

**COLLEGE OF PROFESSIONAL STUDIES - INTERNATIONAL CENTER OF  
PROFESSIONAL STUDIES**  
(hereinafter: **ICEPS**)

Study program:

Undergraduate professional studies  
**NURSING**

**~ COURSE BOOK ~**

**Courses by semesters and years of study program Nursing, undergraduate professional studies**

- **Marks for Form of Teaching:** **theor lect** = theoretical lectures; **exer** = theoretical exercises; **other** = other forms of teaching (individual work with students, project work...); **st-res pap** = study-research paper (Degree Paper...); **prof pract** = professional (clinical) practice (in the School's Teaching Bases)

- **Marks for Mandatory/Elective courses:** **m** = mandatory course; **e** = elective course

- **Marks for Type of Courses:** **ag** = academic-general education; **p** = professional; **pa** = professional-applicative

No	Course Code	Course Name	Sem.	Active Lessons				prof pract	ECTS	Course m/e	Course Type
				theor lect	theor exer	other forms	st-res pap				
<b>THE FIRST YEAR</b>											
1	zn-eng-01	<a href="#">Anatomy and Physiology</a>	1	45	15	0	0	0	7	m	p
2	zn-eng-02	<a href="#">Basics of Nursing</a>	1	30	15	0	0	300	8	m	p
3	zn-eng-03	<a href="#">Ethics in Health Care</a>	1	30	30	0	0	0	5	m	ag
4	zn-eng-04	<a href="#">Geriatrics with Nursing in Geriatrics</a>	1	30	30	0	0	180	5	m	pa
5	zn-eng-05	<a href="#">Basics of Information and Communication Technologies</a>	1	30	30	0	0	0	5	m	p
6	zn-eng-izb-01	Elective Course 1	1	30	30	0	0	0	5	e	
6a	zn-eng-izb-01-a	<a href="#">Basics of Biochemistry</a>	1	30	30	0	0	0	5	e	p
6b	zn-eng-izb-01-b	<a href="#">Business Communication Skills</a>	1	30	30	0	0	0	5	e	p
6v	zn-eng-izb-01-v	<a href="#">Medical and Pharmaceutical Waste</a>	1	30	30	0	0	0	5	e	ag
6g	zn-eng-izb-01-g	<a href="#">Specialized English for Medicine 1</a>	1	30	30	0	0	0	5	e	ag
6d	zn-eng-izb-01-d	<a href="#">Specialized German for Medicine 1</a>	1	30	30	0	0	0	5	e	ag
7	zn-eng-06	<a href="#">Hygiene with the Basics of Microbiology</a>	2	30	30	0	0	330	5	m	p
8	zn-eng-08	<a href="#">Health Care Education Methodology and Health Promotion</a>	2	30	30	0	0	0	5	m	pa
9	zn-eng-09	<a href="#">Public Health</a>	2	30	30	0	0	0	5	m	ag
10	zn-eng-18	<a href="#">Organization of Health Care Systems</a>	2	30	30	0	0	0	5	m	ag
11	zn-eng-izb-02	Elective Course 2	2	30	30	0	0	0	5	e	
11a	zn-eng-izb-02-a	<a href="#">Marketing of Health Care Institutions</a>	2	30	30	0	0	0	5	e	pa
11b	zn-eng-izb-02-b	<a href="#">Biological Materials and Laboratory Techniques</a>	2	30	30	0	0	0	5	e	pa
<b>Total number of classes and ECTS per year:</b>				<b>345</b>	<b>300</b>	<b>0</b>	<b>0</b>	<b>810</b>	<b>60</b>		
<b>THE SECOND YEAR</b>											
12	zn-eng-07	<a href="#">Pathophysiology</a>	3	45	30	0	0	0	6	m	p
13	zn-eng-11	<a href="#">Basics of Internal Medicine</a>	3	45	15	0	0	0	5	m	p
14	zn-eng-12	<a href="#">Basics of Pediatrics</a>	3	30	15	0	0	0	5	m	pa
15	zn-eng-13	<a href="#">Basics of Gynecology and Obstetrics and Nursing in Gynecology and Obstetrics</a>	3	30	60	0	0	180	5	m	pa
16	zn-eng-izb-02-a	<a href="#">First Aid</a>	3	30	30	0	0	0	5	m	pa
17	zn-eng-izb-03	Elective Course 3	3	30	30	0	0	0	5	e	
17a	zn-eng-izb-03-a	<a href="#">Specialized English for Medicine 2</a>	3	30	30	0	0	0	5	e	ag
17b	zn-eng-izb-03-b	<a href="#">Specialized German for Medicine 2</a>	3	30	30	0	0	0	5	e	ag
17v	zn-eng-izb-03-v	<a href="#">Dietary Issues and Nutrition of Inpatients</a>	3	30	30	0	0	0	5	e	pa
18	zn-eng-15	<a href="#">Internal Medicine Patient Nursing</a>	4	30	30	0	0	360	7	m	pa
19	zn-eng-16	<a href="#">Child and Adolescent Nursing in Pediatrics</a>	4	30	15	0	0	240	6	m	pa
20	zn-eng-17	<a href="#">Healthy Lifestyle and Sociology of Health and Disease</a>	4	15	15	0	0	0	3	m	p
21	zn-eng-14	<a href="#">Psychology in Nursing and Health Care</a>	4	15	30	0	0	0	3	m	p
22	zn-eng-10	<a href="#">Diagnostically-Therapeutic Program</a>	4	30	30	0	0	315	5	m	pa
23	zn-eng-izb-04	Elective Course 4	4	30	30	0	0	0	5	e	

23a	zn-eng-izb-04-a	<a href="#">Pharmacology and Drug Dosing</a>	4	30	30	0	0	0	5	e	pa
23b	zn-eng-izb-04-b	<a href="#">Human Resources Management in Health Care</a>	4	30	30	0	0	0	5	e	p
23v	zn-eng-izb-04-g	<a href="#">Allergology</a>	4	30	30	0	0	0	5	e	p
23g	zn-eng-izb-04-d	<a href="#">Rare Diseases</a>	4	30	30	0	0	0	5	e	p
<b>Total number of classes and ECTS per year:</b>				<b>360</b>	<b>330</b>	<b>0</b>		<b>1.095</b>	<b>60</b>		
<b>THE THIRD YEAR</b>											
24	zn-eng-19	<a href="#">Basics of Surgery with Orthopedics</a>	5	30	15	0	0	0	5	m	pa
25	zn-eng-24	<a href="#">Emergency Medicine and Nursing in Special Conditions</a>	5	30	30	0	0	240	6	m	pa
26	zn-eng-20	<a href="#">Basics of Psychiatry and Neurophysiology of Pain with Psychiatric Patient Nursing</a>	5	30	45	0	0	120	6	m	pa
27	zn-eng-21	<a href="#">Patient Care at Home and Patronage Nursing</a>	5	30	30	0	0	150	5	m	pa
28	zn-eng-izb-05	Elective Course 5	5	30	30	0	0	0	5	e	
28a	zn-eng-izb-05-a	<a href="#">Medical Rehabilitation</a>	5	30	30	0	0	0	5	e	pa
28b	zn-eng-izb-05-b	<a href="#">Mental Hygiene</a>	5	30	30	0	0	0	5	e	p
28v	zn-eng-izb-05-v	<a href="#">Basics of Oncology with Selected Sections from Radiotherapy and Nursing of Oncological Patients</a>	5	30	30	0	0	0	5	e	pa
28g	zn-eng-izb-05-g	<a href="#">Business English</a>	5	30	30	0	0	0	5	e	ag
28d	zn-eng-izb-05-d	<a href="#">Business German</a>	5	30	30	0	0	0	5	e	ag
29	zn-eng-23	<a href="#">Surgical Patient Nursing</a>	6	60	60	0	0	330	8	m	pa
30	zn-eng-22	<a href="#">Health Care and Social-Security Legislation</a>	6	30	30	0	0	0	5	m	ag
31	zn-eng-25	<a href="#">Quality Control</a>	6	30	30	0	0	0	5	m	p
32	zn-eng-izb-06	Elective Course 6	6	30	30	0	0	0	5	e	
32a	zn-eng-izb-06-a	<a href="#">Intensive Care Unit Nursing</a>	6	30	30	0	0	120	5	e	pa
32b	zn-eng-izb-06-b	<a href="#">Sports Medicine</a>	6	30	30	0	0	0	5	e	pa
32v	zn-eng-izb-06-v	<a href="#">Basics of Integrative Medicine</a>	6	30	30	0	0	0	5	e	p
32g	zn-eng-izb-06-g	<a href="#">Research Methodology</a>	6	30	30	0	0	0	5	e	pa
32d	zn-eng-izb-06-d	<a href="#">Palliative Care</a>	6	30	30	0	0	0	5	e	pa
33	zn-eng-27	<a href="#">Degree Paper</a>	6	0	0	0	300	0	10	m	c
<b>Total number of classes and ECTS per year:</b>				<b>300</b>	<b>300</b>	<b>300</b>		<b>840</b>	<b>60</b>		

<b>Total number of classes and ECTS per all three years of studies:</b>	<b>2.235</b>	<b>2.745</b>	<b>180</b>		
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**ALLERGOLOGY**

<b>Study program:</b> Nursing				
<b>Type and level of study:</b> undergraduate professional studies				
<b>Course:</b> Allergology				
<b>Language of instruction:</b> English, Serbian				
<b>Course status:</b> elective				
<b>Semester:</b> second year, fourth semester				
<b>ECTS:</b> 5				
<b>Requirement:</b> no				
<b>Course objective:</b> The objective of the course is to familiarize students with and their understanding of the basic principles of allergology, their capability to use specialist literature relating to this field and to state their opinion in the field of allergology.				
<b>Course outcome:</b> The outcome of the course is the acquisition of fundamental knowlede in allergology, familiarizaiton with the basics of diagnostics in allergology and capability of students of taking measures in the prevention of allergic reactions or their elimination. The outcome of the course is also familiarization of students with basic pathological cases in the field of allergology and their capability to use specialist literature relating to this field.				
<b>Course content:</b> <i>Lectures</i> Objects, definition and tasks of allergology; respiratory allergy (rhinitis, rhinoconjunctivitis, asthma); drug allergy; poison allergy (wasps, bees); allergic contact dermatitis; food allergy; latex allergy; hives (urticaria); plant allergy; pollen allergy; anaphylaxis; application of allergy elimination techniques; skin testing for allergy; provocation test; desensitization; allergen specific immunotherapy. <i>Exercises</i> Types of allergies – case studies; applications of allergy elimination techniques – case studies; analysis of most frequent allergic reactions in Serbia; first aid measures, nursing in case of allergic reactions; searching e-literature and presentation of certain less known allergic reactions; renowned health-care and scientific institutions in Serbia in the field of allergology.				
<b>Literature:</b> <i>Literature in English:</i> 1. Wesley Burks A., Holgate S. T., O'Hehir R. E., Broide D. H., Bacharier L. B.: Middleton's allergy: principles and practice, Elsevier, Amserdam, 2020. <i>Literature in Serbian:</i> 2. Ljajević J., Ljajević M., Dimčić Radovanović Z.: Alergologija i klinička imunologija u Srbiji, Evropski centar za mir i razvoj, Beograd, 2005. 3. Ramić Z., Pravica V., Popadić D.: Priručnik za nastavu iz imunologije, Medicinski fakultet, Beograd, 2020. 4. Dadarno P. Dž., Vitni K.: Alergije, Sezam book, Beograd, 2020.				
<b>Number of classes:</b>				
<b>Theoretical lectures</b>	<b>Theoretical exercises</b>	<b>Professional practice</b>	<b>Study research work (Degree Paper...)</b>	<b>Other forms of teaching (individual work with student, projects...)</b>
30	30	0	0	0
<b>Methods of teaching:</b> lectures and practical exercises with anatomical and hystological devices, use of atlas, video projections, computer animations and simulations of physiological processes				
<b>Grading (maximum 100 points)</b>				
<b>Pre-Exam commitments</b>		<b>Points</b>	<b>Final Exam</b>	<b>Points</b>
Lecture attendance		3	Exam	30
Activity		7		
Projects/Seminars		0		
Exercises/professional practice		30		
Colloquiums		30		

## ANATOMY AND PHYSIOLOGY

<b>Study program:</b>	Nursing
<b>Type and level of study:</b>	undergraduate professional studies
<b>Course:</b>	<b>Anatomy and Physiology</b>
<b>Language of instruction:</b>	English, Serbian
<b>Course status:</b>	mandatory
<b>Semester:</b>	first year, first semester
<b>ECTS:</b>	7
<b>Requirement:</b>	segment Anatomy is a condition for segment Physiology
<b>Course objective:</b>	Acquisition of knowledge on organ and human body system morphology; familiarity with and understanding normal anatomical and histological structures and notions; acquisition of knowledge in area of cell, tissue, organ system and human organism physiology aimed at understanding the changed, pathological functioning and treatment possibilities; knowledge of and understanding the role of organ control mechanisms, as well as understanding connection between regulatory systems in human organism; provision of theoretical basis required for learning other courses.
<b>Course outcome:</b>	Capability of defining, describing, integrating and reproducing notions relating to normal anatomical and histological structures; upon the completion of the course and passing the exam students will have a command of the corresponding part of medical nomenclature, be able to explain functioning of individual organs and organ systems, will be familiar with and will understand integrated functions of individual organs and the role of organism control mechanisms and they will know and understand the connection of the regulatory system of human organism enabling its adaptation to changes in internal and external environment under everyday conditions.
<b>Course content:</b>	<p><i>Lectures</i></p> <p><i>Anatomy:</i> Basic anatomical terminology; body areas and parts; upper extremities; bones, joints, muscles, blood vessels and nerves; lower extremities; bones, ankles, muscles, blood vessels and nerves; rib cage; walls, division and content of the thoracic cavity; lungs and pulmonary pleurae; heart; mediastinum organs; abdomen; walls, division and content of abdominal cavity; peritoneum, peritoneal cavity (liver, stomach, spleen, pancreas, small intestine and large intestine); retroperitoneal space (kidney, adrenal gland, aorta, inferior vena cava, celiac plexus); pelvis; wall and content; urinary bladder, rectum, male and female reproductive system, pelvic diaphragm; head and neck; head and facial bones; head and neck muscles; head and neck large blood vessels and nerves; central nervous system.</p> <p><i>Physiology:</i> Human physiology study; transport through cell membrane; intercellular communication; excitation physiology; membrane potential of inactivity; action potential; nervous impulse transmission; skeletal muscle physiology; neuro muscular synapse; morphophysiological characteristics of skeletal muscles; smooth muscle physiology; characteristics of smooth muscle tissue structure, types, innervation, electrical activity of smooth muscles, specific features of contraction; central nervous system organization, nerve cell; hematoencephalic barrier, cerebrospinal fluid, composition and function; spinal cord; medulla oblongata; midbrain; functional characteristics; reticulo-cortical relations, decerebration rigidity and skeletal muscle tone; cerebellum, structure and function; diencephalon, hypothalamus, vegetative nervous system; basal ganglia; cerebral cortex; senses; definition, importance and general principles of sensory systems; sense of hearing and balance; sense of taste and smell; eyesight; pain perception; introductory notes in pathophysiology.</p> <p><i>Exercises</i></p> <p>Demonstration of all teaching units on anatomical dummies. Use of atlas; video presentations. Membrane potentials and synaptic transmission. Patellar reflex and pupillary reflex. Impact of different factors on muscular contraction. Haemoglobin, erythrocyte and leukocyte concentration in human blood. Plasma buffer solution capacity. Coagulation. Discussion and analysis of selected physiological systems.</p>
<b>Literature:</b>	<p><i>Literature in English:</i></p> <ol style="list-style-type: none"> <li>1. Scanlon V., Sanders T.: Essentials of Anatomy and Physiology, Kindle Edition, London, 2018</li> <li>2. Netter F. H., Machado C. A. G.: Atlas of Human Anatomy &amp; CD, ILS, Mala velika knjiga, Novi Sad, 2005.</li> <li>3. Drake L. R., Wayne Vogl A., Mitchell A. W. M., et al.: Gray's Anatomy for Students, textbook, Elsevier, New York, 2014.</li> <li>4. Arroyo J. P.: Back to Basics in Physiology, textbook, Academic Press, London, 2013.</li> </ol> <p><i>Literature in Serbian:</i></p> <ol style="list-style-type: none"> <li>5. Stojić-Džunja Lj.: Anatomija za studente zdravstvene nege, udžbenik, Medicinski fakultet, Novi Sad, 2017.</li> <li>6. Veličković D.: Fiziologija za studente farmacije, udžbenik, Medicinski fakultet, Niš, 2013.</li> <li>7. Despopoulos A., Silbernagl S.: Fiziološki atlas u boji za studente medicine, Medicinski fakultet, Niš, 2007.</li> <li>8. Mačvanin Đorđe: Anatomija, udžbenik, Fakultet za menadžment u sportu, Alfa univerzitet, Beograd, Matica srpska, Novi Sad, 2005.</li> <li>9. Milisavljević M. i sar.: Klinička anatomija, udžbenik, Nauka, Beograd, 2004.</li> </ol>

10. Guyton A.C., Hall J. E.: Medicinska fiziologija, Savremena administracija, Beograd, 2006.  
 11. Mujović i sar.: Medicinska fiziologija, udžbenik, Medicinski fakultet, Kosovska Mitrovica (Priština), 2008.

