes of the course: The course objective: To provide the students the theoretical basis of psychology, which can apply in the healtcare practice. Theoretical knowledge: The student characterize the psychological natural relations, acquire the basic terms of general, cognitive and developmental psychology, psychology of pesonality and understands the psychical regulation of behavior of health and ill human. The aim of the course is to lead the students to apply the knowledge of psychology in healthcare practice.								
 Course contents: 1. The subject of psychology, main directions and methods. Psyche as a function of brain and its two levels. The characteristics of the field, historical development, interdisciplinary position. 2. Cognitive processes - perception, consciousness. Memory and learning. Thinking and speech. Activation-motivational processes. Emotions. The will and attention. 3. Psychology of personality - the basic factors of personality development, psychological properties and abilities, theories of personality, character, personality of ill human. 4. The subject and content of development psychology - psychological development and its determinants, the characteristics of the development periods, prenatal, perinatal, postnatal period of development, neonatal period, breastfed period, toddler period, preschool period, younger school age, older school age, adolescence, adult age, old age. 5. Psychohygiene - prevention of burnout syndrome, anti-stress programmes, Johari window. 								

Recommended or required literature: 1. FRANZENOVÁ, I. 2014. Sociológia výchovy, Verbum, KU Ružomberok, 2014, 111 s. ISBN 978-80-561-0121-6 2. LABUDOVÁ, J. 2012. Teória zdravia a podpora zdravia, UK Bratislava, 2012, 177 s. ISBN 978-80-223-3264-4 3. ZACHAROVÁ, E., ČÍŽKOVÁ, J., LITTVA, V. 2010. Aplikovaná psychologie ve zdravotnické praxi, Tribun EU, Brno 2010. 224 s. ISBN 978-80-7368-703-8. 4. MEAD, G.H. 2017. Mysl, já a společnost, Portál, Praha, 2017, 247s. ISBN 978-80-262-1180-8 5. MOREE, D. 2015. Základy interkulturního soužití, Portál, Praha, 2015, 204 s. ISBN 978-80-262-0915-7 6. OZOROVSKÝ, V. A KOL 2011. Sociálne lekárstvo Bratislava : Asklepios, 2011. ISBN 978-7167-158-9 7. PAĽA, G. a kol. 2014. Vízie a perspektívy kvality života, Prešovská univerzita, Prešov, 2014, 257 s. ISBN 978-80-555-1147-4 8. SALOŇ, Ľ. 2021. Kvalita života a životný štýl rodiny v kontexte migrácie jej živiteľov za prácou, Verbum, Ružomberok, 2021, 153 s. ISBN 978-80-561-0875-8 9. KASSIN, S. Psychologie. 1. vyd. Brno : Computer Press, a. s., 2007. 771 s. ISBN 978-80-251-1716-3. 10. KONČEKOVÁ, Ľ. Vývinová psychológia. 4. aktualizované vydanie. Prešov : Vydavateľstvo Michala Vaška, 2014. ISBN 978-80-7165-945-7. 11. KOŠČ, M. Základy psychológie. 7. vyd. Bratislava : SPN, 2009. 118 s. ISBN 978-80-10-01677-8. 12. KŘIVOHLAVÝ, J. Psychologie nemoci. 1. vyd. Praha : Grada, 2002. 200 s. ISBN 80-247-0179-0. 13. KŘIVOHLAVÝ, J. Psychologie zdraví. 2. vyd. Praha : Portál, 2003. 278 s. ISBN 80-7178-774-4. 14. NAKONEČNÝ, M. Psychologie osobnosti. 2. vyd., rozšířené a přepracované. Praha : Academia, 2009. 620 s. ISBN 978-80-200-1680-5. 15. SIMOČKOVÁ, V. Základy psychológie pre zdravotnícke odbory. 2. aktualizované a doplnené vydanie - dotlač. Ružomberok : Verbum, 2021. 148 s. ISBN 978-80-561-0550-4. 16. ZACHAROVÁ, E. Zdravotnická psychologie : teorie a praktická cvičení. 2. aktualiz. a dopl. vyd. Praha : Grada, 2017. ISBN 978-80-271-0155-9. 17. ZACHAROVÁ, E.et al. Základy psychologie pro zdravotnické obory. Praha :Grada, 2011. ISBN 978-80-247-4062-1.

Language of instruction:

Slovak language

Notes:

The course is taught in summer semester and is evaluated only in the corresponding examination period of the summer semester of the academic year.

Course evaluation:

Assessed students in total: 22

А	В	С	D	Е	FX
9.09	45.45	27.27	13.64	0.0	4.55

Name of lecturer(s): doc. PhDr. Mgr. Vladimír Littva, PhD., MPH, doc. PhDr. PaedDr. Viera Simočková, PhD.

Last modification: 11.09.2022

University: Catholic Unive	University: Catholic University in Ružomberok					
Faculty: Faculty of Health						
Course code:Course title: PharmacologyKLVM/54L1014W/22						
Type and range of planned learning activities and teaching methods: Form of instruction: Lecture Recommended study range: hours weekly: 1 hours per semester: 12 Teaching method: on-site						
Credits: 3	Working load: 75 hours					
Recommended semester/t	rimester: 2.					
Level of study: I.						
Prerequisities:						
will focus on the issues tha test, it is necessary for the s The result of the control tes latest. If the student gets les	the course: In lectures. The student takes control tests during the semester. The test it were covered in the previous lectures. To successfully pass the control student to achieve a minimum of 6 points from a maximum of 10 points. It will be announced to the student one day before the of next lecture at is than 6 points, they are evaluated Fx. Each student, who failed in control from the same topic in the term given by teacher. If a student obtains two					

The result of the control test will be announced to the student one day before the of next recture at latest. If the student gets less than 6 points, they are evaluated Fx. Each student, who failed in control test, has to retake the test from the same topic in the term given by teacher. If a student obtains two times Fx from control tests during the semester, they will not be admitted to the final exam due to the theoretical failure of the subject. The results of control tests will make 20% of the final overall evaluation of the student. At the end of the semester and the fulfillment of all conditions given by the teacher, each student passes a final written examination, which is aimed to verify the theoretical knowledge acquired during the semester. To successfully complete the final written examination, the student must obtain at least 75% of points. The results of final written examination will make 60% of overall points. The overall evaluation of the student will consist of the evaluation of control tests (40%), and the evaluation of the final written examination (60%). The student has the right to correction term in accordance with the study regulations of Faculty of Health, CU Ružomberok. Subject evaluation: A – 100 % - 93% B – 92 % - 85% C – 84 % - 77% D – 76 % - 69% E – 68 % - 60% FX – 59 % - 0%

Learning outcomes of the course:

To gain knowledge of the history of the field, definitions, characteristics and tasks of pharmacology, mechanism of action of drugs, pharmacokinetics and pharmacodynamics of drugs, their resorption, transport, biotransformations, excretion, their interrelationships and interactions, side effects, types of treatment, placebo therapy, research of new drugs, drug forms. The student will gain knowledge of basic terminology in pharmacology, routes and methods of drug administration, drug dosing, principles of drug handling and administration, and mathematics in pharmacology. The student will acquire knowledge of general and special pharmacology. The student acquire the specifics of contrast media application, the ways of their preparation, application, risks, potential allergic reactions and the possible solution from the radiological technician point of view. Theoretical knowledge: The student gains knowledge of main effects of drugs, side effects of drugs, storage, ordering, distribution and marking of drugs. To know the particular pharmacotherapeutic groups

and their profile. Practical skills: Based on gained knowledge, the student has to know to apply particular drugs without any harm on patient.

