



УНИВЕРЗИТЕТ У БАЊОЈ ЛУЦИ
UNIVERSITY OF BANJA LUKA
МЕДИЦИНСКИ ФАКУЛТЕТ
FACULTY OF MEDICINE



CURRICULUM OF THE NURSING STUDY PROGRAMME

THE NURSING STUDY PROGRAMME

Year 1–Semester 1

No.	Compulsory course title	Theoretical training			Clinical training		ISW	Total hours	ECTS	Semester
		L	DRP	S	CP	PT				
1	Anatomy	3(45)	3(45)				60	150	6	I
2	Introduction to Health Care (nursing theories and concepts; health care process and documentation; diagnostic and therapeutic procedures)	3(45)	4 (60)		2(30)	80	35	250	10	I
3	Communication in Health Care	1(15)	1(15)		2(30)	80	60	200	8	I
4	Ethics and Philosophy in Health Care	2(30)					20	50	2	I
5	Fundamentals of Biophysics	1(15)					10	25	1	I
6	Serbian Language 1	2(30)	1(15)				30	75	3	I
Total in Semester 1:		12(180)	9(135)	-	4(60)	160	215	750	30	I
		25 (375)				160	215	750	30	I

Legend:L(lectures);DRP(demonstration roompracticals);S(seminar papers);CP(clinical practicals);PT(professional training)—at year level;ISW(individual student's work);

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Year 1–Semester 2										
No.	Compulsory course title	Theoretical training			Clinical training		ISW	Total hours	ECTS	Semester
		L	DRP	S	CP	PT				
7	Physiology	3(45)	2(30)				75	150	6	II
8	Biochemistry	3(45)	2(30)				75	150	6	II
9	Microbiology with Parasitology	2(30)	3(45)				75	150	6	II
10	Public Health (epidemiology; infection prevention and control)	2(30)			2(30)		40	100	4	II
11	Hygienics	1(15)	2(30)				55	100	4	II
12	Workplace and Patient Safety	1(15)		2(30)			55	100	4	II
Total in Semester 2:		12(180)	9(135)	2(30)	2(30)	-	375	750	30	II
		25 (375)				-	375	750	30	II
Total in Year 1:		1500hours							60	I + II

Legend:L(lectures);DRP(demonstration room practicals);S(seminar papers);CP (clinical practicals);PT(professional training)– at year level;ISW(individual student's work);

THE NURSING STUDY PROGRAMME										
Year 2–Semester 3										
No.	Compulsory course title	Theoretical training			Clinical training		ISW	Total hours	ECTS	Semester
		L	DRP	S	CP	PT				
13	Pathology	2(30)	2(30)				40	100	4	III
14	Pharmacology	2(30)			1(15)		30	75	3	III
15	Patophysiology	2(30)	1(15)				30	75	3	III
16	Fundamentals of Human Genetics	1(15)		1(15)			20	50	2	III
17	Multidisciplinary Health Care (urgent states; vital parameters assessment; reanimation)	3(45)	3(45)		2(30)	40	40	200	8	III
18	Health Care of Internal Medicine Patients (care of internal medicine patients, internal medicine, propaedeutics in internal medicine)	2(30)			3(45)	120	55	250	10	III
Total in Semester 3:		12(180)	6(90)	1(15)	6(90)	160	215	750	30	III
		25 (375)				160	215	750	30	III

Legend:L(lectures);DRP(demonstration room practicals);S(seminar papers);CP (clinical practicals);PT(professional training)– at year level;ISW(individual student's work);

Year 2–Semester 4										
No.	Compulsory course title	Theoretical training			Clinical training		ISW	Total hours	ECTS	Semester
		L	DRP	S	CP	PT				
19	Health Care in Infectology and Infectious Diseases	2(30)			2(30)	40	25	125	5	IV
20	Health Care of Neurological Patients and Neurology	1(15)			3(45)	40	25	125	5	IV
21	Health Care of Surgical Patients and Surgery (care of surgical patients; surgery; asepsis, antisepsis)	3(45)			5(75)	100	55	275	11	IV
22	Health Care in Emergency Situations	1(15)		1(15)	1(15)		30	75	3	IV
23	Health Care Statistics and Informatics	1(15)	2(30)				30	75	3	IV
24	Elective1(1/2):	1(15)			2(30)		30	75	3	IV
Total in Semester 4:		9(135)	2(30)	1(15)	13(195)	180	195	750	30	IV
		25 (375)				180	195	750	30	IV
Total in Year 2:		1500 hours							60	III + IV

Legend:L(lectures); DRP(demonstration room practicals); S(seminar papers); CP (clinical practicals); PT(professional training) – at year level; ISW(individual student's work);

Elective1 (student selects one of the two offered courses)							
No.	Elective course title	L	CP	ISW	Total hours	Number of ECTS	Semester
1.1.	Health Care in the Intensive Care Unit	1(15)	2(30)	30	75	3	IV
1.2.	Assistance with Endoscopic Procedures	1(15)	2(30)	30	75	3	IV
1.3.	Serbian Language 2	1(15)	2(30)	30	75	3	IV

Legend: L (lectures); CP (clinical practicals); ISW (individual student's work);

THE NURSING STUDY PROGRAMME										
Year 3–Semester 5										
No.	Compulsory course title	Theoretical training			Clinical training		ISW	Total hours	ECTS	Semester
		L	DRP	S	CP	PT				
25	Health Care of the Elderly and Geriatrics	3(45)			4(60)	100	45	250	10	V
26	Mental Health and Health Care of Psychiatric Patients (health care and mental health; fundamentals of psychiatry, care of aggressive patients)	2(30)		1(15)	4(60)	100	45	250	10	V
27	Clinical Pharmacology (safe medication use and prescription)	1(15)			2(30)		30	75	3	V
28	Health Care in Rehabilitation	2(30)			3(45)		25	100	4	V
29	Elective2(1/2)	1(15)			2(30)		30	75	3	V
Total in Semester 5:		9(135)	-	1(15)	15(225)	200	175	750	30	V
		25 (375)				200	175	750	30	V

Legend:L(lectures);DRP(demonstration room practicals);S(seminar papers);CP (clinical practicals);PT(professional training)– at year level;ISW(individual student's work);

Elective2(student selects one of the two offered courses)							
No.	Elective course title	L	CP	ISW	Total hours	Number of ECTS	Semester
2.1.	Community Mental Health	1(15)	2(30)	30	75	3	V
2.2.	Social Integration of People with Disabilities	1(15)	2(30)	30	75	3	V
2.3.	Serbian Language - Conversation	1(15)	2(30)	30	75	3	V

Legend: L(lectures); CP (clinical practicals); ISW(individual student's work);

Year 3 – Semester 6										
No.	Compulsory course title	Theoretical training			Clinical training		ISW	Total hours	ECTS	Semester
		L	DRP	S	CP	PT				
30	Health Care in Pediatrics and Pediatrics (pediatric propaedeutics; newborn, child and adolescent health care; pediatrics)	3(45)			5(75)	120	35	275	11	VI
31	Health Care in Gynecology and Obstetrics and Gynecology and Obstetrics	3(45)			4(60)	100	45	250	10	VI
32	Health Care Management and Organization	1(15)		1(15)	1(15)		30	75	3	VI
33	Nutrition and Dietetics	1(15)		1(15)	1(15)		30	75	3	VI
34	Elective3(1/2)	1(15)		1(15)	1(15)		30	75	3	VI
Total in Semester 6:		9(135)		3(45)	12(180)	220	170	750	30	VI
		24 (360)						750	30	VI
Total in Year 3:		1500hours							60	V + VI

Legend:L(lectures);DRP(demonstration room practicals);S(seminar papers);CP (clinical practicals);PT(professional training)– at year level;ISW(individual student's work);

Elective3(student selects one of the two offered courses)								
No.	Elective course title	L	S	CP	ISW	Total hours	Number of ECTS	Semester
3.1.	Adolescent Health	1(15)	1(15)	1(15)	30	75	3	VI
3.2.	Sexual and Reproductive Health	1(15)	1(15)	1(15)	30	75	3	VI

Legend:L(lectures);S (seminar papers); CP (clinical practicals); ISW (individual student's work);

THE NURSING STUDY PROGRAMME										
Year 4 – Semester 7										
No.	Compulsory course title	Theoretical training			Clinical training		ISW	Total hours	ECTS	Semester
		L	DRP	S	CP	PT				
35	Health Care in Primary Health Protection, Family and Community	3(45)			3(45)	120	40	250	10	VII
36	Palliative Care (end-of-life care; pain management)	1(15)			3(45)	40	25	125	5	VII
37	Health Care of Oncological Patients and Oncology	2(30)			4(60)	25	35	150	6	VII
38	Scientific Research in Health Care (evidence-based nursing practice)	1(15)	1(15)	1(15)			30	75	3	VII
39	Sociology of Health and Disease and Multiculturalism	2(30)		1(15)			30	75	3	VII
40	Elective4(1/2)	1 (15)			2(30)		30	75	3	VII
Total in Semester 7:		10(150)	1(15)	2(30)	12(180)	185	190	750	30	VII
		25 (375)				185	190	750	30	VII

Legend:L(lectures);DRP(demonstration room practicals);S(seminar papers);CP (clinical practicals);PT(professional training)– at year level;ISW(individual student's work);

Elective4(student selects one of the two offered courses)							
No.	Elective course title	L	CP	ISW	Total hours	Number of ECTS	Semester
4.1.	Community Nursing	1(15)	2(30)	30	75	3	VII
4.2.	A Selection of Topics in Health Care in Dermatovenereology	1(15)	2(30)	30	75	3	VII

Legend:L(lectures);CP (clinical practicals);ISW(individual student's work);

Year 4 – Semester 8										
No.	Compulsory course title	Theoretical training			Clinical training		ISW	Total hours	ECTS	Semester
		L	DRP	S	CP	PT				
41	Pedagogy and Mentoring Process in Health Care	1(15)	1(15)	1(15)			30	75	3	VIII
42	Health Promotion (vulnerable groups, health education, social medicine)	2(30)			2(30)		40	100	4	VIII
43	Psychology	2(30)		1(15)			30	75	3	VIII
44	Social and Health Legislation (legal aspects of health care)	2(30)		1(15)			30	75	3	VIII
45	Fundamentals of Radiology	2(30)			2(30)		15	75	3	VIII
46	Elective5(1/2)	1(15)			2(30)		30	75	3	VIII
47	Bachelor's Thesis			2(30)	3(45)	100	100	275	11	VIII
Total in Semester 8:		10(150)	1(15)	5(75)	9(135)	100	275	750	30	VIII
		25 (375)				100	275	750	30	VIII
Total in Year 4:		1500hours							60	VII + VIII

Legend:L(lectures);DRP(demonstration room practicals);S(seminar papers);CP (clinical practicals);PT(professional training)– at year level;ISW(individual student's work);

Elective5(student selects one of the two offered courses)							
No.	Elective course title	L	CP	ISW	Total hours	Number ofECTS	Semester
5.1.	A Selection of Topics in Health Care in Ophthalmology	1(15)	2(30)	30	75	3	VIII
5.2.	A Selection of Topics in Health Care in Otorhinolaryngology	1(15)	2(30)	30	75	3	VIII

Legend:L(lectures);CP (clinical practicals);ISW(individual student's work);

Table 6.1.1. Characteristics of the Nursing Study Programme

The Nursing Study Programme 2017								
Year of study(number of courses)	Theoretical training			Clinical training		ISW	Total hours	ECTS
	L	DRP	S	CP	PT			
1 (12 courses)	360	270	30	90	160	590	1500	60
2 (12 courses)	315	120	30	285	340	410	1500	60
3 (10 courses)	270	0	60	405	420	345	1500	60
4 (13 courses)	300	30	105	315	285	465	1500	60
Total per years of study(47courses)	1245	420	225	1095	1205	1810	6000	240
Σ	1890 (45%)			2300 (55%)				
Total theoretical and clinical training per Directive 2013/55/E3 Of minimum 4600 hours 1/3 theoretical and1/2 clinical training	4190 (100%)					1810	6000	240
Total % of the curriculum	70%					30%	100%	
Electives and bachelor’s thesis in ECTS	15 ECTS (courses) + 11 ECTS (bachelor’s thesis) =26 ECTS (10,83%)							
Educational profile	Bachelor of Nursing -240ECTS							
Type of study	Academic studies (4 years, 8 semesters)							
Value of 1 ECTS	25 hours							
Mode of study	Regular, self-financing, part-time							
Area of study	Health and health protection							
Field of study	Health							
Discipline of study	Nursing							

Legend:L(lectures);DRP(demonstration room practicals);S(seminar papers);CP (clinical practicals);PT(professional training)– at year level;ISW(individual student's work);

SYLLABI

FIRST YEAR

	UNIVERSITY OF BANJA LUKA FACULTY OF MEDICINE		
	UNDERGRADUATE STUDIES		
	Study Programme of:	NURSING	

Course Unit Name	ANATOMY			
Course Unit Code	Course Unit Status	Semester	Class Workload	Number of ECTS
	compulsory	I	3 L + 3 DRP (90)	6
Members of Staff:	Zdenka Krivokuća, PhD, Full Professor, Head of Department; Goran Spasojević, PhD, Full Professor; Vesna Gajanin, PhD, Associate Professor; Zlatan Stojanović, PhD, Assistant Professor; Igor Sladojević, PhD, Assistant Professor; Mirka Šarović Vukajlović, PhD, Teaching Assistant;			

Eligibility Requirements:	Form of Requirements
None	In accordance with the Rules of Studying at the I Cycle of Academic Studies.

Goals of the Course Unit:

The student is introduced to the macroscopic and microscopic structure of the human body.

Learning Outcomes (knowledge gained):

The gaining of fundamental knowledge in systematic, topographic, and applied clinical anatomy, as well as in the microscopic structure of human tissues and organs, which will be useful in the practical anatomy education and serve as a foundation for all clinical disciplines.

Competencies:

Orientation towards the patient where the organs needed for potential examinations are located; Understanding the morphology of healthy organs to identify potential pathological changes based on morphological alterations; Quick orientation related to the patient's complaints concerning pain in a specific region, i.e., adequate assessment of which organs or organ systems might be affected by disease based on physical examination, including inspection, palpation, and auscultation findings; Accurate interpretation of human body imaging obtained through visualization methods, from standard X-rays to images produced by modern technologies (computed axial tomography, nuclear magnetic resonance, ultrasonography etc.).

Contents of the Course Unit:

Introduction to anatomy. General osteology, human skeleton. General arthrology, joints of the human body. General myology: facial, masticatory, and respiratory muscles; major limb muscles. General angiology: arteries, veins, and capillaries. Major and minor blood circulation. Heart. Pericardial sac. Aorta and its branches. Main blood vessels: of the head, upper and lower limbs. System of the superior and inferior vena cava. Basics of lymphatic flow. Respiratory organs: upper respiratory tract. Thoracic cavity: mediastinum, trachea and main bronchi, lungs, pleura, oesophagus. Thymus. Abdominal cavity: stomach, duodenum, jejunum, ileum, cecum, appendix, colon, and rectum. Liver and bile ducts. Pancreas. Spleen. Major abdominal blood vessels. Retroperitoneal space: kidneys and urinary tract. Renal fascia. Kidney structure (macroscopic and microscopic). Urinary bladder. Adrenal gland. Pelvis: male reproductive organs, female reproductive organs. Central nervous system: division of the nervous system. Spinal cord, rhombencephalon (hindbrain), mesencephalon (midbrain), and diencephalon. Pituitary gland and pineal gland. Cerebrum. Conduction pathways. Meninges and diencephalon, cerebrospinal fluid (production and drainage). Major cerebral blood vessels. Peripheral nervous system: cranial nerves, spinal nerves. Autonomic nervous system: sympathetic and parasympathetic systems. Major autonomic plexuses (cardiac, pulmonary, celiac, and pelvic). Anatomy of the senses: vision, hearing, and balance. Endocrine system. Receptor system. Skin anatomy: definition, classification, major terms, and structure.

Teaching Methods:

Classes are performed as lectures, interactive exercises or practicals, seminars, midterms, consultation and students' independent work.

Literature:

1. Кривокућа, З., Бућма, Т., Спасојевић, Г. и Гајанин, В. (2008). *Анатомија човјека за студенте Студија здравствене његе*. Рефина ЕУ, ПДФ, ЦИБИД

Examination forms:

Pre-Exam Duties		Final Exam		Total Points
Attendance	4	Oral/written test	50	100
Midterm(s)	30			
Seminar paper	16			

Note for the Course Unit:

Knowledge of Latin is required.

Syllabus Designer: Zdenka Krivokuća, PhD, Full Professor

	UNIVERSITY OF BANJA LUKA FACULTY OF MEDICINE		
	UNDERGRADUATE STUDIES		
	Study Programme of:	NURSING	

Course Unit Name	INTRODUCTION TO HEALTH CARE			
	Nursing theories and concepts; health care process and documentation; diagnostic and therapeutic procedures			
Course Unit Code	Course Unit Status	Semester	Class Workload	Number of ECTS
	compulsory	I	3 L + 4 DRP + 2 CP (135) + 80 PT	10
Members of Staff:	Snežana Petrović-Tepić, PhD, Assistant Professor, Course Coordinator; Jelica Predojević-Samardžić, PhD, Full Professor; Gordana Bukara-Radujković, PhD, Assistant Professor; Duška Jović, MA, Senior Teaching Assistant; Darija Knežević, MA, Senior Teaching Assistant; Nataša Egeljčić-Mihailović, Expert Associate; Milanka Azarić Expert Associate; Gordana Katalina, Expert Associate; Nada Vrhovac, Expert Associate; Željana Kostrešević, Expert Associate			

Eligibility Requirements:	Form of Requirements
None	
Goals of the Course Unit: Introducing students to basic concepts in medicine and health care, the concept of nursing development, principles of health care and modern nursing, and fundamental skills in nursing practice.	
Learning Outcomes (knowledge gained): After attending classes and passing the final exam, students will have been able to do the following: conduct and plan health care using appropriate terminology and international classifications in the field of nursing; identify and describe the most important theoretical nursing models; determine the key nursing theories; apply and maintain health care documentation; assess the vital parameters; understand the routes of medication administration into the body.	
Competencies: 1, 2, 3, 4, 5, 6 (see the enclosure Competencies).	
Contents of the Course Unit: Basic concepts in health care. Definition of health care. Health care as a science and contemporary nursing. Theoretical models in nursing. Principles and methods of health care. Types of health care. Health care process. Health care documentation. System of organizing health care provision and team work. Nursing functions and competencies. Education and professional development of nurses and technicians. Diagnostic and therapeutic procedures in health care. Health care in primary health care. Health care in emergency situations.	
Teaching Methods: Classes are performed as lectures, interactive exercises, seminars, midterms, consultation and independent students' work. The practicals will be conducted in the Clinical Skills Lab and Clinics, during which students are required to master the relevant procedures (competency levels A, B, C, or D) referred to in the catalogue of clinical skills. Professional training (PT) will be conducted throughout the academic year in various hospital units.	

Literature:

1. Тијанић, М., Ђурановић, Д., Рудић, Р. и Миловић, Ј. (2010). *Здравствена нега и савремено сестринство*. Београд: Научна КМД.
2. Галић Д. и сар. *Стандардне оперативне процедуре здравствене неге у примарној здравственој заштити 1. дио*. Сарајево, 2017.
3. Кулић, Ј. (2011). *Здравствена нега 1 и 2*. Београд.
4. Петровић-Тепић, С., Предојевић-Самарцић, Ј., Букара-Радужић, Г. - *Наставни текстови*.

Examination forms:

Pre-Exam Duties		Final Exam		Total Points
Attendance	5	Oral/written test	50	100
Midterm	25			
Seminar paper	20			

Note for the Course Unit:

As part of this course unit, the student will have completed a professional training (PT) with a total duration of 80 hours (over 10 days). The student is required to present a signed record of the completed PT for review.

Syllabus Designer: Snežana Petrović-Tepić, PhD, Assistant Professor, and Duška Jović, Senior Teaching Assistant

	UNIVERSITY OF BANJA LUKA FACULTY OF MEDICINE		
	UNDERGRADUATE STUDIES		
	Study Programme of:	NURSING	

Course Unit Name	COMMUNICATION IN HEALTH CARE			
Course Unit Code	Course Unit Status	Semester	Class Workload	Number of ECTS
	compulsory	I	1 L + 1 DRP + 2 CP (60) + 80 PT	8
Members of Staff:	Janja Bojanić, PhD, Associate Professor; Gordana Tešanović, PhD, Full Professor; Duška Jović, MA, Senior Teaching Assistant; Darija Knežević, MA, Senior Teaching Assistant; Jelena Laganin-Dobrovoljski, Expert Associate; Ivanka Radulj, Expert Associate			

Eligibility Requirements:	Form of Requirements
None	
Goals of the Course Unit: Introducing students to the basic principles, types and forms of communication in health care and training for effective and efficient communication with patients and their family members.	
Learning Outcomes (knowledge gained): After attending classes and passing the final exam, students will be able to do the following: define communication, explain the concept, types, goals and principles of communication; recognize and demonstrate basic non-verbal and paraverbal messages; demonstrate empathy-building skills; adapt communication and interpret the specifics of communication with persons with limited communication abilities, children, adolescents and the elderly; use the correct technique of communication with disabled persons, mentally ill and seriously ill persons; prepare and perform a presentation on a given topic in the field of nursing; identify and choose an appropriate leadership style in the team.	
Competencies: 1, 2, 3, 6, 7, 8 (see the enclosure Competencies).	
Contents of the Course Unit: Introduction to Communication: definition and concept of communication, types, goals, and principles of communication. Verbal communication. Non-verbal communication. Empathy and the significance of empathy in communicating with patients and their families. Communication culture. Barriers to communication. Specificities of communication in health care (individuals with limited communication abilities). Communication with particularly sensitive groups (children, adolescents, and the elderly). Presentation skills. Team communication and leadership styles. Community communication. Communication in a crisis situation. Ethical aspects of communication.	
Teaching Methods: Classes are performed as lectures, interactive exercises, seminars, midterms, consultation and independent students' work. The practicals will be conducted in the simulation centre, Community Health Centre (CHC) and different clinics of the University Clinical Centre of the Republic of Srpska. Professional training (PT) will be conducted throughout the academic year in the Community Health Centre (CHC) and various hospital units.	
Literature:	

1. Кекуш Д. (2010). Комуникација у професионалној пракси здравствених радника. Београд.
2. Еиде, Х. и Еиде, Т. (2005). Комуникација сестра – пацијент. Београд: Удружење медицинских сестара и техничара Србије.
3. Скрипта – Вјештина комуницирања у здравству (2010). Бања Лука.
4. Галић Д. и сар. *Стандардне оперативне процедуре здравствене његе у примарној здравственој заштити I. дио*. Сарајево, 2017.
5. Пувачић, З. и сар. Протокол комуникације о јавном здрављу дјеце. Уницеф.