<b>Number of classes:</b>				
<b>Lectures</b>	<b>Theoretical exercises</b>	<b>Professional practice</b>	<b>Study research work (Degree Paper...)</b>	<b>Other forms of teaching (individual work with student, projects...)</b>
45	15	0	0	0
<b>Methods of teaching:</b> lectures and practical exercises with anatomical and hystological devices, use of atlas, video projections, computer animations and simulations of physiological processes				
<b>Grading (maximum 100 points)</b>				
<b>Pre-Exam commitments</b>	<b>Points</b>	<b>Final Exam</b>	<b>Points</b>	
Lecture attendance	3	Exam	20 (Anatomy) +20 (Physiology)	
Activity	7			
Projects/Seminars	0			
Exercises/professional practice	10 (Anatomy) 10 (Physiology)			
Colloquiums	15 (Anatomy) 15 (Physiology)			

**BASICS OF BIOCHEMISTRY**

<b>Study program:</b> Nursing				
<b>Type and level of study:</b> undergraduate professional studies				
<b>Course:</b> Basics of Biochemistry				
<b>Language of instruction:</b> English, Serbian				
<b>Course status:</b> elective				
<b>Semester:</b> first year, first semester				
<b>ECTS:</b> 5				
<b>Requirement:</b> no				
<b>Course objective:</b> Student will acquire basic knowledge in biochemistry and understand the impact of biochemistry on other sciences, understand interrelationship between molecule structure and biological function, acquire knowledge on structure and function of cell membranes, understand enzyme action mechanism, acquire knowledge in basic metabolic pathways, acquire knowledge in intercellular signaling, understand reactions of biotransformations of exogenous and endogenous substances and acquire knowledge on nucleic acids and protein biosynthesis.				
<b>Course outcome:</b> Upon the successful completion of the course students are expected to be able to describe and analyze the course of principal catabolic, anabolic and common metabolic pathways, apply knowledge on enzyme kinetics and intercellular signaling in interpreting regulation of metabolic pathways in human organism, explain biochemical basis of protein synthesis, regulation and posttranslational modifications of proteins, as well as to successfully apply the acquired knowledge when attending classes and acquiring knowledge in medical biochemistry.				
<b>Course content:</b> <i>Lectures</i> Introduction; structure and mechanism of enzyme and coenzyme action, enzyme kinetics and inhibition; chemical composition of biological membranes and transport through membranes; basic principles of bioenergetics; carbohydrate catabolism; glycolysis; glycogenolysis; phosphogluconate pathway, catabolism of other hexoses; lipid catabolism: fatty acid oxidation, triglyceride, phospholipid, sphingolipid, cholesterol; nitrogen compound catabolic process, amino acids, urea, protein, nucleotide cycle; common metabolic pathways; citric acid cycle, respiratory chain and oxidative phosphorylation; carbohydrate anabolism: gluconeogenesis, glycogenesis; lipid anabolism; nitrogen compound anabolism; intercellular signaling: by G-protein-linked receptors, enzyme-linked receptors, ion channel receptors and nicotinic acetylcholine receptors; biotransformations: cytochrome P450, FM-monoxygenase systems; glucuronic acid conjugation; biotransformation of some exogenous and endogenous substances; biosynthesis of proteins and nucleic acids, replication, transcription, translation and posttranslational modifications of proteins in human organism. <i>Exercises</i> Repetition of the acquired knowledge on biomolecules. Structure and function of fibrillar (keratin and collagen) and globular (hemoglobin and myoglobin) proteins. Solving problems relating to enzyme reaction kinetics and enzyme inhibition. Examples of disorders of some transport systems through cell membranes. Presentation of animations of principal metabolic pathways. Solving problems relating to certain metabolic pathway, linking theoretical knowledge in metabolism with practical examples. Familiarization with work of medical-biochemical laboratory.				
<b>Literature:</b> <i>Literature in English:</i> 1. Rodwell V., Bender D., Botham K., Kennelly P., Anthony P. W.: Harper's Illustrated Biochemistry, textbook, McGraw-Hill Education, New York, 2018. 2. Nelson D. L., Cox M. M.: Lehninger Principles of Biochemistry, Worth Publishers, New York, 2000. <i>Literature in Serbian:</i> 3. Spasić S., Jelić-Ivanović Z., Spasojević-Kalimanovska V.: Opšta biohemija, udžbenik, Farmaceutski fakultet, Beograd, 2003. 4. Topić A., Stanojević-Bogavac N., Kotur-Stevuljević J.: Laboratorijske vežbe iz opšte biohemije, Farmaceutski fakultet, Beograd, 2009. 5. Stojanović S.: Zbirka zadataka iz hemije, Omega MS Pharmacy, Novi Sad, 2017. 6. Kovačević D.: Biohemija, udžbenik, Savremena administracija, Beograd, 2003. 7. Petrović J., Velimirović S.: Biohemija, udžbenik, Novi Sad, 2002. 8. Mihajlović M.: Biohemija, udžbenik, Naučna knjiga, Beograd, 2000.				
<b>Number of classes:</b>				
<b>Theoretical lectures</b>	<b>Theoretical exercises</b>	<b>Professional practice</b>	<b>Study research work (Degree Paper...)</b>	<b>Other forms of teaching (individual work with student, projects...)</b>
30	30	0	0	0
<b>Methods of teaching:</b>				

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lectures, exercises, case study, demo laboratory exercises, e-learning			
<b>Grading (maximum 100 points)</b>			
<b>Pre-Exam obligation</b>	<b>Points</b>	<b>Final Exam</b>	<b>Points</b>
Lecture attendance	3	Exam	40
Activity	7		
Projects/Seminars	0		
Exercises/professional practice	20		
Colloquiums	30		

**BASICS OF GYNECOLOGY AND OBSTETRICS AND NURSING IN GYNECOLOGY AND OBSTETRICS**

<b>Study program:</b> Nursing				
<b>Type and level of study:</b> undergraduate professional studies				
<b>Course:</b> Basics of Gynecology and Obstetrics and Nursing in Gynecology and Obstetrics				
<b>Language of instruction:</b> English, Serbian				
<b>Course status:</b> mandatory				
<b>Semester:</b> second year, third semester				
<b>ECTS:</b> 5				
<b>Requirement:</b> Basics of Nursing				
<b>Course objective:</b> Training students to use the acquired knowledge in education of population aimed at improvement and preservation of reproductive health, health check-ups, participation in diagnostic processes and therapy, planning and implementation of nursing of women.				
<b>Course outcome:</b> Upon the completion of the course, students will be able to recognize pathology of early and late pregnancy, to nurse prematurely born babies, apply the procedure of transfer of prematurely born babies, take part in diagnostic and therapeutic interventions.				
<b>Course content:</b> <i>Lectures</i> Most frequent and most important conditions in women, their diagnostics, prevention and curing; therapeutic diagnosis in gynecology; physical, psychical and social aspects of pregnancy, education and health care of pregnant women, postpartum women and breastfeeding women; therapeutic diagnosis in obstetrics; physical, psychical and social aspects of marital sterility and menopause, importance of education and care; specific features of nursing in gynecology and obstetrics and their subspecialties; anatomy and physiology of the reproductive system, inflammatory changes of reproductive system, benign and malignant changes of the reproductive system, urogynecology, sterility, family planning, pregnancy physiology, pathology of early and late pregnancy, normal child birth, child birth pathology, fetal growth monitoring methods, fetal lactation physiology. <i>Exercises</i> Pregnancy, birth-giving and postnatal period as normal condition. Assessment of risk factors causing pathological conditions in antenatal, intrapartum and postpartum period. Assessment of emergencies in obstetrics. Nursing during and after surgical delivery. Newborn baby nursing with an emphasis on good parenthood. Evaluation of body systems of a newborn baby. Newborn primitive reflexes evaluation. Education of parents. Nursing of prematurely born babies and their transfer.				
<b>Literature:</b> <i>Literature in English:</i> 1. The Global Strategy for Women's, Children's and Adolescents' Health 2016-2030, WHO, 2015. 2. Banasree B.: Gynecology for Nurses, textbook, Jaypee Brothers Medical Publishers, New Jersey, 2014. 3. Hoffman B., Schorge J., Bradshaw K., Halvorson L., Schaffer J., Corton M.: Williams Gynecology, textbook, Mc-Graw-Hill Education, 2016. <i>Literature in Serbian:</i> 4. Đurđević S., Kopitović V., Kapamacija A.: Ginekologija, udžbenik, Medicinski fakultet, Novi Sad, 2015. 5. Plećaš D., Stanimirović B., Stanković A., Vasiljević M.: Ginekologija i akušerstvo, Cibid, Beograd, 2006. 6. Živanović V.: Zdravstvena nega u ginekologiji i akušerstvu, autorsko izdanje, Beograd, 2012. 7. Dinulović D.: Savremena ginekologija, Agencija za marketing DON VAS, 2006. 8. Živanović Ž.: Uvod u porodiljstvo, Elit Medika, Beograd, 2004. 9. Ščekić M.: Prenatalna dijagnostika naslednih obolenja primenom savremenih metoda medicinske genetike, Skver, Kragujevac, 2005.				
<b>Number of classes:</b>				
<b>Theoretical lectures</b>	<b>Theoretical exercises</b>	<b>Professional practice</b>	<b>Study research work (Degree Paper...)</b>	<b>Other forms of teaching (individual work with student, projects...)</b>
30	60	180	0	0
<b>Methods of teaching:</b> lectures against use of different video material, exercises, exercises on dummy, clinical practice				
<b>Grading (maximum 100 points)</b>				
<b>Pre-Exam obligations</b>		<b>Points</b>	<b>Final Exam</b>	<b>Points</b>
Lecture attendance		3	Exam	30
Activity		7		
Projects/Seminars		0		
Exercises/professional practice		40		
Colloquiums		20		

**BASICS OF INFORMATION AND COMMUNICATION TECHNOLOGIES**

<b>Study program:</b> Nursing				
<b>Type and level of study:</b> undergraduate professional studies				
<b>Course:</b> Basics of Information and Communication Technologies				
<b>Language of instruction:</b> English, Serbian				
<b>Course status:</b> mandatory				
<b>Semester:</b> first year, first semester				
<b>ECTS:</b> 5				
<b>Requirement:</b> no				
<b>Course objective:</b> Course objective is to enable students to acquire basic knowledge in the area of application of information-communication technologies in health care institutions, familiarizing with text processing software tools and with tabular calculations computer programs.				
<b>Course outcome:</b> Upon passing the exam students will be able to apply the acquired knowledge on computer hardware, peripheral units, software tools, multimedia and the internet in real-life situations in health care institutions, or to use the acquired knowledge to improve the current work in health care institutions. In addition to that, application of calculation or text processing program is important for everyday work of health care professionals.				
<b>Course content:</b> <i>Lectures</i> Organization of information technology service in health care institution; types of information systems; information systems within health care system; acquisition and acceptance of new information systems in health care, need for continuous updating; work of health care worker within IT system; professional equipment; basics of system analysis; system functioning testing; standards of information technologies system in health care; patient recording; importance of permanent and timely entry of data into system; connection of the system with other national systems, unique system of patient tracking; trends of connecting health care institutions system with pharmaceutical systems; patient data protection; the Internet, internet address, internet access, internet protocols, HTML, World Wide Web, internet services; Windows; specific program used in pharmacy practice; basic program languages used by health care professionals (Word, Excell, Power Point); security systems in health care institutions, panic keys. Professional softver for health institutions HELIANT. Basics of statistics. <i>Exercises</i> Types of information systems. Work of health care worker within IT system. Need for continuous updating. Basics of telecommunications and forms of telecommunication systems. Patient recording. Importance of permanent and timely entry of data into system. Work in patient recording program. Use of internet. Basic program languages in the work of health care professional (Word, Excel, Power Point), work in programs. Data processing, surveys. Graphic presentation and tabulating. Types of errors at data processing. Use of security system in health care institution. Professional softver HELIANT. Statistics exercises.				
<b>Literature:</b> <i>Literature in English:</i> 1. Biheller B. R., Evans J., Pinard T. K., Romer M. R.: Microsoft Office 2007: Introductory Course, textbook, Course Technology, Boston, 2007. <i>Literature in Serbian:</i> 2. Marčićević Ž., Marošan Z.: Primena informacionih tehnologija, udžbenik, Visoka poslovna škola strukovnih studija, Novi Sad, 2010. 3. Marošan Z., Vesin B.: Primena informacionih tehnologija, praktikum, Visoka poslovna škola strukovnih studija, Novi Sad, 2009. 4. Gerlič I.: Savremene informacione tehnologije u obrazovanju, udžbenik, Nacionalna izdavačka kuća Slovenija, Ljubljana, 2000. 5. Softver HELIANT za rad u zdravstvenoj ustanovi, demo verzija. 6. Bunzel T.: Microsoft Office 2010 Kao od šale, CET, Beograd, 2010. 7. Tasić M., Ćirić M.: Osnovi informatike, udžbenik, Prirodno-matematički fakultet, Niš, 2002. 8. Milošević Z., Bogdanović D.: Statistika i informatika u oblasti medicinskih istraživanja, udžbenik, Medicinski fakultet, Niš, 2012.				
<b>Number of classes:</b>				
<b>Theoretical lectures</b>	<b>Theoretical exercises</b>	<b>Professional practice</b>	<b>Study research work (Degree Paper...)</b>	<b>Other forms of teaching (individual work with student, projects...)</b>
30	30	0	0	0
<b>Methods of teaching:</b>				

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lectures, practical classes, work with software, exercises.			
<b>Grading (maximum 100 points)</b>			
<b>Pre-Exam obligations</b>	<b>Points</b>	<b>Final Exam</b>	<b>Points</b>
Lecture attendance	3	Exam	30
Activity	7		
Projects/Seminars	0		
Exercises/professional practice	30		
Colloquiums	30		

**BASICS OF INTEGRATIVE MEDICINE**

<b>Study program:</b> Nursing				
<b>Type and level of study:</b> undergraduate professional studies				
<b>Course:</b> <b>Basics of Integrative Medicine</b>				
<b>Language of instruction:</b> English, Serbian				
<b>Course status:</b> elective				
<b>Semester:</b> third year, sixth semester				
<b>ECTS:</b> 5				
<b>Requirement:</b> no				
<b>Course objective:</b> The objective of the course is to provide students with basic information on different ideas and approaches to therapy, enable acquisition of knowledge on most important techniques included in the notion of integrative medicine, provide basic information on certain techniques of integrative medicine and provide preconditions for understanding the integrative approach to therapy. The objective of the course is that students understand integrative medicine as a medicine parallel, complementary to the conventional medicine that jointly result in an improved condition of the patient.				
<b>Course outcome:</b> Having passed the exam, the student will be capable of logical judgment on different approaches to therapy and treatment, approaches to therapy and treatment health with within integrative medicine, basic characteristics of certain methods; current application of different forms of integrative medicine in Serbia and global trends. In addition to that, students will be trained to interpret current laws of the Republic of Serbia relating to integrative medicine branches.				
<b>Course content:</b> <i>Lectures</i> Presentation of different concepts in defining the notions of conventional and integrative therapy, holistic and integrative approach to therapy; notions and technique presently classified as nonconventional therapy techniques; currently used therapeutic tools; basics of integrative medicine methods: acupuncture (acupressure, magnetotherapy, laser therapy), quantum medicine (Bi-Digital O-Ring Test, BRT, MRT), herbal and vitamin supplements, homeopathy, nonconventional approach to nutrition, essential oils, manipulative therapies (osteopathy, chiropractic), applied kinesiology, naturopathy, relaxation techniques (yoga, meditations, tai-chi, autogenic training, hypnosis etc.), massages (shiatsu, reflexotherapy), anthroposophic medicine, aromatherapy, colour therapy, smell therapy, sound therapy, crystal therapy, mud therapy, water therapy, qigong, reiki, environmental medicine; providing information on current and new forms of complementary therapies (information diagnostic and therapy); traditional medicine vs. integrative therapy; main assumptions of traditional medicine (acupuncture, tui na, herbal), campo, Indian (ayurveda), fundamentals of other traditional medicine; traditional systems of therapy in the Balkan region; safety at selection or use of complementary medicine methods. <i>Exercisess</i> Visits to integrative medicine centres; familiarization with actual cases; discussion; case studies; internet presentations; field visits (to centres of certain integrative medicine branches).				
<b>Literature:</b> <i>Literature in English:</i> 1. Omura Yoshiaki: Practice of the Bi-Digital O-Ring Test, Ido No Nippon, Tokyo 1986. 2. Robson Terry: An introduction to Complementary Medicine, Allen &Unwin, Sydney, 2003. 3. Micozzi S. Marc: Fundamentals of Complementary and Alternative Medicine, Saunders, Philadelphia, 2010. 4. Kotsirilos Vicki, Vitetta Luis, Sali Avni: A Guide to Evidence-based Integrative and Complementary Medicine, Churchill Livingstone, Edinburg, 2011. 5. Hecker Hans-Ulrich, Steveling Angelika, Peuker Elmar, Kastner Joerg: Color Atlas of Acupuncture: Body Points - Ear Points - Trigger Points (Complementary Medicine), Thieme, Amsterdam, 2008. 6. Sutton Amy L: Complementary and Alternative Medicine Sourcebook, Omnigraphics, Detroit, 2010. 7. Zhanwen Liu, Liang Liu: Essentials of Chinese Medicine, Springer, London, New York, 2009. 8. Kligler Benjamin, Lee Roberta: Integrative Medicine principles for practice, Program in Integrative Medicine, University of Arizona. McGraw-Hill Companies, New York, Chicago, London, Madrid, Milan, Sydney, Toronto, 2004. <i>Literature in Serbian:</i> 9. Grupa autora: Tajne alternativne medicine: Medicinska knjiga, Beograd, 2016. 10. Školjlev A.: Akupunkturologija, Naučna knjiga, Beograd, 2009. 11. Jovanović-Ignjatić Zlata: Kvantno hologramska medicina kroz prizmu akupunktturnih i mikrotalasno rezonantnih (samo) regulatornih mehanizama, Quanttes, Beograd, 2010.				
<b>Number of classes:</b>				
<b>Theoretical lectures</b>	<b>Theoretical exercises</b>	<b>Professional practice</b>	<b>Study research work (Degree Paper...)</b>	<b>Other forms of teaching (individual work with student, projects...)</b>