Course contents:

1. History, definition and tasks of pharmacology, mechanism of drug effects, drug interrelationships, pharmacokinetics, pharmacodynamics, agonism, antagonism, 2. Side effect of the drug, types of treatment, placebo therapy, new drugs, drug forms, resorption, transport, biotransformation, excretion 3. Basic terminology in pharmacology, routes of drug application, drug dosing, principles and methods of drug administration, mathematics in pharmacology 4. Pharmacology of the nervous system 5. Pharmacology of the circulatory system 6. Pharmacology of the respiratory system 7. Pharmacology of the digestive system 8. Pharmacology of endocrine system 9. Pharmacology of blood and hematopoietic organs 10. Pharmacology of enzymes and vitamins 11. Pharmacology of antibiotics and chemotherapeutics, antihistamines, antiseptics and disinfectants 12. Pharmacology of chemotherapy, principles of administration

Recommended or required literature:

Language of instruction:

Notes:

Course evaluation:

Assessed students in total: 22

А	В	С	D	Е	FX	
59.09	22.73	13.64	4.55	0.0	0.0	

Name of lecturer(s): prof. MUDr. Anna Lesňáková, PhD., MUDr. Mária Gadušová, PhD., PharmDr. Pavol Púčať

Last modification: 11.09.2022

Supervisor(s):

Faculty: Faculty of Health	
Course code: KLVM/54L1005W/22	Course title: Physiology
Form of instruction: Le Recommended study ra	nge: hours per semester: 24 / 24
Credits: 3	Working load: 75 hours
Recommended semester/t	trimester: 1.
Level of study: I.	
Prerequisities:	
Conditions for completing During the semester: Atter The final evaluation: Writt condition of the oral exam Subject evaluation: A - 100% - 91% B - 92% - 85% C - 84% - 77% D - 76% - 69% E - 68% - 60% Fx - 59% - 0%	ndance at lectures. ten test before the oral exam, obtaining 60% of points from the test is a
organism as a dynamic wh Theoretical knowledge: The student masters pro- homeostasis of the interna of organ systems, illustrate differences between non-s autonomic and somatic ne and exercise. Practical skills: The student demonstrates himself in organizing his examination of blood elem	he functions of organ systems of the human body. Understanding the sole. Changes in the body during movement and physical exercise. fessional terminology, defines the basic physiological principles of al environment of the organism. It describes the physiological activity es the essence of individual physiological processes. It defines the basic pecific and specific immunity, between enzyme and hormone, between rvous system and the like. Can interpret physiological changes at work the application of theoretical knowledge to clinical practice. He orients a theoretical knowledge into individual clinical disciplines, such as nents, blood transfusion, active and passive immunization, measurement on of heart activity according to heart sounds and ECG curves, functional

examination of lungs using spirometry examination. enzymes, hormones, examination of urine and kidney function, principles of proper nutrition, the effect of stress on the body, etc.

Course contents:

Course contents:

- 1. Characteristics of the subject, cell physiology, internal environment.
- 2. Physiology of blood.
- 3. Physiology of the cardiovascular and lymphatic system.
- 4. Physiology of respiration.
- 5. Physiology of the digestive system and nutrition.
- 6. Physiology of the excretory system.
- 7. Physiology of the endocrine system.
- 8. Physiology of the autonomic and somatic nervous system.
- 9. Physiology of thermoregulation, muscles and skin.
- 10. Physiology of the immune system and reproduction.
- 11. Physiology of nutrition and sensory organs.
- 12. Physiology of work and physical exercises.

Recommended or required literature:

1. LACKO, A. a kol. 2021. Vybrané kapitoly z fyziológie pre ošetrovateľstvo, verejné zdravotníctvo a nelekárske zdravotnícke vedy. Ružomberok: KU Verbum, 2021, 138 s. ISBN 978-80-561-0908-3..

2. KITTNAR, O. a kol. 2021. Přehled lékařské fyziologie. Praha: Grada, 2021, 336 s. ISBN 978-80-271-1025-4.

3. ROKYTA, R. a kol.2015. Fyziologie a patologická fyziologie pro klinickou praxi. Praha: Grada, 2015. 680 s. ISBN 978-80-247-4867-2.

4. ČALKOVSKÁ, A. a kol. 2010. Fyziológia človeka pre nelekárske študijné programy. Martin: Osveta, 2010, 220s. ISBN 978-80-8063-344-8.

Language of instruction:

slovak language

Notes:

Course evaluation:

Assessed students in total: 41

А	В	С	D	Е	FX
63.41	9.76	9.76	7.32	4.88	4.88

Name of lecturer(s): prof. MUDr. Anton Lacko, CSc., MUDr. Libor Danihel, PhD.

Last modification: 11.09.2022

Supervisor(s):

	sity in Ružomberok
Faculty: Faculty of Health	
Course code: KLVM/54L1030W/22	Course title: Preventive Medicine and Hygiene
Form of instruction: Lect Recommended study rang	
Credits: 2	Working load: 50 hours
Recommended semester/tri	imester: 3.
Level of study: I.	
Prerequisities:	
points. At the final exam (wr together 100 points. During Final evaluation:	The course: written test during semester where students can get a maximum of 20 itten/oral) student can get a maximum of 80 points. Students can obtain the lectures student will analyse assigned topics. The basis of the points obtained from the tests during semester and in

The aim of the course: Through the acquired knowledge and skills to create a comprehensive and conceptual view of prevention, preventive medicine and hygiene in the public health complex, individual sections of public health - their characteristics, content and methods of work, be able to act conceptually and preventively and think about preventive medicine, hygiene and public health in terms of preventive health care and the overall goal.

Theoretical knowledge:

To know the general and specific principles of health prevention, the scope and objectives of hygiene and public health, be able to act preventively and think about the management of the health team, department and the whole facility in terms of health care, prevention and hygiene, providing education and training of health care workers, use of prevention in individual areas of health care. Practical knowledge:

To be able to use knowledge from individual areas of preventive medicine and hygiene departments, to be able to ensure the quality of preventive health services in the field of environment, nutrition,

hygiene of children and adolescents and preventive occupational medicine, their evaluation, including the importance of health for individuals and society.