Examination forms:

Pre-Exam Duties		Final Exam		Total Points
Attendance	5	Oral/written exam	50	100
Midterms	40			
Seminar paper	5			

Note for the Course Unit:

As part of this course unit, the student will have completed a professional training (PT) with a total duration of 80 hours (over 10 days). The student is required to present a signed record of the completed PT for review.

Syllabus Designer: Janja Bojanić, PhD, Associate Professor, and Duška Jović, Senior Teaching Assistant

	UNIVERSITY OF BANJA LUKA		
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	UNDERGRADUATE STUDIES		
	Study Programme of:	NURSING	

Course Unit Name	ETHICS AND PHILOSOPHY IN HEALTH CARE			
Course Unit Code	Course Unit Status	Semester	Class Workload	Number of ECTS
	compulsory	I	2 L + 0 P + 0 S (30)	2
Members of Staff:	Goran Stojanović, PhD, Assistant Professor			

Eligibility Requirements:				Form of Requirements	
None					
Goals of the Course Unit:					
The goal of this course unit, in a theoretical sense, is for students to get to know the fundamental concepts of ethics, recent theories of normative ethics, and their application to medical practice. Special emphasis is placed on the historical development of medical ethics and on typical moral problems imposed by rapid scientific and technological advancements.					
Learning Outcomes (knowledge gained):					
After passing the exam, students will have been able to comprehend the fundamental concepts of ethics and how medical ethics explains and regulates moral human actions in medical practice. They will get introduced to the basic issues of medical ethics, as well as its main codes and declarations.					
Competencies:					
1 (see the enclosure Competencies)					
Contents of the Course Unit:					
The course unit will explore the fundamental psycho-sociological factors of moral phenomena, the historical development of medical ethics, and the emergence of contemporary bioethics. Special attention will be given to issues of medical ethics in health care, the relationship between health care professionals and patients, codes and declarations, as well as legal and ethical issues in medical practice.					
Teaching Methods:					
The professor conducts the theoretical part of the curriculum through frontal (classroom) teaching, while the interactive part is carried out through simulations and the solving of concrete examples from medical practice, as well as debates on controversial ethical issues. Student knowledge is assessed continuously through written pre-exam duties and a final oral exam, which together form the final grade.					
Literature:					
1. Марић, Јован. <i>Медицинска етика</i> (XIV издање), Београд: Центар за издавачку дјелатност Феријалног савеза Србије, 2005.					
2. Пенс, Грегори. <i>Класични случајеви из медицинске етике</i> , Београд: Службени гласник, 2007.					
3. Шегота, Иван. <i>Етика сестринства</i> (II издање), Ријека: Медицински факултет, 1997.					
Examination forms:					
Pre-Exam Duties		Final Exam		Total Points	
Attendance	10	Oral exam	50	100	
Midterm 1	20				
Midterm 2	20				
Note for the Course Unit:					
Syllabus Designer: Goran Stojanović, PhD, Assistant Professor					

	UNIVERSITY OF BANJA LUKA FACULTY OF MEDICINE			
	UNDERGRADUATE STUDIES			
	Study Programme of:	NURSING		
Course Unit Name	FUNDAMENTALS IN BIOPHYSICS			
Course Unit Code	Course Unit Status	Semester	Class Workload	Number of ECTS
	compulsory	I	1 L + 0 P (15)	1
Members of Staff:	Academician Dragoljub Mirjanić, Full Professor			
Eligibility Requirements:			Form of Requirements	
None				
Goals of the Course Unit:				
The primary goal of the course unit Biophysics is studying the fundamental physical quantities and laws in biophysics that are necessary for a successful pursuing of other course units, as well as for developing a certain level of creativity.				
Learning Outcomes (knowledge gained):				
Students will be trained to identify, formulate, and solve issues in the areas of biomechanics, bioelectromagnetism, optics, and the fundamentals of atomic and nuclear physics, both for the purpose of health care studies and for the purpose of biomedicine.				
Competencies:				
4, 5 (see the enclosure Competencies).				
Contents of the Course Unit:				
Introduction and significance of biophysics in health care. Biomechanics, molecular physics, and thermophysics (heat exchange between biosystems and the environment, particle transport), bioelectromagnetism, optics, and the fundamentals of atomic and nuclear physics (X-ray radiation, molecular spectra, natural and artificial radioactivity, ionizing radiation).				
Teaching Methods:				
Classes are performed as lectures, midterms, consultation and independent students' work.				
Literature:				
1. Шетрајчић, Ј. и Мирјанић, Д. (2012). <i>Биофизичке основе технике и медицине</i> . Бања Лука: АНУРС. 2. Раковић, Д. (2008). <i>Биофизика</i> . Београд. 3. Јанић, И., Мирјанић, Д. и Шетрајчић, Ј. (1993). <i>Општа физика и биофизика</i> . Бања Лука.				
Examination forms:				
Pre-Exam Duties		Final Exam		Total Points
Attendance	4	Oral/written exam	50	100
Midterms	46			
Seminar paper				
Note for the Course Unit:				
Syllabus Designer: Academician Dragoljub Mirjanić, Full Professor				

	UNIVERSITY OF BANJA LUKA FACULTY OF MEDICINE				
	UNDERGRADUATE STUDIES				
	Study Programme of	NURSING			
Course Unit Name	Serbian Language 1				
Type of Course Unit	General Education				
Course Unit Code	Course Unit Status	Semester	Class Workload	Number of ECTS	
	COMPULSORY	I	2L + 1P	3	
Members of Staff					
Eligibility Requirements				Form of Requirements	
-				-	
Goals of the Course Unit					
This course unit enables students to focus on elementary phrases, and adopt vocabulary with topics for everyday communication. They will be introduced to basic grammatical structures. The classes focus on listening, speaking, reading and writing skills for initial level.					
Learning Outcomes (knowledge acquired):					
Students will be able to understand elementary questions and participate in basic conversations: Serbian Greetings, learn how to introduce themselves in Serbian, asking for Help and Directions, Serbian Expressions and Words,, use of both letters Cyrillic and Latin.					
Contents of the Course Unit:					
<i>spelling and pronunciation:</i> the basics of pronunciation of all phonemes of standard Serbian; Cyrillic and Latin script; <i>grammar:</i> present tense, nominative and locative cases – singular and plural, basic meanings and use; personal, and possessive pronouns; elementary adjectives, <i>vocabulary:</i> food and drink, money and shopping, clothes, family; <i>communication:</i> introducing yourself and others; in the supermarket, exchange office and restaurant, etc.					
Teaching Methods:					
Classes include the following methods: listening and watching audio and video content; reading short texts; practice student speaking skills; independent student work					
Literature:					
2. Nataša Milićević Dobromirov, Biljana Novković Adžajip					
3. Učimo srpski 1, 2020.					
Examination Form:					
Pre-Exam Duties		Final Exam		Total Points	
Attendance	5	Written	50	100	
Midterms (2)	40				
Activity	5				
Note for the Course Unit:					
-					
Syllabus Designer:					

	UNIVERSITY OF BANJA LUKA FACULTY OF MEDICINE		
	UNDERGRADUATE STUDIES		
	Study Programme of:	NURSING	

Course Unit Name	PHYSIOLOGY			
Course Unit Code	Course Unit Status	Semester	Class Workload	Number of ECTS
	compulsory	II	3 L + 2 DRP (75)	6
Members of Staff:	Amela Matavulj, PhD, Full Professor, Head of the Department; Zvezdana Rajkovača, PhD, Full Professor; Nenad Ponorac, PhD, Associate Professor; Peđa Kovačević, PhD, Associate Professor; Zorislava Zagorac, MSc , Senior Teaching Assistant; Želimir Erić, MSc , Senior Teaching Assistant; Tanja Šobot, MA, Senior Teaching Assistant			

Eligibility Requirements:	Form of Requirements
None	
Goals of the Course Unit: The acquisition of knowledge about the normal function of the human body, both as a whole and at the level of individual organs and tissues, with an emphasis on the regulatory mechanisms for maintaining homeostasis. Individual functions are explained at the molecular level as well as at the level of the whole organism. The goal is to enable students to use their understanding of basic life functions to facilitate the mastery of clinical subjects and to comprehend nursing care more effectively.	
Learning Outcomes (knowledge gained): After attending classes and passing the exam, students will be able to do the following: understand physiological processes in the body at different levels (molecules – cells – tissues – organs – the whole organism); describe how physiological processes are related to human health; apply acquired knowledge in assessing the condition of patients; critically analyze modern literature in physiology, especially that related to the application of physiological principles in clinical nursing practice.	
Competencies: 1, 3, 4, 6, 7 (see the enclosure Competencies).	
Contents of the Course Unit: Homeostasis. Hematology. Immunology. Cell membrane. Muscles. Heart. Circulation. Body fluids, kidneys. Respiratory system. Gastrointestinal system. Metabolism and thermoregulation. Nervous system (sensory functions, special senses, motor functions, integrative neurophysiology). Endocrine system.	
Teaching Methods: Lectures, practicals, midterms - practicals (2), midterms - theory (2), final exam: practical and oral exam (the condition for taking the oral final exam is passing the practical exam), consultations, and independent students' work.	
Literature:	

1. Guyton, A.C. and Hall, J.E. (2008). *Медицинска физиологија*. 11. издање - превод. Београд: Савремена администрација - Одабрана поглавља!
2. Љуца, Ф., Нухбеговић, С., Матавуљ, А., Рајковача, З., Понорац, Н., Ристић, С. и Ковачевић, П. (2011). *Физиологија човјека*. Тузла, Бањалука, Фоча: Темпус.
3. Дреџун, М., Матавуљ, А., Којић, З., Рајковач, З., Ковачевић, П., Понорац, Н., Ристић, С., Благојевић, Л., Кунарац, М., Старовић-Бајчетић, С. и Шћекић, Ј. (2010). *Практикум из физиологије*. Фоча.

Examination forms:

Pre-Exam Duties		Final Exam		Total Points
Attendance	4	Practical and oral exam	50	100
Midterms - practicals (2)	10			
Midterms - theory (2)	36			

Note for the Course Unit:

Syllabus Designer: Amela Matavulj, PhD, Full Professor

	UNIVERSITY OF BANJA LUKA FACULTY OF MEDICINE		
	UNDERGRADUATE STUDIES		
	Study Programme of:	NURSING	

Course Unit Name	BIOCHEMISTRY			
Course Unit Code	Course Unit Status	Semester	Class Workload	Number of ECTS
	compulsory	II	3 L + 2 DRP (75)	6
Members of Staff:	Bosa Mirjanić-Azarić, PhD, Assistant Professor; Darija Komjenović, Expert Associate			

Eligibility Requirements:	Form of Requirements
None	

Goals of the Course Unit:

The aim of the course unit is to gain basic knowledge in general biochemistry: understanding the biochemistry and biomechanisms in the body, familiarization with the characteristics of anabolic and catabolic processes in the organism, the significance of intermediate metabolism, pathways of cellular signaling by hormones and other signaling molecules, structures of nucleic acids, composition of body fluids, and biochemical functions of tissues and organs. The training of students to theoretically and practically master the fundamentals of laboratory diagnostics.

Learning Outcomes (knowledge gained):

After passing the exam, students should know which compounds are essential structural parts of the human organism, their structure and properties, and understand the basic metabolic processes of carbohydrates, lipids, and proteins. Students should also be familiar with other components of the organism that are not energy sources but participate in the regulation of metabolic processes. In addition, students should understand the relationship between changes in the concentration of a substance or changes in the activity of an enzyme in body fluids as a result of a disease.

Competencies:

3, 4, 6 (see the enclosure Competencies).

Contents of the Course Unit:

Amino acids and proteins. Carbohydrates. Lipids. Water and electrolyte balance. Acid-base regulation. Nucleotides. Hemoglobin. Blood. Urine and other body fluids. Enzymes. Pyruvate dehydrogenase complex. Eicosanoids. Cytokines. Vitamins. Trace elements. Hormones. Tumor markers. Liver and kidney function.

Teaching Methods:

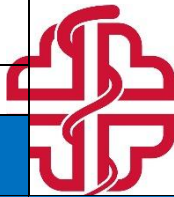
Classes are performed as lectures, interactive exercises, midterms, consultation and independent students' work. Methods of oral presentation (monological and dialogical), demonstration method, textual method, and laboratory method.

Literature:

1. Саничанин, Ж. (2014). *Биохемија*. Бања Лука: Медицински факултет.
2. Николић, Ј. (2012). *Медицинска биохемија*. Бања Лука: Медицински факултет.
3. Саничанин, Ж. и сар. (2015). *Практикум из хемије и медицинске биохемије*. Бања Лука: Медицински факултет.

Examination forms:

Pre-Exam Duties			Final Exam			Total Points	
Attendance	5	Written	25	100			
Midterm	20	Oral	25				
Tests	25						
Note for the Course Unit:							
Syllabus Designer: Bosa Mirjanić-Azarić, PhD, Assistant Professor							

	UNIVERSITY OF BANJA LUKA				
	FACULTY OF MEDICINE				
	UNDERGRADUATE STUDIES				
Study Programme of:		NURSING			
Course Unit Name		MICROBIOLOGY WITH PARASITOLOGY			
Course Unit Code	Course Unit Status	Semester	Class Workload	Number of ECTS	
	compulsory	II	2 L + 3 DRP (75)	6	
Members of Staff:	Miroslav Petković, PhD, Full Professor; Maja Travar, PhD, Assistant Professor; Aleksandra Šmitran, PhD, Assistant Professor; Višnja Mrđen, PhD, Executive Associate				
Eligibility Requirements:				Form of Requirements	
None					
Goals of the Course Unit:					
Introduction to the role and significance of microbiology and parasitology in the diagnosis of infectious diseases					
Learning Outcomes (knowledge gained):					
While attending classes and practicals and passing the exam, students will have been able to do the following: list the most common pathogenic microorganisms and the most common infections they cause, as well as the microorganisms that constitute the human physiological microbiota; describe the immune response to different types of causative agents; distinguish diagnostic procedures in microbiology, virology, and parasitology; recognize and list the sample types for specific microbiological tests, including methods of collection, preservation, and transport; and describe basic measures for controlling and preventing infectious diseases, as well as sterilization and disinfection procedures.					
Competencies:					
1, 4, 6 (see the enclosure Competencies).					
Contents of the Course Unit:					
General bacteriology. Special bacteriology. Medical protozoology. Medical helminthology. Medical mycology. General virology. Special virology.					
Teaching Methods:					
Classes are performed as lectures (students are required to attend lectures and actively participate through a pre-prepared discussion on a given topic), interactive exercises or practicals, seminars, midterms, consultation and independent students' work.					
Literature:					
1. Швабић-Влаховић, М. и сар. (2008). <i>Медицинска бактериологија</i> . Београд. 2. Јовановић, Т. и Марковић, Љ. (2008). <i>Вирусологија</i> . Београд. 3. Арсић, А.В. (2012). <i>Медицинска микологија и паразитологија</i> . Београд.					
Examination forms:					
Pre-Exam Duties		Final Exam		Total Points	
Attendance	5	Oral / written exam	50		
Midterms	30				
Seminar paper	15				
Note for the Course Unit:					
Syllabus Designer: Miroslav Petković, PhD, Full Professor					

	UNIVERSITY OF BANJA LUKA		
	FACULTY OF MEDICINE		
	UNDERGRADUATE STUDIES		
Study Programme of:	NURSING		

Course Unit Name	PUBLIC HEALTH			
	Epidemiology; Infection Prevention and Control			
Course Unit Code	Course Unit Status	Semester	Class Workload	Number of ECTS
	compulsory	II	2 L + 2 CP (60)	4
Members of Staff:	Janja Bojanić, PhD, Associate Professor; Jela Aćimović, MSc , Senior Teaching Assistant			

Eligibility Requirements:	Form of Requirements
	In accordance with the Rules of Studying at the I Cycle of Academic Studies.
Goals of the Course Unit: Introducing students to concepts in the field of public health, as well as acquiring current (up-to-date) theoretical knowledge and practical skills, and enabling the application of this knowledge in professional work and scientific research.	
Learning Outcomes (knowledge gained): Upon completion of the course, the student will be able to: calculate and interpret measures of disease frequency in a population; analyze the design of epidemiological studies and different approaches to prevention; understand the importance of the epidemiological approach in studying disease etiology, prevention, and control of health disorders; identify and describe outbreaks of infectious diseases in the community, investigate their causes, classify and differentiate them according to the modes of transmission, and implement appropriate anti-epidemic and preventive measures; plan, implement, and evaluate preventive and anti-epidemic measures for infectious diseases; and promote health.	
Competencies: 1, 2, 4, 5, 6, 7, 9 (see the enclosure Competencies).	
Contents of the Course Unit: Measurement of disease frequency in a population. Overview of the key characteristics of epidemiological methods. Epidemiological models and concepts of disease. Epidemiological surveillance, screening, and prevention of health disorders. Outbreak investigation. Modes of transmission of infectious diseases and control measures. Elimination and eradication of infectious diseases. Active and passive immunization. Importance, frequency, epidemiological characteristics, and control of hospital-acquired infections. Epidemiology of major noncommunicable diseases, risk factors, health promotion, and disease prevention.	
Teaching Methods: Classes are performed as lectures, interactive exercises, midterms, seminars, consultation and independent students' work.	
Literature: 1. Јанковић, С., Мијовић, Б., Бојанић, Ј. и Јандрић, Јб. (2014). <i>Епидемиологија</i> . 2. издање. Бања Лука и Фоча: Медицински факултет. 2. Јанковић, С., Мијовић, Б., Бојанић, Ј., Јандрић, Јб. и Максимовић, Н. (2014). <i>Практикум</i> . У: Јанковић, С (стр. 127-197). <i>Епидемиологија</i> . 2. издање. Бања Лука и Фоча: Медицински факултет	

Examination forms:				
Pre-Exam Duties		Exam		Total
Class Participation	5	Written test	50 (Minimum passing score: 26)	100
Midterms	40			
Seminar paper	5			
Note for the Course Unit:				
Syllabus Designer: Janja Bojanić, PhD, Associate Professor				

	UNIVERSITY OF BANJA LUKA				
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	UNDERGRADUATE STUDIES				
Study Programme of:		NURSING			
Course Unit Name		HYGIENICS			
Course Unit Code	Course Unit Status	Semester	Class Workload	Number of ECTS	
	compulsory	II	1 L + 2 DRP (45)	4	
Members of Staff:	Dragana Stojisavljević, PhD, Assistant Professor; Vesna Rudić Grujić, PhD, Assistant Professor; Milkica Grabež, MSc , Senior Teaching Assistant; Ljiljana Stanivuk, MSc , Senior Teaching Assistant.				
Eligibility Requirements:				Form of Requirements	
No requirements					
Goals of the Course Unit:					
The aim is for the student to learn how the environment affects health, as well as which environmental factors have a positive and which have a negative impact on the human body.					
Learning Outcomes (knowledge gained):					
The student acquires knowledge about environmental factors, their impact on health and disease, considers the possibilities of preventive actions against harmful agents, as well as the potential to strengthen the protective effects of the environment on human health.					
Competencies:					
6 (see the enclosure Competencies).					
Contents of the Course Unit:					
Introduction to medical ecology. Electromagnetic radiation and its impact on health. Air and climate as factors of health and disease. Water and health. Environmental noise and health. Fundamentals of ecotoxicology and carcinogenic substances in the environment. Waste disposal and health. Sanitary hygiene. School hygiene. Hygiene in disasters.					
Teaching Methods:					
Classes are performed as lectures, practicals, seminars, consultation and independent students' work.					
Literature:					
1. Јорга, Ј. (2013). <i>Хигијена</i> . Београд: Медицински факултет. 2. Васиљевић, Н. (2015). <i>Практикум из хигијене са медицинском екологијом</i> . Београд: Медицински факултет.					
Examination forms:					
Pre-Exam Duties		Final Exam		Total Points	
Attendance	4	Oral / written exam	20	100	
Pratical exam	26				
Seminar paper	20				
Note for the Course Unit:					
Syllabus Designer: Nađa Vasiljević, PhD, Full Professor					

	UNIVERSITY OF BANJA LUKA FACULTY OF MEDICINE		
	UNDERGRADUATE STUDIES		
	Study Programme of:	NURSING	

Course Unit Name	WORKPLACE AND PATIENT SAFETY			
Course Unit Code	Course Unit Status	Semester	Class Workload	Number of ECTS
	compulsory	II	1 L + 2 S (45)	4
Members of Staff:	Ljiljana Maleš-Bilić, PhD, Professor; Vesna Paleksić, PhD, Assistant Professor; Radmila Ubović, MSc , Senior Teaching Assistant; Ognjen Perazić, Teaching Assistant			

Eligibility Requirements:	Form of Requirements
No requirements	
Goals of the Course Unit: The main objective of the programme is to train students to apply scientific and professional achievements in the fields of engineering and management in the management of occupational and environmental protection within organizations.	
Learning Outcomes (knowledge gained): Upon completion of the course and passing the exam, the student will be able to: apply methods and procedures of preliminary risk analysis; organize and conduct risk assessment activities; measure and monitor the condition of the working and living environment; maintain the quality of the working and living environment; record, analyze, and interpret data on injuries, diseases, environmental and occupational effects, and risks; organize and report on activities related to the maintenance of safety of facilities, devices, and equipment; implement, document, and control requirements of occupational health and safety systems and environmental management systems; organize and implement integrated management systems; provide education, training, and development of occupational health and safety culture; understand and apply the paradigm of sustainable development and economic principles of occupational and environmental protection; understand ethical issues in occupational and environmental protection and develop engineering ethics; manage occupational and environmental protection systems in organizations; use information and communication technologies to follow professional developments, master knowledge and solve occupational and environmental protection problems in organizations; and continue studies in graduate programmes in the same or related fields.	
Competencies: 1, 5, 6 (see the enclosure Competencies)	
Contents of the Course Unit: Work and living environment; hazards and risks in the workplace. Occupational health and safety legislation, conventions and recommendations. Climate, macroclimate, and lighting of the work environment. Noise and vibrations in the workplace. Non-ionizing and ionizing radiation. Chemical and biological agents in the work environment. Environmental and biological monitoring. Occupational selection and career guidance. Organizational, technical, and hygienic protective measures. Occupational safety, factors influencing protection, and continuous improvement of safety. High-risk workplaces. Occupational toxicology. Occupational diseases and workplace trauma. Occupational stress. Health education and improvement of the quality of the working and living environment. Patient safety. Improvement of medication safety. Medical errors and adverse events. Risk management. Safety indicators in nursing.	