30	30	0	0	0
<b>Methods of teaching:</b> lectures against use of different video materia, exercises on dummy, exercises				
<b>Grading (maximum 100 points)</b>				
<b>Pre-Exam obligations</b>		<b>Points</b>	<b>Final Exam</b>	<b>Points</b>
Lecture attendance		3	Exam	30
Activity		7		
Projects/Seminars		0		
Exercises/professional practice		40		
Colloquiums		20		

## BASICS OF INTERNAL MEDICINE

<b>Study program:</b>	Nursing
<b>Type and level of study:</b>	undergraduate professional studies
<b>Course:</b>	<b>Basics of Internal Medicine</b>
<b>Language of instruction:</b>	English, Serbian
<b>Course status:</b>	mandatory
<b>Semester:</b>	second year, third semester
<b>ECTS:</b>	5
<b>Requirement:</b>	Basics of Nursing
<b>Course objective:</b>	Adoption of current theoretical and practical specialist knowledge in internal medicine, nursing of internal-medicine patients and training in application of acquired knowledge in health care professional work.
<b>Course outcome:</b>	Upon the completion of the course students are trained to recognize in individual and team work cardiovascular, pulmonary, nephrology, endocrinology, gastroenterology, hematology and oncology conditions.
<b>Course content:</b>	<p><i>Lectures</i></p> <p>Cardiology; specific features of nursing in heart rhythm, pacemaker implantation and electrophysiology ward; diagnostics, therapy and prevention of artery hypertension; specific features of nursing in cardiology wards; prevention, diagnostics and treatment coronary disease risk factors; diagnostics and treatment of acute coronary syndrome; most frequent and most important pulmonary diseases, diagnostics, prevention and treatment; specific features of nursing in pulmonary wards; most frequent and most important internal oncology diseases, diagnostics, prevention and treatment; specific features of administration of cytostatic therapy and chemotherapy in internal patients; most frequent and most important hematologic diseases, diagnostics, prevention and treatment; specific features of nursing in hematology wards; nursing and care of patients with hemorrhagic syndrome; nursing and care of immunocompromised patients; most frequent and most important gastrointestinal and biliopancreatic diseases, diagnostics, prevention and treatment; most frequent and most important liver diseases; endocrinology; most frequent and most important endocrinology diseases, diagnostics, prevention and treatment; specific features of nursing in endocrinology wards; insulin therapy regimes; diabetic foot nursing; most frequent and most important nephrology diseases, diagnostics, prevention and treatment; most frequent and most important immunology diseases, diagnostics, prevention and treatment; specific features of nursing in nephrology and immunology wards; specific features of nursing in dialysis wards; conducting peritoneal dialysis.</p> <p><i>Exercisess</i></p> <p>Etiology and pathogenesis of cardiovascular diseases. Specific features of nursing in cardiology wards. Prevention, diagnostics and treatment of coronary disease risk factors. Diagnostics and treatment of acute coronary syndrome. Etiology and pathogenesis of pulmonary diseases. Function and general symptomatology of respiratory system diseases. Diagnostics of respiratory system diseases. Anamnesis, physical examination, abdomen inspection, additional examinations of digestive organs. Etiology and pathogenesis of digestive system organs diseases. Functional and general symptoms of digestive system organs. Functional and general symptoms of liver, gallbladder and biliary tract and pancreas diseases. Specific features of nursing in gastrointestinal wards. Preparation of patient for endoscopy diagnostic procedures. Examination and clinical testing of renal disease patient. Specific features of nursing in nephrology and immunology wards. Specific features of nursing in dialysis wards. Conducting hemodialysis and peritoneal dialysis. Propaedeutics of blood and blood forming organs. Specific features of nursing in hematology wards. Nursing and care of patients with hemorrhagic syndrome. Nursing and care of immunocompromised patients. Most frequent and most important endocrinology diseases, diagnostics, prevention and treatment. Specific features of nursing in endocrinology wards. Insulin therapy regimes. Specific features of nursing of patients with locomotor system diseases.</p>
<b>Literature:</b>	<p><i>Literature in English:</i></p> <ol style="list-style-type: none"> <li>1. Farr C. B.: Internal Medicine for Nurses: Outlines of Internal Medicine for the Use of Nurses, Scholar's Choice, London, 2015.</li> <li>2. Kasper D., Fauci A., Hauser S., Longo D.: Harrison's Principles of Internal Medicine, textbook, McGraw-Hill Professional, New York, 2015</li> </ol> <p><i>Literature in Serbian:</i></p> <ol style="list-style-type: none"> <li>3. Kopitović I.: Interna medicina za studente zdravstvene nege, udžbenik, Medicinski fakultet, Novi Sad, 2015.</li> <li>4. Manojlović D. i dr.: Interna medicina I, II udžbenik, Zavod za udžbenike i nastavna sredstva, Beograd, 2003.</li> <li>5. Antić S., Ilić S., Interna medicina, udžbenik, Medicinski fakultet, Niš, 2009.</li> <li>6. Đurica S.: Interna medicina, udžbenik, Viša medicinska škola, Beograd, 2000.</li> <li>7. Manojlović S.: Hitna stanja u internoj medicini, udžbenik, Zavod za udžbenike, Beograd, 2011.</li> </ol>
<b>Number of classes:</b>	

Theoretical lectures	Theoretical exercises	Professional practice	Study research work (Degree Paper...)	Other forms of teaching (individual work with student, projects...)
45	15	0	0	0

**Methods of teaching:**

lectures against use of different video materia, exercises on dummy, exercises

**Grading (maximum 100 points)**

Pre-Exam obligations	Points	Final Exam	Points
Lecture attendance	3	Exam	30
Activity	7		
Projects/Seminars	0		
Exercises/professional practice	30		
Colloquiums	30		

**BASICS OF NURSING**

<b>Study program:</b> Nursing				
<b>Type and level of study:</b> undergraduate professional studies				
<b>Course:</b> Basics of Nursing				
<b>Language of instruction:</b> English, Serbian				
<b>Course status:</b> mandatory				
<b>Semester:</b> first year, first semester				
<b>ECTS:</b> 8				
<b>Requirement:</b> no				
<b>Course objective:</b> Adoption of basic notions in nursing and basic theoretical and practical (resourcefulness) specialist knowledge in nursing, and training in application of the acquired knowledge in professional and research work. Self-education aimed at own protection, protection of patients and other team members, development of critical thinking, independence in nursing and team work abilities.				
<b>Course outcome:</b> Adoption of a holistic approach in nursing; skills, development of professional awareness, responsibility, humanity, sense of deontology, aesthetics and communication with patients and professional team; student independence in nursing, mastered nurse intervention and interdependent nurse intervention in the field of diagnostics and therapy.				
<b>Course content:</b> <i>Lectures</i> Theoretical consideration of basic and general notions in medicine; development of nursing; nursing and society; requirements for quality nursing in hospital and out-of-hospital circumstances; nurse interventions at patient hospitalization; nursing process; data gathering and assessment of needs of patients for nursing; general (universal) problems in nursing; nursing of specific groups; nursing documentation; models (methods) of organization of provision of nursing; progressive nursing and patient categorization; improvement of nursing through research work of nurses. <i>Exercises</i> Analysis of basic values of nursing and necessary requirements for quality nursing in hospital and out-of-hospital conditions. Basics of good practice and infection control. Nurse interventions at patient hospitalization. Determining needs in nursing. Application of aids to data collecting. Recording vital signs and other health indicators as a form of observing in nursing. Nurse diagnosis and collaboration issue in nursing process. Nursing planning. Nursing plan realization. Practicing certain nurse interventions. Evaluation in nursing process and nurse documentation keeping.				
<b>Literature:</b> <i>Literature in English:</i> 1. Springhouse: Nursing procedures, prevod, Data Status, Beograd, 2010. 2. Gulanick M., Myers J. L.: Nursing Care Plans-Nursing Diagnoses and Intervention, Elsevier, Mosby, New York, 2007. 3. Potter P. A., Perry A. G., Stockert P. A., Hall A.: Fundamentals of Nursing, textbook, Elsevier, New York, 2020. 4. Lynn P. B.: Taylor's Clinical Nursing Skills, A Nursing Process Approach, textbook, LWW, Liverpool, 2018. <i>Literature in Serbian:</i> 5. Rajak S., Imbronjev V.: Osnovi zdravstvene nege, udžbenik, Omega MS Pharmacy, Novi Sad, 2018. 6. Kekuš D.: Zdravstvena nega u primarnoj zdravstvenoj zaštiti, Visoka zdravstvena škola, Beograd, 2015. 7. Rudić R., Kocev N., Munćan B.: Proces zdravstvene nege, Praktikum za studente-vodič za praksu, Knjiga-komerc, Beograd, 2005. 8. Tijanić M., Đuranović D., Rudić R., Milović Lj.: Zdravstvena nega i savremeno sestriinstvo, udžbenik, Naučna KMD, Beograd, 2010. 9. Munćan B.: Zdravstvena nega, udžbenik, Beograd, 2014. 10. Babić L.: Zdravstvena nega u radiologiji, udžbenik, Licej, Beograd, 2011.				
<b>Number of classes:</b>				
<b>Theoretical lectures</b>	<b>Theoretical exercises</b>	<b>Professional practice</b>	<b>Study research work (Degree Paper...)</b>	<b>Other forms of teaching (individual work with student, projects...)</b>
30	15	300	0	0
<b>Methods of teaching:</b> lectures against use of different video materials, exercises on dummy, simulation, exercises, case study, discussion, workshop.				
<b>Grading (maximum 100 points)</b>				
<b>Pre-Exam obligations</b>		<b>Points</b>	<b>Final Exam</b>	<b>Points</b>
Lecture attendance		3	Exam	30
Activity		7		
Projects/Seminars		0		

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Exercises/professional practice	40		
Colloquiums	20		

**BASICS OF ONCOLOGY WITH SELECTED SECTIONS FROM RADIOTHERAPY AND NURSING OF ONCOLOGICAL PATIENTS**

<b>Study program:</b> Nursing				
<b>Type and level of study:</b> undergraduate professional studies				
<b>Course:</b> Basics of Oncology with Selected Sections from Radiotherapy and Nursing of Oncological Patients				
<b>Language of instruction:</b> English, Serbian				
<b>Course status:</b> elective				
<b>Semester:</b> third year, fifth semester				
<b>ECTS:</b> 5				
<b>Requirement:</b> Basics of Nursing				
<b>Course objective:</b> Course objective is familiarization of students with origin and occurrence of malignant cell, manner of malignant tumor spreading, their epidemiology and etiology, possibilities of early detection of malignant tumor and premalignant lesions, diagnostics and histological confirmation of malignant tumors. It is necessary to familiarize students with team work in planning oncology treatment, types of treatment and, which is very important, with recognition of complications appearing in the course of treatment of patients with malignant tumors.				
<b>Course outcome:</b> The purpose of the course is to familiarize students with the difficulties oncology patients have prior to and in the course of diagnostic procedure, in the course of treatment and after it, to understand the basic prevention of malignant tumors and recognition of the procedure of early discovery of malignant tumors. In addition to that, upon the completion of the course and after passing the exam, students should know the types and forms of oncology treatment in order to understand dilemmas and problems of the patients, which is all aimed at improvement of the quality of life of patients. It is important for them to recognize at the moment of difficulties those conditions in which it is possible to intervene professionally. Students also study basic principles of pain therapy, psycho-oncological aspect of patients and their families, and they are taught to understand the early and late rehabilitation of oncology patients. Having completed the course, students are familiar with new scientific-technical achievement in the field of diagnostics and treatment of oncology patients, and the application of information systems in oncology.				
<b>Course content:</b> <i>Lectures</i> Origin and biology of malignant cell; carcinogenesis; genetic predisposition; epidemiology and etiology of malignant tumors; early detection of malignant tumor; carcinoma diagnosis and pathology; determining the stage of the condition and principles of treatment; emergency conditions in oncology; complications in oncology treatment; paraneoplastic syndrome and stress in oncology, oncology rehabilitation; informatics in oncology. <i>Exercises</i> Origin and biology of malignant cell. Carcinogenesis. Genetic predisposition. Epidemiology and etiology of malignant tumors. Early detection of malignant tumor. Carcinoma diagnosis and pathology. Determining the stage of cancer and principles of treatment. Surgical principles of treatment. Basic principles of radiotherapy. Basic principles of systemic treatment. Emergency conditions in oncology. Complications in oncology treatment. Paraneoplastic syndrome and stress in oncology. Oncology rehabilitation. Informatics in oncology.				
<b>Literature:</b> <i>Literature in English:</i> 1. Watson W., Lucas C., Hoy A., Wells J.: Oxford handbook of Palliative Care, Oxford University Press, Oxford, 2005 2. DeVita T. V.: Cancer Principles and Practice of Oncology, textbook, Lippincott, New Jersey, 2010 3. Itano J. K., Brant J., Conde F., Saria M.: Core Curriculum for Oncology Nursing, textbook, Saunders, New York, 2015. <i>Literature in Serbian:</i> 4. Kostić-Milosavljević M.: Onkologija, Visoka zdravstvena škola strukovnih studija, Beograd, 2015. 5. Bošković S.: Zdravstvena nega u onkologiji, Visoka zdravstvena škola strukovnih studija, Beograd, 2012. 6. Jovanović D.: Osnovi onkologije i palijativna nega, udžbenik, Medicinski fakultet, Novi Sad, 2008. 7. Vrdoljak E. i sar.: Klinička onkologija, Medicinska naklada, Zagreb, 2013.				
<b>Number of classes:</b>				
<b>Theoretical lectures</b>	<b>Theoretical exercises</b>	<b>Professional practice</b>	<b>Study research work (Degree Paper...)</b>	<b>Other forms of teaching (individual work with student, projects...)</b>
30	30	240	0	0
<b>Methods of teaching:</b> lectures, exercises, case study, e-learning, clinical practice.				
<b>Grading (maximum 100 points)</b>				
<b>Pre-Exam obligations</b>	<b>Points</b>	<b>Final Exam</b>	<b>Points</b>	

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Lecture attendance	3	Exam	30
Activity	7		
Projects/Seminars	0		
Exercises/ professional practic	40		
Colloquiums	20		

## BASICS OF PEDIATRICS

<b>Study program:</b>	Nursing			
<b>Type and level of study:</b>	undergraduate professional studies			
<b>Course:</b>	<b>Basics of Pediatrics</b>			
<b>Language of instruction:</b>	English, Serbian			
<b>Course status:</b>	mandatory			
<b>Semester:</b>	second year, third semester			
<b>ECTS:</b>	5			
<b>Requirement:</b>	Basics of Nursing			
<b>Course objective:</b>	Familiarizing students with medically healthy and sick children, pediatric treatment process and the role of health care professional dealing with nursing in pediatrics. Study analysis and planning needs in pediatric nursing of patients for individuals and groups. Understanding the importance of inclusion of parents in nursing of children. Improvement of possibilities of successful communication of treated children, parents and medical team.			
<b>Course outcome:</b>	Upon the completion of the course students will improve therapy communication with children and their relatives, develop knowledge and understanding of nursing intervention in the area of pediatrics. Students are trained to recognize emergency situations and possible complications in children in circumstances posing threat to life.			
<b>Course content:</b>	<p><i>Lectures</i></p> <p>Inclusion of parents in nursing of children and the young. Evidence based on nursing in pediatrics. Application of nursing process on individual basic activities – conceptual model by V. Henderson. Care of all age children. Nursing of prematurely born children. Nursing of sick children. Nursing of children with special needs. Nursing of children suffering from pain. Newborn nutrition. Neonatology. Genetics. Growth and development of children. Nutrition of children: nephrology, endocrinology, cardiology, pulmonology, dermatology, emergency medicine, psychiatry, neurology, social pediatrics, poisoning, injuries. Disproportion of physical and psychical maturity. Adolescent medicine.</p> <p><i>Exercises</i></p> <p>Pediatric nursing and application of theoretic model. Preparation of students for clinical training within seminars. Practical application of pediatric nursing, intervention in laboratory within V. Henderson conceptual model.</p>			
<b>Literature:</b>	<p><i>Literature in English:</i></p> <ol style="list-style-type: none"> <li>1. Ball J. W.: Pediatric Nursing, Pearson education, Prentice Hall, New Jersey, 2008.</li> <li>2. Kliegman R. M., Jenson H. B., Behrman R. E.: Nelson Textbook of Pediatrics, textbook, Saunders, New York, 200</li> <li>3. Aruchamy L.: Practical Pediatrics Paperback, textbook, Jaypee, New Jersey, 2020.</li> </ol> <p><i>Literature in Serbian:</i></p> <ol style="list-style-type: none"> <li>4. Jovanović Privrodski J.: Pedijatrija, udžbenik, Medicinski fakultet, Novi Sad, 2012.</li> <li>5. Mardešić D.: Pedatrija, udžbenik, Školska knjiga, Zagreb, 2003.</li> <li>6. Marinković Lj.: Zdravstvena nega u pedijatriji, udžbenik, G.A.D., Beograd, 2007.</li> <li>7. Janković B. Vodič osnovno i specijalizovano zbrinjavanje novorođenčeta. Beograd:Institut za zdravstvenu zaštitu majke i deteta Srbije“Dr Vukan Čupić“, 2011.</li> <li>8. Berman R., Kligman R., Dženson H., Nelson N.: Udžbenik pedijatrije, Bard-Fin, Beograd, 2009.</li> <li>9. Felc Z.: Osnove neonatologije, udžbenik, Fakulteta za zdravstvene vede, Univerzitet u Mariboru, 2008.</li> </ol>			
<b>Number of classes:</b>				
<b>Theoretical lectures</b>	<b>Theoretical exercises</b>	<b>Professional practice</b>	<b>Study research work (Degree Paper...)</b>	<b>Other forms of teaching (individual work with student, projects...)</b>
30	15	0	0	0
<b>Methods of teaching:</b> lectures against use of different video material, exercises on dummy; exercises.				
<b>Grading (maximum 100 points)</b>				
<b>Pre-Exam obligations</b>	<b>Points</b>	<b>Final Exam</b>	<b>Points</b>	
Attendance at lectures	3	Exam	40	
Activity	7			
Projects/Seminars	0			
Exercises/professional practice	20			
Colloquiums	30			