Course contents:

The structure of the course:

- 1. Preventive medicine, hygiene public health, characteristics, position, development
- 2. Characteristics of individual branches of public health hygiene
- 3. Determinants of health and factors influencing health
- 4. General epidemiology and prevention of communicable diseases
- 5. Epidemiology of non-infectious diseases of civilization
- 6. Environmental hygiene air, soil, water, noise, housing and settlements
- 7. Hygiene of medical facilities
- 8. Preventive occupational medicine man and work environment
- 9. Nutritional hygiene rational nutrition, food evaluation, eating together, food production.
- 10. Hygiene of children and youth
- 11. Protection against ionizing radiation
- 12. National health promotion program, the state of public health in Slovakia

Recommended or required literature:

. Rovný I.: Verejné zdravotníctvo, 125 s., Herba 2009

- 2. Šulcová, M."Čižnár, I., Fabiánová, E.: Verejné zdravotníctvo, Bratislava, veda 2012
- 3. Legáth Ľ. a kol.: Pracovné lekárstvo, Osveta 2020
- 4. Domenik, J.: Preventívne lekárstvo a hygiena, učebné texty, FZ KU, 2019
- 5. Šagát, T. a kol.: Organizácia zdravotníctva, Osveta Martin, 2010

Language of instruction:

Slovak language

Notes:

This course is taught during the winter semester and is evaluated during the exam period of the winter semester.

Course evaluation:

Assessed students in total: 23

А	В	С	D	Е	FX
43.48	17.39	21.74	13.04	4.35	0.0

Name of lecturer(s): doc. MUDr. Jozef Domenik, PhD., MPH

Last modification: 11.09.2022

Supervisor(s):

Faculty. Facult	· · · · · · · · · · · · · · · · ·	in Ružomberok			
racuity. racuit	y of Health				
Course code: KLVM/54L102		urse title: Profes	sional Practice	l	
Form of instr Recommende	uction: Seminar d study range: ly: hours per		and teaching me	ethods:	
Credits: 3	We	orking load: 75 h	nours		
Recommended	semester/trime	ster: 1.			
Level of study:	I.				
Prerequisities:					
-	for passing the c ester: 100% part				
biochemistry, h skills Theoretical kno	ematology, imm owledge: student	unology, patholo	bgy and microbi	ology, while acc	l in the field of quiring practical
methodologies	-	r diagnostics and	at the same time	learn the princip	
methodologies Practical skills: a lecturer Course content Gradually get a 1. with their dat 2. with safety, f 3. with docume 4. with current 5. with some set	students repeate s: cquainted with a ily operation, ire and hygiene r ntation related to laboratory equips	r diagnostics and dly practice some ll workplaces: regulations o their work, ment,	at the same time e selected methor	learn the princip	bles of individual
methodologies Practical skills: a lecturer Course content Gradually get a 1. with their dai 2. with safety, f 3. with docume 4. with current 5. with some so each workplace	students repeate s: cquainted with a ily operation, ire and hygiene r ntation related to laboratory equips	r diagnostics and dly practice some ll workplaces: regulations o their work, ment, ion methods of t Professional Prac	at the same time e selected methor	learn the princip	bles of individual ne supervision of
methodologies Practical skills: a lecturer Course content Gradually get a 1. with their dai 2. with safety, f 3. with docume 4. with current 5. with some so each workplace	students repeate s: cquainted with a ily operation, ire and hygiene r ntation related to laboratory equips elected examinat in the Scope of or required lite	r diagnostics and dly practice some ll workplaces: regulations o their work, ment, ion methods of t Professional Prac	at the same time e selected methor	learn the princip	bles of individual ne supervision of
methodologies Practical skills: a lecturer Course content Gradually get a 1. with their dai 2. with safety, f 3. with docume 4. with current 5. with some so each workplace Recommended	students repeate s: cquainted with a ily operation, ire and hygiene r ntation related to laboratory equips elected examinat in the Scope of or required lite	r diagnostics and dly practice some ll workplaces: regulations o their work, ment, ion methods of t Professional Prac	at the same time e selected methor	learn the princip	bles of individual ne supervision of
methodologies Practical skills: a lecturer Course content Gradually get a 1. with their dai 2. with safety, f 3. with docume 4. with current 5. with some se each workplace Recommended Language of in	students repeate s: cquainted with a ily operation, ire and hygiene n ntation related to laboratory equip elected examinat in the Scope of or required lite struction: ion:	r diagnostics and dly practice some ll workplaces: regulations o their work, ment, ion methods of t Professional Prac	at the same time e selected methor	learn the princip	bles of individual ne supervision of
methodologies Practical skills: a lecturer Course content Gradually get a 1. with their dai 2. with safety, f 3. with docume 4. with current 5. with some so each workplace Recommended Language of in Notes: Course evaluat	students repeate s: cquainted with a ily operation, ire and hygiene n ntation related to laboratory equip elected examinat in the Scope of or required lite struction: ion:	r diagnostics and dly practice some ll workplaces: regulations o their work, ment, ion methods of t Professional Prac	at the same time e selected methor	learn the princip	bles of individual ne supervision of

Name of lecturer(s): RNDr. Katarína Ondrášiková, RNDr. Ivana Turzová, Mgr. Iveta Čučvarová, doc. RNDr. Jaroslav Timko, PhD., RNDr. Lucián Zastko, PhD., MUDr. Adrian Kališ, PhD.

Last modification: 11.09.2022

Supervisor(s):

		in Ružomberok			
Faculty: Facult	y of Health				
Course code: KLVM/54L1022		ourse title: Profes	sional Practice 2	2	
Form of instr	uction: Semina ed study range: ely: hours pe	rning activities a	and teaching mo	ethods:	
Credits: 3	W	orking load: 75 h	nours		
Recommended	semester/trime	ester: 2.			
Level of study:	I.				
Prerequisities:	KLVM/54L102	1W/22			
Requirements During the sem	for passing the ester: 100% par				
biochemistry, h skills Theoretical know workplaces, the methodologies	ematology, imm owledge: studen spectrum of the	dge about work nunology, patholo ts gradually gain ir diagnostics and edly practice some	bgy and microbi an overview of at the same time	the scope of wo learn the princip	uiring practical rk of individual les of individual
					e supervision of
 with their data with safety, f with docume with current with some set 	cquainted with a ily operation, ire and hygiene ntation related t laboratory equip elected examina	regulations o their work,		gnostics (elabora	-
Gradually get a 1. with their dat 2. with safety, f 3. with docume 4. with current 5. with some set	cquainted with a ily operation, ire and hygiene ntation related t laboratory equip elected examina in the Scope of	regulations o their work, ment, tion methods of t Professional Prac		gnostics (elabora	-
Gradually get a 1. with their dat 2. with safety, f 3. with docume 4. with current 5. with some so each workplace	cquainted with a ily operation, ire and hygiene ntation related t laboratory equip elected examina in the Scope of or required lite	regulations o their work, ment, tion methods of t Professional Prac		gnostics (elabora	-
Gradually get a 1. with their dat 2. with safety, f 3. with docume 4. with current 5. with some so each workplace Recommended	cquainted with a ily operation, ire and hygiene ntation related t laboratory equip elected examina in the Scope of or required lite	regulations o their work, ment, tion methods of t Professional Prac		gnostics (elabora	-
Gradually get a 1. with their dat 2. with safety, f 3. with docume 4. with current 5. with some so each workplace Recommended Language of in	cquainted with a ily operation, ire and hygiene intation related t laboratory equip elected examina in the Scope of or required lite struction:	regulations o their work, ment, tion methods of t Professional Prac		gnostics (elabora	-
Gradually get a 1. with their dat 2. with safety, f 3. with docume 4. with current 5. with some se each workplace Recommended Language of in Notes: Course evaluat	cquainted with a ily operation, ire and hygiene intation related t laboratory equip elected examina in the Scope of or required lite struction:	regulations o their work, ment, tion methods of t Professional Prac		gnostics (elabora	-