Teaching Methods:

Classes are performed as lectures, interactive exercises, seminars, midterms, consultation and independent students' work.

Literature:

1. Малеш-Билић ЈБ. Медицина рада
2. Гашић, М. и Мирјанић, С. *Заштита радне и животне средине*.
3. Миков, М. *Практикум из медицине рада*.
4. Тодић, Д. *Савремена политика и право животне средине*.

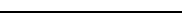
Examination forms:

Pre-Exam Duties		Final Exam		Total Points
Class attendance and participation	10	Oral / written exam	50	100
Midterm	30			
Seminar paper	10			

Note for the Course Unit:

Syllabus Designer: Ljiljana Maleš-Bilić, PhD, Professor

SECOND YEAR

	UNIVERSITY OF BANJA LUKA FACULTY OF MEDICINE		
	UNDERGRADUATE STUDIES		
	Study Programme of:	NURSING	

Course Unit Name	PATHOLOGY			
Course Unit Code	Course Unit Status	Semester	Class Workload	Number of ECTS
	compulsory	III	2 L + 2 DRP (60)	4
Members of Staff:	Radoslav Gajanin, PhD, Full Professor, Head of Department; Ljiljana Latinović, PhD, Associate Professor; Slaviša Đuričić, PhD, Assistant Professor; Aleksandra Salapura, PhD, Assistant Professor; Božana Babić, MSc, Senior Teaching Assistant; Ilija Baroš, Teaching Assistant; Svetlana Tomašević-Pavlović, Executive Associate; Goran Čampara, Executive Associate			
Eligibility Requirements:				Form of Requirements
Anatomy having been passed.				In accordance with the Rules of Studying at the I Cycle of Academic Studies.
Goals of the Course Unit:				
The aim of the course unit is to familiarize students with the fundamentals of human diseases. Students will be introduced to the basic diseases affecting all organs. During the course, students will gain an understanding of the etiology, mechanisms of disease development, progression, and outcomes, as well as the morphological changes that occur in organs, cells, and subcellular structures.				
Learning Outcomes (knowledge gained):				
The students will be familiar with the basic diseases occurring in the human population. They will be able to explain how diseases develop, identify the etiological factors, and describe the appearance of a patient, as well as the changes observed in organs and cells in diseased individuals. In the practical component, the student will be trained to identify diseases based on macroscopic (visual) findings and microscopic examination.				
Competencies:				
1, 4, 9 (see the enclosure Competencies).				
Contents of the Course Unit:				
Diseases and causes of disease. Disorders of circulation. Adaptation, accumulation, and regeneration. Inflammation. General tumor pathology. Pathology of the cardiovascular system. Pathology of the respiratory system. Pathology of the gastrointestinal system. Pathology of the liver and biliary system. Pathology of the endocrine system. Pathology of the breast and female genital system. Pathology of the kidneys, urinary tract, and male genital system. Pathology of the lymphatic and hematopoietic system. Pathology of the skin, bones, and joints. Pathology of the central nervous system.				
Teaching Methods:				
Classes are performed as lectures, interactive exercises (macroscopic exercises, autopsies, and histological exercises), seminars, midterms, consultation and independent students' work.				
Literature:				

1. Гајанин, Р., Татић, В. и Будаков, П. (2010). *Патологија за студенте здравствене његе*. 1. издање. Бања Лука: БЛЦ графички атеље за графички дизајн и дигиталну штампу.
2. Гајанин, Р. и Клем, И. (2004). *Приручник за патохистолошке вјежбе за студенте медицине и стоматологије*. 1. издање. Бањалука: Д*С.

Examination forms:

Pre-Exam Duties		Final Exam		Total Points
Attendance	5	Oral / written exam	45	100
Midterms	30			
Seminar paper	10			
Activities in practical training	10			

Note for the Course Unit:

Syllabus Designer: Radoslav Gajanin, PhD, Full Professor

	UNIVERSITY OF BANJA LUKA FACULTY OF MEDICINE		
	UNDERGRADUATE STUDIES		
	Study Programme of:	NURSING	

Course Unit Name	PHARMACOLOGY			
Course Unit Code	Course Unit Status	Semester	Class Workload	Number of ECTS
	compulsory	III	2 L + 1 DRP (45)	3
Members of Staff:	Svjetlana Stoisavljević – Šatara, PhD, Full Professor, Head of Department; Ranko Škrbić, PhD, Full Professor; Lana Nežić, PhD, Assistant Professor; Nataša Stojaković, PhD, Senior Teaching Assistant; Ana Golić-Jelić, MPharm, Teaching Assistant			

Eligibility Requirements:	Form of Requirements
The course units from the previous academic year having been passed.	In accordance with the Rules of Studying at the I Cycle of Academic Studies.
Goals of the Course Unit: Introducing students to the general principles of drug action (pharmacodynamics), the fate of drugs in the body (pharmacokinetics), the therapeutic and adverse effects of drugs, routes of administration, indications and contraindications, as well as interactions between specific groups of drugs.	
Learning Outcomes (knowledge gained): After completing the course and passing the exam, the student will be able to: define the fundamentals of pharmacology, including the basic physicochemical properties of drugs; understand the general principles of pharmacokinetics and pharmacodynamics; identify factors that influence drug efficacy; recognize adverse drug reactions, drug–drug interactions, and the basic principles of dose adjustment in specific patient populations (pediatric and geriatric patients, as well as those with comorbidities); understand the impact of physiological conditions such as pregnancy and lactation on drug efficacy and potential adverse effects; recognize the signs and symptoms of allergic reactions and anaphylaxis, as well as their management; explain the classification, mechanisms of action, and specific characteristics of different drug groups; understand the methods of administration of various pharmaceutical dosage forms.	
Competencies: 1, 2, 3, 4, 6, 7 (see the enclosure Competencies).	
Contents of the Course Unit: General pharmacology (fundamentals of pharmacokinetics and pharmacodynamics). Pharmacology of the central and autonomic nervous systems. Pharmacology of the cardiovascular system and blood. Pharmacology of the respiratory and gastrointestinal systems. Pharmacology of the endocrine system. Immunopharmacology (immunosuppressants and immunostimulants). Anti-infective drugs and cytostatics. Principles of toxicology.	
Teaching Methods: Classes are performed as lectures, interactive exercises, midterms, consultation and independent students' work.	
Literature: 1. Самојлик И, Миков М. (2016) <i>Фармакологија са токсикологијом</i> . Медицински факултет Нови Сад.	
Examination forms:	

Pre-Exam Duties		Final Exam		Total Points
Attendance	4	Oral / written exam	50	100
Midterms	46			
Seminar paper				
Note for the Course Unit:				
Syllabus Designer: Svjetlana Stoisavljević-Šatara, PhD, Full Professor				

	UNIVERSITY OF BANJA LUKA		
	FACULTY OF MEDICINE		
	UNDERGRADUATE STUDIES		
Study Programme of:	NURSING		

Course Unit Name	PATHOPHYSIOLOGY			
Course Unit Code	Course Unit Status	Semester	Class Workload	Number of ECTS
	compulsory	III	2 L + 1 DRP (45)	3
Members of Staff:	Nela Rašeta, PhD, Full Professor; Darko Golić, PhD, Associate Professor; Milorad Vujnić, MSc, Assistant Professor; Alma Prtina, MSc, Senior Teaching Assistant; Tatjana Milivojac, MSc, Senior Teaching Assistant			

Eligibility Requirements:	Form of Requirements
The prerequisite for course enrollment, attendance, and examination is having passed the Physiology.	In accordance with the Rules of Studying at the I Cycle of Academic Studies.
Goals of the Course Unit: The objective of teaching Pathophysiology is for the student to master etiological factors, risk factors, and the mechanisms underlying the development of pathological disorders in the human body, and to acquire the necessary knowledge and skills for the application of methods of functional assessment of metabolic and organ system disorders, as well as for the preparation of patients for functional testing.	
Learning Outcomes (knowledge gained): The student will be able to identify etiological factors and risk factors for the development of pathological disorders in the body, and to know, describe, and understand methods of functional assessment of metabolic and organ system disorders, as well as the principles of patient preparation for functional testing.	
Competencies: 1, 4, 9 (see the enclosure Competencies)	
Contents of the Course Unit: Introduction to pathophysiology. Defense mechanisms of the organism. Hereditary factors in disease. Disorders of protein metabolism; disorders of carbohydrate, lipid, and vitamin metabolism. Disorders of water and electrolyte balance; disorders of acid–base balance. Physical and chemical etiological factors; malignant neoplasia; disorders of the immune system. Disorders of neural and humoral regulation. Pathophysiology of the cardiovascular system. Pathophysiology of the respiratory system. Pathophysiology of the digestive system and disorders of liver function. Pathophysiology of the nervous system. Pathophysiology of the blood and hematopoietic organs; disorders of hemostasis. Disorders of the renal and urinary system. Disorders of the musculoskeletal system.	
Teaching Methods: Classes are performed as lectures, interactive exercises, seminars, midterms, consultation and independent students' work.	
Literature: 1. Калушевић М. и сар. <i>Патолошка физиологија</i> . Медицински факултет Бања Лука, 2002. 2. Дујмовић Ф., Стошић З., Ђерић М. <i>Практикум из патолошке физиологије</i> . Медицински факултет Нови Сад, 2012.	
Examination forms:	

Pre-Exam Duties		Final Exam		Total Points
Attendance	4	Practical exam	20	100
Midterms	40	Written test	30	
Seminar papers	6			
Note for the Course Unit:				
Syllabus Designer: Nela Rašeta, PhD, Full Professor				

	UNIVERSITY OF BANJA LUKA FACULTY OF MEDICINE			
	UNDERGRADUATE STUDIES			
	Study Programme of:	NURSING		
Course Unit Name	FUNDAMENTALS OF HUMAN GENETICS			
Course Unit Code	Course Unit Status	Semester	Class Workload	Number of ECTS
	compulsory	III	1 P + 1 S (30)	2
Members of Staff:	Stojko Vidović, PhD, Full Professor			
Eligibility Requirements:			Form of Requirements	
The course units from the previous academic year having been passed.			In accordance with the Rules of Studying at the I Cycle of Academic Studies.	
Goals of the Course Unit:				
To introduce students to the structure and function of genetic material (chromosomes, nucleic acids) in the principles of inheritance of traits in humans, with the aim of better understanding new diagnostic methods for genetic disorders.				
Learning Outcomes (knowledge gained):				
The student will be able to apply the acquired knowledge in the study of other medical disciplines during their education. Upon completion of their studies, this knowledge will be used to assess appropriate communication approaches with patients who have an identified genetic disorder, and to propose suitable healthcare measures, with the aim of better understanding the needs of such sensitive patients.				
Competencies:				
1, 2, 3, 4 (see the enclosure Competencies).				
Contents of the Course Unit:				
Structure and organization of the hereditary material. Function of the hereditary material. Mutagenic factors. Genetic mutations. DNA repair mechanisms. Numerical chromosomal aberrations. Structural chromosomal aberrations. Types of inheritance. Monogenic and polygenic inheritance, linked genes. Genetic basis of sex determination in humans. Fundamentals of immunogenetics. Fundamentals of oncogenetics. Genetic consultation.				
Teaching Methods:				
Classes are performed as lectures, seminars, midterms, consultation and independent students' work.				
Literature:				
1. Диклић, В., Косановић, М., Дукић, С. и Николиш, Ј. (2007). <i>Биологија са хуманом генетиком</i> . Београд: Медицински факултет. 2. Кулић, М., Станимировић, З., Ђелић, Н. и Новаковић, М. (2010). <i>Хумана генетика</i> . Сарајево: Универзитет у Источном Сарајеву. 3. Сох, М. Т & Sinclair, J. (2000). <i>Молекуларна биологија у медицини</i> . Загреб: Медицинска наклада.				
Examination forms:				
Pre-Exam Duties		Final Exam		Total Points
Attendance	5	Oral / written exam	50	100
Midterm	30			
Seminar paper	15			
Note for the Course Unit:				
Syllabus Designer: Stojko Vidović, PhD, Full Professor				

	UNIVERSITY OF BANJA LUKA FACULTY OF MEDICINE		
	UNDERGRADUATE STUDIES		
	Study Programme of:	NURSING	

Course Unit Name	MULTIDISCIPLINARY HEALTH CARE			
	First Aid; Monitoring and Maintaining the Patient's Vital Functions; Reanimation			
Course Unit Code	Course Unit Status	Semester	Class Workload	Number of ECTS
	compulsory	III	3 L + 3 DRP + 2 CP (120) + 40 PT	8
Members of Staff:	Božo Krivokuća, PhD, Associate Professor, Head of Department; Duška Jović, Senior Teaching Assistant; Darija Knežević, Senior Teaching Assistant; Vojislav Vujanović, Expert Associate; Biljana Božić, Expert Associate.			

Eligibility Requirements:	Form of Requirements
The course units from the previous academic year having been passed.	In accordance with the Rules of Studying at the I Cycle of Academic Studies.
Goals of the Course Unit:	
Acquisition of up-to-date theoretical knowledge and practical skills in the field of intensive care of critically ill or injured patients, and training to apply the acquired knowledge in professional practice.	
Learning Outcomes (knowledge gained):	
After completing the course, the student will be able to: acquire specific theoretical and practical knowledge in the field of health care in intensive care units (ICUs), including general and specialized monitoring, as well as invasive and non-invasive diagnostic and therapeutic procedures. Assess airway patency and ensure a secure airway. Acquire knowledge of medication preparation, routes and techniques of drug administration, as well as the administration of infusion solutions and blood derivatives. Identify cases requiring reanimation/resuscitation. Determine cardiopulmonary cerebral resuscitation (CPCR) measures in adults and children. Recognize the most common errors and complications during CPCR. Identify potential risks following reanimation measures. Understand their role in teamwork. Adhere to legal frameworks related to patient privacy. Assess patient needs, establish a nursing diagnosis, and develop a health care plan accordingly. Acquire knowledge of maintaining medical documentation in the ICU.	
Competencies:	
1, 2, 3, 4, 5, 6 (see the enclosure Competencies).	
Contents of the Course Unit:	
Basic characteristics of intensive treatment and intensive nursing care. Airway. Assessment of adequacy of breathing. Assessment of adequacy of circulation. Patient monitoring (visual, instrumental, and biochemical). Numerical scoring systems for the assessment of critically ill or injured patients. Cardiocirculatory arrest (CPCR measures). Brain death. Shock and types of shock. Various pathological conditions that directly threaten the patient's life. Intensive nursing care in pediatrics (CPR measures). Intensive nursing care in emergency situations. Early rehabilitation in the intensive care unit.	
Teaching Methods:	

Classes are performed as lectures, interactive exercises, seminars, midterms, consultation and independent students' work. Practical sessions will be conducted in the Clinical Skills Laboratory and the Intensive Care Unit (ICU), during which the student is required to master the relevant procedures (A, B, C, or D competency levels) from the catalogue of clinical skills. The professional training will take place throughout the academic year in the ICU.

Literature:

1. Кривокућа, Б. и сар. (2017). *Мултидисциплинарна интензивна здравствена њега*. 2. издање. Бања Лука: Медицински факултет.
2. Кривокућа, Б. и сар. (2010). *Мултидисциплинарна интензивна здравствена њега*. Бања Лука: Рефине ЕУ.
3. Lippincott Williams & Wilkins (2010). *Сестринске процедуре*. 4.издање. Београд: Дата Статус.

Examination forms:

Pre-Exam Duties		Final Exam		Total Points
Attendance	5	Oral / written exam	50	100
Midterm exams	30			
Seminar paper	15			

Note for the Course Unit:

As part of this course unit, the student will have completed a professional training (PT) with a total duration of 40 hours (5 days). The student is required to present a signed record of the completed PT for review.

Syllabus Designer: Božo Krivokuća, PhD, Associate Professor, and Duška Jović, Senior Teaching Assistant

	UNIVERSITY OF BANJA LUKA FACULTY OF MEDICINE		
	UNDERGRADUATE STUDIES		
	Study Programme of:	NURSING	

Course Unit Name	HEALTH CARE OF INTERNAL MEDICINE PATIENTS AND INTERNAL MEDICINE			
	Propaedeutics in Clinical and Hospital Practice; Health Care of Internal Medicine Patients; Internal Medicine			
Course Unit Code	Course Unit Status	Semester	Class Workload	Number of ECTS
	compulsory	III	2 L + 3 CP (75) + 120 PT	10
Members of Staff:	Snježana Popović-Pejčić, PhD, Full Professor, Head of Department; Duško Vulić, PhD, Full Professor; Sandra Hotić-Lazarević, PhD, Full Professor; Krsto Jandrić, PhD, Full Professor; Ljiljana Lakić, PhD, Full Professor; Zoran Mavija, PhD, Associate Professor; Marinko Vučić, PhD, Associate Professor; Branislav Gašić, PhD, Assistant Professor; Snježana Obradović, Executive Associate; Gordana Vrhovac, Executive Associate; Danijela Dobrovoljski, Executive Associate; Nataša Egeljić Mihajilović, Executive Associate; Gajić Veselka, Executive Associate; Živana Vuković-Kostić, Executive Associate.			

Eligibility Requirements:	Form of Requirements
The course units from the previous academic year having been passed.	In accordance with the Rules of Studying at the I Cycle of Academic Studies.
Goals of the Course Unit: Acquisition of knowledge of the etiology, mechanisms of disease development, and their clinical manifestations. Acquisition of knowledge regarding prevention, treatment, and early rehabilitation in internal medicine. Recognition of medical emergencies or emergency conditions requiring specific treatment in health care within internal medicine. Acquisition of knowledge in the diagnosis, treatment, and health care across all fields of internal medicine. Assessment of health care needs in order to plan, organize, implement, and evaluate care.	
Learning Outcomes (knowledge gained): After completing the course and passing the exam, the student will be able to: explain the basic principles of disease development and the pathogenesis of internal medicine diseases; recognize symptoms and signs, as well as emergencies in internal medicine; describe diagnostic procedures used in disease detection; describe treatment methods for internal medicine diseases; describe complications of internal medicine diseases; provide specific health care for internal medicine conditions, as well as preventive measures within their scope of competence; and maintain medical documentation in health care in internal medicine;	
Competencies: 1, 2, 3, 4, 5, 6 (see the enclosure Competencies).	
Contents of the Course Unit: Health care in cardiology. Health care in pulmonology. Health care in gastroenterology. Health care in hematology. Health care in rheumatology. Health care in nephrology. Health care in endocrinology.	
Teaching Methods:	

Classes are performed as lectures, interactive exercises, midterms, consultation and independent students' work. During the practicals, the student is required to master the relevant procedures (A, B, C, or D competency levels) referred to in the catalogue of clinical skills. The professional training (PT) will take place throughout the academic year.

Literature:

1. Ђукановић, Љ. (2011). *Интерна медицина за студенте студијског програма Здравствена нега*. Фоча: Медицински факултет.
2. Матић, Ђ. (2001). *Интерна медицина: Здравствена нега у интерној медицини*. 2. Издање. Београд.
3. Манојловић, С. и Матић, Ђ. (2010). *Здравствена нега у интерној медицини*. Београд: Завод за уџбенике.

Examination forms:

Pre-Exam Duties		Final Exam		Total Points
Attendance	5	Oral / written exam	50	100
Midterms - Written test 2	25+20			
Seminar paper	/			

Note for the Course Unit:

As part of this course unit, the student will have completed a professional training (PT) with a total duration of 120 hours (15 days). The student is required to present a signed record of the completed PT for review.