**BASICS OF PSYCHIATRY AND NEUROPHYSIOLOGY OF PAIN WITH PSYCHIATRIC PATIENT NURSING**

<b>Study program:</b> Nursing				
<b>Type and level of study:</b> undergraduate professional studies				
<b>Course:</b> Basics of Psychiatry and Neurophysiology of Pain with Psychiatric Patient Nursing				
<b>Language of instruction:</b> English, Serbian				
<b>Course status:</b> mandatory				
<b>Semester:</b> third year, fifth semester				
<b>ECTS:</b> 6				
<b>Requirement:</b> Basics of Nursing				
<b>Course objective:</b> Acquisition of knowledge on effects of occupational therapy on psychical functions and acquisition of communication skills, assessment, selection and application of occupational therapy methods and organizing work in big and small groups of psychiatric patients.				
<b>Course outcome:</b> Students are trained to evaluate patients from an aspect of occupational therapy, determine therapy goals relative to psychical function disorder, motivate individuals and/or group, organize individual and group work, sport and recreational activities, select, apply and determine the scope of occupational therapy procedures and methods and evaluate effects of their work.				
<b>Course content:</b> <i>Lectures</i> Diagnostics of mental disorders; dynamic psychiatry; schizophrenia; mood disorders; delusional disorders; anxiety disorders; psychophysical disorders; personality disorders; MOPS; addictive diseases; child psychiatry; forensic psychiatry; pain neurophysiology; specific features of nursing, etiology and clinical features of addictive diseases; specific features of nursing, etiology and clinical features of schizophrenia and related disorders; specific features of nursing, etiology and clinical features of disorders; specific features of nursing, etiology and clinical features of anxiety disorders; specific features of nursing, etiology and clinical features of psychiatric disorders in childhood and adolescence; specific features of nursing, etiology and clinical features of suicidal patients; depression; domestic violence, safe houses; peer violence; marginalized groups, LGBT persons, persons with special needs; drug dependence. <i>Exercises</i> Carrying out functional testing and evaluation of functional status of patients, implying contact establishing, observation, interview, evaluation of psychical functions, movement coordination test, gathering additional data on patient and his/her condition. Use of medical documentation. Keeping nurse documentation in psychiatric clinic. Drawing up detailed treatment plan with therapy goals in accordance with conclusions and recommendations given by psychiatric team. Familiarization of patient with therapy plan. Motivating patient to techniques and activities in occupational therapy. Individual approach. Effects of pharmacotherapy or occupational therapy on psychomotor activities. Organization of group activities, sports-recreational activities. Education of patients and their families in structuring everyday and free-time activities. Evaluation of treatment effects.				
<b>Literature:</b> <i>Literature in english:</i> 1. Crouch R., Alers V.: Occupational Therapy in Psychiatry and Mental Health, Wiley-Blackwell, New Jersey, 2005. 2. Sadock B., Sadock V. A., Ruiz P.: Kaplan & Sadock's Concise Textbook of Clinical Psychiatry, textbook, LWW, Liverpool, 2015. 3. Halter M. J.: Varcarolis' Foundations of Psychiatric-Mental Health Nursing: A Clinical Approach, textbook, Saunders, New York, 2017. <i>Literature in Serbian:</i> 4. Rašković Ivić S.: Psihijatrija, Beograd, Visoka medicinska škola strukovnih studija "Milutin Milanković", 2016. 5. Kekuš D.: Praktikum iz psihijatrije sa negom, autorsko izdanje, Beograd, 2015. 6. Gelder M. Psihijatrija, prevod, Oksford, Data Status, 2012. 7. Marić J.: Klinička psihijatrija, udžbenik, Data status, Beograd, 2004. 8. Lečić Toševski D., Jašović Gašić M. i sar.: Psihijatrija, Medicinski fakultet, Beograd, 2006.				
<b>Number of classes:</b>				
<b>Theoretical lectures</b>	<b>Theoretical exercises</b>	<b>Professional practice</b>	<b>Study research work (Degree Paper...)</b>	<b>Other forms of teaching (individual work with student, projects...)</b>
30	45	120	0	0
<b>Methods of teaching:</b> lectures against use of different video materials, exercises, workshop, e-learning, discussion, clinical practice.				
<b>Grading (maximum 100 points)</b>				
<b>Pre-Exam obligations</b>		<b>Points</b>	<b>Final Exam</b>	<b>Points</b>

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Lecture attendance	3	Exam	30
Activity	7		
Projects/Seminars	0		
Exercises/professional practice	40		
Colloquiums	20		

**BASICS OF SURGERY WITH ORTHOPEDICS**

<b>Study program:</b> Nursing				
<b>Type and level of study:</b> undergraduate professional studies				
<b>Course:</b> Basics of Surgery with Orthopedics				
<b>Language of instruction:</b> English, Serbian				
<b>Course status:</b> mandatory				
<b>Semester:</b> third year, fifth semester				
<b>ECTS:</b> 5				
<b>Requirement:</b> Basics of Nursing				
<b>Course objective:</b> Acquisition of theoretical knowledge and skills in nursing patients in all surgery branches.				
<b>Course outcome:</b> Students are trained to practically apply the acquired knowledge in all surgical disciplines necessary for acquisition of skills in taking care of surgical patients from an aspect of nursing.				
<b>Course content:</b> <i>Lectures</i> Principles of asepsis and antisepsis; therapy of digestive and endocrine system diseases; therapy of locomotor and endocrine system organ diseases and injuries; therapy of blood and lymph vessel diseases and injuries; therapy of central and peripheral nervous system diseases and injuries; therapy of skin diseases and injuries, principles of reconstructive and aesthetic surgery; therapy of genitourinary tract diseases and injuries; therapy of thoracic cage and lung diseases and injuries; therapy of cardiovascular diseases and injuries, cardiopulmonary bypass; etiopathogenesis, classification and determination of malignant disease stage; specific features of development age surgery, symptomatology and diagnostics of diseases and injuries in childhood period; definition, types and way of organ and tissue transplantations, living donor transplant; organization and medicolegal aspects of organ transplantation; notion of anesthesia and resuscitation, preparation of patients for surgical treatment, types of anesthesia and surgical patient monitoring, post-surgical period patient procedures. <i>Exercises</i> Seeing connection between theoretical basics in surgery and specific features of nursing of patients with digestive and endocrine system injuries. Nursing of patients with locomotor system conditions. Nursing of patients with surgical conditions and injuries of blood and lymph vessels. Nursing of patients with surgical conditions and central and peripheral nervous system injuries. Nursing of patients with burns. Nursing of patients with surgical conditions and genitourinary tract injuries. Nursing of patients with surgical conditions and thoracic cage and lung conditions. Nursing of patients with surgical conditions and heart injuries. Nursing of patients after organ transplantation.				
<b>Literature:</b> <i>Literature in English:</i> 1. Pudner R.: Nursing the Surgical Patient, Elsevier, 2005. 2. Norton J., Barie P.S., Bollinger R.R., Chang A.E., Lowry S., Mulvihill S.J., Pass H.I., Thompson R.W.: Surgery: Basic Science and Clinical Evidence, Springer Publishing Company, New York, 2008. <i>Literature in Serbian:</i> 3. Maksimović Ž.: Hirurgija, udžbenik za studente, CIBID, Beograd, 2008. 4. Stevović D. i sar.: Hirurgija, udžbenik, Savremena administracija, 2001. 5. Domazet N.: udžbenik, Hirurgija sa ortopedijom i traumatologijom, Beograd, 1996. 6. Terzić N.: Zdravstvena nega u hirurgiji, udžbenik, Lazarevac, 2006.				
<b>Number of classes:</b>				
<b>Theoretical lectures</b>	<b>Theoretical exercises</b>	<b>Professional practice</b>	<b>Study research work (Degree Paper...)</b>	<b>Other forms of teaching (individual work with student, projects...)</b>
30	15	0	0	0
<b>Methods of teaching:</b> Lecture agains use of different viedo material, exercises, case studies, exercises on dummy, e-learning				
<b>Grading (maximum 100 points)</b>				
<b>Pre-Exam obligations</b>	<b>Points</b>	<b>Final Exam</b>	<b>Points</b>	
Lecture attendance	3	Exam	40	
Activity	7			
Projects/Seminars	0			
Exercises/professional practice	20			
Colloquiums	30			

**BIOLOGICAL MATERIALS AND LABORATORY TECHNIQUES**

<b>Study program:</b> Nursing				
<b>Type and level of study:</b> undergraduate professional studies				
<b>Course:</b> <b>Biological Materials and Laboratory Techniques</b>				
<b>Language of instruction:</b> English, Serbian				
<b>Course status:</b> elective				
<b>Semester:</b> first year, second semester				
<b>ECTS:</b> 5				
<b>Requirement:</b> no				
<b>Course objective:</b> Familiarization of students with the tasks of the laboratory in clinical diagnostics, familiarization with different biological materials, their extraction, adequate transportation and storage, laboratory result testing in clinical practice.				
<b>Course outcome:</b> Upon the completion of the course, students will possess knowledge of the basics of work in the medical-biochemistry laboratory, possibilities of its functioning and first of all of the types of biological materials, methods of preparing patients for sample collection, adequate sampling (preanalytical variables), ways of sample storage, transportation and processing, impact of medicines on the adequacy of sampling, as well as of the basics of interpreting results of medical-biochemical analysis.				
<b>Course content:</b> <i>Lectures</i> The notion of medical-biochemistry laboratory, clinical chemistry, clinical biochemistry, laboratory medicine, preanalytics, laboratory diagnostics; organization of the provision of laboratory services at primary, secondary and tertiary level; biological materials, their importance and adequate measures in sample collection, storage and transportation; capillary puncture and phlebotomy in standard conditions; blood draw procedure; anticoagulants – different coagulants and other additives used in sample preparation; preanalytical variables, the importance of adequate preparation of the patient and the impact of preanalytical variables on the quality of biological material; the impact of climate on the results of analysis; the impact of medicines on the analysis; types of patient preparation; control of appropriateness of taken samples; result control; basics of interpretation of results of medical-biochemical analysis; basics of laboratory procedure; sound laboratory practice; GMP standard; specific characteristics of sampling of certain categories of patients; specific characteristics of sampling certain types of biological materials; work with potentially contagious patients; ethics and data protection. <i>Exercises</i> Introduction into laboratory diagnostics; organization of work in the laboratory; types of biological materials; medical waste management; ISO15189 Standard; biological material taking and processing; venous and capillary blood draw; preanalytical, analytical and postanalytical stage; biochemical analyses; immunochemical analyses; microbiological sample collection and processing; urine analysis.				
<b>Literature:</b> <i>Literature in English:</i> 1. Morrow A. S.: Diagnostic and Therapeutic Technic: A Manual of Practical Procedures Employed in Diagnosis and Treatment, Forgotten Books, London, 2019. 2. Shankara S.: Laboratory Manual for Practical Biochemistry, Jaypee Brothers, New Delhi, 2018. 3. Guder W. G.: Samples from the patients to the laboratory-the impact of preanalytical variables on the quality of laboratory results, GIT Verlag, Darmschtate, 2001. 4. Senger R. S.: Laboratory Manual of Biochemistry: Methods and Techniques, NIPA, London, 2014. 5. Marshall W. J., Bangert S. K.: Clinical Chemistry, Mosby, Edinburgh, 2004. <i>Literature in Serbian:</i> 6. Ubavić M.: Interpretacija najčešćih laboratorijskih analiza i uticaj lekova na njih, udžbenik, Omega MS Pharmacy, Novi Sad, 2017.				
<b>Number of classes:</b>				
<b>Theoretical lectures</b>	<b>Theoretical exercises</b>	<b>Professional practice</b>	<b>Study research work (Degree Paper...)</b>	<b>Other forms of teaching (individual work with student, projects...)</b>
30	30	0	0	0
<b>Methods of teaching:</b> Lecture, agains use of different video material, exercises, case studies, exercises on dummy, e-learning				
<b>Grading (maximum 100 points)</b>				
<b>Pre-Exam obligations</b>		<b>Points</b>	<b>Final Exam</b>	<b>Points</b>
Lecture attendance		3	Exam	40
Activity		7		
Projects/Seminars		0		

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Exercises/professional practice	20		
Colloquiums	30		

**BUSINESS COMMUNICATION SKILLS**

<b>Study program:</b> Nursing				
<b>Type and level of study:</b> undergraduate professional studies				
<b>Course:</b> Business Communication Skills				
<b>Language of instruction:</b> English, Serbian				
<b>Course status:</b> elective				
<b>Semester:</b> first year, first semester				
<b>ECTS:</b> 5				
<b>Requirement:</b> no				
<b>Course objective:</b> With his/her active participation in the learning process, student should acquire knowledge in the area of communications in order to acquire communication competency and skills required for professional work in nursing and treatment of senior citizens, organizational and team communication and in communication with social partners.				
<b>Course outcome:</b> At the end of the course student should be capable to apply the acquired knowledge in communication skills and to practically implement the acquired knowledge and skills within nursing.				
<b>Course content:</b> <i>Lectures</i> General notions, aspects, types, parts of communication; communication competency in professional work; barriers in communication; specific characteristics of communication with elderly persons; importance of verbal and non-verbal communication with elderly persons; specific features of application of communication health care education methods with elderly persons; communication and health care educational counselling – supporting methods; first contact establishing and talking with patients; specific features and communication with persons with sensory perception disorders; ethics in communication; political and social correctness in communication; professional identity and communication; communication styles; emotional communication, empathy; communication as social support; communication and pathological distress in nursing elderly persons and in palliative care; therapy and informational communication; psychological-social aspect of communication; communication with persons under stress and in crisis; communication with persons of diminished sensory and verbal abilities; communication with families of elderly persons; communication in grievance; interpersonal communication; team work and social partners; public relations of organization with an aim of reaching mutual understanding and attaining common interests; communication in crisis situations; managing conflicts and their understanding. <i>Exercises</i> Aspects of communication. Verbal and non-verbal communication with the old. Empathy. Ethical principles. Creative workshops of exercising methods of verbal communication: speaking, listening, reading, writing. Non-verbal communication.. Specific aspects of communication with patients with sensory perception disorders. Team work. Therapy and informational communication. Implementation of health care educational methods with old persons. Managing conflicts and their solution. Application of SOLER technique. Communication and psychological distress in palliative care. Procedures in grievance period.				
<b>Literature:</b> <i>Literature in English:</i> 1. Hugman B.: Healthcare Communication, textbook, Pharmaceutical Press, London, 2009. 2. Lloyd M., Bor R., Noble L.: Clinical Communication Skills for Medicine, textbook, Elsevier, New York, 2018. <i>Literature in Serbian:</i> 3. Kekuš D.: Komunikacije u profesionalnoj praksi zdravstvenih radnika, udžbenik, Beograd, 2010. 4. Kekuš D.: Modeli integrisanih komunikacija u zdravstvu, udžbenik, Fakultet organizacionih nauka, Beogradu, 2009.				
<b>Number of classes:</b>				
<b>Theoretical lectures</b>	<b>Theoretical exercises</b>	<b>Professional practice</b>	<b>Study research work (Degree Paper...)</b>	<b>Other forms of teaching (individual work with student, projects...)</b>
30	30	0	0	0
<b>Methods of teaching:</b> lectures, exercises, work in small groups, exercises in methodic, seminar papers, presentation to the group, method of practical activities of students.				
<b>Grading (maximum 100 points)</b>				
<b>Pre-Exam obligations</b>		<b>Points</b>	<b>Final Exam</b>	<b>Points</b>
Lecture attendance		3	Exam	30
Activity		7		
Projects/Seminars		0		
Exercises/professional practice		40		
Colloquiums		20		