Name of lecturer(s): RNDr. Ivana Turzová, Mgr. Miriam Tupá, doc. RNDr. Jaroslav Timko, PhD., RNDr. Lucián Zastko, PhD.

Last modification: 11.09.2022

Supervisor(s):

	nolic University	in Ružomberok			
Faculty: Facult	y of Health				
Course code: KLVM/54L104		ourse title: Profes	ssional Practice 3		
Form of instr Recommende	uction: Seminar ed study range: dy: hours per		and teaching me	thods:	
Credits: 3	W	orking load: 75 h	nours		
Recommended	semester/trime	ster: 3.			
Level of study:	I.				
Prerequisities:	KLVM/54L1022	2W/22			
-	for passing the ester: 100% part				
biochemistry, h skills Theoretical know workplaces, the methodologies	ematology, imn owledge: student spectrum of the	dge about work nunology, patholo ts gradually gain ir diagnostics and edly practice some	ogy and microbi an overview of at the same time	ology, while acc the scope of wo learn the princip	quiring practical rk of individual les of individual
Common					
 with their data with safety, f with docume with current with some set 	cquainted with a ily operation, ire and hygiene ntation related to laboratory equip elected examina	regulations their work,		gnostics (elabora	-
Gradually get a 1. with their dat 2. with safety, f 3. with docume 4. with current 5. with some so each workplace	cquainted with a ily operation, ire and hygiene ntation related to laboratory equip elected examina	regulations o their work, ment, tion methods of t Professional Prac		gnostics (elabora	
Gradually get a 1. with their dat 2. with safety, f 3. with docume 4. with current 5. with some so each workplace	cquainted with a ily operation, ire and hygiene ntation related to laboratory equip elected examina in the Scope of or required lite	regulations o their work, ment, tion methods of t Professional Prac		gnostics (elabora	-
Gradually get a 1. with their dat 2. with safety, f 3. with docume 4. with current 5. with some so each workplace Recommended	cquainted with a ily operation, ire and hygiene ntation related to laboratory equip elected examina in the Scope of or required lite	regulations o their work, ment, tion methods of t Professional Prac		gnostics (elabora	
Gradually get a 1. with their dat 2. with safety, f 3. with docume 4. with current 5. with some so each workplace Recommended Language of in	cquainted with a ily operation, ire and hygiene intation related to laboratory equip elected examina in the Scope of or required lite struction:	regulations o their work, ment, tion methods of t Professional Prac		gnostics (elabora	
Gradually get a 1. with their dat 2. with safety, f 3. with docume 4. with current 5. with some so each workplace Recommended Language of in Notes: Course evaluat	cquainted with a ily operation, ire and hygiene intation related to laboratory equip elected examina in the Scope of or required lite struction:	regulations o their work, ment, tion methods of t Professional Prac		gnostics (elabora	-

Name of lecturer(s): RNDr. Katarína Ondrášiková, RNDr. Ivana Turzová, Mgr. Miriam Tupá, doc. RNDr. Jaroslav Timko, PhD., RNDr. Lucián Zastko, PhD.

Last modification: 11.09.2022

Supervisor(s):

	mone oniversity	in Ružomberok			
Faculty: Facult	y of Health				
Course code: KLVM/54L1048		ourse title: Profes	sional Practice 4	1	
Form of instr	uction: Seminar ed study range: ely: hours per	rning activities a	and teaching mo	ethods:	
Credits: 3	W	orking load: 75 h	iours		
Recommended	semester/trime	ster: 4.			
Level of study:	I.				
Prerequisities:	KLVM/54L104	7W/22			
-	for passing the ester: 100% part				
biochemistry, h skills Theoretical know workplaces, the methodologies	ematology, imn owledge: studen spectrum of the	lge about work a nunology, patholo ts gradually gain ir diagnostics and edly practice some	bgy and microbi an overview of at the same time	ology, while acc the scope of wo learn the princip	uiring practical rk of individual les of individual
Course content Gradually get a		ll workplaces:			
 with their data with safety, f with docume with current with some set 	ily operation, ire and hygiene ntation related to laboratory equip elected examina	regulations their work,		gnostics (elabora	ted in detail for
 with their data with safety, f with docume with current with some see ach workplace 	ily operation, ire and hygiene ntation related to laboratory equip elected examina	regulations o their work, ment, tion methods of t Professional Prac		gnostics (elabora	ted in detail for
 with their data with safety, f with docume with current with some see ach workplace 	ily operation, ire and hygiene ntation related to laboratory equip elected examina in the Scope of or required lite	regulations o their work, ment, tion methods of t Professional Prac		gnostics (elabora	ted in detail for
 with their data with safety, f with docume with docume with current with some see ach workplace Recommended 	ily operation, ire and hygiene ntation related to laboratory equip elected examina in the Scope of or required lite	regulations o their work, ment, tion methods of t Professional Prac		gnostics (elabora	ted in detail for
 with their data with safety, f with docume with docume with current with some see ach workplace Recommended Language of in 	ily operation, ire and hygiene intation related to laboratory equip elected examina in the Scope of or required lite struction:	regulations o their work, ment, tion methods of t Professional Prac		gnostics (elabora	ted in detail for
 with their data with safety, f with docume with docume with current with some serve ach workplace Recommended Language of in Notes: Course evaluat 	ily operation, ire and hygiene intation related to laboratory equip elected examina in the Scope of or required lite struction:	regulations o their work, ment, tion methods of t Professional Prac		gnostics (elabora	ted in detail for

Name of lecturer(s): RNDr. Ivana Turzová, Mgr. Miriam Tupá, MUDr. Adrian Kališ, PhD., doc. RNDr. Jaroslav Timko, PhD., RNDr. Lucián Zastko, PhD.