Syllabus Designer: Zoran Mavija, PhD, Associate Professor

	UNIVERSITY OF BANJA LUKA FACULTY OF MEDICINE		
	UNDERGRADUATE STUDIES		
	Study Programme of:	NURSING	

Course Unit Name	INFECTIOUS DISEASES AND NURSING			
Course Unit Code	Course Unit Status	Semester	Class Workload	Number of ECTS
	compulsory	IV	2 L + 2 CP (60) + 40 PT	5
Members of Staff:	Antonija Verhaz, PhD, Assistant Professor; Tatjana Roganović, MSc , Senior Teaching Assistant; Zvezdana Vuković, Expert Associate; Jelena Macanović, Expert Associate; Sanja Savković, Expert Associate; Biljana Salak, Expert Associate			

Eligibility Requirements:	Form of Requirements
The course units from the previous academic year having been passed.	In accordance with the Rules of Studying at the I Cycle of Academic Studies.
Goals of the Course Unit: The aim of the course is: to introduce students to the causative agents, main symptoms, and basic principles of nursing care and treatment of individual infectious diseases; to master methods of preventing infectious diseases, with an emphasis on blood-borne infectious diseases; to become acquainted with antimicrobial agents and their mechanisms of action; and to be trained to provide first aid to patients by learning the basics of symptomatic and supportive therapy in infectious diseases.	
Learning Outcomes (knowledge gained): The student will be able to: describe the general symptoms of infectious diseases; list exanthematous infectious diseases, modes of transmission, and nursing care of affected patients; explain the epidemiology and pathophysiology of intestinal infectious diseases, and recommend the basic principles of nursing care and prevention of the spread of these infections in the population and healthcare institutions; explain the epidemiology of viral hepatitis, understanding it as a public health problem, and outline the basic diagnostic and therapeutic approach to patients with acute and chronic hepatitis, as well as preventive measures in the population and hospitals, including prescribed protective measures for healthcare workers before and after exposure; distinguish between serous and purulent meningitis, explain the role of healthcare professionals in performing invasive diagnostic procedures such as lumbar puncture, propose basic nursing care for patients with impaired sensorium and convulsions, and describe post-exposure prophylaxis for these infections in healthcare workers and first-degree contacts; explain the epidemiology of HIV infection, understand the diagnosis, clinical course, and nursing care of patients with HIV disease while respecting human rights; understand the problem of hospital-acquired infections and the importance of their prevention; identify risks of blood-borne infections and key preventive measures; describe methods of preventing infectious diseases; list the main groups of chemotherapeutic agents and their mechanisms of action; identify the problem of stigma and discrimination against patients with infectious diseases, especially HIV and hepatitis, and actively contribute to overcoming this ongoing issue.	
Competencies: 1, 2, 3, 4, 5, 6, 7, 8 (see the enclosure Competencies).	
Contents of the Course Unit:	

Infectious diseases, their causative agents and modes of transmission, immunological processes in the affected organism, and nursing care of patients. Basic principles of diagnosis and treatment of infectious diseases. Prevention of infectious diseases, protection of healthcare workers, and risks of blood-borne transmission of infections. Nosocomial (hospital-acquired) infections and their prevention. General infectology. Exanthematous infectious diseases. Respiratory infections. Viral hepatitis. Intestinal infectious diseases. Neuroinfections. HIV disease. Neurointoxications. Hemorrhagic fevers. Extraintestinal parasitoses. Sepsis. Urinary tract infections. Antimicrobial and symptomatic therapy. Prevention of blood-borne infections in healthcare workers.

Teaching Methods:

Classes are performed as lectures, interactive exercises, seminars, midterms, consultation and independent students' work. The practicals will be conducted at the Clinic for Infectious Diseases, during which the student is required to master the relevant procedures (A, B, C, or D competency levels) referred to in the catalogue of clinical skills. The professional training (PT) will take place throughout the academic year at the Clinic for Infectious Diseases.

Literature:

1. Беус, И. и Шкерк, В. (2002). *Инфектологија за стоматологе*. Загреб: Грапхис.
2. *Сестринске процедуре* (2010). Спрингхоусе, Београд: Дата Статус.

Examination forms:

Pre-Exam Duties		Pre-Exam Duties		Pre-Exam Duties
Attendance	4			100
Midterms	40	Practical exam	10	
Seminar paper	6	Oral exam	40	

Note for the Course Unit:

As part of this course unit, the student will have completed a professional training (PT) with a total duration of 40 hours (5 days). The student is required to present a signed record of the completed PT for review.

Syllabus Designer: Antonija Verhaz, PhD, Assistant Professor

	UNIVERSITY OF BANJA LUKA FACULTY OF MEDICINE		
	UNDERGRADUATE STUDIES		
	Study Programme of:	NURSING	

Course Unit Name	HEALTH CARE OF NEUROLOGICAL PATIENTS AND NEUROLOGY			
Course Unit Code	Course Unit Status	Semester	Class Workload	Number of ECTS
	compulsory	IV	1 L + 3 CP (60) + 40 PT	5
Members of Staff:	Vlado Đajić, PhD, Full Professor, Head of Department; Zoran Vujković, PhD, Full Professor; Siniša Miljković, PhD, Associate Professor; Duško Račić, PhD, Associate Professor; Sanja Grgić, Assistant Professor; Verica Dragović, Expert Associate; Jelena Kremenović, Expert Associate			

Eligibility Requirements:	Form of Requirements
The course units from the previous academic year having been passed.	In accordance with the Rules of Studying at the I Cycle of Academic Studies.

Goals of the Course Unit: Acquiring appropriate knowledge and skills in the field of neurology in order to be able to independently, or in collaboration with members of a professional team, apply the acquired knowledge in the prevention of neurological diseases, as well as in the treatment and rehabilitation of persons with neurological disorders, in both outpatient and clinical-hospital healthcare settings. To present the organization, function, and importance of the neurological service: from the emergency neurology unit and specialist consultative clinics to the neurology department. To highlight the place, role, and importance of graduate nurses/medical technicians in improving the efficiency and quality of treatment outcomes. To apply the principles of modern management to the successful prevention and treatment of neurological diseases, conditions, and their consequences.
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Learning Outcomes (knowledge gained): After completing the course, the student will be able to: explain the basic principles of the development and pathogenesis of neurological diseases; recognize the symptoms and signs of neurological disorders; identify emergency conditions in neurology; describe diagnostic procedures used in detecting diseases; describe methods of treating neurological diseases; describe complications of neurological disorders; carry out procedures of specialized health care in neurology; implement preventive measures for the most common neurological diseases that fall within their competencies; and maintain medical documentation in the process of neurological health care;

Competencies: 1, 2, 3, 4, 5, 6 (see the enclosure Competencies).
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Contents of the Course Unit: Health care in cerebrovascular diseases. Health care in neuromuscular diseases. Health care in demyelinating diseases. Health care in epilepsy. Health care in dementias. Health care in degenerative diseases of the central nervous system (CNS).
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Teaching Methods: Classes are performed as lectures, interactive exercises, midterms, consultation and independent students' work. During practical training, the student is required to master the relevant procedures (A, B, C, or D competency levels) referred to in the catalogue of clinical skills. The professional training (PT) will take place throughout the academic year.

Literature:				
1. Костић, В. (2007). <i>Неурологија</i> . Београд: Медицински факултет.				
2. Бабић, Л., Матијевић, М. и Шаренац, Д. (2002). <i>Здравствена њега у неурологији</i> . Београд: Маркетинг пресс.				
Examination forms:				
Pre-Exam Duties		Pre-Exam Duties		Pre-Exam Duties
Attendance	4	Oral exam	50	100
Midterm	36			
Seminar paper	10			
Note for the Course Unit:				
As part of this course unit, the student will have completed a professional training (PT) with a total duration of 40 hours (5 days). The student is required to present a signed record confirming of the completed PT for review.				
Syllabus Designer: Vlado Đajić, PhD, Full Professor				

	UNIVERSITY OF BANJA LUKA FACULTY OF MEDICINE		
	UNDERGRADUATE STUDIES		
	Study Programme of:	NURSING	

Course Unit Name	HEALTH CARE OF SURGICAL PATIENTS AND SURGERY			
	Nursing Care of Surgical Patients; Surgery; Asepsis			
Course Unit Code	Course Unit Status	Semester	Class Workload	Number of ECTS
	compulsory	V	3 L + 5 CP (120) + 100 PT	11
Members of Staff:	Predrag Grubor, PhD, Full Professor; Mirko Raković, PhD, Full Professor; Dragan Kostić, PhD, Full Professor; Darko Lukić, PhD, Full Professor; Duško Vasić, PhD, Full Professor; Nikola Gavrić, PhD, Full Professor; Brano Topić, PhD, Associate Professor; Siniša Maksimović, PhD, Associate Professor; Branko Despot, PhD, Associate Professor; Snježana Milićević, PhD, Associate Professor; Aleksandar Jakovljević, PhD, Associate Professor; Milan Simatović, PhD, Associate Professor; Božo Krivokuća, PhD, Associate Professor; Slavko Grbić, PhD, Associate Professor; Zlatko Maksimović, PhD, Associate Professor; Dušan Janičić, PhD, Assistant Professor; Slavko Manojlović, PhD, Assistant Professor; Vesna Ivanišević, PhD, Assistant Professor; Goran Talić, PhD, Assistant Professor; Stojanka Mirković, Expert Associate; Mirjana Marković, Expert Associate; Ljiljana Lovrić, Expert Associate; Mira Raca, Expert Associate			

Eligibility Requirements:	Form of Requirements
The course units from the previous academic year having been passed.	In accordance with the Rules of Studying at the I Cycle of Academic Studies.
Goals of the Course Unit: Acquisition of up-to-date theoretical knowledge and practical skills in general and specialized surgery necessary for assessing the patient's health condition, identifying health care needs, and the ability to apply the acquired knowledge in professional and scientific research.	
Learning Outcomes (knowledge gained): After completing the course, the student will be able to: apply methods of asepsis and antisepsis; identify a chronic wound and actively participate in the care team; explain the symptomatology, pathology, pathophysiology, diagnosis, and treatment of major surgical diseases; professionally assess the condition of a surgical patient and establish a nursing diagnosis; determine the level and plan of care; and participate as an equal member of the team in diagnosis, treatment, care, and rehabilitation.	
Competencies: 1, 2, 3, 4, 5, 6, 7, 8, 9 (see the enclosure Competencies).	
Contents of the Course Unit: Antisepsis and asepsis. Hemorrhage and hemostasis. Preoperative preparation of patients, staff, and surgical materials. Health care in the fields of plastic and reconstructive surgery, orthopedics, neurosurgery, thoracic, abdominal, and vascular surgery, urology, and pediatric surgery. Endoscopic procedures in surgery.	
Teaching Methods:	

Classes are performed as lectures, interactive exercises, midterms, consultation and independent students' work. The practical sessions will be conducted in various surgical clinics, during which the student is required to master the relevant procedures (A, B, C, or D competency levels) referred to in the catalogue of clinical skills. The professional training (PT) will be conducted throughout the academic year in different surgical departments.

Literature:

1. Грубор, П. (2010). *Хирургија и њега хирушког болесника*. Бања Лука.

Examination forms:

Pre-Exam Duties		Pre-Exam Duties		Pre-Exam Duties
Attendance	5	Oral / written exam	50	100
Midterm	20			
Practical exam	25			

Note for the Course Unit:

As part of this course unit, the student will have completed a professional training (PT) with a duration of 100 hours (12,5 days). The student is required to present a signed record of the completed PT for review.

Syllabus Designer : Predrag Grubor, PhD, Full Professor, and Stojanka Mirković, Expert Associate

	UNIVERSITY OF BANJA LUKA FACULTY OF MEDICINE		
	UNDERGRADUATE STUDIES		
	Study Programme of:	NURSING	

Course Unit Name	HEALTH CARE IN EMERGENCY SITUATIONS			
Course Unit Code	Course Unit Status	Semester	Class Workload	Number of ECTS
	compulsory	IV	1 L + 1 S + 1 CP (45)	3
Members of Staff:	Predrag Grubor, PhD, Full Professor; Mirko Raković, PhD, Full Professor; Dragan Kostić, PhD, Full Professor; Darko Lukić, PhD, Full Professor; Duško Vasić, PhD, Full Professor; Nikola Gavrić, PhD, Full Professor; Brano Topić, PhD, Associate Professor; Siniša Maksimović, PhD, Associate Professor; Branko Despot, PhD, Associate Professor; Snježana Milićević, PhD, Associate Professor; Aleksandar Jakovljević, PhD, Associate Professor; Milan Simatović, PhD, Associate Professor; Božo Krivokuća, PhD, Associate Professor; Slavko Grbić, PhD, Associate Professor; Zlatko Maksimović, PhD, Associate Professor; Dušan Janičić, PhD, Assistant Professor; Slavko Manojlović, PhD, Assistant Professor; Vesna Ivanišević, PhD, Assistant Professor; Goran Talić, PhD, Assistant Professor; Stojanka Mirković, Expert Associate; Mirjana Marković, Expert Associate; Ljiljana Lovrić, Expert Associate; Mira Raca, Expert Associate; Biljana Božić, Expert Associate.			

Eligibility Requirements:	Form of Requirements
The course units from the previous academic year having been passed.	In accordance with the Rules of Studying at the I Cycle of Academic Studies.
Goals of the Course Unit: Acquisition of theoretical knowledge and practical skills necessary for the implementation of health care in emergency or crisis situations and disasters.	
Learning Outcomes (knowledge gained): After completing the course, the student will be qualified to: distinguish between the concepts of a disaster and a mass casualty incident; indicate the most efficient way and appropriate conditions for transporting an injured person; differentiate the concept of triage within a disaster from triage in mass casualty incidents; compile a list of priorities regarding therapeutic assistance to victims; classify the actions that must be implemented in incidents involving nuclear, radiological, chemical, or biological hazards.	
Competencies: 1, 2, 4, 6, 8 (see the enclosure Competencies).	
Contents of the Course Unit: Clinical shock syndrome. Management of various surgical conditions and emergency injuries in emergency/crisis situations. The concept of triage (classification) in disasters and mass casualty incidents. Natural disasters. Toxic bites and stings. Chemical warfare agents. Thermonuclear strike. Severity of injuries and priorities in providing health care in emergency situations.	
Teaching Methods:	

Classes are performed as lectures, interactive exercises, midterms, and independent students' work. The practicals will be conducted in the simulation centre and in selected surgical departments.

Literature:

1. Грубор, П. (2010). *Здравствена њега у ванредним условима*. Бања Лука.

Examination forms:

Pre-Exam Duties		Pre-Exam Duties		Pre-Exam Duties
Attendance	5	Oral / written exam	50	100
Midterm	20			
Practical exam	25			

Note for the Course Unit:

Syllabus Designer: Predrag Grubor, PhD, Full Professor, and Stojanka Mirković, Expert Associate

	UNIVERSITY OF BANJA LUKA FACULTY OF MEDICINE		
	UNDERGRADUATE STUDIES		
	Study Programme of:	NURSING	

Course Unit Name	HEALTH CARE STATISTICS AND INFORMATICS			
Course Unit Code	Course Unit Status	Semester	Class Workload	Number of ECTS
	compulsory	IV	1 L + 2 DRP (45)	3
Members of Staff:	Ljubiša Preradović, PhD, Full Professor			

Eligibility Requirements:	Form of Requirements
No eligibility requirements.	In accordance with the Rules of Studying at the I Cycle of Academic Studies.

Goals of the Course Unit:
The aim of the course is for students to acquire the knowledge and skills necessary for: conducting statistical research and its analysis in health care and medicine, and the everyday use of information and communication technologies.

Learning Outcomes (knowledge gained):
After passing the course unit, the student will acquire knowledge in the field of descriptive statistics and skills in the use of: statistical software tools (SPSS and Excel); independent conducting of research and independent analysis of research data; drawing conclusions and preparing presentations of research results (PowerPoint and Word); and applying information and communication technologies in all areas of health care and medicine. The student will be able to independently design, conduct, collect, analyze, and present data obtained through research using the aforementioned tools.

Competencies:
Acquisition of knowledge of basic statistical and informatics methods and procedures.

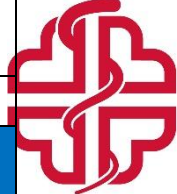
Contents of the Course Unit:
Introduction to basic computer literacy (hardware and software). Fundamentals of computer networks and the Internet. Application of computers in health care and medicine (processing of health care and medical data, medical and health care information systems, medical and health care diagnostics, standards in health care and medical informatics, telemedicine, and e-Health Care). Introduction to general and health care statistics. Methods of data collection. Descriptive statistics. Sampling distributions. Confidence intervals. Nonparametric tests. Correlation analysis. Statistical hypothesis testing.

Teaching Methods:
Classes are performed as lectures, interactive exercises, midterms, consultation and independent students' work.

Literature:
1. Ловрић, М, Комић, Ј, Стевић С. <i>Статистичка анализа – методи и примјена /друго издање/</i> , Народна и универзитетска библиотека Републике Српске, Бања Лука, 2017 2. Прерадовић, Љ, Ђајић, В. <i>Аналитичко-статистичке технике у савременим истраживањима</i> , Архитектонско-грађевински факултет, 2011. 3. Teaching materials from lectures and practicals available on the website.

Examination forms:

Pre-Exam Duties		Pre-Exam Duties		Pre-Exam Duties
Attendance	5	Oral / written exam	50	100
Midterms	40			
Activity	5			
Seminar paper	-			
Note for the Course Unit:				
Syllabus Designer: Ljubiša Preradović, PhD, Full Professor				

	UNIVERSITY OF BANJA LUKA				
	FACULTY OF MEDICINE				
	UNDERGRADUATE STUDIES				
Study Programme of:		NURSING			
Course Unit Name	HEALTH CARE IN THE INTENSIVE CARE UNIT				
Course Unit Code	Course Unit Status	Semester	Class Workload	Number of ECTS	
	elective	IV	1 L + 2 CP (45)	3	
Members of Staff:	Božo Krivokuća, PhD, Associate Professor; Duška Jović, Senior Teaching Assistant; Darija Knežević, Senior Teaching Assistant; Biljana Božić, Expert Associate				
Eligibility Requirements:				Form of Requirements	
				In accordance with the Rules of Studying at the I Cycle of Academic Studies.	
Goals of the Course Unit:					
Introducing the student with the concept of intensive patient care and the role of the nurse in the care of patients in the Intensive Care Unit.					
Learning Outcomes (knowledge gained):					
After completing the course and passing the exam, the student will gain knowledge and skills in the field of monitoring vital functions, mechanical ventilation, and intravenous therapy. Students will be trained to provide care for critically ill patients, as well as to monitor and supervise them.					
Competencies:					
1,3,6 (see the enclosure Competencies).					
Contents of the Course Unit:					
Definition of intensive patient care. The role of the nurse in the Intensive Care Unit. Specifics of patient care in the Intensive Care Unit. Diagnostic and therapeutic procedures in the Intensive Care Unit. Nursing skills and competencies.					
Teaching Methods:					
Classes are performed as theoretical lectures, practicals, consultations, and independent students' work.					
Literature:					
1. Lippincot W. & Wilkins. (2004). <i>Сестринске процедуре</i> . Београд: DATA STATUS, 2010.					
Examination forms:					
Pre-Exam Duties		Pre-Exam Duties		Pre-Exam Duties	
Attendance	5	Practical exam	25	100	
Midterms		Oral / written exam	25		
Seminar papers	45				
Note for the Course Unit:					
Syllabus Designer: Duška Jović, MA, Senior Teaching Assistant; Biljana Božić, Expert Associate					

	UNIVERSITY OF BANJA LUKA		
	FACULTY OF MEDICINE		
	UNDERGRADUATE STUDIES		
Study Programme of:	NURSING		

Course Unit Name	ASSISTANCE WITH ENDOSCOPIC PROCEDURES			
Course Unit Code	Course Unit Status	Semester	Class Workload	Number of ECTS
	elective	IV	1 L + 2 CP (45)	3
Members of Staff:	Zoran Mavija, PhD, Associate Professor; Daniela Dobrovojski, Expert Associate; Stojanka Mirković, Expert Associate			

Eligibility Requirements:		Form of Requirements			
Anatomy and Physiology.		In accordance with the Rules of Studying at the I Cycle of Academic Studies.			
Goals of the Course Unit:					
To familiarize the student with the objectives of diagnostic and therapeutic endoscopy, the principles of using endoscopic equipment, and assisting during the performance of interventions.					
Learning Outcomes (knowledge gained):					
Familiarization with the basic equipment and workflow in the endoscopy suite; assisting during procedures; maintenance of endoscopic equipment, including cleaning and disinfection of endoscopic instruments and prevention of potential infections; completion of the required medical documentation; patient monitoring after the procedure and patient education on post-examination behaviour; microbiological control of endoscopic devices; safeguarding and confidentiality of medical information.					
Competencies:					
1,3,6 (see the enclosure Competencies).					
Contents of the Course Unit:					
Pre-procedural nursing activities in endoscopy suites: (psychological and physical preparation of the patient; pharmacological preparation of the patient; preparation of materials and equipment for the procedure); Procedural activities: assisting during diagnostic procedures (esophagogastroduodenoscopy – EGD, rectoscopy, colonoscopy, ERCP, polypectomy, collection of samples for histopathological (PH) verification); Post-procedural activities: patient care following completion of the endoscopic procedure; handling and preparation of specimens obtained for histopathological analysis; cleaning, disinfection, and sterilization of equipment; medical documentation.					
Teaching Methods:					
Lectures – direct instruction; lectures – clinical practicals in the endoscopy suite; skills acquired in the technique of handling endoscopic equipment.					
Literature:					
1. Клиничка пракса медицинске сетре у општој и абдоминалној хирургији. 2. Lippincot W. & Wilkins. (2004). <i>Сестринске процедуре</i> . Београд: DATA STATUS, 2010.					
Examination forms:					
Pre-Exam Duties		Pre-Exam Duties		Pre-Exam Duties	
Attendance	5	Practical exam	25	100	
Midterms		Written exam	25		
Seminar papers	45				
Note for the Course Unit:					
Syllabus Designer: Daniela Dobrovoljski, Expert Associate, and Stojanka Mirković, Expert Associate					

	UNIVERSITY OF BANJA LUKA FACULTY OF MEDICINE				
	UNDERGRADUATE STUDIES				
	Study Programme of	NURSING			
Course Unit Name	Serbian Language 2				
Type of Course Unit	General Education				
Course Unit Code	Course Unit Status	Semester	Class Workload	Number of ECTS	
	ELECTIVE	IV	1L + 2P	3	
Members of Staff					
Eligibility Requirements				Form of Requirements	
-				-	
Goals of the Course Unit					
This course unit enables students to focus on elementary phrases, and adopt vocabulary with topics for everyday communication. They will be introduced to basic grammatical structures. The classes focus on listening, speaking, reading and writing skills for initial level.					
Learning Outcomes (knowledge acquired):					
Students will be able to understand elementary questions and participate in elementary conversations; focuses on short texts such as messages, notes, instructions and notices.					
Contents of the Course Unit:					
<i>spelling and pronunciation:</i> the basics of pronunciation of all phonemes of standard Serbian; Cyrillic and Latin script; <i>grammar:</i> past tense, genitive and accusative – singular and plural, basic meanings and use; demonstrative pronouns; adjectives, adverbs; <i>vocabulary:</i> books, nature, urban objects; <i>communication:</i> introducing yourself and others; making a phone call; in the supermarket, in the municipality etc.					
Teaching Methods:					
Classes include the following methods: listening and watching audio and video content; reading short texts; practice student speaking skills; independent student work					
Literature:					
4. Nataša Milićević Dobromirov, Biljana Novković Adžajip					
5. Učimo srpski 2, 2011.					
Examination Form:					
Pre-Exam Duties		Final Exam		Total Points	
Attendance	5	Written	50	100	
Midterms (2)	40				
Activity	5				
Note for the Course Unit:					
-					
Syllabus Designer:					

THIRD YEAR

	UNIVERSITY OF BANJA LUKA FACULTY OF MEDICINE		
	UNDERGRADUATE STUDIES		
	Study Programme of:	NURSING	

Course Unit Name	HEALTH CARE OF THE ELDERLY AND GERONTOLOGY (GERIATRICS)			
	Health Care of the Elderly; Gerontology (Geriatrics)			
Course Unit Code	Course Unit Status	Semester	Class Workload	Number of ECTS
	compulsory	V	3 L + 4 CP (105) + 100 PT	10
Members of Staff:	Snježana Popović-Šejičić, PhD, Full Professor; Gordana Vrhovac, Expert Associate; Veselka Gajić, Expert Associate			

Eligibility Requirements:	Form of Requirements
The course units from the previous academic year having been passed.	In accordance with the Rules of Studying at the I Cycle of Academic Studies.
Goals of the Course Unit: Familiarization with the physiology of elderly individuals, and with the most important diseases of old age, as well as mastering specific techniques of nursing care and therapy for elderly patients with respiratory, cardiological, endocrinological, nephrological, gastrointestinal, hematological, rheumatological, neurological, psychiatric, oncological and other disorders. Students will acquire knowledge and skills in providing care for elderly persons, understand the specific characteristics of elderly patients, and become familiar with the possibilities of their care in institutional settings as well as in their own homes.	
Learning Outcomes (knowledge gained): After completing the course and passing the exam, students will be qualified to: recognize the needs of older adults from the perspective of nursing care, with particular emphasis on psychosocial problems, the subjective experience of changes associated with aging or illness, and to define the needs of elderly persons and the level of assistance required; prepare elderly patients for diagnostic and therapeutic procedures; administer medications in elderly patients (including risk factors associated with medication use); organize nursing/health care for elderly persons in hospital settings and ensure continuity of care in post-hospital conditions; organize nursing/health care for patients in the terminal stage of illness; educate family members and other involved persons (volunteers, caregivers) in providing palliative care in home settings; and promote health among older adults.	
Competencies: 1, 2, 3, 4, 5, 6 (see the enclosure Competencies).	
Contents of the Course Unit:	

Age and ageing – a socio-medical approach. Principles of geriatric medicine, biology of ageing, and theories of ageing. Geriatric pulmonology – changes in the respiratory system in elderly persons. Geriatric cardiology – changes in the heart and blood vessels in elderly persons. Specific characteristics of digestive system diseases in old age. Geriatric endocrinology – changes in the endocrine system in the elderly. Geriatric nephrology – changes in the urogenital system in elderly persons. Geriatric hematology – changes in the blood and hematopoietic organs in elderly persons. Geriatric immunology – changes in the immune system in elderly persons. Geriatric rheumatology – changes in the locomotor system in elderly persons. Geriatric neurology – changes in the central nervous system in elderly persons. Geriatric psychiatry. Geriatric surgery. Specific pharmacotherapy in elderly persons. General nursing care and prevention of chronic non-communicable diseases in elderly persons.