**BUSINESS ENGLISH**

<b>Study program:</b> Nursing				
<b>Type and level of study:</b> undergraduate professional studies				
<b>Course:</b> <b>Business English</b>				
<b>Language of instruction:</b> English, Serbian				
<b>Course status:</b> elective				
<b>Semester:</b> third year, fifth semester				
<b>ECTS:</b> 5				
<b>Requirement:</b> no				
<b>Course objective:</b> Course objective is familiarization with characteristics of the English language, adoption of phrases and patterns necessary for communication at professional level and adoption of techniques of written and oral expressing in professional communication.				
<b>Course outcome:</b> Students will be able to apply the acquired knowledge in professional communication, create corresponding written forms in accordance with their professional communication and use speech patterns appropriate to a given situation.				
<b>Course content:</b> <i>Lectures</i> Broadening of knowledge on past tenses, dependent and relative clauses; temporal conjunctions and temporal clause structure; historical and biographical texts; topics: health, connections and common life in English-speaking countries; extension of knowledge on future tenses, use of subjunctive, conjunctions, and relative clause structure; topics: sport, environment protections and business life in English-speaking countries; medical terminology relevant for student's profession. <i>Exercises</i> Students are taught to communicate in different situations (at doctor's, with service providers etc.), to seek and give information on the phone, to make bookings, to communicate in conflict situations, to express their views and feelings, to give accounts orally and in writing of past events through adequate use of past tenses and temporal conjunctions; students are taught to express their opinion orally and in writing on current topics, to participate in discussions, to independently present certain topics, to give reports on personal experience and to ask others on their experience.				
<b>Literature:</b> <i>Literature in English:</i> 1. MacLean J.: English in Basic Medical Science, textbook, Oxford University Press, Oxford, 2000. Murphy R.: English Grammar in Use, Cambridge University Press, Cambridge, 2014. 2. McCarthy M., O'Dell F.: English Vocabulary in Use, Cambridge University Press, Cambridge, 2006. 3. Hornby A. S.: Oxford Advanced Learner's Dictionary of Current English, Oxford University Press, Oxford, 2008. 4. Evans V., Dooley J., Tran T. M.: Career Paths, Medical Book 1, udžbenik, Express Publishing, Berkshire, 2018. <i>Literature in Serbian:</i> 5. Dragović R.: Engleski za zdravstvene radnike, udžbenik, Naučna knjiga, Beograd, 2004.				
<b>Number of classes:</b>				
<b>Theoretical lectures</b>	<b>Theoretical exercises</b>	<b>Professional practice</b>	<b>Study research work (Degree Paper...)</b>	<b>Other forms of teaching (individual work with student, projects...)</b>
30	30	0	0	0
<b>Methods of teaching:</b> lectures, practical exercises, communication, e-learning.				
<b>Grading (maximum 100 points)</b>				
<b>Pre-Exam obligations</b>	<b>Points</b>	<b>Final Exam</b>	<b>Points</b>	
Lecture attendance	3	Exam	30	
Activity	7			
Projects/Seminars	0			
Exercises/professional practice	40			
Colloquiums	20			

**BUSINESS GERMAN**

<b>Study program:</b> Nursing				
<b>Type and level of study:</b> undergraduate professional studies				
<b>Course:</b> Business German				
<b>Language of instruction:</b> English, Serbian				
<b>Course status:</b> elective				
<b>Semester:</b> third year, fifth semester				
<b>ECTS:</b> 5				
<b>Requirement:</b> no				
<b>Course objective:</b> Course objective is familiarization with characteristics of the German language, adoption of phrases and patterns necessary for communication at professional level and adoption of techniques of written and oral expressing in professional communication.				
<b>Course outcome:</b> Students will be able to apply the acquired knowledge in professional communication, create corresponding written forms in accordance with their professional communication and use speech patterns appropriate to a given situation.				
<b>Course content:</b> <i>Lectures</i> Broadening of knowledge on past tenses, dependent and relative clauses; temporal conjunctions and temporal clause structure; historical and biographical texts; topics: health, connections and common life in German-speaking countries; extension of knowledge on future tenses, use of subjunctive, conjunctions, and relative clause structure; topics: sport, environment protections and business life in German-speaking countries; medical terminology relevant for student's profession. <i>Exercises</i> Students are taught to communicate in different situations (at doctor's, with service providers etc.), to seek and give information on the phone, to make bookings, to communicate in conflict situations, to express their views and feelings, to give accounts orally and in writing of past events through adequate use of past tenses and temporal conjunctions; students are taught to express their opinion orally and in writing on current topics, to participate in discussions, to independently present certain topics, to give reports on personal experience and to ask others on their experience.				
<b>Literature:</b> <i>Literature in English:</i> 1. Grammatik - Ganz klar Übungsgrammatik A1-B1, uz audio materijal, Hueber Verlag, kratak pregled gramatike sa vežbanjima „Hallo aber Deutsch“. 2. Nikolovski V.: Gramatička vežbanja „Eine kleine Übungsgrammatik“, Zavod za udžbenike i nastavna sredstva, Schritte international 1, Grammatikspiele. 3. <a href="http://www.hueber">www.hueber</a> 4. <a href="http://www.schubert">www.schubert</a> 5. <a href="http://www.lingolia">www.lingolia</a> <i>Literature in Serbian:</i> 6. Menschen A1 KB und Menschen A1 AB, udžbenik (video materijal: <a href="http://matifmarin.blogspot.rs/p/menschen-film-stationen-clips.html">http://matifmarin.blogspot.rs/p/menschen-film-stationen-clips.html</a> ), Klett Verlag, Stuttgart, 2018. 7. Pude E. A., Specht F.: Menschen, Deutsch als Fremdsprache Kursbuch mit DVD-ROM, udžbenik, Hueber Verlag, Munchen, Deutschland, 2012. 8. Loibl B. et al.: Schritte Plus im Beruf, Kommunikation am Arbeitsplatz, Max Hueber Verlag, Ismaning. Deutschland, 2015. 9. Vučković-Stojanović M.: Uvod u nemački poslovni jezik. Beograd: Savremena administracija, 2005. 10. Becker N., Braunert J.: Alltag, Beruf, Kursbuch+Arbeitsbuch, Max Hueber Verlag, Ismaning, 2009. 11. Becker N., Braunert J., Schlenker W.: Unternehmen Deutsch Grundkurs. Kursbuch, Klett Verlag, Stuttgart, 2005. 12. Becker N., Braunert J.: Unternehmen Deutsch Grundkurs, Arbeitsbuch, KlettVerlag, Stuttgart, 2004. 13. <a href="https://www.hueber.de/seite/pg_lernen_lerner_dvd_mns">https://www.hueber.de/seite/pg_lernen_lerner_dvd_mns</a> , knjiga i link. 14. <a href="https://www.hueber.de/seite/pg_lernen_uebungen_mns">https://www.hueber.de/seite/pg_lernen_uebungen_mns</a> , dodatne on line vežbe.				
<b>Number of classes:</b>				
<b>Theoretical lectures</b>	<b>Theoretical exercises</b>	<b>Professional practice</b>	<b>Study research work (Degree Paper...)</b>	<b>Other forms of teaching (individual work with student, projects...)</b>
30	30	0	0	0
<b>Methods of teaching:</b> lectures, practical exercises, communication, e-learning.				
<b>Grading (maximum 100 points)</b>				
<b>Pre-Exam obligations</b>	<b>Points</b>	<b>Final Exam</b>	<b>Points</b>	
Lecture attendance	3	Exam	30	

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Activity	7		
Projects/Seminars	0		
Exercises/professional practice	40		
Colloquiums	20		

**CHILD AND ADOLESCENT NURSING IN PEDIATRICS**

<b>Study program:</b> Nursing				
<b>Type and level of study:</b> undergraduate professional studies				
<b>Course:</b> <b>Child and Adolescent Nursing in Pediatrics</b>				
<b>Language of instruction:</b> English, Serbian				
<b>Course status:</b> mandatory				
<b>Semester:</b> second year, fourth semester				
<b>ECTS:</b> 6				
<b>Requirement:</b> Basics of Nursing, Basics of Pediatrics				
<b>Course objective:</b> Familiarizing students with medically healthy and sick children and pediatric treatment process; familiarizing with the role of therapist in pediatrics; analyses of studies and planning requirements in pediatric nursing of patients for individuals and groups; understanding the importance of inclusion of parents in child nursing; improvement of abilities for successful communication with children receiving treatment, parents and members of medical team; motivating students to seek creative solutions to problems in nursing process.				
<b>Course outcome:</b> Upon the completion of the course students will improve therapy communication; they will get to know and understand nursing interventions in the area of pediatric nursing; understanding ethical principles, parents' nursing; ability to recognize emergencies and possible complications in children in life-threatening conditions; improved critical analysis of literature for seminar paper preparation and individual patient case studies.				
<b>Course content:</b> <i>Lectures</i> Nurse intervention in prenatal diagnostics; specific features of nursing of children with inborn errors of metabolism; specific features of nursing in neonatology; nursing intervention in monitoring growth and development; basic principles of nutrition of healthy and sick children; specific features of nursing of children with nutrition disorders; specific features of nursing of children with endocrine diseases; specific features of nursing in pediatric gastroenterology; specific features of nursing in pediatric pulmonary wards; specific features of nursing in pediatric cardiology wards; specific features of nursing in pediatric immunology wards; specific features of nursing in pediatric hematology wards; specific features of nursing in neuropediatric wards; specific features of nursing in pediatric nephrology wards; specific features of nursing of adolescents; specific features of nursing of children after poisoning; nurse intervention during child reanimation and in most frequent emergency conditions in pediatrics. <i>Exercises</i> Nurse interventions in nursing healthy newborn. Natural nutrition – breastfeeding and breastfeeding technique. Nurse interventions in nursing infants, nutrition in infant's first year. Nurse interventions in nursing sick newborn. Prevention and fighting intrahospital infections. Nurse interventions – diagnostic and therapeutic procedures in neonatology. Nurse interventions – nursing children with nutrition disorders. Nurse interventions – enteral and parenteral feeding. Nurse interventions – children with cardiovascular system diseases. Nurse interventions – children with kidney and urinary tract diseases. Nurse interventions – children with blood disorders. Nurse interventions – children with gastrointestinal tract and liver diseases. Nurse interventions – children with respiratory system diseases. Nurse interventions – children suffering from diabetes mellitus. Nurse interventions – children with immunology disorders, allergy and rheumatic diseases. Nurse interventions – children with CNS diseases. Nurse interventions – children with genetic disorders. Nurse interventions – critically ill children. Nurse interventions – intoxications.				
<b>Literature:</b> <i>Literature in English:</i> 1. Kliegman R. M., Jenson H. B., Behrman R. E.: Nelson Textbook of Pediatrics, Saunders, New York, 2007 2. Aruchamy L.: Practical Pediatrics Paperback, Jaypee, New Jersey, 2020. 3. Datta P.: Pediatric Nursing, textbook, Jaypee Brothers Medical Publishers, New Jersey, 2018. <i>Literature in Serbian:</i> 4. Jovanović Privrodski J.: Pedijatrija, udžbenik, Medicinski fakultet, Novi Sad, 2012. 5. Mardešić D.: Pedatrija, udžbenik, Školska knjiga, Zagreb, 2003. 6. Marinković Lj.: Zdravstvena nega u pedijatriji, udžbenik, G.A.D., Beograd, 2007. 7. Janković B.: Vodič osnovno i specijalizovano zbrinjavanje novorođenčeta, Institut za zdravstvenu zaštitu majke i deteta Srbije "Dr Vukan Čupić", Beograd, 2011. 8. Berman R., Kligman R., Dženson H., Nelson N.: Udžbenik pedijatrije, Bard-Fin, Beograd, 2009. 9. Felc Z.: Osnove neonatologije, udžbenik, Fakulteta za zdravstvene vede, Maribor, 2008.				
<b>Number of classes:</b>				
<b>Theoretical lectures</b>	<b>Theoretical exercises</b>	<b>Professional practice</b>	<b>Study research work (Degree Paper...)</b>	<b>Other forms of teaching (individual work with student, projects...)</b>
30	15	240	0	0

<b>Methods of teaching:</b> lectures against use of different video materials, exercises, case studies, discussion, exercises on dummy, clinical practice.			
<b>Grading (maximum 100 points)</b>			
<b>Pre-Exam obligations</b>	<b>Points</b>	<b>Final Exam</b>	<b>Points</b>
Lecture attendance	3	Exam	30
Activity	7		
Projects/Seminars	0		
Exercises/professional practice	40		
Colloquiums	20		

**DEGREE PAPER**

<b>Study program:</b> Nursing				
<b>Type and level of study:</b> undergraduate professional studies				
<b>Course:</b> Degree Paper				
<b>Language of instruction:</b> English, Serbian				
<b>Course status:</b> mandatory				
<b>Semester:</b> third year, sixth semester				
<b>ECTS:</b> 10				
<b>Requirement:</b> passed all exams in 1 <sup>st</sup> -3 <sup>rd</sup> year				
<b>Course objective:</b> The objective is to train students to apply basic, academic general-education, specialist and specialist-applicative knowledge and methods in solving specific issues within Degree Paper topic. Within the Degree Paper, students, examining the available literature or through work in a health care institution or laboratory, or by statistical data analysis, deal with an issue, its structure and complexity and on the basis of the analyses made draw conclusions on possible ways of its solving. Students are also trained in writing the Degree Paper, presenting it within the set deadline and discuss the Paper with specialists in the relevant area.				
<b>Course outcome:</b> On the basis of knowledge and skills acquired in the course of their studies, students are able to do the paper in a health care institution or laboratory or to bibliographically collect specialist literature, write the paper and present it before the relevant board.				
<b>Course content:</b> Degree paper presents a specialist or research work of a student in which he/she familiarizes with the research methodology in all areas of importance for health care. The paper topic may be experimental or bibliographical. Upon the conducted research, student prepares his/her degree paper in the form containing the following chapters: introduction, theoretical part, paper methodology, results and discussion, conclusion, abbreviations (optional), enclosures (optional), literature, candidate CV, key documentation information. Paper defense consists of oral presentation of the paper by the student, asking questions by defense board members and student's answer to those questions.				
<b>Number of classes:</b>				
<b>Theoretical lectures</b>	<b>Theoretical exercises</b>	<b>Professional practice</b>	<b>Study research work (Degree Paper...)</b>	<b>Other forms of teaching (individual work with student, projects...)</b>
0	0	0	300	0
<b>Methods of teaching:</b> In the course of degree paper writing, mentor gives necessary instructions to the student, directs him/her to relevant literature, assists student in the selection of research methods, in the analysis and processing of the obtained results, in drawing appropriate conclusions etc. Within this part of work on degree paper student has additional consultations with the mentor and, if necessary, with other teachers dealing with matters in the area of degree paper topic as well. If the paper relates to a health care institution, it is necessary to obtain approval of the institution.				
<b>Grade (maximum number of points is 100):</b> Degree Paper grade is a total of points obtained for: <ul style="list-style-type: none"> <li>- writing the paper, 20 points;</li> <li>- paper subject matter, 30 points;</li> <li>- paper presentation at its defense, 20 points;</li> <li>- answers to questions of Defense Board members within Degree Paper defense, 30 points (3 x 10, three Board members).</li> </ul>				

## DIAGNOSTICALLY-THERAPEUTIC PROGRAM

<b>Study program:</b>	Nursing			
<b>Type and level of study:</b>	undergraduate professional studies			
<b>Course:</b>	<b>Diagnostically-Therapeutic Program</b>			
<b>Language of instruction:</b>	English, Serbian			
<b>Course status:</b>	mandatory			
<b>Semester:</b>	second year, fourth semester			
<b>ECTS:</b>	5			
<b>Requirement:</b>	Pathophysiology			
<b>Course objective:</b>	Familiarizing students with laboratory tasks in clinical diagnostics, various biological materials, their extraction, correct transport and storage, methods of their testing in clinical practice, as well as with basic notions relating to result interpretation.			
<b>Course outcome:</b>	Upon the completion of the course student will be trained in the basics of work in medical-biochemical laboratory, its possibilities and, most importantly, with the types of biological materials, ways of patient preparation for sample taking/giving, correct sampling (preanalytical variables), manner of sample storage, transport and processing, impact of drugs on sampling correctness, as well as with basics of interpretation of results of medical-biochemical analysis.			
<b>Course content:</b>	<p><i>Lectures</i></p> <p>Notion of medical-biochemical laboratory, clinical chemistry, clinical biochemistry, laboratory medicine, preanalytics, laboratory diagnostics; organization of laboratory service at primary, secondary and tertiary level; biological materials, their importance and appropriate measures for sample taking, storing and transport; capillary puncture and phlebotomy under standard conditions; venipuncture procedure; anticoagulants – different coagulants and other additives for sample preparation; preanalytical variables, importance of appropriate preparation of patient and impact of preanalytical variables on the quality of biological material; impact of climate on test results; impact of drugs on analysis; types of patient preparation; sample control; result control; basics of interpretation of medical-biochemical analysis; basics of laboratory procedure; good laboratory practice; GMP standard; specific features of sampling certain categories of patients; specific features of sampling certain types of biological materials; work with potentially infectious patients; ethics and data protection.</p> <p><i>Exercises</i></p> <p>Introduction into laboratory diagnostics. Organization of laboratory work. Types of biological materials. Medical waste management; Standard ISO 15189. Biological material taking and processing. Venous and capillary blood taking. Preanalytical, analytical and postanalytical phase. Biochemical analyses. Immunochemical analyses. Microbiological sample taking and processing. Urinalysis.</p>			
<b>Literature:</b>	<p><i>Literature in English:</i></p> <ol style="list-style-type: none"> <li>Guder Samples W. G.: From the patients to the laboratory-the impact of preanalytical variables on the quality of laboratory results, textbook, GIT Verlag, Darmschtate, 2001.</li> <li>Marshall W. J., Bangert S.K.: Clinical Chemistry, Edinburgh Mosby, Edinburgh, 2004.</li> </ol> <p><i>Literature in Serbian:</i></p> <ol style="list-style-type: none"> <li>Ubavić M.: Interpretacija najčešćih laboratorijskih analiza i uticaj lekova na njih, udžbenik, Novi Sad, 2017.</li> <li>Kladnik J. B.: Farmakologija, udžbenik, Visoka zdravstvena škola univerziteta u Mariboru, Maribor, 2006.</li> </ol>			
<b>Number of classes:</b>				
<b>Theoretical lectures</b>	<b>Theoretical exercises</b>	<b>Professional practice</b>	<b>Study research work (Degree Paper...)</b>	<b>Other forms of teaching (individual work with student, projects...)</b>
30	30	315	0	0
<b>Methods of teaching:</b>				
lectures against use of different video material, exercises, case study, discussion, clinical practice				
<b>Grading (maximum 100 points)</b>				
<b>Pre-Exam obligations</b>	<b>Points</b>	<b>Final Exam</b>	<b>Points</b>	
Lecture attendance	3	Exam	30	
Activity	7			
Projects/Seminars	0			
Exercises/professional practice	40			
Colloquiums	20			