Last modification: 11.09.2022

Supervisor(s):

Easulture East 14	none on versity	in Ružomberok			
Faculty: Facult	y of Health				
Course code: KLVM/54L1060		urse title: Profes	ssional Practice 5		
Form of instr Recommende	uction: Seminar ad study range: dy: hours per		and teaching me	thods:	
Credits: 3	We	orking load: 75 h	nours		
Recommended	semester/trime	ster: 5.			
Level of study:	I.				
Prerequisities:	KLVM/54L1048	3W/22			
-	for passing the operation of the operation of the second s				
biochemistry, h skills		-			in the field of quiring practical
workplaces, the methodologies	spectrum of the	s gradually gain r diagnostics and dly practice some	at the same time	learn the princip	
workplaces, the methodologies Practical skills: a lecturer Course content Gradually get a 1. with their dat 2. with safety, f 3. with docume 4. with current 5. with some set	spectrum of their students repeate students repeate s: cquainted with a ily operation, fire and hygiene in ntation related to laboratory equip elected examinat	ir diagnostics and dly practice some ll workplaces: regulations o their work,	at the same time e selected method	learn the princip lologies under th	bles of individual ne supervision of
workplaces, the methodologies Practical skills: a lecturer Course content Gradually get a 1. with their dat 2. with safety, f 3. with docume 4. with current 5. with some so each workplace	spectrum of their students repeate students repeate s: cquainted with a ily operation, fire and hygiene in ntation related to laboratory equip elected examinat	Ir diagnostics and dly practice some ll workplaces: regulations o their work, ment, tion methods of t Professional Prac	at the same time e selected method	learn the princip lologies under th	bles of individual ne supervision of
workplaces, the methodologies Practical skills: a lecturer Course content Gradually get a 1. with their dat 2. with safety, f 3. with docume 4. with current 5. with some so each workplace	spectrum of their students repeate students repeate s: cquainted with a ily operation, ire and hygiene ntation related to laboratory equip elected examinate in the Scope of or required lite	Ir diagnostics and dly practice some ll workplaces: regulations o their work, ment, tion methods of t Professional Prac	at the same time e selected method	learn the princip lologies under th	bles of individual ne supervision of
workplaces, the methodologies Practical skills: a lecturer Course content Gradually get a 1. with their dat 2. with safety, f 3. with docume 4. with current 5. with some se each workplace Recommended	spectrum of their students repeate students repeate s: cquainted with a ily operation, ire and hygiene ntation related to laboratory equip elected examinate in the Scope of or required lite	Ir diagnostics and dly practice some ll workplaces: regulations o their work, ment, tion methods of t Professional Prac	at the same time e selected method	learn the princip lologies under th	bles of individual ne supervision of
workplaces, the methodologies Practical skills: a lecturer Course content Gradually get a 1. with their dat 2. with safety, f 3. with docume 4. with current 5. with some se each workplace Recommended Language of in	spectrum of their students repeate students repeate s: cquainted with a ily operation, ire and hygiene in ntation related to laboratory equip elected examinate in the Scope of or required lite struction: ion:	Ir diagnostics and dly practice some ll workplaces: regulations o their work, ment, tion methods of t Professional Prac	at the same time e selected method	learn the princip lologies under th	bles of individual ne supervision of
workplaces, the methodologies Practical skills: a lecturer Course content Gradually get a 1. with their dai 2. with safety, f 3. with docume 4. with current 5. with some se each workplace Recommended Language of in Notes: Course evaluat	spectrum of their students repeate students repeate s: cquainted with a ily operation, ire and hygiene in ntation related to laboratory equip elected examinate in the Scope of or required lite struction: ion:	Ir diagnostics and dly practice some ll workplaces: regulations o their work, ment, tion methods of t Professional Prac	at the same time e selected method	learn the princip lologies under th	bles of individual ne supervision of

Name of lecturer(s): RNDr. Ivana Turzová, doc. RNDr. Jaroslav Timko, PhD., RNDr. Lucián Zastko, PhD.

Last modification: 11.09.2022

Supervisor(s):

Faculty Facult		in Ružomberok			
Lacuny. Lacun	y of Health				
Course code: KLVM/54L106		ourse title: Profes	sional Practice	6	
Form of instr Recommende	uction: Seminar ed study range: dy: hours per		and teaching m	ethods:	
Credits: 3	We	orking load: 75 h	nours		
Recommended	semester/trime	ster: 6.			
Level of study:	I.				
Prerequisities:	KLVM/54L1060)W/22			
-	for passing the ester: 100% part				
biochemistry, h skills Theoretical kno	ematology, imm owledge: student	-	bgy and microb	procedures used iology, while acc	quiring practical
methodologies	-	-	at the same time	e learn the princip	les of individual
methodologies Practical skills: a lecturer Course content Gradually get a 1. with their dat 2. with safety, f 3. with docume 4. with current 5. with some set	students repeate s: cquainted with a ily operation, ire and hygiene r ntation related to laboratory equip elected examinat	dly practice some ll workplaces: regulations o their work, ment,	at the same time e selected metho heir routine dia	e learn the princip	les of individual le supervision of
methodologies Practical skills: a lecturer Course content Gradually get a 1. with their dat 2. with safety, f 3. with docume 4. with current 5. with some so each workplace	students repeate s: cquainted with a ily operation, ire and hygiene r ntation related to laboratory equip elected examinat	dly practice some ll workplaces: regulations o their work, ment, tion methods of t Professional Prac	at the same time e selected metho heir routine dia	e learn the princip odologies under th	les of individual le supervision of
methodologies Practical skills: a lecturer Course content Gradually get a 1. with their dat 2. with safety, f 3. with docume 4. with current 5. with some so each workplace	students repeate s: cquainted with a ily operation, ire and hygiene r ntation related to laboratory equip elected examinate in the Scope of or required lite	dly practice some ll workplaces: regulations o their work, ment, tion methods of t Professional Prac	at the same time e selected metho heir routine dia	e learn the princip odologies under th	les of individual le supervision of
methodologies Practical skills: a lecturer Course content Gradually get a 1. with their dat 2. with safety, f 3. with docume 4. with current 5. with some so each workplace Recommended	students repeate s: cquainted with a ily operation, ire and hygiene r ntation related to laboratory equip elected examinate in the Scope of or required lite	dly practice some ll workplaces: regulations o their work, ment, tion methods of t Professional Prac	at the same time e selected metho heir routine dia	e learn the princip odologies under th	les of individual le supervision of
methodologies Practical skills: a lecturer Course content Gradually get a 1. with their dat 2. with safety, f 3. with docume 4. with current 5. with some so each workplace Recommended Language of in	students repeate students repeate cquainted with a ily operation, ire and hygiene p intation related to laboratory equip elected examinate in the Scope of or required lite struction: ion:	dly practice some ll workplaces: regulations o their work, ment, tion methods of t Professional Prac	at the same time e selected metho heir routine dia	e learn the princip odologies under th	les of individual le supervision of
methodologies Practical skills: a lecturer Course content Gradually get a 1. with their dat 2. with safety, f 3. with docume 4. with current 5. with some se each workplace Recommended Language of in Notes: Course evaluat	students repeate students repeate cquainted with a ily operation, ire and hygiene p intation related to laboratory equip elected examinate in the Scope of or required lite struction: ion:	dly practice some ll workplaces: regulations o their work, ment, tion methods of t Professional Prac	at the same time e selected metho heir routine dia	e learn the princip odologies under th	les of individual le supervision of

Name of lecturer(s): RNDr. Ivana Turzová, PhDr. Helena Habiňáková, RNDr. Katarína Ondrášiková, Mgr. Iveta Čučvarová, MUDr. Adrian Kališ, PhD., Mgr. Miriam Tupá, doc. RNDr. Jaroslav Timko, PhD., RNDr. Lucián Zastko, PhD.