Teaching Methods:

Classes are performed as lectures, interactive exercises, seminars, midterms, consultation and independent students' work. During the practical sessions, the student is required to master the relevant procedures (A, B, C, or D competency levels) referred to in the catalogue of clinical skills. The professional training (PT) will take place throughout the academic year in geriatric centres.

Literature:

1. Дураковић, З. (2007). *Геријатрија- медицина старије доби*. Загреб.
2. Поповић-Пејчић, С. (2005). *Хипоталамус-хипофиза-титњача и старење*. Бања Лука: Медицински факултет.
3. Сумрак, Д. (2010). *Опита Геронтологија*. Београд.
4. Матић, Ђ. (2001). *Здравствена нега у интерној медицини*. Београд.
5. Ранковић-Васиљевић, Р. (2000). *Методита и организација здравствене неге*. Београд.
6. Тијанић, М. и сар. (2006). *Здравствена нега и савремено сестринство*. Београд.
7. Јовановић, Д. *Основи Онкологије и палијативна нега онколошких болесника*.

Examination forms:

Pre-Exam Duties		Pre-Exam Duties		Pre-Exam Duties
Attendance	4	Oral / written exam	50	100
Midterm	26			
Seminar paper	20			

Note for the Course Unit:

As part of this course unit, the student will have completed a professional training (PT) with a duration of 100 hours (12,5 days). The student is required to present a signed record of the completed PT for review.

Syllabus Designer: Snježana Popović-Pejičić, PhD, Full Professor

	UNIVERSITY OF BANJA LUKA FACULTY OF MEDICINE		
	UNDERGRADUATE STUDIES		
	Study Programme of:	NURSING	

Course Unit Name	MENTAL HEALTH AND NURSING CARE OF PSYCHIATRIC PATIENTS			
	Nursing Care and Mental Health; Fundamentals of Psychiatry; Care of Aggressive Patients			
Course Unit Code	Course Unit Status	Semester	Class Workload	Number of ECTS
	compulsory	V	2 L + 1 S + 4 CP (105) + 100 PT	10
Members of Staff:	Marija Burgić Radmanović, PhD, Full Professor; Milan Stojaković, PhD, Full Professor; Mira Spremo, PhD, Associate Professor; Milka Trivanović, Expert Associate; Daliborka Petković, Expert Associate; Aleksandra Dejanović, Expert Associate			

Eligibility Requirements:	Form of Requirements
The course units from the previous academic year having been passed.	In accordance with the Rules of Studying at the I Cycle of Academic Studies.

Goals of the Course Unit:

The aim of the course unit is to acquire knowledge for recognizing psychopathology and classifying mental disorders into the main diagnostic groups (organically conditioned mental dysfunctions; mental disorders caused by psychoactive substances; schizophrenia and related disorders; mood disorders; anxiety disorders; stress-related disorders; sleep and eating disorders; personality disorders; pervasive developmental disorders; and disorders related to childhood and adolescence). Furthermore, the aim is for students to acquire knowledge about the specific approach to patients with mental disorders – to define the role of the nurse in working with patients who have mental disorders or psychological difficulties, and to identify possible predictors of mental disorders.

Learning Outcomes (knowledge gained):

The student will be trained to: describe the symptoms of specific mental disorders; identify potential risk factors; select appropriate interventions aimed at meeting basic needs; assess the patient's condition and possible manipulation (simulation/dissimulation); outline therapeutic approaches and methods of treatment for psychiatric patients; list and explain the types of psychopharmaceuticals; identify potential adverse effects of psychopharmacotherapy; use mental status assessment scales; prepare the patient for electroconvulsive therapy; organize work in small groups, large groups, and therapeutic communities; develop a counselling plan for the patient and their family; plan interventions for individuals with addiction; demonstrate protective methods in cases of aggressive behaviour; identify and analyze symptoms and conditions that may indicate suicidal behaviour; select interventions aimed at the rehabilitation and resocialization of patients; and organize the continuation of patient care within the community.

Competencies:

1, 2, 3, 4, 5, 6, 7, 8 (see the enclosure Competencies).

Contents of the Course Unit:

Introduction to Psychiatry: concept of mental health and mental illness, importance of mental health. Principles of organization of psychiatric services. Fundamentals of Psychopathology: disorders of perception, attention, memory, thinking, emotions, intelligence, will, instincts, consciousness, and morality. Psychodynamic model of personality. Personality development and defense mechanisms. Patient attitude toward illness, impact of illness on the patient's family. Basic biological approach in psychiatry: genetics and biochemistry of mental disorders. Schizophrenic psychoses. Mood disorders: specific forms and their treatment. Suicide. Delusional disorders. Anxiety disorders. Psychophysiological disorders. Personality disorders. Organic brain psychiatric disorders. Mental disorders and behavioural disorders caused by alcohol and psychoactive substance abuse. Psychiatric disorders in childhood and adolescence. Sleep disorders and psychopathological reactions to stress. Treatment in psychiatry. Family and psychopathology. At-risk child, domestic violence. Promotion of mental health across different stages of life.

Teaching Methods:

Classes are performed as lectures, seminars, clinical practicals, midterms, consultation and independent students' work. During the practical sessions, the student is required to master the relevant procedures (A, B, C, or D competency levels) referred to in the catalogue of clinical skills. The professional training (PT) will take place throughout the academic year.

Literature:

1. Муњиза, М. (2008). *Нега у психијатрији*. Бања Лука: Апеирон.
2. Јашовић-Гашић, М. и Лечић-Тошевић, Д. *Психијатрија*. Београд: Медицински факултет.
3. Шврака, Е., Авдић, Д. и Хасанбеговић-Анић, Е. *Окупациона терапија*. Универзитет у Сарајеву.

Examination forms:

Pre-Exam Duties		Pre-Exam Duties		Pre-Exam Duties
Attendance	5	Oral / written exam	50	100
Midterms	30			
Seminar paper	15			

Note for the Course Unit:

As part of this course unit, the student will have completed a professional training (PT) with a duration of 100 hours (12,5 days). The student is required to present a signed record of the completed PT for review.

Syllabus Designer: Mira Spremo, PhD, Associate Professor

	UNIVERSITY OF BANJA LUKA FACULTY OF MEDICINE		
	UNDERGRADUATE STUDIES		
	Study Programme of:	NURSING	

Course Unit Name	CLINICAL PHARMACOLOGY			
	Safe Medication Use and Prescription			
Course Unit Code	Course Unit Status	Semester	Class Workload	Number of ECTS
	compulsory	V	1 L + 2 CP (45)	3
Members of Staff:	Svjetlana Stoisavljević-Šatara, PhD, Full Professor, Head of Department; Ranko Škrbić, PhD, Full Professor; Lana Nežić, PhD, Assistant Professor; Nataša Stojaković, PhD, Senior Teaching Assistant			

Eligibility Requirements:	Form of Requirements
The course units from the previous academic year having been passed.	In accordance with the Rules of Studying at the I Cycle of Academic Studies.
Goals of the Course Unit: Acquisition of basic knowledge in the field of modern clinical pharmacology, principles of rational pharmacotherapy, and clinical trials of new drugs. Recognition of expected and adverse effects, as well as significant interactions of specific drug groups.	
Learning Outcomes (knowledge gained): Students will acquire basic knowledge in the field of modern clinical pharmacology and pharmacotherapy, enabling them to monitor expected, unexpected, and adverse drug effects. After completing the course and passing the exam, the student will be able to recognize: adverse drug reactions, drug interactions, and basic principles of dose adjustment in specific patient groups (children, elderly patients, and patients with comorbidities); the influence of certain physiological conditions such as pregnancy and lactation on drug efficacy and potential adverse effects; and the symptoms and signs of allergic reactions and anaphylaxis, as well as their treatment. The student must be able to read prescribed medications from prescriptions or patient charts and understand their modes of administration; be familiar with the latest therapeutic guidelines for the treatment of specific diseases and conditions; and be able to complete an adverse drug reaction reporting form and submit it to the relevant authority. Students will develop an awareness of the role, importance, and responsibility of a qualified nursing professional in therapeutic procedures and in the clinical investigation of new drugs.	
Competencies: 1, 2, 3, 4, 5, 6, 7, 8, 9 (see the enclosure Competencies).	
Contents of the Course Unit: Clinical pharmacology: history and development (globally and locally). Medication management and medical waste management, drug storage, and basic principles of prescribing medications. Biologic therapy – its significance in clinical medicine. Drug discovery and development (good clinical practice, ethical principles). Pharmacoeconomics and pharmacoepidemiology. Adverse drug reactions and drug interactions. Individualization of therapy and drug use in special patient populations. Therapeutic guidelines as the basis of rational drug use – principles of treatment for selected clinical conditions.	
Teaching Methods:	

Classes are performed as lectures, interactive exercises, midterms, consultation and independent students' work. During the practical sessions, the student is required to master the relevant procedures (A, B, C, or D competency levels) referred to in the catalogue of clinical skills.

Literature:

1. Кажић, Т. (2011). *Клиничка фармакологија, Фармакотерапија*. Београд: Интегра.

Examination forms:

Pre-Exam Duties		Pre-Exam Duties		Pre-Exam Duties
Attendance	4	Oral / written exam	50	100
Midterms	46			
Seminar paper				

Note for the Course Unit:

Syllabus Designer: Svjetlana Stoisavljević Šatara, PhD, Full Professor

	UNIVERSITY OF BANJA LUKA FACULTY OF MEDICINE		
	UNDERGRADUATE STUDIES		
	Study Programme of:	NURSING	

Course Unit Name	HEALTH CARE IN THE REHABILITATION PROCESS			
Course Unit Code	Course Unit Status	Semester	Class Workload	Number of ECTS
	compulsory	V	2 L + 3 CP (75)	4
Members of Staff:	Slavica Jandrić, PhD, Full Professor, Head of Department; Gordana Stefanovski, PhD, Associate Professor; Tanja Nožica, PhD, Assistant Professor; Draško Prtina, MSc, Senior Teaching Assistant; Teodora Talić, MSc, Senior Teaching Assistant; Leonida Krminac, Expert Associate			

Eligibility Requirements:	Form of Requirements
The course units from the previous academic year having been passed.	In accordance with the Rules of Studying at the I Cycle of Academic Studies.
Goals of the Course Unit: The aim of the course unit is primarily to provide education in health care within the process of medical rehabilitation and physical medicine (the application of natural and artificial physical agents), enabling students to manage the temporary and permanent consequences of diseases and injuries that they will encounter in their professional practice, as well as to participate in achieving the highest possible level of rehabilitation and social integration of these individuals into the community.	
Learning Outcomes (knowledge gained): The student will develop a modern, humanistic, and ethical approach toward individuals with functional deficits and disabilities, and will acquire the necessary knowledge about the nursing care process in habilitation and rehabilitation. In terms of practical skills, upon completion of the learning process, the student will have mastered and adopted the skills for assessing the degree of patients' functional limitations, as well as the preservation of their physical and psychosocial capacities. Based on the completed learning process, the student will be trained to assess risks and identify changes that may occur as part of secondary complications, and to explain and propose to the patient and the rehabilitation team appropriate procedures and measures within the scope of nursing care aimed at their prevention, with full understanding of the indications and contraindications for the application of specific physical agents. The student will also be qualified to work with patients in promoting independence and self-sufficiency, as well as to develop communication and educational skills and the ability to influence the motivation of ill and injured persons during the rehabilitation process, as well as the motivation of their family members, while fostering mutual respect and appreciation among all members of the rehabilitation team.	
Competencies: 1, 2, 3, 4, 6, 7, 8 (see the enclosure Competencies).	
Contents of the Course Unit:	

Health care in the process of medical habilitation and rehabilitation. The role or tasks of nurses within Physical Medicine (principles, tasks, classification). Electrotherapy: direct currents, alternating currents, low-frequency, medium-frequency, and high-frequency currents. Thermotherapy and hydrotherapy; balneoclimatology; the importance and types of natural therapeutic factors. Ultrasound therapy and its application in medical rehabilitation; phototherapy, biostimulatory laser therapy, and magnetotherapy. Principles and methods of treatment in medical rehabilitation (nursing care in the rehabilitation process, kinesiology, kinesitherapy, orthoses and prostheses, assistive devices, training for self-care activities (SCA) and activities of daily living (ADL), occupational therapy, psychosocial rehabilitation). Testing procedures (measurements and functional assessments) in medical rehabilitation (the role/tasks of nurses). Nursing care in the process of medical rehabilitation of patients with central nervous system damage (hemiplegia, paraplegia, tetraplegia, feeding in spastic conditions, dressing, maintenance of personal hygiene, hemiplegic shoulder). Health care in the process of medical rehabilitation of patients with peripheral nervous system damage. Nursing care in the process of medical rehabilitation of orthopedic-traumatology patients and postoperative conditions. Health care in the process of medical rehabilitation of patients with amputated limbs (stump care, prosthesis maintenance, bandaging). Health care in the process of medical rehabilitation of ill and injured children. Health care in the process of medical rehabilitation of patients with respiratory and cardiovascular diseases. Health care in the process of medical rehabilitation of rheumatology patients. Health care in the process of medical rehabilitation of patients following hip endoprosthesis implantation (corrective positioning, protective positions).

Teaching Methods:

Classes are performed as lectures, interactive exercises, midterms, consultation and independent students' work. During the practical sessions, the student is required to master the relevant procedures (A, B, C, or D competency levels) referred to in the catalogue of clinical skills.

Literature:

1. Јандрић, Ђ.С. (2009). *Основи Физикалне медицине и рехабилитације*. Бања Лука: Медицински факултет.
2. Јандрић, Ђ.С. (2005). *101 питање о коксартрози и вјеештачком куку*. Бања Лука: Медицински факултет.
3. Јандрић, Ђ.С. (2012). *Сколиозе, кифозе и лордозе*. Лакташи: Графомарк.
4. Савић, К. и Миков, А. (2007). *Ре-Хабилитација деце и омладине*. Нови Сад: ОртоМедицс.
5. Јовић, С. (2004). *Неурорехабилитација*. Београд.

Examination forms:

Pre-Exam Duties		Pre-Exam Duties		Pre-Exam Duties
Attendance	4	Oral / written exam	50	100
Midterms	16			
Practical exam	30			

Note for the Course Unit:

Syllabus Designer: Slavica Jandrić, PhD, Full Professor

	UNIVERSITY OF BANJA LUKA FACULTY OF MEDICINE		
	UNDERGRADUATE STUDIES		
	Study Programme of:	NURSING	

Course Unit Name	COMMUNITY MENTAL HEALTH			
Course Unit Code	Course Unit Status	Semester	Class Workload	Number of ECTS
	elective	V	1 L + 2 CP (45)	3
Members of Staff:	Marija Burgić Radmanović, PhD, Full Professor; Milan Stojaković, PhD, Full Professor; Mira Spremo, PhD, Associate Professor			

Eligibility Requirements:	Form of Requirements
The course units from the previous academic year having been passed.	In accordance with the Rules of Studying at the I Cycle of Academic Studies.

Goals of the Course Unit:
The objectives of the study include methods of promoting the community mental health, specifically the development of promotional programmes aimed at strengthening awareness of the importance of mental health, as well as the creation and promotion of anti-stigma programmes. They also include the development and implementation of preventive programmes, such as education (application of knowledge about stress, creation of a supportive work environment, etc.), preventive action from early childhood (kindergartens, lower primary school grades), encouragement of “ecological and spiritual awareness,” and raising public awareness on how to maintain mental health. In cases where a mental disorder occurs, the aim is to ensure its identification within the community, followed by the application of treatment and rehabilitation.

Learning Outcomes (knowledge gained):
The student will be able to describe the methods of implementing the basic principles of treatment of mental disorders in the community.

Competencies:
1, 2, 3, 4, 5, 6, 7, 8 (see the enclosure Competencies).

Contents of the Course Unit:
Introduction and definition of community mental health, teamwork, inclusion of persons with disabilities into the education and employment systems, risk assessment (suicide, eating disorders, self-neglect and vulnerability, substance abuse, aggressiveness), development of risk management plans, coordinated care treatment, psychoeducation for patients and family members, autogenic training, and relaxation techniques.

Teaching Methods:
Classes are performed as lectures, seminars, midterms, consultation and independent students' work.

Literature:
1. Т. Поповић, Б. Лакић, С. Јовановић, Ђ. Хасећић. <i>Координисана брига</i> .

Examination forms:				
Pre-Exam Duties		Pre-Exam Duties		Pre-Exam Duties
Attendance	5	Oral / written exam	50	100
Midterms	30			

Seminar paper	15		
Note for the Course Unit:			
Syllabus Designer: Mira Spremo, PhD, Associate Professor			

	UNIVERSITY OF BANJA LUKA FACULTY OF MEDICINE		
	UNDERGRADUATE STUDIES		
	Study Programme of:	NURSING	

Course Unit Name	SOCIAL INTEGRATION OF PERSONS WITH DISABILITIES			
Course Unit Code	Course Unit Status	Semester	Class Workload	Number of ECTS
	elective	V	1 L + 2 CP (45)	3
Members of Staff:	Slavica Jandrić, PhD, Full Professor, Head of Department; Gordana Stefanovski, PhD, Associate Professor; Tanja Nožica, PhD, Assistant Professor; Draško Prtina, MSc, Senior Teaching Assistant; Teodora Talić, MSc, Senior Teaching Assistant; Leonida Krminac, Expert Associate			

Eligibility Requirements:	Form of Requirements
The course units from the previous academic year having been passed.	In accordance with the Rules of Studying at the I Cycle of Academic Studies.

Goals of the Course Unit:

The aim of the course unit is primarily to familiarize students with the various consequences of diseases and injuries on the physical, mental, emotional, psychological, and cognitive health of persons with disabilities, who experience different functional limitations in self-care activities and activities of daily living, as well as with their possibilities for overcoming barriers during integration or reintegration into the family and wider community. In studying this course unit, the objective is also to learn about the pre-vocational and vocational functioning and training of these individuals in relation to the requirements of their previous or new workplace, in order to enable their maximum possible inclusion in the community.

Learning Outcomes (knowledge gained):

The student will develop a modern, humanistic, and ethical approach toward individuals with functional deficits and disabilities, and will acquire the necessary knowledge about the various consequences of diseases and injuries on the physical, mental, emotional, psychological, and cognitive health of these individuals, who experience different functional limitations. In terms of practical skills, upon completion of the learning process, the student will have mastered and adopted the skills in assessing the degree of patients' functional limitations, as well as the preservation of their physical and psychosocial capacities. The student will be qualified to work with patients toward achieving independence and self-sufficiency, as well as to apply communication and educational skills and the ability to influence the motivation of ill and injured individuals during the process of rehabilitation and social integration, including the involvement of their family members and the wider community.

Competencies:

1, 2, 3, 4, 6, 7, 8 (see the enclosure Competencies).