**DIETARY ISSUES AND NUTRITION OF INPATIENTS**

<b>Study program:</b> Nursing				
<b>Type and level of study:</b> undergraduate professional studies				
<b>Course:</b> Dietary Issues and Nutrition of Inpatients				
<b>Language of instruction:</b> English, Serbian				
<b>Course status:</b> elective				
<b>Semester:</b> second year, third semester				
<b>ECTS:</b> 5				
<b>Requirement:</b> no				
<b>Course objective:</b> The course should enable student to acquire knowledge on specific forms of nutrition of certain groups of patients, familiarization with biological valued of certain nutritional components and planning nutrition in line with physiological needs.				
<b>Course outcome:</b> Upon the completion of the course student should be able to assess the status of nourishment of individuals and population groups and to determine diets depending on the specific features of consuming groups.				
<b>Course content:</b> <i>Lectures</i> Familiarization with appropriate diet. Preventive clinical approach to appropriate nutrition, familiarization with method of evaluation of nutritional status. Measures in nutrition evaluation and improvement. Health aspects of nutritional disorders, nutritional deficits and diseases caused by excessive food intake. Nutrition in specific circumstances. Nutrition and health, importance of appropriate nutrition on certain stages of organism development, principles of appropriate nutrition, standards. Metabolism, need for and biochemical function of nutritional and protective components (proteins, lipids, carbohydrates, minerals, oligoelements, vitamins). Diseases caused by inadequate nutrition. Principles of adequate nutrition and population education. Nutrition as a cause of disease and pathological factor. Principles of control of food safety and quality. Basics of medical nutritional therapy and education of patients. Sanitary control of facilities, employees, food staples and prepared food. <i>Exercises</i> Principles of nutrition in public places (nurseries, pre-school and school cafeterias, student dormitories, senior citizen institutions, public institution restaurants). Nutrition in hospitals, rehabilitation institutions, recreational centres, tourist and sports facilities. Principles of adequate nutrition and population education. Nutrition as a cause of a disease and pathological factors. Principles of food safety and quality control. Basics of medical nutritional therapy and education of patients. Nutrition of patients in hospital and non-hospital institutions and types of diet. Parenteral nutrition. Nutrition of children and the youth, pregnant and breastfeeding women and elderly persons. Obesity and undernutrition. Exercises, among other things, include drawing up nutrition plans for designated groups of patients practical classes.				
<b>Literature:</b> <i>Literature in English:</i> 1. Nelms M., Long Roth S.: Medical Nutrition Therapy: A Case Study Approach, Cengage Learning, Boston, 2013. <i>Literature in Serbian:</i> 2. Novaković B., Miroslavljev M., Jevtić M.: Higijena ishrane, udžbenik, Medicinski fakultet, Novi Sad, 2005. 3. Grujić R.: Nauka o ishrani čovjeka, TEMPUS, Banja Luka, 2006. 4. Ministarstvo zdravlja Republike Srbije: Vodič dobre prakseu oblasti sanitarnog nadzora, Beograd, 2005.				
<b>Number of classes:</b>				
<b>Theoretical lectures</b>	<b>Theoretical exercises</b>	<b>Professional practice</b>	<b>Study research work (Degree Paper...)</b>	<b>Other forms of teaching (individual work with student, projects...)</b>
30	30	0	0	0
<b>Methods of teaching:</b> lectures against use of different video material, exercises, workshops, simulation, discussions, e-learning.				
<b>Grading (maximum 100 points)</b>				
<b>Pre-Exam commitments</b>		<b>Points</b>	<b>Final Exam</b>	<b>Points</b>
Lecture attendance		3	exam	30
Activity		7		
Projects/Seminars		0		
Exercises/professional practice		30		
Colloquiums/exam		30		

## EMERGENCY MEDICINE AND NURSING IN SPECIAL CONDITIONS

<b>Study program:</b>	Nursing
<b>Type and level of study:</b>	undergraduate professional studies
<b>Course:</b>	<b>Emergency Medicine and Nursing in Special Conditions</b>
<b>Language of instruction:</b>	English, Serbian
<b>Course status:</b>	mandatory
<b>Semester:</b>	third year, fifth semester
<b>ECTS:</b>	6
<b>Requirement:</b>	Basics of Nursing
<b>Course objective:</b>	Students are familiarized with prehospital and initial hospital organization and care of emergency and critical conditions in medicine, basic and extended measures of cardiopulmonary resuscitation. It is necessary to familiarize students with stages in determining the abrupt death and care of not only the dead person, but also of those left behind, as well as of a positive impact on friends and family. Possession of skills for practical application of the acquired knowledge in practice. Development of critical thinking.
<b>Course outcome:</b>	Familiarization of students with prehospital and initial hospital organization and care of emergency and critical conditions in medicine. Familiarization of students with mistakes that might happen during provision of care in emergency medical practice. Responsibilities of doctors in case of occurrence of abrupt death. Administration of medication and application of sophisticated technologies in emergency medicine and possibilities of their application in research work. Knowing how to apply basic and extended measures of cardiopulmonary resuscitation (in adults and children), basic and extended measures and procedures in taking care of injured persons (adults and children). Exercises are carried out on dummies and patients, as well as through presentations of possible medical cases with question, answers and discussion.
<b>Course content:</b>	<p><i>Lectures</i></p> <p>Principles of emergency medicine; evaluation of vital functions; pain as the fifth vital parameter; evaluation, maintenance and opening airway; artificial ventilation; acute chest pain (evaluation and care); acute coronary syndromes; cardiogenic shock; syncope; emergency states in vascular medicine (dissection, rupture, acute occlusions, deep vein thrombosis, embolies); peri-arrest arrhythmias (tachyarrhythmiae, bradyarrhythmiae); hypertensive emergencies; acute cardiac arrest; basic and extended measures of cardiopulmonary resuscitation in adults and children; death case – stages of determining abrupt death, communication with family; medicolegal aspects of emergency medicine; acute peripheral artery ischemia; acute active bleeding; hypovolemic shock; volume resuscitation; anaphylactic shock; respiratory insufficiency; acute affixion (identification signs, initial care); acute intracranial/spinal compression; acute intestinal obstruction; acute urinary obstruction; epilepsy and convulsions; delirium and acute confused states; acute headache; ischemic stroke; transitory ischemic attack; subarachnoid hemorrhage; increased body temperature in children; dehydrated child; trauma – heavy isolated and heavy multiple; prehospital primary examination (ABCDE principle) and stabilization at injury infliction site; prehospital care during transport; initial hospital care; acute poisoning.</p> <p><i>Exercises</i></p> <p>Evaluation and maintenance of airway – exercises on dummy. Side relaxing position – exercises on dummy. Mechanical devices and airway opening. Bolus obstruction in adults and children – exercises on dummy. Difficult airway. Artificial ventilation methods – exercises on dummy. Intravascular accesses (peripheral venous, central venous, intraosseous) – exercises on dummy. Volume compensation infusion solutions. Vasoactive, inotropic and antiarrhythmic drugs as initial pharmacotherapy in emergency states (methods of administration, preparation, dosage, indications). Basic CPR measures in adults and children – exercises on dummy; ECG forms of cardiac arrest and ECG recognition of peri-arrest arrhythmia; early defibrillation (types of defibrillator, indications). Cardioversion. Transcutaneous cardiac pacing – exercises on dummy. Extended measures of CPR in children and adults – exercises on dummy. Cardiac arrest pharmacotherapy (types of medication, methods of administration). Asystole algorithm – exercises on dummy. Therapy algorithm of pulseless electrical activity – exercises on dummy. Therapy algorithm of ventricular fibrillation and ventricular tachycardia without pulse – exercises on dummy. Simulations of cardiac arrest and CPR in children and adults. Simulations of peri-arrest arrhythmia and care. External compression, compression bandage. MAST application. Nasogastric intubation. Urinary bladder catheterization. Anterior and posterior epistaxis. Needle thoracostomy. Decompressive needle pericardiocentesis – exercises on dummy. Multiple trauma simulations: primary ABCDE and secondary examination. Multiple trauma simulation – point system in diagnosis and assessment of outcomes of the traumatized. Sedation and analgesia (indications, types of medication and methods of administering). Familiarization with pre-hospital care. Institute of Emergency Medical Aid. Familiarization with contents of initial hospital care in emergency clinic.</p>
<b>Literature:</b>	<p><i>Literature in English:</i></p> <ol style="list-style-type: none"> <li>Advanced First Aid, CPR, and AED, American Academy of Orthopaedic Surgeons (AAOS), Jones &amp; Bartlett Learning, 2017.</li> </ol>

2. Cydulka R., Cline D., Ma O. J., Fitch M., Joing S., Wang V.: Tintinalli's Emergency Medicine Manual, textbook, McGraw-Hill Education, New York, 2017.
3. Hammond B. B., Zimmermann P. G.: Sheehy's Manual of Emergency Care: Sheehy's Manual of Emergency Care, textbook, Mosby, London, 2012.
4. Carsten Lott i sar.: Advanced life support course manual, European resuscitation council, ERC guidelines 2015.

*Literature in Serbian:*

5. Kalezić N. i sar.: Inicijalni tretman urgentnih stanja u medicini, udžbenik, Medicinski fakultet, Beograd, 2016.
6. Vučović D.: Urgentna medicina, udžbenik, Obeležja, Beograd, 2002.
7. Pavlović A.: Kardiopulmonalno cerebralna reanimacija, Obeležja, Beograd, 2004.
8. Newton C. R. H., Khare R. K.: Urgentna medicina, Besjeda, Banja Luka, 2007.

**Number of classes:**

Theoretical lectures	Theoretical exercises	Professional practice	Study research work (Degree Paper...)	Other forms of teaching (individual work with student, projects...)
30	30	240	0	0

**Methods of teaching:**

lectures, exercises, case studies, discussion, e-learning, clinical practice.

**Grading (maximum 100 points)**

Pre-Exam obligations	Points	Final Exam	Points
Lecture attendance	3	Exam	30
Activity	7		
Projects/Seminars	0		
Exercises/professional practice	40		
Colloquiums	20		

**ETHICS IN HEALTH CARE**

<b>Study program:</b> Nursing				
<b>Type and level of study:</b> undergraduate professional studies				
<b>Course:</b> <b>Ethics in Health Care</b>				
<b>Language of instruction:</b> English, Serbian				
<b>Course status:</b> mandatory				
<b>Semester:</b> first year, first semester				
<b>ECTS:</b> 5				
<b>Requirement:</b> no				
<b>Course objective:</b> Acquisition of basics of applied medicine ethics, understanding practical importance of ethics and recognizing differences between ethical and legal issues, development of critical thinking in the process of ethical analysis, understanding national, European and international legal regulations, knowing rights and responsibilities in health protection, health insurance, as well as knowing rights and responsibilities of providers of medical services, their beneficiaries and of the third party.				
<b>Course outcome:</b> After passing the exam, students will be able to critically think on normative and ethical principles, they will know the difference between legal and ethical issues, be able to make critical judgements at provision of health care services if they include moral duties and will be able to understand laws regulating aspects of health care activities, rights and responsibilities of health care professionals, patients and the third party.				
<b>Course content:</b> <i>Lectures</i> Normative ethics in medicine; ethical principles of importance for health care professionals; theories of medical ethics; ethical norms in medical practice; ethical case studies in health care practice, moral values, misjudgment; mistakes in practice, moral and criminal liability of health care professionals; ethical judgement in observance of moral values and rights of patients; non-observance of codified principles; ethics in preclinical and clinical studies (basics); ethics committee; European and international regulations; national health care policy; Serbian Medical Chamber; medical license; court of honor. <i>Exercises</i> Analysis and discussion on case studies (information and data generation and critical assessment). Problem-based learning (problem-solving with appropriate explanation of ethical concept and legal framework). Panel discussions, application of ethics and laws in current issues (drug testing, suicide, placebo, euthanasia, keeping confidential information on patient and medicine).				
<b>Literature:</b> <i>Literature in English:</i> 1. Fregmen B. F.: Medical Law and Ethics, textbook, Prentice Hall, New Jersey, 2011. <i>Literature in Serbian:</i> 2. Marić J.: Medicinska etika, autorsko izdanje, Beograd, 2008. 3. Lazarević A.: Socijalna medicina, autorsko izdanje, 2005. 4. ICN regulativa i regulativa EU koje se odnose na sve aspekte leka, zdravstvenog osiguranja i prava i obaveza u pružanju zdravstvene zaštite, 2012. 5. Zakoni i podzakonska akta Republike Srbije iz oblasti zdravstva.				
<b>Number of classes:</b>				
<b>Theoretical lectures</b>	<b>Theoretical exercises</b>	<b>Professional practice</b>	<b>Study research work (Degree Paper...)</b>	<b>Other forms of teaching (individual work with student, projects...)</b>
30	30	0	0	0
<b>Methods of teaching:</b> lectures, workshops, case study, problem-based learning, exercises				
<b>Grading (maximum 100 points)</b>				
<b>Pre-Exam obligations</b>		<b>Points</b>	<b>Final Exam</b>	<b>Points</b>
Lecture attendance		3	Exam	40
Activity		7		
Projects/Seminars		0		
Exercises/professional practice		20		
Colloquiums		30		

**FIRST AID**

<b>Study program:</b> Nursing				
<b>Type and level of study:</b> undergraduate professional studies				
<b>Course:</b> First Aid				
<b>Language of instruction:</b> English, Serbian				
<b>Course status:</b> mandatory				
<b>Semester:</b> second year, third semester				
<b>ECTS:</b> 5				
<b>Requirement:</b> no				
<b>Course objective:</b> Principal goals of first aid education is familiarization of students with principles of initial care of suddenly injured or fallen ill persons, acquisition of skills for practical application of the acquired knowledge in practice, immediate life-saving care of a casualty, other persons, to preserve the environment and to improve protection from further injuries and hazards.				
<b>Course outcome:</b> Familiarization of students with the forms of sudden ailments and injuries and methods of prompt and immediate care; skills in examination and prompt recognition of signs and symptoms in sick or injured persons requiring immediate and urgent care.				
<b>Course content:</b> <i>Lectures</i> Examination and triage of the injured; evacuation of the injured (taking out, carrying out and transport); assessment of vital functions and state of consciousness; airway opening and keeping; bolus obstruction – partial, total, procedure algorithm in adults and children; artificial respiration – expiratory airflow; recovery positions of abruptly injured or sick person (side – relaxing, semi-side, stomach, semi-laying, semi-sitting, sitting, knee-elbow, kneeling, autotransfusion); cardiac arrest – identification and resuscitation measures in adults and children; application of semiautomated external defibrillators (AED); procedure algorithm – basic resuscitation measures in adults and children; bleeding – identification and procedures in external and internal bleeding; traumatic amputation care procedure; open injuries (wounds) – care; bone and joint system injuries (notion, types); temporary immobilization; head and vertebral column injuries; thoracic rib and stomach injuries; care procedures; complications and their prevention; injuries caused by heat and electricity, care; injuries caused by the cold, care; specific injuries, diseases and conditions, care. <i>Exercises</i> Examination and triage of the injured. Evacuation of the injured (taking out, carrying out and transport). Assessment of vital functions and state of consciousness. Airway opening and keeping. Bolus obstruction – partial, total, procedure algorithm in adults and children. Artificial respiration – expiratory airflow. Recovery positions of abruptly injured or sick person (side – relaxing, semi-side, stomach, semi-laying, semi-sitting, sitting, knee-elbow, kneeling, autotransfusion). Cardiac arrest – identification and resuscitation measures in adults and children. Application of semiautomated external defibrillators (AED). Procedure algorithm – basic resuscitation measures in adults and children. Bleeding – identification and procedures in external and internal bleeding. Traumatic amputation care procedure. Open injuries (wounds) – care. Bone and joint system injuries (notion, types). Temporary immobilization. Bone and joint system injuries (notion, types). Bone and joint system injuries (notion, types). Care procedures. Complications and their prevention. Injuries caused by heat and electricity, care. Injuries caused by the cold, care. Specific injuries, diseases and conditions, care.				
<b>Literature:</b> <i>Literature in English:</i> 1. Cydulka R., Cline D., Ma O. J., Fitch M., Joing S., Wang V.: Tintinalli's Emergency Medicine Manual, McGraw-Hill Education, New York, 2017. 2. Hammond B. B., Zimmermann P. G.: Sheehy's Manual of Emergency Care: Sheehy's Manual of Emergency Care, Mosby, London, 2012. 3. Carsten Lott i sar.: Advaced life support course manual, European resuscitation council, textbook, ERC guidelines 2015. 4. Advanced First Aid, CPR, and AED, American Academy of Orthopaedic Surgeons (AAOS), Jones & Bartlett Learning, 2017. <i>Literature in Serbian:</i> 5. Pavlović A.: Prva pomoć, udžbenik, Obeležja, Beograd, 2007. 6. Pavlović A.: Kardiopulmonalna reanimacija, Obeležja, Beograd, 2007. 7. Newton C. R. H., Khare R. K.: Urgentna medicina, prevod, Besjeda, Banja Luka, 2007.				
<b>Number of classes</b>				
<b>Theoretical lectures</b>	<b>Theoretical exercises</b>	<b>Professional practice</b>	<b>Study research work (Degree Paper...)</b>	<b>Other forms of teaching (individual work with student, projects...)</b>
30	30	0	0	0
<b>Methods of teaching:</b>				