Last modification: 11.09.2022

Supervisor(s):

University: Catholic Un	niversity in Ružomberok
Faculty: Faculty of Hea	lth
Course code: KLVM/54L1041W/22	Course title: Research in Health Care
Form of instruction: Recommended study	range: hours per semester: 12 / 12
Credits: 2	Working load: 50 hours
Recommended semeste	er/trimester: 4.
Level of study: I.	
Prerequisities:	
is necessary for the stud result of the control test before the start of next of student obtains two time the final exam due to the of the final overall evalue During the semester, eace obliged to submit accord After the end of the sem passes a final written end during the semester. To se at least 80% of points. The overall evaluation of the semester work, evalue	were covered in the last exercises. To successfully pass the control test, it dent to achieve a minimum of 6 points from a maximum of 10 points. The t will be announced to the student after the end of the exercises or one day exercises. If the student gets less than 6 points, he/she is evaluated Fx. If a es Fx from control tests during the semester, he/she will not be admitted to he theoretical failure of the subject. The results of control tests will be part uation of the student. ch student prepares a semester work on a predetermined topic, which he is ding to the instructions of the teacher. Hester and the fulfillment of all conditions given by the teacher, each student xamination, which is aimed to verify the theoretical knowledge acquired successfully complete the final written examination, the student must obtain of the student will consist of the evaluation of control tests, evaluation of uation of the final written examination and evaluation of the activity in the as the right to change the written examination to oral, which he must inform
Objective of the course research methods - quan	t has the right to correction term in accordance with the study regulations U Ružomberok.

Practical skills: to master the application of ethical and legal aspects in research, prepare the final thesis, compile a research on the topic of semester and final work, critically assess their own and acquired documents, be able to present the methodology of their own work, be able to compile individual research methods of data collection (questionnaire, survey, interview, case study,

observation, document analysis), prepare the obtained data for statistical evaluation, process the results of the final work, prepare a presentation and present the final work, research results.

Course contents:

1. Research theory, research process and its stages - conceptual phase of research - definition of research problem

2. Research process and its stages - conceptual phase of research - overview of sources, theoretical framework, hypotheses

3. Work with literature, research sources and databases

4. Research process and its stages - design and planning phase - empirical phase

5. Research process and its stages - analytical phase - dissemination phase

6. Methods of empirical data collection - questionnaire, observation, experiment, Case Study / case study

7. Measurement and measuring tools

- 8. Statistical methods deductive statistics
- 9. Statistical research methods inductive statistics

10. Qualitative research

11. Publication of results and their presentation

12. Final thesis - Rector's directive of KU no. č. VP-KU-35

Recommended or required literature:

10. HANÁČEK, J, JAVORKA, K. Vedecká príprava. Martin: Osveta, 2010. 220 s.

11. HOVORKA, D. a kol. Ako písať a komunikovať. Martin: Osveta, 2011. 247 s.

12. KATUŠČÁK, D. Ako písať vysokoškolské a kvalifikačné práce. Nitra: Enigma, 2009. 162 s.

13. KEITH F. PUNCH. Základy kvantitativního šetření. Praha: Portál, 2008. 152 s.

14. LAJČIAKOVÁ, P. Ako spracovať výskum. Ružomberok: Verbum, 2010. 180 s.

15. MEŠKO, D., KATUŠČÁK, D., FINDRA, J. a kol. Akademická príručka. Martin: Osveta, 2005. 496 s.

16. SILVERMAN, D. Ako robiť kvalitatívny výskum. Bratislava: Ikar, 2005. 327 s.

17. Smernica dekana FZ o ukončení štúdia

18. Smernica rektora KU č. č. VP-KU-35

19. STAROŇOVÁ, K. Vedecké písanie. Martin: Osveta, 2011. 246 s.

Language of instruction:

Slovak

Notes:

Course evaluation:

Assessed students in total: 10

А	В	С	D	Е	FX
10.0	30.0	0.0	30.0	30.0	0.0

Name of lecturer(s): doc. PhDr. Mgr. Vladimír Littva, PhD., MPH, PhDr. Bc. Marek Šichman, PhD., MPH, MBA, DPH, DSc., Ing. Martin Bereta, PhD., doc. RNDr. Ľudmila Lysá, PhD., PhDr. Katarína Zrubáková, PhD.

Last modification: 28.01.2023

Supervisor(s):

Person responsible for the delivery, development and quality of the study programme:

doc. RNDr. Jaroslav Timko, PhD.

KLVM/54L1042W/22	ourse title: Seminar to Final Thesis rning activities and teaching methods:
KLVM/54L1042W/22 Fype and range of planned lea Form of instruction: Seminar Recommended study range:	rning activities and teaching methods:
Form of instruction: Seminar Recommended study range:	
Teaching method: on-site	
Credits: 2 We	orking load: 50 hours
Recommended semester/trime	ster: 4.
Level of study: I.	
Prerequisities:	
focus on the issues that were co is necessary for the student to a result of the control test will be before the start of next exercises student obtains two times Fx fro the final exam due to the theore of the final overall evaluation of During the semester, each stude obliged to submit according to t After the end of the semester and passes a final written examinat during the semester. To successf at least 80% of points. The overall evaluation of the st the semester work, evaluation o exercises. The teacher has the rig	ent prepares a semester work on a predetermined topic, which he is the instructions of the teacher. d the fulfillment of all conditions given by the teacher, each student ion, which is aimed to verify the theoretical knowledge acquired fully complete the final written examination, the student must obtain sudent will consist of the evaluation of control tests, evaluation of f the final written examination and evaluation of the activity in the ght to change the written examination to oral, which he must inform e right to correction term in accordance with the study regulations nberok.

with bibliographic references. To master the principles of formal arrangement of the final work, the way of its presentation and publication.

Theoretical knowledge: to master the basic theory of writing the final thesis, masters the basic differences between different types of works, rules of work with literature, rules and ethics of citation, paraphrasing, basic principles of formal and content of the final thesis.

storage and access. Master the standards, ethical principles and techniques of citation and work

Practical skills: write the final thesis in accordance with the directive of the Rector of KU no. 2/2017, prepare a presentation of the final work, present their work and publish the results of their work in professional periodicals

Course contents:

1. Final thesis, definition, types of final theses, final thesis assignment, thesis annotation.

2. Structure and requisites of the final thesis - (cover, title page, assignment of the final thesis, statement on the number of characters).