Contents of the Course Unit:

Introduction to contemporary, humanistic and ethical approaches to persons with functional deficits and disabilities, and acquisition of the necessary knowledge not only regarding the process of nursing care in habilitation and rehabilitation, but also in the field of psychosocial empowerment skills. Mastering and adopting skills for assessing the degree of patients' functional limitations, as well as the preservation of their physical and psychosocial capacities, on the basis of which, together with other members of the rehabilitation team, further rehabilitation and empowerment of these persons can be planned. Based on the degree of functional deficit of a person with disability, as well as the environmental conditions to which the person returns, the student is trained to assess the possibilities for functioning within the community under the new circumstances — within the family, among friends, in the workplace and in the wider social environment. Upon completion of the learning process, the student will be qualified to assess and identify changes that may arise upon returning to the previous environment, and to explain and propose to the patient, family and immediate surroundings procedures and measures for overcoming them, with an understanding of the functional abilities of persons with disabilities and the barriers that must be overcome in order to achieve social integration and reintegration.

Teaching Methods:

Classes are performed as lectures, interactive exercises, midterms, consultation and independent students' work.

Literature:

1. Јандрић, Ђ.С. (2009). *Основи Физикалне медицине и рехабилитације*.
2. Савић, К. и Миков, А. (2007). *Ре-Хабилитација деце и омладине*. Нови Сад: ОртоМедицс.
3. Јевтић Р. М. (1999). *Физикална медицина и рехабилитација*. Крагујевац: Медицински факултет Крагујевац
4. Јовић, С. (2004). *Неурорехабилитација*. Београд.

Examination forms:

Pre-Exam Duties		Pre-Exam Duties		Pre-Exam Duties
Attendance	4	Oral / written exam	50	100
Midterms	16			
Practical exam	30			

Note for the Course Unit:

Syllabus Designer: Slavica Jandrić, PhD, Full Professor

	UNIVERSITY OF BANJA LUKA FACULTY OF MEDICINE			
	UNDERGRADUATE STUDIES			
	Study Programme of	NURSING		
Course Unit Name	Serbian Language - conversation			
Type of Course Unit	General Education			
Course Unit Code	Course Unit Status	Semester	Class Workload	Number of ECTS
	OPTIONAL	V	1L + 2P	3
Members of Staff				
Eligibility Requirements			Form of Requirements	
-			-	
Goals of the Course Unit				
This course unit enables students to focus on basic phrases, and adopt vocabulary with selected topics for communication. They will be introduced to grammatical structures through conversation. The classes focus on communications, listening, speaking, reading and writing skills.				
Learning Outcomes (knowledge acquired):				
Students will be able to participate in conversations. They will learn how to communicate in necessary situations.				
Contents of the Course Unit:				
The working day, Present simple and Past simple; Vocabulary to describe objects and persons; Modal verbs of obligation; Contrast words; Working holidays; Conferences, Comparatives and superlatives; New places, new people; Teamwork, Vocabulary to describe aims and achievements; Quantifiers; Adjectives and adverbs, Comparison; Communication between the patient and the doctor.				
Teaching Methods:				
Classes include the following methods: communication method, listening and watching audio and video content; reading short texts; practice student speaking skills;independent student work				
Literature:				
6. Maja Stojanović: Kod nas se kaže... / We tend to say..., 2021. Pavle Ćosić: Srpski za strance, 2011.				
Examination Form:				
Pre-Exam Duties		Final Exam		Total Points
Attendance	5	Written	20	100
Midterms (2)	40	Oral	30	
Activity	5			
Note for the Course Unit:				
-				
Syllabus Designer:				

	UNIVERSITY OF BANJA LUKA FACULTY OF MEDICINE		
	UNDERGRADUATE STUDIES		
	Study Programme of:	NURSING	

Course Unit Name	HEALTH CARE IN PEDIATRICS AND PEDIATRICS			
	Pediatric Propaedeutics; Newborn Health Care; Child and Adolescent Health Care; Pediatrics			
Course Unit Code	Course Unit Status	Semester	Class Workload	Number of ECTS
	Compulsory	VI	3 L + 5 CP (120) + 120 PT	11
Members of Staff:	Jelica Predojević-Samardžić, PhD, Full Professor; Snježana Petrović-Tepić, PhD, Assistant Professor; Gordana Radujković-Bukara, PhD, Assistant Professor; Dragica Jojić, MSc , Senior Teaching Assistant; Duška Jović, MA, Senior Teaching Assistant; Draženka Vidović, Expert Associate; Snježana Gavranović, Expert Associate; Željka Kostrešević, Expert Associate; Gordana Paspalj, Expert Associate; Jelena Bogičević, Expert Associate; Zorica Pejić, Expert Associate			

Eligibility Requirements:	Form of Requirements
The course units from the previous academic year having been passed.	In accordance with the Rules of Studying at the I Cycle of Academic Studies.
Goals of the Course Unit:	
Acquisition of current theoretical and practical knowledge and skills in the field of health care in pediatrics, with respect for the physical, psychosocial, spiritual and cultural factors that may influence a child's health/illness. Training students to apply the acquired knowledge in clinical practice as well as in scientific research.	
Learning Outcomes (knowledge gained):	
Upon completion of the course, the student will be qualified to: provide health care to healthy and ill children; define and explain emergency conditions in pediatrics and describe health care for critically ill children; understand the role of the nurse in the implementation of preventive and curative health care; recognize the significance and importance of involving parents in the care of children/adolescents; identify and understand differences in the treatment of children across different age groups; identify the most common diseases and the basics of their treatment; professionally assess the patient's condition, establish nursing diagnoses, determine the level and plan of care, develop a nursing care implementation programme, and participate equally as a member of the team for the diagnosis, treatment, nursing care, and rehabilitation of children.	
Competencies:	
1, 2, 3, 4, 5, 6 (see the enclosure Competencies).	
Contents of the Course Unit:	
Health care in neonatology. Management of critically ill newborns in the delivery room. Health care of healthy and ill infants during the first year of life. Health care of children with cardiovascular and respiratory diseases, gastrointestinal disorders, diseases of the urogenital tract, and endocrine disorders. Health care of children with hemato-oncological and neurological diseases. Children with special needs.	
Teaching Methods:	

Classes are performed as lectures, interactive exercises, seminars, midterms, consultation and independent students' work. The practicals will be conducted at the Clinic for Children's Diseases and in the Clinical Skills Laboratory (introductory exercises prior to clinical practice), during which the student is required to master the relevant procedures (A, B, C, or D competency levels) referred to in the catalogue of clinical skills. The professional training (PT) will take place throughout the academic year at the Clinic for Children's Diseases.

Literature:

1. Мардешић, Д. и сур. (2010). *Педијатрија*. Загреб: Школска књига.
2. Бокоњић, Д. и сар. *Здравствена нега у педијатрији*. Фоча: Медицински факултет.
3. Предојевић-Самарџић, Ј., Петровић-Тепић, С. и Г.Букара-Радујковић – *наставни текстови*.

Examination forms:

Pre-Exam Duties		Pre-Exam Duties		Pre-Exam Duties
Attendance	4	Oral / written exam	50	100
Midterm	26			
Seminar paper	20			

Note for the Course Unit:

As part of this course unit, the student will have completed a professional training (PT) with a duration of 120 hours (15 days). The student is required to present a signed record of the completed PT for review.

Syllabus Designer: Jelica Predojević-Samardžić, PhD, Full Professor, and Duška Jović, MA, Senior Teaching Assistant

	UNIVERSITY OF BANJA LUKA FACULTY OF MEDICINE		
	UNDERGRADUATE STUDIES		
	Study Programme of:	NURSING	

Course Unit Name	HEALTH CARE IN GYNECOLOGY AND OBSTETRICS AND GYNECOLOGY AND OBSTETRICS			
Course Unit Code	Course Unit Status	Semester	Class Workload	Number of ECTS
	compulsory	VI	3 L + 4 CP (105) + 100 PT	10
Members of Staff:	Nenad Lučić, PhD, Associate Professor – Head of Department; Vesna Ećim–Zlojutro, PhD, Full Professor; Nebojša Jovanić, PhD, Full Professor; Nenad Babić, PhD, Full Professor; Sanja Sibinčić, PhD, Associate Professor; Branka Čančarevic-Đajić, PhD, Assistant Professor; Dragica Draganović, PhD, Assistant Professor; Vladimir Perendija, MSc , Senior Teaching Assistant; Aleksandra Babić, Expert Associate; Sandra Radetić, Expert Associate; Sandra Oljača, Expert Associate; Branka Kos, Expert Associate			

Eligibility Requirements:	Form of Requirements
The course units from the previous academic year having been passed.	In accordance with the Rules of Studying at the I Cycle of Academic Studies.
Goals of the Course Unit: Acquiring knowledge and skills in the field of gynecology and obstetrics within women's health care. Formation of the professional role of the nurse in gynecology and obstetrics nursing care, demonstrating knowledge of the patient's health condition and illness, making appropriate decisions in providing nursing care, and ensuring patient safety and privacy. Determining priorities in patient nursing care, effective application of treatment methods, as well as collaboration with the medical team and the patient's family.	
Learning Outcomes (knowledge gained): The student will be able to apply knowledge in educational and health-promotional work with patients. They will have appropriate knowledge of biological and human sciences, as well as knowledge of human growth and development. The student will be trained to formulate nursing diagnoses. They will participate in the prevention of gynecological and obstetric diseases, diagnosis, treatment, and care of patients and newborns. The student will be able to ensure the safety and protection of gynecological patients, pregnant women, women in labour, postpartum women, and newborns. They will know how to maintain professional confidentiality and adopt professional behaviour. They will be trained for independent work in all areas of gynecology and obstetrics, as well as for the proper management of medical documentation.	
Contents of the Course Unit:	

Definition and basic concepts of health care in gynecology and obstetrics. Within the theoretical teaching in gynecology and obstetrics, the following topics are covered: Development and developmental abnormalities of the genital organs; The menstrual cycle and its irregularities; The life stages of a woman; inflammatory processes of the vulva, vagina, cervix, endometrium, parametrium, and adnexa of the pelvis; Acute abdomen in gynecology; Diagnostic procedures in gynecology; Benign and malignant diseases of the vulva, vagina, cervix, uterus, and ovaries; Endometriosis; Marital infertility; Family planning; Assisted reproduction; Contraception; Sexually transmitted diseases; Emergency conditions in gynecology and obstetrics; The most common gynecological surgeries—open and laparoscopic; Preoperative preparation of the patient; Postoperative nursing care; Diagnosis and duration of pregnancy; Prenatal diagnostic procedures; embryogenesis, growth and development of the fetus; Fetal anomalies; Normal, atypical, and pathological childbirth; Care of the newborn; Multiple pregnancy; Induction of labour and abortion; Obstetric interventions; Birth canal injuries during delivery; Miscarriage; Puerperium—physiological and pathological; Lactation; Bleeding during pregnancy, childbirth, and the postpartum period; Ectopic pregnancy; Diseases of other organs and systems during pregnancy; Preterm and post-term delivery; Obstetric shock; Cesarean section; The newborn; Forensic obstetrics; Documentation and systems of health care provision and teamwork; Nursing roles and competencies; Professional conduct and professional confidentiality.

Teaching Methods:

Classes are performed as lectures, exercises, midterms, consultation. The practicals will be carried out at the Gynecology and Obstetrics Clinic, where the student will be required to master the procedures listed in the catalogue of clinical skills.

Literature:

1. Ђим-Злојутро В., Лучић Н., Миличевић С., Љ. Вишекруна. *Гинекологија и акушерство са здравственом његом*. Бања Лука 2013.
2. Кулић Љ. *Здравствена њега 1 и 2*. Београд 2011.
3. Шимић Ц., Шимић М., Перић О. *Гинекологија и перинатологија са здравственом његом*: Мостар 2005.
4. Проф. др Ненад Лучић (шеф катедре), Проф. др Весна Ђим-Злојутро, Проф. др Јованић Небојша, Проф. др Ненад Бабић, Проф. др Санја Сибинчић - *Наставни текстови*

Examination forms:

Pre-Exam Duties		Pre-Exam Duties		Pre-Exam Duties
Attendance	4	Oral / written exam	50	100
Midterm(s)	16			
Seminar paper	30			

Note for the Course Unit:

As part of this course unit, the student will have completed a professional training (PT) with a duration of 100 hours (12,5 days). The student is required to present a signed record of the completed PT for review.

Syllabus Designer: Nenad Lučić, PhD, Associate Professor

	UNIVERSITY OF BANJA LUKA FACULTY OF MEDICINE		
	UNDERGRADUATE STUDIES		
	Study Programme of:	NURSING	

Course Unit Name	HEALTH CARE ORGANISATION AND MANAGEMENT			
Course Unit Code	Course Unit Status	Semester	Class Workload	Number of ECTS
	compulsory	VI	1 L + 1 S + 1 CP (45)	3
Members of Staff:	Mirko Stanetić, PhD, Full Professor; Darija Knežević, MA, Senior Teaching Assistant; Savka Štrbac, MSc , Expert Associate; Silvija Gambiroža, Expert Associate			

Eligibility Requirements:	Form of Requirements
The course units from the previous academic year having been passed.	In accordance with the Rules of Studying at the I Cycle of Academic Studies.
Goals of the Course Unit: Acquisition of knowledge about the foundations and principles of organisation and management in systems, with an emphasis on health care as a system for providing services in the field of public health care. Familiarization with the functions of management and the integration of management functions into organisational units. Understanding and comprehension of organisational unit models. Acquisition of knowledge about the concepts of control, monitoring, research, and quality assurance.	
Learning Outcomes (knowledge gained): After completing the course and passing the exam, the student will be able to: define the phases of management and the organization of the nursing service; define modern leadership as well as leadership theories; properly delegate tasks within the nursing service; apply motivational strategies; organize and implement teamwork among nurses/medical technicians and achieve autonomy in nursing practice; become familiar with types of planning in nursing services and personnel policy; assess quality in health care institutions, particularly in nursing care; understand the introduction of quality management systems and the development of procedures for quality assurance.	
Competencies: 1, 2, 5, 7, 8, 9 (see the enclosure Competencies).	
Contents of the Course Unit: Definition of management. Historical development and theories of management. Human resource planning. Orientation and induction of newly employed staff. Staff education and training. Health care management. Quality assurance in health care. Implementation of control, monitoring, and evaluation of the health care quality.	
Teaching Methods: Classes are performed as lectures, preparing of seminar papers, midterms, consultation and independent students' work.	
Literature: 1. Ракић, С. и Антонић, Д. (2015). <i>Основе здравственог менаџмента</i> . Бања Лука: Апеирон. 2. Мићовић, П. (2008). <i>Здравствени менаџмент</i> . Београд: Савремена администрација 3. Миловић, ЈБ. (2004). <i>Организација здравствене његе са менаџментом</i> . Београд: Научна књига.	
Examination forms:	

Pre-Exam Duties		Pre-Exam Duties		Pre-Exam Duties
Attendance	10	Oral / written exam	50	100
Midterm	20			
Seminar paper	20			
Note for the Course Unit:				
Syllabus Designer: Mirko Stanetić, PhD, Full Professor; Darija Knežević, MA, Senior Teaching Assistant; Silvija Gambiroža, Expert Associate.				

	UNIVERSITY OF BANJA LUKA FACULTY OF MEDICINE		
	UNDERGRADUATE STUDIES		
	Study Programme of:	NURSING	

Course Unit Name	NUTRITION AND DIETETICS			
Course Unit Code	Course Unit Status	Semester	Class Workload	Number of ECTS
	compulsory	VI	1 L + 1 S + 1 CP (45)	3
Members of Staff:	Nađa Vasiljević, PhD, Full Professor; Dragana Stojisavljević, PhD, Assistant Professor; Vesna Rudić Grujić, PhD, Assistant Professor; Ljiljana Stanivuk, MSc , Senior Teaching Assistant; Milkica Grabež, MSc , Senior Teaching Assistant			

Eligibility Requirements:	Form of Requirements
	In accordance with the Rules of Studying at the I Cycle of Academic Studies.
Goals of the Course Unit: Students should acquire knowledge about the importance of nutrition for health and the potential role of nutrition in disease prevention, as well as the role and significance of nutritional care in the prevention and treatment of certain diseases. The aim of the course unit is also to enable students to implement, monitor, evaluate, and document all stages of the nutritional care process for patients. Students should also master techniques for conducting health promotion activities within the community aimed at improving nutrition, as well as teamwork techniques.	
Learning Outcomes (knowledge gained): The student acquires knowledge about food and its constituents, as well as the requirements for macro- and micronutrients. The student will be able to assess the nutritional status using various methods depending on the patient's age and condition. The student will be trained to apply the acquired knowledge in implementing the process of nutritional care for patients with a medical nutrition therapy prescribed by a dietotherapist. The student will be qualified to participate in the organisation and distribution of meals in a hospital setting. The student will be trained for teamwork in the process of providing nutritional care. The student will also be qualified to participate in activities aimed at improving nutrition, medical nutritional prevention, health promotion, and disease prevention at the population level.	
Competencies: 6 (see the enclosure Competencies).	
Contents of the Course Unit: Food. Control of critical points in the process of food preparation and distribution in health care institutions. Principles of proper nutrition. Methodology for the assessment of nutritional status. Energy requirements. Macro- and micronutrients. Nutrition of different population groups. Introduction to clinical nutrition with the basics of medical nutritional care. Importance of nutritional care. Implementation of nutritional care in health care institutions. Health and environmental aspects of physical activity. The importance of a multidisciplinary approach and the establishment of multidisciplinary teams in the implementation of the clinical nutrition process. Tools for implementing measures aimed at health promotion, improvement of nutrition, and disease prevention.	
Teaching Methods: Classes are performed as lectures, seminars, midterms, consultation and independent students' work.	

Literature:				
1. Јорга, Ј. (2013). <i>Хигијена</i> . Београд: Медицински факултет.				
2. Васиљевић, Н. (2015). <i>Практикум из хигијене са медицинском екологијом</i> . Београд: Медицински факултет.				
3. Штимац Д, Крзнарић Ж, Вранешић Бендер Д, Обровић Глишић М. <i>Дијетотерапија и клиничка прехрана</i> . Медицинска наклада, Загреб, 2014.				
Examination forms:				
Pre-Exam Duties		Pre-Exam Duties		Pre-Exam Duties
Attendance	10	Oral exam	50	100
Practical	20			
Seminar paper	20			
Note for the Course Unit:				
Syllabus Designer: Dragana Stojisavljević, PhD, Assistant Professor				

	UNIVERSITY OF BANJA LUKA		
	FACULTY OF MEDICINE		
	UNDERGRADUATE STUDIES		
Study Programme of:	NURSING		

Course Unit Name	ADOLESCENT HEALTH			
Course Unit Code	Course Unit Status	Semester	Class Workload	Number of ECTS
	elective	VI	1 L + 1 S + 1 CP (45)	3
Members of Staff:	Jelica Predojević Samardžić, PhD, Full Professor; Snježana Petrović-Tepić, PhD, Assistant Professor; Gordana Radujković-Bukara, PhD, Assistant Professor;			

Eligibility Requirements:				Form of Requirements	
				In accordance with the Rules of Studying at the I Cycle of Academic Studies.	
Goals of the Course Unit:					
To familiarize students with the theoretical foundations of the prevention of behavioural disorders and risk behaviours in children and adolescents.					
Learning Outcomes (knowledge gained):					
Acquisition of basic knowledge in the field of the most common medical problems of adolescence, as well as the fundamentals of preventing risk behaviours during this period of life.					
Competencies:					
6 (see the enclosure Competencies)					
Contents of the Course Unit:					
Early, middle, and late adolescence; Physical and cognitive development; Development of sexuality; Adolescent homosexuality; Epidemiology of adolescent diseases; Specific features of adolescent health care; Behavioural disorders; Poisonings; Prevention of behavioural disorders and risk behaviours.					
Teaching Methods:					
Classes are performed as lectures, interactive exercises, seminars, consultation and independent students' work.					
Literature:					
1. Мардешић Д. <i>Педијатрија</i> . Загреб: 2002.					
Examination forms:					
Pre-Exam Duties		Pre-Exam Duties		Pre-Exam Duties	
Attendance	5	Oral exam	50	100	
Practical					
Seminar paper	45				
Note for the Course Unit:					
Syllabus Designer: Jelica Predojević Samardžić, PhD, Full Professor					

	UNIVERSITY OF BANJA LUKA FACULTY OF MEDICINE		
	UNDERGRADUATE STUDIES		
	Study Programme of:	NURSING	

Course Unit Name	SEXUAL AND REPRODUCTIVE HEALTH			
Course Unit Code	Course Unit Status	Semester	Class Workload	Number of ECTS
	elective	VI	1 L + 2 CP (45)	3
Members of Staff:	Nenad Lučić, PhD, Associate Professor – Head of Department; Vesna Ećim-Zlojutro, PhD, Full Professor; Nebojša Jovanić, PhD, Full Professor; Nenad Babić, PhD, Full Professor; Sanja Sibinčić, PhD, Associate Professor; Branka Čančarevic-Đajić, PhD, Assistant Professor; Dragica Draganović, PhD, Assistant Professor; Vladimir Perendija, MSc, Senior Teaching Assistant; Aleksandra Babić, Expert Associate; Sandra Radetić, Expert Associate; Sandra Oljača, Expert Associate; Branka Kos, Expert Associate			

Eligibility Requirements:	Form of Requirements
	In accordance with the Rules of Studying at the I Cycle of Academic Studies.
Goals of the Course Unit: Acquisition of knowledge and skills in the field of gynecology within women's health care. Formation of the professional role of the nurse in the health care in gynecology, demonstrating knowledge of the patient's health condition and disease, making appropriate decisions in providing health care, and ensuring patient safety and privacy. Determining priorities in patient health care, effective implementation of treatment methods, as well as collaboration with the medical team and the patient's family.	
Learning Outcomes (knowledge gained): The student will be able to apply knowledge in educational and health-educational work with patients. They will have appropriate knowledge of biological and human sciences, as well as knowledge of human growth and development. The student will be trained to formulate nursing diagnoses. They will know how to maintain professional confidentiality and adopt professional behaviour. They will be qualified for independent and high-quality management of medical documentation.	
Competencies: 6 (see the enclosure Competencies)	
Contents of the Course Unit: Definition and basic concepts of health care in gynecology. Within the theoretical teaching in gynecology, the following topics are covered: Sex hormones; Transsexual - sexually transmitted - diseases; Risk behaviours as risk factors (smoking, alcohol, drugs, etc.); Counseling services; Access to information.	
Teaching Methods: Classes are performed as lectures, practicals, midterms, and consultation. The practicals will be conducted at the Gynecology and Obstetrics Clinic.	
Literature: 1. Ећим-Злојутро В., Лучић Н., Миличевић С., Љ. Вишекруна. <i>Гинекологија и акушерство са здравственом његом</i> . Банја Лука 2013.	