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lectures, exercises, case studies; e-learning, exercises on dummy; visits of accredited specialists;			
<b>Grading (maximum 100 points)</b>			
<b>Pre-Exam obligations</b>	<b>Points</b>	<b>Final Exam</b>	<b>Points</b>
Lecture attendance	3	Exam	30
Activity	7		
Projects/Seminars	0		
Exercises/professional practice	40		
Colloquiums	20		

**GERIATRICS WITH NURSING IN GERIATRICS**

<b>Study program:</b> Nursing				
<b>Type and level of study:</b> undergraduate professional studies				
<b>Course:</b> Geriatrics with Nursing in Geriatrics				
<b>Language of instruction:</b> English, Serbian				
<b>Course status:</b> mandatory				
<b>Semester:</b> first year, first semester				
<b>ECTS:</b> 5				
<b>Requirement:</b> no				
<b>Course objective:</b> Students will acquire knowledge and skills in nursing of senior citizens, understand their bodily, social and psychological needs and problems, be familiar with the possibilities of taking care of them in institution or at their home.				
<b>Course outcome:</b> Upon the course completion student should be able to recognize specific problems of the old, evaluate their functional abilities and possibilities of self-care, train them in self-care and treatment in senior citizens institutions and geriatric hospitals.				
<b>Course content:</b>				
<i>Lectures</i> The notion of gerontology and geriatrics; physical, psychological and social aspect of getting old; recognition of problems of the old; theories of getting old, specific way of defining getting old, health issues, old-age illnesses, prevention of complications, treatment, nursing and rehabilitation; care categorization, therapeutic procedure, specific features of communication; most frequent health issues of the old, their prevention and treatment; the role of nurse in health protection and nursing of the old; specific features of nursing in senior citizen institutions and geriatric centers; specific features of medical rehabilitation of old persons; institutions taking care of the old; direction of geriatrics development in the EU; importance of psychical rehabilitation of the old; everyday life activities; psychophysical activity, elimination of the feeling of being deserted; team activities, past time activity organization, artistic and sports activities; care of local community for improvement of life of senior citizens (associations, day centers); gerontology centers, work organization, activities within centers; work in gerontology centers in Serbia and EU countries; importance of prevention; palliative care and work with families; education of population in volunteering; familiarization with social protection of old persons.				
<i>Exercises</i> Changes in certain body systems and organs due to getting old, basic human needs and getting old, evaluation of functional abilities and possibilities of self-care, most frequent health issues of the old, education in self-care and treatment. Specific features of the old patient population. Nursing of old persons, work in gerontology center. Organization of old person workshop. Importance of prevention. Assessment of conditions for home care. Cooperation with social work centers. Visiting senior citizens' clubs. Demonstration of nursing procedures at home; education of families in taking care. Preparation of old persons and their accommodation in an institution. Training family in visiting and preparation for return home. Practical application of tests (fall prevention Katz index, Norton and Branden Scale – patient risk for pressure ulcer development etc.).				
<b>Literature:</b>				
<i>Literature in English:</i>				
1. Boltz. M.: Evidence-Based Geriatric Nursing Protocols for Best Practice, Springer Publishing Company, New York, 2012.				
2. Halter J. B., Ouslander J. G., Tinetti M., Studenski S., High K. P., Asthana S.: Hazzard's Geriatric Medicine and Gerontology (Principles of Geriatric Medicine & Gerontology), textbook, McGraw-Hill Education, New York, 2009.				
3. Warshaw G., Potter J., Flaherty E., McNabney M. K., Heflin M. T., Ham R.: Ham's Primary Care Geriatrics, textbook, Elsevier, New York, 2021.				
4. Taylor R.: Oxford Handbook of Palliative Care, Oxford Press, Oxford, 2009.				
<i>Literature in Serbian:</i>				
5. Vukadinov J.: Gerijatrija i nega starih osoba, udžbenik, Medicinski fakultet, Novi Sad, 2006.				
6. Šarenac D.: Zdravstvena nega starih, udžbenik, Licej, Beograd, 2009.				
7. Stavljenić – Rukavina A., Renato Mitermayer R., Tomek Roksandić S., Mustajbegović J.: Kvaliteta dugotrajne skrbi starijih osoba, Centar za gerontolgiju, Referentni centar Ministarstva zdravlja RH za zaštitu zdravlja starijih osoba, priručnik, Zagreb, 2012.				
8. Dujaković Z. i sar.: Gerijatrija - medicina starije dobi, udžbenik, Medicinska naklada, Zagreb, 2008.				
<b>Number of classes:</b>				
<b>Theoretical lectures</b>	<b>Theoretical exercises</b>	<b>Professional practice</b>	<b>Study research work (Degree Paper...)</b>	<b>Other forms of teaching (individual work with student, projects...)</b>
30	30	180	0	0
<b>Methods of teaching:</b> lectures against use of various video materials, exercises, workshops, clinical practice, visits of teaching base employees				

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<b>Grading (maximum 100 points)</b>			
<b>Pre-Exam obligations</b>	<b>Points</b>	<b>Final Exam</b>	<b>Points</b>
Lecture attendance	3	Exam	30
Activity	7		
Projects/Seminars	0		
Exercises/professional practice	40		
Colloquiums	20		

**HEALTH CARE AND SOCIAL-SECURITY LEGISLATION**

<b>Study program:</b> Nursing				
<b>Type and level of study:</b> undergraduate professional studies				
<b>Course:</b> <b>Health Care and Social-Security Legislation</b>				
<b>Language of instruction:</b> English, Serbian				
<b>Course status:</b> mandatory				
<b>Semester:</b> third year, sixth semester				
<b>ECTS:</b> 5				
<b>Requirement:</b> no				
<b>Course objective:</b> Acquiring basic knowledge in health care and social-security legislation, knowing the difference between ethical and legal requirements, developing critical thinking in solving ethical or legal dilemmas, understanding national, European and international legal regulations, knowing rights and obligations relating to medical protection, health insurance, as well as knowing rights and obligations of medical service providers, their beneficiaries and third party.				
<b>Courses outcome:</b> Students who passed the exam are capable of critical thinking on standards and legal issues, they are aware of the difference between legal and ethical issues, and they acquired knowledge that would help them to critically judge ethical and legal aspects in providing medical services; they are able to apply laws regulating health care sectors, and know rights and obligations of medical care provider, patient and third party.				
<b>Course content:</b> <i>Lectures</i> National health care policy, regulations on health care system; Act on Medical Protection, legal and sublegal regulations; Serbian Medical Chamber; medical license, court of honor; European and international regulations in health care system; noncompliance of prescribed principles; legal regulations on specific cases (drug testing, suicide, placebo, euthanasia, physician-patient privilege); ethics in pre-clinical and clinical tests (fundamentals); ethical board. <i>Exercises</i> Analysis and discussion on case studies (generation and critical assessment of information and data). Problem-based learning (problem-solving with an appropriate explanation of the ethical concept and legal framework). Panel discussions on application of legal principles on current issues (drug testing, suicide, placebo, euthanasia, physician-patient privilege).				
<b>Literature:</b> <i>Literature in English:</i> 1. Mossialos E., Permanand G., Baeten R., Hervey T.: Health systems governance in Europe: the role of European Union law and policy, Cambridge University Press, 2010. 2. De Gooijer R.: Trends in EU Health Care Systems, Winfried, 2007. 3. Morrisey M. A.: Health Insurance, textbook, Health Administration Press, London, 2007 4. Beik Janet I.: Health Insurance Today: A Practical Approach, textbook, Saunders, Philadelphia, 2010 <i>Literature in Serbian:</i> 5. Lazarević A. i sar.: Javno zdravlje, socijalna politika i zdravstvena zaštita, udžbenik, Beograd, Visoka zdravstvena škola strukovnih studija, Beograd, 2016. 6. Aktuelni zakoni i podzakonska akta Republike Srbije iz oblasti zdravstva. 7. Lazarević A.: Socijalna medicina, autorsko izdanje, Beograd, 2015. 8. Simić S. i sar.: Socijalna medicina, udžbenik, Medicinski fakultet, Beograd, 2012. 9. Šolak Z.: Ekonomika zdravstvene zaštite, Zavod za udžbenike i nastavna sredstva, Beograd 2003.				
<b>Number of classes:</b>				
<b>Theoretical lectures</b>	<b>Theoretical exercises</b>	<b>Professional practice</b>	<b>Study research work (Degree Paper...)</b>	<b>Other forms of teaching (individual work with student, projects...)</b>
30	30	0	0	0
<b>Methods of teaching:</b> lectures, workshops, case studies, problem-based learning, e-learning.				
<b>Grading (maximum 100 points)</b>				
<b>Pre-Exam obligations</b>		<b>Points</b>	<b>Final Exam</b>	<b>Points</b>
Lecture attendance		3	Exam	40
Activity		7		
Projects/Seminars		0		
Exercises/professional practice		20		
Colloquiums		30		

**HEALTH CARE EDUCATION METHODOLOGY AND HEALTH PROMOTION**

<b>Study program:</b> Nursing				
<b>Type and level of study:</b> undergraduate professional studies				
<b>Course:</b> <b>Health Care Education Methodology and Health Promotion</b>				
<b>Language of instruction:</b> English, Serbian				
<b>Course status:</b> mandatory				
<b>Semester:</b> first year, second semester				
<b>ECTS:</b> 5				
<b>Requirement:</b> no				
<b>Course objective:</b> Purpose of health promotion in pre-schools and schools is an adequate development of children and young persons resulting in them becoming healthy, satisfied, successful, self-conscious and responsible persons.				
<b>Course outcome:</b> Developed value system of young persons, their ability to point out the importance of taking care of health, encourage empathy and sensitivity to the needs of others, and awareness of unacceptable behavior and behavioral deviations which must not be tolerated or ignored.				
<b>Course content:</b> <i>Lectures</i> Appropriate nutrition, physical activity; mental health promotion; encouraging and developing self-confidence, various skills – from communication to decision-making; characteristic of modern (fast) living; behavioral changes; prevention (smoking, alcohol, drugs); prevention of new forms of addiction: information-communication technologies, gambling, betting; safe sex; peer violence, domestic violence, violence against women; prevention of violence by means of modern technologies; migrations and integrations of migrants; tolerance. <i>Exercises</i> Work in pairs and in small groups. Organization of lectures with discussions and panel discussions. Pedagogical workshop. Role playing. Brain storm. Forming views in discussions and debates. Case studies. Use of available and appropriate contents on websites. Visits to representatives of preschools and schools – joint work on health promotion projects. Workshops. Project (city, provincial, republic) analysis dealing with health promotion and improvement. Joint activities with the Institute for Youth Protection, visitors from safe houses. Joint activities and visits of representatives of student organizations (higher-year students) from related higher-education institutions.				
<b>Literature:</b> <i>Literature in English:</i> 1. Maville J. A., Huerta C. G.: Health Promotion in Nursing, textbook, Cengage Learning, London, 2012. 2. Glanz K., Rimer B. K., Viswanath K.: Health Behavior and Health Education: Theory, Research, and Practice, textbook, Jossey-Bass, New Jersey, 2008. <i>Literature in Serbian:</i> 3. Kekuš D.: Zdravstveno vaspitanje, udžbenik, Digital art, Beograd, 2009. 4. Hojer S.: Pristupi i metode u zdravstvenom odgoju, udžbenik, Koledž zdravlja, Ljubljana, 2005. 5. Gerlič I.: Savremene informacione tehnologije u obrazovanju, Nacionalna izdavačka kuća Slovenija, Ljubljana, 2000. 6. Kekuš D.: Komunikacije u profesionalnoj praksi zdravstvenih radnika, Digital Art, Beograd, 2010. 7. Jović S., Bašić S.: Promocija zdravlja i zdravstveno vaspitanje; u: Socijalna medicina sa epidemiologijom i higijenom. Medicinski fakultet Niš, Galaksija, Lukovo, 2011. 8. Pokorn D.: Ishrana u različitim fazama života: dodatak ishrani u ishrani, Maribor/Ljubljana, 2003.				
<b>Number of classes:</b>				
<b>Theoretical lectures</b>	<b>Theoretical exercises</b>	<b>Professional practice</b>	<b>Study research work (Degree Paper...)</b>	<b>Other forms of teaching (individual work with student, projects...)</b>
30	30	0	0	0
<b>Methods of teaching:</b> lectures against use of didactic methods, exercises, workshops, field work, seminar papers.				
<b>Grading (maximum 100 points)</b>				
<b>Pre-Exam obligations</b>		<b>Points</b>	<b>Final Exam</b>	<b>Points</b>
Lecture attendance		3	Exam	30
Activity		7		
Projects/Seminars		0		
Exercises/professional practice		30		
Colloquiums		30		

**HEALTHY LIFESTYLE AND SOCIOLOGY OF HEALTH AND DISEASE**

<b>Study program:</b> Nursing				
<b>Type and level of study:</b> undergraduate professional studies				
<b>Course:</b> <b>Healthy Lifestyle and Sociology of Health and Disease</b>				
<b>Language of instruction:</b> English, Serbian				
<b>Course status:</b> mandatory				
<b>Semester:</b> second year, fourth semester				
<b>ECTS:</b> 3				
<b>Requirement:</b> no				
<b>Course objective:</b> Familiarization of students with the current concept of health and disease sociology, interdisciplinary approach and understanding of health and disease, acquisition of a critical attitude to certain lifestyles affecting the health-disease possibility relation, awareness of importance of prevention, social, national and economic consequences of disease and impact of high technologies on health and disease.				
<b>Course outcome:</b> Upon the completion of the course and passed exam students are familiar with the current concept of health and disease sociology, interdisciplinary approach and understanding of health and disease, they acquire a critical attitude to certain lifestyles affecting the health-disease possibility relation, awareness of importance of prevention. Students also understand social, national and economic consequences of of health and diseases.				
<b>Course content:</b> <i>Lectures</i> Notion of health and disease sociology; psychological, occupational, economic consequences of diseases; impact of disease on organization, society, country, global trends; new diseases in the 20th and 21st century; impact of high technologies on health and disease sociology and appearance of new types of diseases; psychological states; marginalized populations; social strategy, types of insurance and health and disease sociology. <i>Exercises</i> Notion of health and disease sociology; psychological, occupational, economic consequences of diseases. Impact of disease on organization, society, country, global trends. New diseases in the 20 <sup>th</sup> and 21 <sup>st</sup> century. Impact of high technologies on health and disease sociology and appearance of new types of diseases. Psychological states. Marginalized population. Impact of the state. Social strategy, types of insurance and health and disease sociology.				
<b>Literature:</b> <i>Literature in English:</i> 1. Tria G. E., Gaerlan J. E., Limpingco D. A.: Principles of Mental Hygiene, Pantas Publishing & Printing, Rotterdam, 2010. 2. Bell G. E.: The Good Book of Mental Hygiene, Resource Publications, Borston, 2020. 3. Glen A.: Mental Hygiene: How To Change Your Mind, CreateSpace Independent Publishing Platform, London, 2018. <i>Literature in Serbian:</i> 4. Simić M., Kovačević K.: Mentalna higijena, udžbenik, autorsko izdanje, Beograd, 2004. 5. Ule M.: Socijalni aspekti moderne medicine, udžbenik, Aristej, Šentilj, 2003. 6. Nettleton S.: The sociology of Health and Illness, textbook, Polity Press, Cambridge, 2006. 7. Garcia W.: The Power Of Healthy Living, Kindle Edition, London, 2021. 8. Kaličanin P. i sar.: Stres, zdravlje, bolest, udžbenik, Obeležja, Beograd, 2007. 9. Havelka M. i sar.: Zdravstvena psihologija, Naklada Slap, Jastrebarsko, 2002. 10. Stanković Z., Begović D.: Alkoholizam od prve do poslednje čaše, Kreativni centar, Beograd, 2005.				
<b>Number of classes:</b>				
<b>Theoretical lectures</b>	<b>Theoretical exercises</b>	<b>Professional practice</b>	<b>Study research work (Degree Paper...)</b>	<b>Other forms of teaching (individual work with student, projects...)</b>
15	15	0	0	0
<b>Methods of teaching:</b> lectures, exercises, case studies, discussion, e-learning;				
<b>Grading (maximum 100 points)</b>				
<b>Pre-Exam obligations</b>		<b>Points</b>	<b>Final Exam</b>	<b>Points</b>
Lecture attendance		3	Exam	40
Activity		7		
Projects/Seminars		0		
Exercises/professional practice		20		
Colloquiums		30		