3. Structure and requisites of the final work - (thanks, abstract in the state language, abstract in a foreign language, content).

4. Structure and requisites of the final work - (list of illustrations and list of tables, list of abbreviations and symbols, dictionary).

5. Main text part of the work - (introduction, core, conclusion, list of used literature).

6. The main text part of the work - (current state of the problem at home and abroad).

7. The main text part of the work - (goal of the work, methodology of research and methods of research, results of work, discussion).

8. Work with literature, citations and bibliographic references.

9. Formal arrangement of the final work.

- 10. Attachments and list of attachments.
- 11. Submission of the final work, control of originality.

12. Presentation of the final work and publication of the obtained results.

Recommended or required literature:

1. Smernica rektora o náležitostiach záverečných, rigoróznych a habilitačných prác, ich bibliografickej registrácii, kontrole originality, uchovávaní a sprístupňovaní na Katolíckej univerzite v Ružomberku č. VP-KU-35

2. HANÁČEK, J. - JAVORKA, K. Vedecká príprava. Martin : Osveta, 2010. .

3. HOVORKA, D. a kol. Ako písať a komunikovať. Martin : Osveta, 2011.

4. KATUŠČÁK, D. Ako písať vysokoškolské a kvalifikačné práce. Nitra : Enigma, 2009.

5. MALÍKOVÁ, K. a kol. Príprava a písanie záverečnej práce. Ružomberok : FZ KU, 2008.

6. MEŠKO, D. - KATUŠČÁK, D. - FINDRA, J. a kol. Akademická príručka. Martin : Osveta, 2005.

7. STAROŇOVÁ, K. Vedecké písanie. Martin : Osveta, 2011.

8. TUREK, I. Ako písať záverečnú prácu. Bratislava : Metodicko-pedagogické centrum, 2005.

9. VYDRA, A. Akademické písanie. Trnava : Filozofická fakulta Trnavskej univerzity, 2010.

Language of instruction: Slovak

Notes:

Course evaluation:

Assessed students in total: 10

А	В	С	D	Е	FX
80.0	10.0	10.0	0.0	0.0	0.0

Name of lecturer(s): RNDr. Lucián Zastko, PhD.

Last modification: 11.09.2022

Supervisor(s):

Person responsible for the delivery, development and quality of the study programme:

doc. RNDr. Jaroslav Timko, PhD.

University: Catho	olic University	in Ružomberok			
Faculty: Faculty	of Health				
Course code: KLVM/54L2001Y		Course title: Slovenský jazyk 1			
Type and range of Form of instruct Recommended hours weekly Teaching metho	ction: Seminar study range: 7: 2 hours pe	0	nd teaching me	ethods:	
Credits: 1	Wo	orking load: 25 h	ours		
Recommended se	emester/trime	ster: 1.			
Level of study: I.					
Prerequisities:					
Requirements fo	r passing the c	course:			
Learning outcom	nes of the cour	se:			
Course contents:					
Recommended o	r required lite	rature:			
Language of inst	ruction:				
Notes:					
Course evaluatio Assessed student					
А	В	C	D	E	FX
66.67	0.0	33.33	0.0	0.0	0.0
Name of lecturer	(s): Mgr. Lucia	a Kravčáková		•	
Last modification	n:				
Supervisor(s): Person responsible for th doc. RNDr. Jarosl			dy programme:		

University: Cath	olic University	n Ružomberok			
Faculty: Faculty	of Health				
Course code: KLVM/54T2002`		Course title: Slovenský jazyk 2			
Type and range Form of instru Recommended hours weekl Teaching meth	iction: Seminar I study range: y: 2 hours per	-	and teaching mo	ethods:	
Credits: 1	Wo	rking load: 25 h	nours		
Recommended s	emester/trimes	ter: 2.			
Level of study: I					
Prerequisities: K	XLVM/54L2001	Y/22			
Requirements fo	or passing the c	ourse:			
Learning outcom	nes of the cours	se:			
Course contents	:				
Recommended of	or required liter	ature:			
Language of ins	truction:				
Notes:					
Course evaluation					
A	В	С	D	E	FX
0.0	100.0	0.0	0.0	0.0	0.0
Name of lecture	r(s): Mgr. Lucia	Kravčáková			1
Last modificatio	on:				
Supervisor(s): Person responsible for th doc. RNDr. Jaros			ıdy programme:		

University: Catholic Uni	versity in Ružomberok
Faculty: Faculty of Healt	h
Course code: DEKZ/54Z2003W/22	Course title: The Basic Theme of the Bible
Form of instruction: L Recommended study r	ange: hours per semester: 24 / 0
Credits: 2	Working load: 50 hours
Recommended semester	/trimester: 3.
Level of study: I.	
Prerequisities: DEKZ/54	Z2002W/22
The final assessment of t Credits will be awarded fulfilling the specified co	en exam - electronic test (60-100%). he subject corresponds to the verbal assessment: Passed/Not passed. to a student who obtained at least 60 out of 100% from the subject fo nditions.
reproduce the basic elem • Skills: The student is a in religious discourse.	ent knows the basic literary-historical character of the Bible and can ents of the message of individual books. ble to read a biblical text with understanding and, on that basis, engage ent combines individual biblical ideas and, based on them, can understand
communicative character of the Bible. The messag prerequisites for reading	character, basic content lines. The text of the Bible in its genetic and ; hermeneutic starting points. Geographical and historical-cultural contex e of the Old Testament books, literary, historical-theological hermeneutic their text with understanding. The person of Jesus Christ as the center o tament. The message of the New Testament books; literary and historical

theological hermeneutic prerequisites for reading their text with understanding.

Recommended or required literature:

1. BIBLIA: Starý a Nový zákon. 2016. Trnava: Spolok Sv. Vojtecha, 2016, 3359 s. ISBN 978-80-8161-220-6.

2. HERIBAN, J. 2020. Sväté písmo: Nový zákon / úvod k jednotlivým spisom a poznámky. Trnava: Spolok Sv. Vojtecha, 2020, 776 s. ISBN 978-80-8161-435-4.

3. LENOX, J. C. 2021. Sedem dní, ktoré rozdeľujú svet: vznik vesmíru podľa Genezis a modernej vedy. Bratislava: Postoj Media, 2021, 215 s. ISBN 978-80-89994-34-2.

4. MACKERLE, A. 2014. Než budete číst Bibli podruhé: vybraná témata o Bibli.

České Budějovice: Jihočeská univerzita v Českých Budějovicích, 2014, 232 s. ISBN 978-80-7394-450-6.

5. TRSTENSKÝ, F. 2019. Rozprávaj mi o Biblii. Ružomberok: Verbum, 2019, 88 s. ISBN 978-80-8970-138-4.

6. TRSTENSKÝ, F. 2020. Štyri evanjeliá, jeden Kristus. Kežmarok: GG Kežmarok, 2020, 103 s. ISBN 978-80-89701-45-2.

NEABS

2.36

Language of instruction:

Slovak Language

Notes:

The lectures should take into account the evangelistic nature of the chosen topics.