Examination forms:				
Pre-Exam Duties		Pre-Exam Duties		Pre-Exam Duties
Attendance	5	Oral exam	50	100
Practical	45			
Seminar paper				
Note for the Course Unit:				
Syllabus Designer: Nenad Lučić, Associate Professor				

FOURTH YEAR

	UNIVERSITY OF BANJA LUKA FACULTY OF MEDICINE		
	UNDERGRADUATE STUDIES		
	Study Programme of:	NURSING	

Course Unit Name	HEALTH CARE IN THE PRIMARY HEALTH PROTECTION, FAMILY AND COMMUNITY			
Course Unit Code	Course Unit Status	Semester	Class Workload	Number of ECTS
	compulsory	VII	3 L + 3 CP (90) + 120 PT	10
Members of Staff:	Gordana Tešanović, PhD, Full Professor, Head of the Department of Family Medicine; Kosana Stanetić, PhD, Assistant Professor; Verica Petrović, PhD, Assistant Professor; Suzana Savić, PhD, Assistant Professor; and expert associates in the field of health (nursing) care			

Eligibility Requirements:	Form of Requirements
The course units from the previous academic year having been passed.	In accordance with the Rules of Studying at the I Cycle of Academic Studies.
Goals of the Course Unit:	
Education of students on the methods of work in family medicine, health promotion and prevention of major non-communicable diseases, communication skills, the nursing process and family assessment, as well as the most common health problems for which patients seek medical check in family medicine.	
Learning Outcomes (knowledge gained):	
The student will be trained to: know the programme for the prevention of major non-communicable diseases and screening for malignant diseases in the Republic of Srpska; demonstrate strong verbal and nonverbal communication skills; understand, apply, and implement the nursing process and family assessment; perform a comprehensive geriatric assessment and be educated about the most common health problems of the elderly population; differentiate between patients with asthma and chronic obstructive pulmonary disease, use a peak flow meter, and educate patients on the use of inhalation devices for medication administration; recognize the most common gastrointestinal problems; educate patients on proper nutrition; recognise the most common pediatric and adolescent health problems; identify patients with mental disorders (anxiety disorders, depression, post-traumatic stress disorder) and apply supportive psychotherapy measures; identify the most important risk factors for cardiovascular diseases, educate patients on risk factor reduction, and provide healthcare services to these patients in cooperation with the attending physician; educate women of reproductive age about the importance of the Pap test in the early detection of cervical cancer; educate women about regular breast self-examination and mammography screening; recognize patients at increased risk of osteoporosis; recognize patients with the most common genitourinary problems; recognize patients at risk of diabetes mellitus, know the target values of glycemia, glycated hemoglobin, and other metabolic parameters; educate patients on insulin administration and proper use of a glucometer; educate patients on measures for the prevention of diabetic foot and possess the knowledge and skills necessary to perform foot examinations using a nylon monofilament and tuning fork for the detection of distal symmetric polyneuropathy; be educated on the administration of pain relief medications; provide services to patients requiring palliative care; recognize patients who abuse alcohol and drugs; recognize victims of domestic violence and provide them with necessary support; and recognize patients with the most common musculoskeletal and neurological problems.	

Competencies:

1, 2, 3, 4, 5, 6, 7, 8, 9 (see the enclosure Competencies).

Contents of the Course Unit:

Introduction to Family Medicine. Health Promotion and Prevention of Major Non-Communicable Diseases. Change Management. Communication Skills. The Nursing Process and Family Assessment. Fundamentals of Nutrition. Pediatric Problems. Adolescent Problems. Health Care of the Elderly Population. Cardiovascular Problems. Pulmonary Problems. Gastrointestinal Problems. Diabetes Mellitus. Genitourinary Problems. Women's Health. Depression. Anxiety Syndrome. Post-Traumatic Stress Disorder. Neurological Problems. Musculoskeletal Problems. Oncology and Palliative Care. Domestic Violence. Alcohol and Drug Abuse.

Teaching Methods:

Classes are performed as lectures, clinical practicals, seminars, midterms, consultation and students' professional training.

Literature:

1. The course script and textbook are currently being prepared.

Examination forms:

Pre-Exam Duties		Pre-Exam Duties		Pre-Exam Duties
Attendance	20	Written exam	50	100
Midterm	15			
Seminar paper	15			

Note for the Course Unit:

As part of this course unit, the student will have completed a professional training (PT) with a duration of 120 hours (15 days). The student is required to present a signed record of the completed PT for review.

Syllabus Designer: Gordana Tešanović, PhD, Full Professor, Head of the Department for Family Medicine

	UNIVERSITY OF BANJA LUKA FACULTY OF MEDICINE		
	UNDERGRADUATE STUDIES		
	Study Programme of:	NURSING	

Course Unit Name	PALLIATIVE CARE			
	End-of-Life Care; Pain Management			
Course Unit Code	Course Unit Status	Semester	Class Workload	Number of ECTS
	compulsory	VII	1 L + 3 CP (60) + 40 PT	5
Members of Staff:	Zdenka Gojković, PhD, Associate Professor; Silvija Gambiroža, Expert Associate			

Eligibility Requirements:	Form of Requirements
The course units from the previous academic year having been passed.	In accordance with the Rules of Studying at the I Cycle of Academic Studies.
Goals of the Course Unit: Introduction to the philosophy and practice of palliative care. Development of the knowledge, skills, and views required for the treatment and care of terminally ill patients. Providing assistance (psychological, social, emotional, and spiritual) to the patient and family members as part of a team with physicians and other non-medical staff.	
Learning Outcomes (knowledge gained): After completing lectures and practicals, the student will be able to: recognize the key concepts and principles of palliative care; identify the most common symptoms, including pain, nausea, confusion, intestinal obstruction, and disorientation; assess the patient's response to implemented interventions; evaluate the need to involve other specialists within the multidisciplinary team; and recognize changes in the patient during the final days of life.	
Competencies: 1, 2, 3, 4, 5, 6 (see the enclosure Competencies).	
Contents of the Course Unit: Palliative and supportive care in oncology. Health care of patients in the terminal stage of illness. A holistic, systemic, and individualised approach to the patient. Identification of the most common symptoms and methods of their care. Pain in oncological patients. Specific aspects related to the use of narcotics.	
Teaching Methods: Classes are performed as lectures, interactive exercises, midterms, consultation and independent students' work. During the practical sessions, the student is required to master the relevant procedures (A, B, C, or D competency levels) referred to in the catalogue of clinical skills. The professional training (PT) will take place throughout the academic year.	
Literature: 1. Шамија, М. (2010). <i>Потпорно и палијативно лијечење онколошких болесника</i> . 2. Предраг, Б. (1997). <i>Онколошки приручник за медицинске сестре-техничаре</i> . 3. Јовановић, Д. (2008). <i>Основи онкологије и палијативна њега онколошких болесника</i> . 4. Јаковљевић, Б. (2015). <i>Основе клиничке онкологије са радиотерапијом</i> .	
Examination forms:	
Pre-Exam Duties	Pre-Exam Duties
Pre-Exam Duties	Pre-Exam Duties

Attendance	4	Oral / written exam	50	100
Midterm	16			
Practical exam	30			
Note for the Course Unit:				
As part of this course unit, the student will have completed a professional training (PT) with a duration of 40 hours (5 days). The student is required to present a signed record of the completed PT for review.				
Syllabus Designer: Silvija Gambiroža, Expert Associate				

	UNIVERSITY OF BANJA LUKA FACULTY OF MEDICINE		
	UNDERGRADUATE STUDIES		
	Study Programme of:	NURSING	

Course Unit Name	HEALTH CARE OF ONCOLOGICAL PATIENTS AND ONCOLOGY			
Course Unit Code	Course Unit Status	Semester	Class Workload	Number of ECTS
	compulsory	VII	2 L + 4 CP (90) + 25 PT	6
Members of Staff:	Zdenka Gojković, PhD, Associate Professor; Silvija Gambiroža, Expert Associate			

Eligibility Requirements:	Form of Requirements
The course units from the previous academic year having been passed.	In accordance with the Rules of Studying at the I Cycle of Academic Studies.

Goals of the Course Unit:

Acquiring knowledge and skills related to the general concepts of malignant diseases. Prevention of malignant diseases. Acquiring knowledge and skills related to the specifics of health care for oncological patients. Providing assistance to patients during various comorbidities and complications that occur during the oncological treatment.

Learning Outcomes (knowledge gained):

After completing lectures and practicals, the student will be able to: define pathophysiological changes in the organism of oncological patients; participate in the planning and performing of diagnostic procedures; participate in the planning and performing of therapeutic procedures; prevent and recognize the main complications of oncological treatment; apply various communication skills with the patient and their family; independently and as part of a team plan, implement, and evaluate nursing interventions; and conduct education and prevention of malignant diseases.

Competencies:

1, 2, 3, 4, 5, 6 (see the enclosure Competencies)

Contents of the Course Unit:

General overview of malignant disease. Early detection of malignant disease. Diagnostic procedures in oncology. Staging of the disease. Therapeutic approaches. Specific characteristics of cancer. Complications in oncology.

Teaching Methods:

Classes are performed as lectures, interactive exercises, seminars, consultation and independent students' work. The professional training (PT) will take place throughout the academic year.

Literature:

1. Матић, Ђ. (2001). *Здравствена нега у интхрој медицини*.
2. Бошковић, С. (2012). *Здравствена нега у онкологији*.
3. Јовановић, Д. (2008). *Основи онкологије и палијативна нега онколошких болесника*.
4. Јаковљевић, Б. *Основе клиничке онкологије са радиотерапијом*.
5. Шапија, М. (2010). *Потпорно и палијативно лијечење онколошких болесника*.

Examination forms:

Pre-Exam Duties		Pre-Exam Duties		Pre-Exam Duties
Attendance and activity	10	Oral / written exam	50	100

Practical exam	20			
Seminar paper	20			
Note for the Course Unit:				
As part of this course unit, the student will have completed a professional training (PT) with a duration of 25 hours (3 days). The student is required to present a signed record of the completed PT for review.				
Syllabus Designer: Zdenka Gojković, PhD, Associate Professor, and Silvija Gambiroža, Expert Associate				

	UNIVERSITY OF BANJA LUKA		
	FACULTY OF MEDICINE		
	UNDERGRADUATE STUDIES		
	Study Programme of:	NURSING	

Course Unit Name	SCIENTIFIC RESEARCH IN HEALTH CARE			
	Evidence-Based Nursing Practice			
Course Unit Code	Course Unit Status	Semester	Class Workload	Number of ECTS
	compulsory	VII	1 L + 1 S +1 P (45)	3
Members of Staff:	Zoran Vujković, PhD, Full Professor; Miloš Stojković, PhD, Full Professor			

Eligibility Requirements:	Form of Requirements
The course units from the previous academic year having been passed.	In accordance with the Rules of Studying at the I Cycle of Academic Studies.

Goals of the Course Unit:

The main objective of the course unit *Scientific Research in Health Care* is the study of scientific methods and methodological procedures in biomedical research in health care, with particular emphasis on evidence-based nursing practice, as well as the development of a certain level of creativity.

Learning Outcomes (knowledge gained):

The student will be trained to identify, formulate, and solve problems in the field of scientific research in health care.

Competencies:

1, 2, 4, 5, 9 (see the enclosure Competencies).

Contents of the Course Unit:

Introduction to and significance of scientific research in health care and evidence-based nursing practice. Scientific methods and methodological procedures in medical sciences. Classification and division of science according to research fields and levels. Basic characteristics of research in medicine and classification of health-related research. Biomedical research and the basic principles of bioethics. General, special, and experimental methodology. Presentation of research results. Formulation of hypotheses and experimental verification of hypotheses. Clinical experiments and phases of the research process. Evaluation research. Research in public health sciences.

Teaching Methods:

Classes are performed as lectures, interactive exercises, midterms, consultation and independent students' work.

Literature:

1. Ристановић, Д. и Дачић, М. (2003). *Основи методологије научноистраживачког рада у медицини*. Београд.
2. Марушић, М. (2008). *Увод у знанствени рад у медицини*. 4.издање: Загреб: Медицинска наклада.
3. Савић, Ј. (2001). *Како написати, објавити и вредновати научно дело у биомедицини*. Београд: Култура.

Examination forms:

Pre-Exam Duties		Pre-Exam Duties		Pre-Exam Duties
Attendance	4	Oral / written exam	50	100
Midterms				
Seminar paper	46			

Note for the Course Unit:

Syllabus Designer: Zoran Vujković, PhD, Full Professor

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	UNDERGRADUATE STUDIES		
	Study Programme of:	NURSING	

Course Unit Name	SOCIOLOGY OF HEALTH, DISEASE, AND MULTICULTURALISM			
Course Unit Code	Course Unit Status	Semester	Class Workload	Number of ECTS
	compulsory	VII	2 L + 1 S (30)	3
Members of Staff:	Živana Gavrić, PhD, Full Professor			

Eligibility Requirements:	Form of Requirements
The course units from the previous academic year having been passed.	In accordance with the Rules of Studying at the I Cycle of Academic Studies.
Goals of the Course Unit: Acquisition of knowledge and skills to ensure professional and safe health care appropriate to the needs of individuals, families, groups, and the community for which the nurse is responsible, taking into account the development of scientific and technical knowledge, as well as quality and safety requirements adopted in accordance with regulations and rules of professional conduct. Training for self-assessment, diagnosis, planning, and provision of integrated health care focused on health care outcomes through assessment of the impact of circumstances, background factors, and the care provided, in accordance with guidelines. Understanding and application of theoretical and methodological foundations and principles, as well as the use of emergency measures based on scientific evidence and available resources. Familiarization with health care measures and the role of health care institutions and health care professionals in their implementation through monitoring the scope and quality of their work. Independent establishment of mechanisms for assessment and processes for continuous quality improvement, taking into account scientific, technical, and ethical development. Familiarization with methods of health assessment of the general population as well as specific population groups (children, adolescents, youth, women, the elderly, and persons with disabilities). Familiarization with and study of population and disease indicators, as well as understanding the social and cultural frameworks influencing the behaviour of individuals and communities and their impact on health. Training for autonomy in acquiring, using, and exchanging information among patients, health care professionals, health care institutions, and the community. Independent coordination of care for groups of patients and interdisciplinary teamwork aimed at providing quality health care and patient safety in accordance with patients' rights.	
Learning Outcomes (knowledge gained):	

To recognize biological, social, psychological, and health risk factors affecting people's health. To understand the need for addressing the psychosocial and religious needs of individuals, patients, and families in order to include them in the treatment process. To assess the physical, psychological, and socio-cultural aspects of individuals, groups, and communities. To identify the requirements and needs for health care of individuals and groups throughout their life cycle. To assess the requirements and needs for health care, including indications for and use of health care resources. To identify and collect evidence regarding health care activities. To maintain proper records and correctly use medical documentation. To evaluate the implementation of health care plans in a way that enables the grouping and processing of data, assessment of the effectiveness of implemented actions, and presentation of data. To be trained in the implementation of health care plans that apply nursing language and international nomenclature. To understand the roles and responsibilities of different members of the social and health care team and recognize the importance of interdisciplinary (multidisciplinary) intervention and teamwork. To recognize the impact of various social factors influencing health and health care. To identify the relationship between biological, cultural, and social aspects in influencing the processes of health and disease. To explain how different sociological theories of health can help health care organizations provide appropriate care in accordance with social, economic, political, and cultural diversity. To recognize how lifestyle, health habits, and the experiences of individuals and groups within the health care system determine and influence disease. To explain the diversity of behaviours and help-seeking patterns when symptoms of illness appear. To communicate clearly, demonstrating respect and democracy, with the health care team, patients, families, and communities, taking into account the multicultural context and in accordance with the international code of ethics for health care professionals. To establish clear goals together with colleagues and the multidisciplinary team in order to achieve common objectives, while accepting necessary changes to reach those goals. To assume responsibilities in the role of a member of the interdisciplinary team. To demonstrate an attitude and orientation toward continuous improvement and commitment to teamwork.

Competencies:

2 (see the enclosure Competencies)

Contents of the Course Unit:

Development, Definition, and Scope of Study of Social Medicine (Public Health); Health and factors influencing health; Health care and measures for health protection; Settings in which health care is provided; The role of health institutions and healthcare professionals in the healthcare system; Measurement of the scope and quality of work of healthcare professionals and healthcare institutions; Quality assessment methodologies; Methodology for studying population health; Demographic and health care indicators – historical concepts and recent developments; Morbidity; Basic skills related to the care of individuals, groups, and families throughout the life cycle in different environments; Health care of children, adolescents, and youth; Women's health care and family planning; Health care of persons with disabilities; Health care of older adults; The sociomedical significance of mental health and major non-communicable diseases (cardiovascular diseases, malignant diseases, etc.); The sociomedical significance of substance use disorders, communicable diseases, and injuries; The importance of the International Classification of Diseases and Causes of Death (ICD) for monitoring morbidity and mortality in the population; Medical records and documentation; International healthcare cooperation; Information flow within the healthcare system; eHealth; Interdisciplinary work; Documents of international organizations and the European Union (EU) concerning quality and standards, as well as patient safety and patients' rights, palliative care; Multicultural care, working with multicultural clients and within multicultural communities; Social marketing; Knowledge transfer; Principles of health care, including individual healthcare and continuity of health care.

Teaching Methods:

Classes are performed as lectures, interactive exercises, midterms, seminars, consultation, and independent students' work, as well as the final exam.

Literature:

1. Јаковљевић Ђ, Грујић В. *Социјална медицина*. Нови Сад, 2005.
 2. European Centre for Disease Prevention and Control. Social media strategy development-A guide to using social media for public health communication. Stockholm: ECDC; 2016
 3. Adapted from WHO Regional Office for Europe (2013). WHO EURO Health Systems Governance Learning Package. Participant Handbook. Copenhagen: WHO Regional Office for Europe.
 4. Reports of the World Health Organisation (WHO) in the field of health at the global and regional levels etc.
- Supplementary Literature:
1. WHO, Health communication, social marketing and advocacy. WHO Geneva, Switzerland, 2011.
European Commission: Public Health, Social trend, Health indicators. http://ec.europa.eu/health/index_en.htm
 2. Гаврић Ж. *Примјена статистике у медицини*. Треће издање, Медицински факултет, Бања Лука, 2013.

Examination forms:

Pre-Exam Duties		Pre-Exam Duties		Pre-Exam Duties
Attendance	10	Written test	20	100
Midterms	10	Oral exam	50	
Seminar paper	10			

Note for the Course Unit:

Syllabus Designer: Živana Gavrić, PhD, Full Professor

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	Study Programme of:	NURSING	

Course Unit Name	COMMUNITY NURSING			
Course Unit Code	Course Unit Status	Semester	Class Workload	Number of ECTS
	elective	VII	1 L + 2 CP (45)	3
Members of Staff:	Gordana Tešanović, PhD, Full Professor, Head of the Department for Family Medicine; Kosana Stanetić, PhD, Assistant Professor; Verica Petrović, PhD, Assistant Professor; Suzana Savić, PhD, Assistant Professor; and expert associates in the field of health/nursing care			

Eligibility Requirements:	Form of Requirements
The course units from the previous academic year having been passed.	In accordance with the Rules of Studying at the I Cycle of Academic Studies.
Goals of the Course Unit: Education of students on the role and methods of work of community nurses, the provision of home nursing care services and patient education in the home setting, health promotion, prevention and early detection of diseases, and reduction of risk factors for their development, skills of effective communication, administration of parenteral therapy and wound care treatment in home conditions, and maintenance of nursing documentation.	
Learning Outcomes (knowledge gained): The student will be trained to know and understand the development of community nursing, to promote health within the family and community, participate in disease prevention, assess and care for patients in home settings, plan and implement nursing care and healthcare for healthcare users in their homes or community according to their physical, mental, and spiritual needs and age, master effective communication skills, make decisions regarding care in health and illness based on available evidence and ethical principles, provide health/nursing care during rehabilitation, implement palliative care, maintain professional relationships with other team members, strive to empower the community, family, and the patient as an individual, accept authority and responsibility for their actions and decisions, and maintain appropriate nursing documentation.	
Competencies: 1, 2, 3, 4, 5, 6, 7, 8, 9 (see the enclosure Competencies).	
Contents of the Course Unit: Reform of the healthcare system in the Republic of Srpska. Prevention and control of non-communicable diseases. Definition of nursing, and the development and role of community nursing. Nursing assessment of the patient and family. Preventive care provided by the community nurse. Curative care provided by the community nurse. Communication skills of the community nurse. Palliative care. Wound treatment and assessment in home settings. Educational programmes conducted by the community nurse. Maintenance of nursing documentation. Ethical aspects of community nursing care. Occupational safety measures in the work of the community nurse.	
Teaching Methods: Classes are performed as lectures, clinical practicals, seminars, midterms, and consultation.	
Literature:	

Study material				
Examination forms:				
Pre-Exam Duties		Pre-Exam Duties		Pre-Exam Duties
Attendance	20	Written test	50	100
Midterm	15			
Seminar paper	15			
Note for the Course Unit:				
As part of this course unit, the student will be required to attend lectures and complete clinical practicals.				
Syllabus Designer: Gordana Tešanović, PhD, Full Professor, Head of the Department for Family Medicine				

	UNIVERSITY OF BANJA LUKA FACULTY OF MEDICINE		
	UNDERGRADUATE STUDIES		
	Study Programme of:	NURSING	

Course Unit Name	A SELECTION OF TOPICS IN HEALTH CARE IN DERMATOVENOROLOGY			
Course Unit Code	Course Unit Status	Semester	Class Workload	Number of ECTS
	elective	VII	1 L + 2 CP (45)	3
Members of Staff:	Bogdan Zrnić, PhD, Full Professor, Head of Department			

Eligibility Requirements:	Form of Requirements
The course units from the previous academic year having been passed.	In accordance with the Rules of Studying at the I Cycle of Academic Studies.
Goals of the Course Unit: Familiarization with the most common dermatovenerological pathologies, the basic principles of nursing care for dermatovenerological patients, and diagnostic and therapeutic procedures in hospitalized patients, as well as in the care of outpatient patients.	
Learning Outcomes (knowledge gained): The student will be able to: identify skin changes associated with the most common dermatological diseases; assess the severity of the disease, determine triage and the level of urgency, as well as the appropriate care of dermatological patients; master the principles of palliative care for chronically ill patients; explain to patients the necessary preparation for diagnostic procedures; and master diagnostic procedures used in the most common dermatological diseases, including mycological diagnostics, allergy testing, dermoscopy of skin tumors, biopsy of skin lesions, as well as diagnostics related to sexually transmitted diseases.	
Competencies: 1, 2, 3, 4, 5, 6 (see the enclosure Competencies).	
Contents of the Course Unit: Structure of the skin and skin appendages. Cutaneous pathological changes (efflorescences). Skin function. Basic principles in establishing the diagnosis of skin diseases. The most common diagnostic methods in dermatovenerology. Therapy in dermatovenerology. Diseases caused by microorganisms (viral, fungal, and bacterial infections), parasitic diseases, exanthems, allergic diseases, dermatitis (dyshidrotic eczema, nummular eczema, irritant contact dermatitis, infectious eczema, atopic dermatitis). Collagen-vascular diseases. Autoimmune bullous dermatoses. Purpura and vasculitis. Pruritus and prurigo. Erythroderma. Papulosquamous diseases. Diseases of skin appendages (hair, nails, and glands). Neurocutaneous diseases. Circulatory diseases of the skin. Cutaneous tuberculosis. Nodular dermatoses. Lyme borreliosis. Skin tumors, nevi, precancerous skin conditions. Cutaneous manifestations of multisystem diseases. Sexually transmitted diseases. Pediatric and geriatric dermatology. Dermatovenerological diseases in pregnancy.	
Teaching Methods: Classes are performed as lectures, interactive exercises, midterms, consultation, and independent students' work.	
Literature: 1. Зрнић, Б. и сар. (2012). <i>Дерматовенерологија</i> . Бања Лука: Медицински факултет.	

Examination forms:				
Pre-Exam Duties		Pre-Exam Duties		Pre-Exam Duties
Attendance	4	Oral / written test	50	100
Midterms	46			
Seminar paper				
Note for the Course Unit:				
Syllabus Designer: Bogdan Zrnić, PhD, Full Professor				

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	UNDERGRADUATE STUDIES		
	Study Programme of:	NURSING	

Course Unit Name	PEDAGOGY AND MENTORING PROCESSES IN HEALTH CARE			
Course Unit Code	Course Unit Status	Semester	Class Workload	Number of ECTS
	compulsory	VIII	1 L + 1 P + 1 S (45)	3
Members of Staff:	Brane Mikanović, PhD, Associate Professor; Kristijan Popović, MA, Senior Teaching Assistant			

Eligibility Requirements:	Form of Requirements
The course units from the previous academic year having been passed.	In accordance with the Rules of Studying at the I Cycle of Academic Studies.
Goals of the Course Unit:	
Familiarizing students with the fundamental issues of modern pedagogy and didactics, and training students to design and implement the educational process.	
Learning Outcomes (knowledge gained):	
Students will be able to: recognize categorical pedagogical concepts; apply contemporary pedagogical terminology; understand and interpret the subject of pedagogy; recognize the specific features of education; define the aim and concretise the objectives and outcomes of education; identify the contents of basic educational areas and the contents for implementing educational activities; analyze the role of key factors in the educational process; apply knowledge of educational work; explain fundamental concepts of didactics; independently design the teaching/learning process; explain learning strategies and types of learning; identify teacher competencies; understand the value of intercultural education; and explain the social aspects of education and education in leisure time.	
Competencies:	
2, 4, 5, 9 (see the enclosure Competencies).	
Contents of the Course Unit:	
Scientific definition of pedagogy. Concepts in pedagogy (upbringing/education, formal education, teaching, training). The relationship between pedagogy and other sciences. Education as a specific process and activity, potentials and limitations of education. Aim and objectives of education. Basic areas of education. Areas of implementation of education (environmental, sexual, and health education). Key factors of education. Educational work. Didactics – theory of teaching. Dynamics of the teaching process (planning, implementation, evaluation). Independent and interactive learning. Competencies of the modern teacher. Intercultural education. Topic of students' choice: Social aspects of education and their scientific foundation / Education in leisure time.	
Teaching Methods:	
Teaching is conducted in the form of interactive and multimedia-supported lectures, individualized and interactive student exercises, open discussions, presentations of seminar papers, and critical review of the assigned literature, midterms, consultation, and independent students' work.	

Literature:

1. Микановић, Б. и Јевтић, Б. (2015). *ПЕДАГОГИЈА – основна знања о васпитању*. Лакташи: Графомарк.
2. Микановић, Б. (2016). *Научни развој педагогије и подручја васпитања*. Лакташи: Графомарк.
3. Бранковић, Д., Илић, М. (2010). *Увод у педагогију и дидактику*. Бања Лука: Цомесграфика.
4. Трнавац, Н. и Ђорђевић, Ј. (1998). *Педагогија*. Београд: Научна књига.

Examination forms:

Pre-Exam Duties		Pre-Exam Duties		Pre-Exam Duties
Attendance	4	Oral / written test	50	100
Midterm(s)	30			
Seminar paper	16			

Note for the Course Unit:

Syllabus Designer: Brane Mikanović, PhD, Associate Professor

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	UNDERGRADUATE STUDIES		
	Study Programme of:	NURSING	

Course Unit Name	HEALTH PROMOTION			
	Vulnerable Groups; Health Education; Social Medicine			
Course Unit Code	Course Unit Status	Semester	Class Workload	Number of ECTS
	compulsory	VIII	2 L + 2 CP (60)	3
Members of Staff:	Gordana Tešanović, PhD, Full Professor, Head of the Department for Family Medicine; Kosana Stanetić, PhD, Assistant Professor; Verica Petrović, PhD, Assistant Professor; Suzana Savić, PhD, Assistant Professor; Social Medicine: Živana Gavrić, PhD, Full Professor; and expert associates in the field of health/nursing care			

Eligibility Requirements:	Form of Requirements
The course units from the previous academic year having been passed.	In accordance with the Rules of Studying at the I Cycle of Academic Studies.
Goals of the Course Unit: Training students in the implementation of health promotion and disease prevention measures in primary health care/family medicine, with the aim of improving health and preventing illnesses. The implementation of these measures will include citizens of all age groups and will take place in healthcare institutions as well as in the community—such as kindergartens, schools, workplaces, local communities etc. Training in maintaining medical documentation in nursing practice.	
Learning Outcomes (knowledge gained): Students will be trained to educate citizens on increasing control over their own health, promoting health, and implementing disease prevention measures; to carry out health education activities and supervise nurses/technicians and other staff within the health care team; to assess the smoking status, the degree of nicotine dependence, as well as smoking cessation methods; to identify the individuals dependent on alcohol and psychoactive substances, to approach these patients appropriately, and to educate vulnerable groups on the prevention of alcohol and drug abuse; to educate the vulnerable groups (adolescents) about sexually transmitted diseases; to understand the principles of proper nutrition and recommend appropriate dietary regimens to healthcare users; to emphasise the importance of regular physical activity and its impact on health; to recognize obesity as a risk factor for major non-communicable diseases and propose non-pharmacological treatment measures; to identify individuals under stress and train them in stress reduction methods; to understand and analyze the key risk factors as well as principles of health promotion for the prevention of cardiovascular diseases, malignancies, chronic obstructive pulmonary disease, and diabetes; to understand the specific characteristics of the geriatric population and methods of health promotion for this population group. Students will also be trained in the proper methods and importance of maintaining medical documentation.	
Competencies: 1, 2, 3, 4, 5, 6, 7, 8, 9 (see the enclosure Competencies).	

Contents of the Course Unit:

Principles and concepts of health promotion. Health care oriented toward disease prevention and health maintenance. Health education. Campaign-based preventive activities aimed at health promotion. Obesity prevention. Health promotion measures for the prevention of cardiovascular diseases. Health promotion measures for the prevention of chronic obstructive pulmonary diseases (COPD). Health promotion measures for the prevention of diabetes mellitus. Health promotion measures for the prevention of malignant diseases. Prevention of addictive disorders. Prevention of sexually transmitted diseases. Principles of proper nutrition and regular physical activity. Stress and relaxation techniques. Specific features of health promotion in the geriatric population. Medical documentation management in nursing practice.

Teaching Methods:

Classes are performed as lectures, clinical practicals, seminars, midterms, and consultation.

Literature:

Study material

Examination forms:

Pre-Exam Duties		Pre-Exam Duties		Pre-Exam Duties
Attendance	20	Written test	50	100
Midterm	15			
Seminar paper	15			

Note for the Course Unit:

As part of this course unit, students will be required to attend lectures and complete clinical practicals.

Syllabus Designer: Gordana Tešanović, PhD, Full Professor, Head of the Department for Family Medicine

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Study Programme of:	NURSING		

Course Unit Name	PSYCHOLOGY			
Course Unit Code	Course Unit Status	Semester	Class Workload	Number of ECTS
	compulsory	VIII	2 L + 0 P + 1 S (45)	3
Members of Staff:	Nada Vaselić, PhD, Associate Professor; Tatjana Marković-Basara, MSc, Senior Teaching Assistant			

Eligibility Requirements:	Form of Requirements
The course units from the previous academic year having been passed.	In accordance with the Rules of Studying at the I Cycle of Academic Studies.
Goals of the Course Unit: Providing higher-quality and more comprehensive care to the patient and their family, while taking psychological factors into account both in the etiology of disease and in the processes of diagnosis, treatment, rehabilitation, and prevention.	
Learning Outcomes (knowledge gained): The student will be able to describe and understand the importance of recognizing psychological reactions such as stress, resistance to therapy and treatment, as well as certain physiological reactions associated with psychogenic factors. Furthermore, the student will learn to describe, understand, and analyze the needs of chronically ill patients, as well as the key concepts and principles of palliative care, and to recognize and understand risk and protective factors related to treatment adherence and the introduction of appropriate lifestyle changes.	
Competencies: 1, 2, 4, 6, 7 (see the enclosure Competencies).	
Contents of the Course Unit: Historical perspectives on the relationship between mind and body. Definition of psychology and basic psychological concepts. Theoretical and applied branches of psychology. Introduction to health psychology. Medical and biopsychosocial models of disease and health. Behaviour, health, and primary prevention. Reactions to symptoms, illness, and seeking professional help. Communicating the diagnosis. Stress and physiological responses to stress. Styles and strategies of coping with stress. Relationship and communication between healthcare professionals and patients. Psychological reactions to hospitalization. Chronic diseases and chronic conditions. Psychological aspects of terminal conditions. Family, health, and illness.	
Teaching Methods: Classes are performed in the form of lectures, preparation of seminar papers, midterms, consultation, and independent students' work. During the lectures and seminar presentations, interactive teaching methods will be used, including case presentations of specific diseases and practical training in particular skills.	
Literature:	

1. Бергер, Д. (2002). *Здравствена психологија*. Београд: Друштво психолога Србије, Центар за примењену психологију.
2. Летић, Н. (2012). *Психопатологија дјеце и адолесцената*. Бања Лука: Филозофски факултет
3. Васелић, Н. (2015). *Психолошки приступи дјеци и адолесцентима са дијабетесом*. Бања Лука: Филозофски факултет.

Examination forms:

Pre-Exam Duties		Pre-Exam Duties		Pre-Exam Duties
Attendance	4	Oral / written test	50	100
Midterm	30			
Seminar paper	16			

Note for the Course Unit:

Syllabus Designer: Nada Vaselić, PhD, Associate Professor

	UNIVERSITY OF BANJA LUKA		
	FACULTY OF MEDICINE		
	UNDERGRADUATE STUDIES		
	Study Programme of:	NURSING	

Course Unit Name	SOCIAL AND HEALTH LEGISLATION			
	Legal Aspects of Health Care			
Course Unit Code	Course Unit Status	Semester	Class Workload	Number of ECTS
	compulsory	VIII	2 L + 1 S (45)	3
Members of Staff:	Slađana Mirjanić, PhD, Full Professor			

Eligibility Requirements:		Form of Requirements			
The course units from the previous academic year having been passed.		In accordance with the Rules of Studying at the I Cycle of Academic Studies.			
Goals of the Course Unit:					
The primary objective of the course unit <i>Social and Health Legislation</i> is the study of laws and by-laws through which legal norms regulate the rights and obligations of users of social and healthcare services, as well as the development of a certain level of creativity.					
Learning Outcomes (knowledge gained):					
The student will be trained to identify, formulate, and solve problems in the field of social and health legislation, with special reference to the legal aspects of health care.					
Competencies:					
1, 6, 8 (see the enclosure Competencies)					
Contents of the Course Unit:					
Introduction and importance of social and health legislation in health care. Health and social care, health and social insurance, protection of the population from infectious diseases, production and distribution of medicines and poisons, legal aspects of radiation in medicine, medical law for healthcare professionals, bodies of the Republic of Srpska administration in the field of health, health inspection supervision, and European Union healthcare legislation.					
Teaching Methods:					
Classes are performed in the form of lectures, interactive exercises, midterms, preparation of seminar papers, consultation, and independent students' work.					
Literature:					
1. Мирјанић, С. (2014). <i>Здравствено законодавство</i> . Бања Лука. 2. Бабић, Е. (2008). <i>Здравствено законодавство</i> . Београд. 3. Дедић, С. (2010). <i>Социјално право</i> . Сарајево.					
Examination forms:					
Pre-Exam Duties		Pre-Exam Duties		Pre-Exam Duties	
Attendance	4	Oral / written test	50	100	
Midterms	26				
Seminar paper	20				
Syllabus Designer: Slađana Mirjanić, PhD, Full Professor					

	UNIVERSITY OF BANJA LUKA FACULTY OF MEDICINE		
	UNDERGRADUATE STUDIES		
	Study Programme of:	NURSING	

Course Unit Name	FUNDAMENTALS OF RADIOLOGY			
Course Unit Code	Course Unit Status	Semester	Class Workload	Number of ECTS
	compulsory	VIII	2 L + 2 CP (60)	3
Members of Staff:	Saša Vujnović, PhD, Assistant Professor			

Eligibility Requirements:	Form of Requirements
The course units from the previous academic year having been passed.	In accordance with the Rules of Studying at the I Cycle of Academic Studies.
Goals of the Course Unit: Acquisition of the current theoretical and practical knowledge and skills in the field of health care in radiology. Training to apply the acquired knowledge in clinical practice as well as in scientific research.	
Learning Outcomes (knowledge gained): After completing the course, the student will be trained to: provide health care in the field of interventional and diagnostic radiology; define and explain different radiological techniques and their appropriate use; understand the role of the nurse in performing diagnostic and interventional radiological procedures; understand the importance of safety measures in performing various radiological procedures; identify and understand the advantages and disadvantages of different radiological techniques; identify the most common diseases and basic radiological examination algorithms; professionally assess the patient's condition and participate as an equal member of the radiological diagnostics and interventional team.	
Competencies: 1, 2, 6, 9 (see the enclosure Competencies).	
Contents of the Course Unit: Health care in diagnostic and interventional radiology. Radiation and radiation protection. Basic radiological examination techniques. Clinical radiology of the thorax, abdomen, urinary tract, musculoskeletal system, central nervous system, and breast. Non-vascular interventional radiology. Vascular interventional radiology.	
Teaching Methods: Theoretical instruction and practicals with active students' participation, seminars, consultations and independent students' work. The practicals will be conducted at the Department of Clinical Radiology of the University Clinical Centre of the Republic of Srpska.	
Literature: 1. Лукач, И., Шушчевић, Д. и сар. (2000). <i>Радиологија уџбеник за студенте медицине и стоматологије</i> . Нови Сад: Stylos. 2. Бошњаковић, П. и сар. (2009). <i>Практикум клиничке радиологије за студенте медицине</i> . Београд: Дата статус.	
Examination forms:	
Pre-Exam Duties	Pre-Exam Duties
Pre-Exam Duties	Pre-Exam Duties

Attendance	4	Oral / written test	50	100
Midterm(s)	26			
Seminar paper	20			
Note for the Course Unit:				
Syllabus Designer: Saša Vujnović, PhD, Assistant Professor				

	UNIVERSITY OF BANJA LUKA FACULTY OF MEDICINE		
	UNDERGRADUATE STUDIES		
	Study Programme of:	NURSING	

Course Unit Name	A SELECTION OF TOPICS IN HEALTH CARE IN OPHTHALMOLOGY			
Course Unit Code	Course Unit Status	Semester	Class Workload	Number of ECTS
	elective	VIII	1 L + 2 CP (45)	3
Members of Staff:	Milka Mavija, PhD, Associate Professor; Duška Mirnić, Expert Associate			

Eligibility Requirements:	Form of Requirements
The course units from the previous academic year having been passed.	In accordance with the Rules of Studying at the I Cycle of Academic Studies.
Goals of the Course Unit: Acquiring knowledge of the fundamentals of health care in ophthalmology by familiarizing with the basic clinical manifestations of diseases of the eye and ocular adnexa. Acquiring knowledge of basic diagnostic and therapeutic procedures in ophthalmology. Acquiring skills in recognizing ophthalmic emergencies and understanding the specifics of health care in urgent/emergency ophthalmological conditions and diseases. Acquiring knowledge of blindness prevention and the promotion of eye health.	
Learning Outcomes (knowledge gained): After successfully completing the learning process, the student will be able to: provide specific ophthalmic health care during the treatment of ophthalmic patients, as well as in the preoperative and postoperative period; organize the work in an eye department or ophthalmology outpatient clinic; maintain medical protocols and other medical documentation; recognize and describe the most common eye diseases and disorders; describe and explain the most common diagnostic procedures in ophthalmology; prepare patients and participate in the performance of diagnostic procedures and therapeutic interventions in ophthalmology; apply the acquired knowledge in the prevention of eye diseases and blindness within their professional competencies.	
Competencies: 1, 2, 3, 4, 6, 7, 8 (see the enclosure Competencies).	
Contents of the Course Unit: Introduction to ophthalmology. Orbital diseases and inflammations. Eyelid diseases, inflammations, and tumors. Lacrimal (tear drainage) system disorders. Conjunctivitis. Keratitis. Scleritis. Endophthalmitis. Uveitis. Iridocyclitis. Choroiditis. Cataract. Glaucoma. Retinal diseases. Neuro-ophthalmic diseases. Strabismus. Amblyopia. Refractive errors of the eye. Mechanical, chemical, and physical eye injuries. Ophthalmic emergencies.	
Teaching Methods: Classes are performed as lectures, interactive exercises (work in small groups), midterms, consultation, and independent students' work.	
Literature: 1. Литричин, О., Благојевић, М. и Цветковић, Д. (2004). <i>Офталмологија</i> . Београд: Елит Медицина-Медицинска књига. 2. <i>Офталмологија за сестринство</i> ; textbook in preparation by the Department of Ophthalmology, Faculty of Medicine, University of Banja Luka.	

Examination forms:				
Pre-Exam Duties		Pre-Exam Duties		Pre-Exam Duties
Attendance	10	Oral / written test	50	100
Midterm	25			
Activity in the practicals	15			
Note for the Course Unit:				
The practicals are conducted at the Clinic for Eye Diseases, University Clinical Centre in Banja Luka				
Syllabus Designer: Milka Mavija, PhD, Associate Professor				

	UNIVERSITY OF BANJA LUKA FACULTY OF MEDICINE				
	UNDERGRADUATE STUDIES				
	Study Programme of:	NURSING			
Course Unit Name	A SELECTION OF TOPICS IN HEALTH CARE IN OTORHINOLARYNGOLOGY				
Course Unit Code	Course Unit Status	Semester	Class Workload	Number of ECTS	
	elective	VIII	1 L + 2 CP (45)	3	
Members of Staff:	Slobodan Spremo, PhD, Full Professor; Sanja Špirić, PhD, Associate Professor; DMITAR Travar, PhD, Assistant Professor; Predrag Špirić, PhD, Assistant Professor; Spomenka Hotilovac, Expert Associate				
Eligibility Requirements:				Form of Requirements	
The course units from the previous academic year having been passed.				In accordance with the Rules of Studying at the I Cycle of Academic Studies.	
Goals of the Course Unit:					
Familiarization of students with the basics of pathology, diagnostics, therapeutic procedures, and planning of health care in otorhinolaryngology.					
Learning Outcomes (knowledge gained):					
After completing the learning process and passing both the practical and theoretical components, students will be able to identify pathological conditions and assess emergency situations in otorhinolaryngology, with the aim of establishing nursing diagnoses, performing therapeutic and diagnostic procedures, and developing health care plans. The student will be able to explain all diagnostic procedures in otorhinolaryngology and educate patients. The student will be capable of independently providing care and monitoring postoperative patients, recognizing the onset of complications, and proposing necessary measures for their prevention.					
Competencies:					
1, 2, 3, 4, 6, 7, 8 (see the enclosure Competencies).					
Contents of the Course Unit:					
Otology with audiology. Rhinology with diagnostics. Laryngology. Emergency conditions in otorhinolaryngology.					
Teaching Methods:					
Classes are performed as lectures, interactive exercises, midterms, consultations, and independent students' work.					
Literature:					
1. <i>Оториноларингологија</i> . Бања Лука: Медицински факултет. 2. <i>Practical handbook for clinical exercises in otorhinolaryngology</i> .					
Examination forms:					
Pre-Exam Duties		Pre-Exam Duties		Pre-Exam Duties	
Attendance	4	Oral / written test	50	100	
Midterm(s)	46				
Seminar paper					
Note for the Course Unit:					
Syllabus Designer: Slobodan Spremo, PhD, Full Professor					