Course evaluation:

Assessed students in total: 127

ABSOL	
97.64	

Name of lecturer(s): doc. PhDr. Mgr. Vladimír Littva, PhD., MPH, PaedDr. Martin Pinkoš

Last modification: 11.09.2022

Supervisor(s):

University: Catholic Unive	ersity in Ružomberok
Faculty: Faculty of Health	
Course code: DEKZ/54Z2002W/22	Course title: The Basic Theme of the Theology
Form of instruction: Leo Recommended study rat	nge: nours per semester: 24 / 0
Credits: 2	Working load: 50 hours
Recommended semester/t	rimester: 2.
Level of study: I.	
Prerequisities:	
The final assessment of the	n exam - electronic test (60-100%). e subject corresponds to the verbal assessment: Passed/Not passed. o a student who obtained at least 60 out of 100% from the subject for
know the basic attributes o • Skills: The student can d ecumenical and interreligio	will acquire basic knowledge about the religious phenomenon and will f Christianity in the context of other religions. istinguish the specifics of Christian identity and apply them in cultural, bus dialogue. ent can independently reflect on the essential features and truths of
Religion and the meaning the context of other religion	in the life of an individual - a person is capable of faith. of life, the role of religion in shaping critical thinking. Christianity in ns (interreligious dialogue). Christianity, its origin and the person of the ristianity and the Catholic faith (ecumenical dialogue). Jesus Christ, the

Recommended or required literature:

1. Katechizmus Katolíckej cirkvi. 2007. Trnava: Spolok sv. Vojtecha, 2007, 918 s. ISBN 978-80-7162-657-2.

2. EGGER, P. 2020. Svetové náboženstvá z kresťanského pohľadu. Nitra: Gorazd, 2020, 143 s. ISBN 978-80-89481-54-5.

3. FUNDA, O.A. 2017. K filozofii náboženství. Praha: Karolinum, 2017, 103 s. ISBN 978-80-246-3748-8.

4. HRABOVECKÝ, P. 2020. Základy fundamentálnej teológie a religionistiky. Ružomberok: Verbum, 2020, 151 s. ISBN 978-80-561-0760-7.

5. SARKA, R. 2010. Teológia náboženstiev kontexte minulosti a súčasnosti. Ružomberok: Verbum 2010, 180 s. ISBN 978-80-8084-578-0.

6. WALDENFELS H. 1999. Fenomén křesťanství. Křesťanská univerzalita v pluralite náboženství. Praha: Vyšehrad, 1999, 144 s. ISBN 80-7021-329-9.

7. RATZINGER, J. 2007. Úvod do kresťanstva. Trnava: Dobrá Kniha, 2007, 305 s. ISBN 978-80-7141-562-6.

Language of instruction:

Slovak language

Notes:

Course evaluation:

Assessed students in total: 102

ABSOL 94.12

5.88

NEABS

Name of lecturer(s): doc. PhDr. Mgr. Vladimír Littva, PhD., MPH, PaedDr. Martin Pinkoš

Last modification: 11.09.2022

Supervisor(s):

University: Catholic Unive	rsity in Ružomberok
Faculty: Faculty of Health	
Course code: KLVM/54L1053W/22	Course title: Toxicology and Examination Metods
Form of instruction: Lec Recommended study rai	nge: ours per semester: 12 / 12
Credits: 2	Working load: 50 hours
Recommended semester/t	rimester: 5.
Level of study: I.	
Prerequisities:	
Conditions for passing the During the semester: As paits evaluation makes up 10° Záverečné hodnotenie: test Course evaluation: A – 100%-93% B – 92%-85% C – 84%-77% D – 76%-69% E – 68%-60% FX – 59%- 0%	rt of the self- controlled study, elaboration of a semestrial written work, % of the final evaluation
effects of chemical substan Theoretical knowledge: Th substances, toxins, pathway their metabolism, distribution factors. Knows the sympton and inorganic substances, th care and the possibility of p Practical skills: The graduate is able to intoxication. Can take mea use elimination options cor	course: ms of the course unit: To acquaint students with toxicology and with the ces, mixtures, toxins on the human body. e student will gain basic theoretical knowledge about toxicology, toxic ys and mechanisms of entry into the body, the absorption of toxins and on in the body, clinical manifestations of intoxication by individual toxic ms of intoxication with narcotic and psychotropic substances, organic ne possibility of elimination in prehospital emergency care and hospital protecting health from intoxication recognize intoxications according to the clinical manifestations of sures to protect health from the risk of exposure to toxic factors and to rectly in case of intoxication.
Course contents: Course contents: 1. Basic concepts in toxic disciplines	cology, Toxicological disciplines and their connection with medical

2. The concept of toxic substance. Latent dose. Exposure.

3. General toxicology. Ways and mechanisms of entry of poisons into the organism, gates of entry.

4. Absorption of poisons and their metabolism. Distribution and kinetics of toxic substances in the body and the possibility of elimination of toxic substances from the body.

5. Acute, chronic toxicity and late effects of chemicals and mixtures.

6. Toxic properties of selected inorganic substances and organic substances.

7. Toxicology of pesticides, warfare agents. Radioactive substances. Vitamins.

8. Toxicology of narcotics and psychotropic substances, the most commonly used drugs.

9. Toxicology of animal toxins.

10. Toxicology of plant toxins.

11. Toxicology and drug addiction

12. Regulatory toxicology. Classification of chemical substances and mixtures according to toxicity.

Recommended or required literature:

1. TUMOVÁ, I. Toxikológia pre farmaceutov. Bratislava, Herba. 2016. 192 s. ISBN 9788089631568.

2. ŠEVELA K., ŠEVČÍK P. a kol. Akutní intoxikace a léková poškození v intenzivní medicíně, Praha, Grada, 2011. 328 s. ISBN 978-80-247-3146-9.

3. PLAČKOVÁ S., KRESÁNEK J., CAGÁŇOVÁ, B. Intoxikáciehubami, rastlinami a živočíšnymitoxínmi. Bratislava: Herba 2013; 176 s. ISBN 978-80-89631-10-0.

4. Nariadenie Európskeho parlamentu a Rady 1272/2008 . o klasifikácii, balení a označovaní chemických látok a zmesí.

5. LINHART, I. Toxikologie pro chemiky. VŠCHT Praha, 2012; ISBN 978-80-7080-608-1

Language of instruction:

Slovak Language

Notes:

The subject is taught and evaluated only in the winter semester of the respective academic year.

Course evaluation:

Assessed students in total: 14

А	В	С	D	Е	FX
64.29	21.43	14.29	0.0	0.0	0.0

Name of lecturer(s): doc. MUDr. Eleonóra Fabiánová, PhD., MPH

Last modification: 11.09.2022

Supervisor(s):

Person responsible for the delivery, development and quality of the study programme:

doc. RNDr. Jaroslav Timko, PhD.