**HUMAN RESOURCES MANAGEMENT IN HEALTH CARE**

<b>Study program:</b> Nursing				
<b>Type and level of study:</b> undergraduate professional studies				
<b>Course:</b> <b>Human Resources Management in Health Care</b>				
<b>Language of instruction:</b> English, Serbian				
<b>Course status:</b> elective				
<b>Semester:</b> second year, fourth semester				
<b>ECTS:</b> 5				
<b>Requirement:</b> no				
<b>Course objective:</b> Familiarization of students with the concept of human resources management. The intention of the course is to present to students principal issues in human resources management and segments of manager activities, with human resources management as one of most important. The final goal of the course predominantly determines the selection of contents (topics) and method or classes realization.				
<b>Subjects outcome:</b> Students will be able to apply the acquired knowledge in human resources management within their future profession.				
<b>Course content:</b> <i>Lectures</i> Introduction into human resources management; main activities of personnel management and human resources management; differences between human resources management and personnel function; social protection in industry; recruitment and selection; adoption of other personnel activities; legislation; flexibility and diversity; information technology; professional associations of personnel members; human resources management; main characteristics of human resources management; issues of human resources management concept; human resources management marketing; human resources strategy and planning; strategy devising process; human resources planning; anticipation of human resources demand; job analysis; evaluation of internal and external human resources supply; unemployment; underqualification; competition; geographical factor; assets; development; rewarding; relations with employees; the European Union: recruitment procedures; job description and person specification, competence profile; person specification, competence profile in the recruitment context; vacancy advertising; targeted recruitment; administrative procedures; supplementary selection techniques; psychological testing; recommendations; health check; relations in employment; rights and responsibilities of both parties; Law on Employment; retirement; payment for work done or performance evaluation; role of employer; impact of personal problems on the job; confidentiality; counseling skill; communication process; hierarchical communication levels; protection at work; working time regulation in the EU; risk assessment; partnership and involvement of employees; employee involvement techniques; basic characteristics of disciplinary procedure; absence control; the role of human resources manager; dismissal and redundancy; fixed-term service agreement; illegal dismissal; rights of dismissed employees; work abroad. <i>Exercises</i> CV analysis – case studies. Recruitment of potential candidates, candidate selection – simulation. Employee training – workshop; coaching – simulation. Feedback – simulation. Leadership, difference between leader and director, leader’s skills – workshop, simulation. Individual and group business meetings – simulation. Team spirit and team-building – workshop. Evaluation of employees’ performance, employee personal development plan – case study and simulation. Motivation – workshop. Defining rule system, positive and negative bonus – workshop. Leaving the company, agreement termination, dismissal – workshop, simulation. Change of employee position, recognizing employee’s potential and optimum job positions – workshop. Visits from economic sector (director of a successful company with a great number of employees).				
<b>Literature:</b> <i>Literature in English:</i> 1. Beik J. I.: Health Insurance Today: A Practical Approach, Saunders, Philadelphia, 2010. 2. Flynn W. J., Mathis R. L., Jackson J. H.: Healthcare Human Resource Management, textbook, Cengage Learning, Boston, 2006. <i>Literature in Serbian:</i> 3. Legetić B.: Principi menadžmenta, udžbenik, Ekonomski fakultet, Subotica, 2007. 4. Marinković Lj: Menadžment u zdravstvenim organizacijama, G.A.D. Beograd, 2001. 5. Mićović P.: Zdravstveni menadžment, Obeležja, Beograd, 2008. 6. Žujić D.: Menadžment ljudskih resursa i kvalitet, Centar za primenjenu psihologiju društva psihologa Srbije, Beograd, 2003. 7. Probbins S., Judge T.: Organizaciono ponašanje, Mate, Zagreb, 2009. 8. Frančesko M.: Kako unaprediti menadžment u preduzeću, Novi Sad, Prometej, 2003.				
<b>Number of classes:</b>				
<b>Theoretical lectures</b>	<b>Theoretical exercises</b>	<b>Professional practice</b>	<b>Study research work (Degree Paper...)</b>	<b>Other forms of teaching (individual work with student, projects...)</b>

30	30	0	0	0
<b>Methods of teaching:</b> lectures, practical exercises, workshop, discussion, simulation, case study, e-learning				
<b>Grading (maximum 100 points)</b>				
<b>Pre-Exam obligations</b>		<b>Points</b>	<b>Final Exam</b>	<b>Points</b>
Lecture attendance		3	Exam	40
Activity		7		
Projects/Seminars		0		
Exercises/professional practice		20		
Colloquiums		30		

## HYGIENE WITH THE BASICS OF MICROBIOLOGY

<b>Study program:</b>	Nursing
<b>Type and level of study:</b>	undergraduate professional studies
<b>Course:</b>	<b>Hygiene with the Basics of Microbiology</b>
<b>Language of instruction:</b>	English, Serbian
<b>Course status:</b>	mandatory
<b>Semester:</b>	first year, second semester
<b>ECTS:</b>	5
<b>Requirement:</b>	no
<b>Course objective:</b>	Acquisition of knowledge on health care training process as a measure of health protection at all levels, familiarization with principles, objectives and methods of application of health care educational measures and impact on change of risky behavior of individual, family and community. Development of interest of student in his/her permanent professional and general education, that its, training of health care professional in risk management in health care institutions. Familiarization with cell organization and main characteristics of bacteria, viruses and parasites.
<b>Course outcome:</b>	Students acquire practical knowledge on professional competencies within their profession, on the analysis and management of risk in health care institutions regarding hygiene and protection of health of medical professionals and beneficiaries of health care services at all levels of health protection.
<b>Course content:</b>	<p><i>Lectures</i></p> <p>Hygiene and health. Hygiene requirements in planning and construction of health care institutions. Illumination, ventilation and heating in health care institutions. Air quality in health care institutions. Water and health. Health safety of drinking water. Water supply of health care institutions. Disinfection of drinking water. Disposal of solid and liquid waste. Disposal of medical waste. Personal hygiene of health care professionals: hand hygiene and personal protection substances. Hygiene procedures in maintaining hygiene of sick persons. Hygienic-epidemiologically adequate solutions of sanitary area. Hygienically adequate treatment of hospital laundry. Hygienic requirements for kitchens and food distribution. Application of HACCP system in food and drinking water handling. International and Serbian legislation in the area of food and general use objects safety. Risk management in health care institutions. Determining critical spots in health care institutions. Epidemiological importance of defining critical spots and critical spot control plan in health care institutions. Health care education in the system of scientific disciplines. Health: modern concept. Health education of the young. Factors affecting health. Lifestyle: life, health and environment. Health promotion and improvement. Behavior and changes in behavior. Disease prevention. Education, counseling and informing. Planning, carrying out and evaluation of health care educational interventions in institutions of primary, secondary and tertiary protection. Communication, educational and organizational methods and strategies. WHO seven educational principles. Carrying out health care educational intervention – professional nurse in the health care system. General bacteriology. Microorganism classification, anatomy and physiology of bacterial cell, bacteria metabolism, action of physical and chemical agents on microorganisms. Pathogenicity and virulence factors, antibiotics, antimycotics and chemotherapeutics, physiological importance of microflora, rapid diagnostic tests and molecular methods in microbiology. General and special virology: general features of viruses, action of physical and chemical agents on viruses. Pathogenesis and control of virus infections, interferons and antiviral drugs, laboratory diagnostics, DNA and RNA and viruses of importance for human pathology. Parasitology.</p> <p><i>Exercises</i></p> <p>Planning hygienic requirements for health care institutions. Presentation of test results and air quality evaluation. Air sampling methods in health care institutions. Presentation of test results and evaluation of health safety of water. Disinfection of drinking water. Drinking water sampling methods. Environmentally adequate disposal of medical waste. Preparation for seminar paper: monitoring personal hygiene of health care professionals. Presentation of seminar paper in the area of monitoring personal hygiene of health care professionals. Drawing up HACCP system for kitchens in health care institutions. Determining critical spots in health care institutions. Demonstration of health care institution functioning in terms of hygienic requirements – field visit. Demonstration of functioning of microbiology institution and involvement in microbiological analysis.</p>
<b>Literature:</b>	<p><i>Literature in English:</i></p> <ol style="list-style-type: none"> <li>1. Weston D.: Infection Prevention and Control: Theory and Practice for Healthcare Professionals, John Wiley &amp; Sons, New York, 2008.</li> <li>2. Andersen B. M.: Prevention and Control of Infections in Hospitals, textbook, Practice and Theory, Springer, Berlin, 2016.</li> <li>3. Tortora Gerard J., Funke Berdell R., Case Christine L.: Microbiology: An Introduction, textbook, Books a la Carte Edition, Benjamin Cummings, New York, 2009.</li> </ol> <p><i>Literature in Serbian:</i></p> <ol style="list-style-type: none"> <li>4. Novaković B., Grujić V.: Higijena i zdravstveno vaspitanje, udžbenik, Medicinski fakultet, Novi Sad, 2005.</li> <li>5. Kekuš D.: Zdravstveno vaspitanje, udžbenik, Digital art, Beograd, 2009.</li> </ol>

6. Kristoforović-Ilić M.: Higijena sa medicinskom ekologijom, udžbenik, Ortomedics, 2003.  
 7. Baračkov N., Bujak J., Ilić D., Jović S., Panić M. i sar.: Vaspitanje za zdravlje kroz životne veštine, Ministarstvo prosvete i sporta Republike Srbije, 2007.

<b>Number of classes:</b>				
Theoretical lectures	Theoretical exercises	Professional practice	Study research work (Degree Paper...)	Other forms of teaching (individual work with student, projects...)
30	30	330	0	0

**Methods of teaching:**  
lectures, practical classes, discussion, problem-solving, clinical practice.

<b>Grading (maximum 100 points)</b>			
Pre-Exam obligations	Points	Final Exam	Points
Lecture attendance	3	Exam	40
Activity	7		
Projects/Seminars	0		
Exercises/professional practice	20		
Colloquiums	30		

## INTENSIVE CARE UNIT NURSING

<b>Study program:</b>	Nursing			
<b>Type and level of study:</b>	undergraduate professional studies			
<b>Course:</b>	<b>Intensive Care Unit Nursing</b>			
<b>Language of instruction:</b>	English, Serbian			
<b>Course status:</b>	elective			
<b>Semester:</b>	third year, sixth semester			
<b>ECTS:</b>	5			
<b>Requirement:</b>	Basics of Nursing			
<b>Course objective:</b>	Primary objectives are the adoption of current theoretical and practical (resourcefulness) specialist knowledge in the area of intensive care nursing of critically ill/injured patients and training in the application of the acquired knowledge both in professional and research work. Development of critical thinking, independence in nursing, carrying out diagnostic and therapy procedures, development of team work ability.			
<b>Course outcome:</b>	Student will be able to describe clinical conditions in which it is necessary to carry out multidisciplinary nursing and how to nurse patients in certain clinical conditions.			
<b>Course content:</b>	<p><i>Lectures</i></p> <p>Airway: evaluation, maintenance, enabling air passage. Breathing: adequacy assessment, ventilator support. Circulation: adequacy assessment, circulatory support. Numerical systems for evaluation of condition of a critically ill/injured person. Cardiocirculatory arrest. Postresuscitation disease. Brain death. Intensive care unit nursing of patients with acute circulatory disorders: cardiogenic, circular, cellular shock. Intensive care unit nursing of patients with acute respiratory system disorders. Acute asphyxiation. Intensive care unit nursing of patients with acute cardiac function disorders. Intensive care unit nursing of patients with central nervous system disorders. Coma. Intensive care unit nursing of acutely intoxicated patients. Intensive care unit nursing of traumatized patients. Intensive care unit nursing of patients with burns. Specific features of intensive care unit nursing in pediatrics. Intensive care unit nursing of patients after transplantation: Early rehabilitation in intensive care therapy unit.</p> <p><i>Exercises</i></p> <p>Pre-hospital/hospital approach to critically ill/injured person. Airway. Breathing and artificial ventilator support. Circulation and circulatory support. Basics of volume substitution treatment. Basics of pharmacology in vital function support. Measures of cardiopulmonary-cerebral resuscitation. Electrical defibrillation and cardioversion. Pediatric measures. Intensive care unit in surgical ward. Intensive care unit in cardiology; intensive care unit in pediatric ward.</p>			
<b>Literature:</b>	<p><i>Literature in English:</i></p> <ol style="list-style-type: none"> <li>1. Shaikh N.: Intensive Care, Jaypee, New Jersey, 2018.</li> <li>2. Woodrow P.: Intensive Care Nursing, A Framework for Practice, textbook, Routledge, London, 2018.</li> </ol> <p><i>Literature in Serbian:</i></p> <ol style="list-style-type: none"> <li>3. Pavlović A.: Kardiopulmonalna reanimacija, Obeležja, 2007.</li> <li>4. Spasojević I., Zdravstvena nega u jedinici intenzivne nege, interne skripte.</li> </ol>			
<b>Number of classes:</b>				
<b>Theoretical lectures</b>	<b>Theoretical exercises</b>	<b>Professional practice</b>	<b>Study research work (Degree Paper...)</b>	<b>Other forms of teaching (individual work with student, projects...)</b>
30	30	120	0	0
<b>Methods of teaching:</b>				
lectures, practical exercises, case study, discussion, e-learning, clinical practice				
<b>Grading (maximum 100 points)</b>				
<b>Pre-Exam obligations</b>		<b>Points</b>	<b>Final Exam</b>	<b>Points</b>
Lecture attendance		3	Exam	30
Activity		7		
Projects/Seminars		0		
Exercises/professional practice		40		
Colloquiums		20		

**INTERNAL MEDICINE PATIENT NURSING**

<b>Study program:</b> Nursing				
<b>Type and level of study:</b> undergraduate professional studies				
<b>Course:</b> Internal Medicine Patient Nursing				
<b>Language of instruction:</b> English, Serbian				
<b>Course status:</b> mandatory				
<b>Semester:</b> second year, fourth semester				
<b>ECTS:</b> 7				
<b>Requirement:</b> Basics of Nursing, Basics of Internal Medicine				
<b>Course objective:</b> Adoption of current theoretical and practical specialist knowledge in internal medicine and nursing of internal-medicine patients and training in application of the acquired knowledge in specific situations with internal-medicine patients.				
<b>Course outcome:</b> Upon the completion of the course students will be trained in individual and team work in recognition of cardiovascular, pulmonary, renal, endocrine, gastroenterology, hematologic and oncologic diseases.				
<b>Subjects content:</b>				
<i>Lectures</i> Specific features of nursing in heart rhythm, pacemaker implantation and electrophysiology ward; diagnostics, therapy and prevention of artery hypertension; specific features of nursing in cardiology wards; prevention, diagnostics and treatment coronary disease risk factors; diagnostics and treatment of acute coronary syndrome; specific features of nursing in pulmonary wards; specific features of nursing in hematology wards; nursing and care of patients with hemorrhagic syndrome; nursing and care of immunocompromised patients; specific features of nursing in gastroenterology wards; preparation of patients for endoscopy diagnostic procedures; specific features of nursing in endocrinology wards; insulin therapy regimes; diabetic foot nursing; specific features of nursing in nephrology and immunology wards; specific features of nursing in dialysis wards; conducting peritoneal dialysis.				
<i>Exercises</i> Specific features of nursing in heart rhythm, pacemaker implantation and electrophysiology ward. Diagnostics, therapy and prevention of artery hypertension; specific features of nursing in cardiology wards. Prevention, diagnostics and treatment coronary disease risk factors. Diagnostics and treatment of acute coronary syndrome. Specific features of nursing in pulmonary wards. Specific features of nursing in hematology wards. Nursing and care of patients with hemorrhagic syndrome. Nursing and care of immunocompromised patients. Specific features of nursing in gastroenterology wards. Preparation of patients for endoscopy diagnostic procedures. Specific features of nursing in endocrinology wards. Insulin therapy regimes. Diabetic foot nursing. Specific features of nursing in nephrology and immunology wards. Specific features of nursing in dialysis wards. Conducting peritoneal dialysis.				
<b>Literature:</b>				
<i>Literature in English:</i>				
1. Kasper D., Fauci A., Hauser S., Longo D.: Harrison's Principles of Internal Medicine, McGraw-Hill, New York, 2015.				
2. Farr C. B.: Internal Medicine for Nurses: Outlines of Internal Medicine for the Use of Nurses, Scholar's Choice, London, 2015.				
<i>Literature in Serbian:</i>				
3. Kopitović I.: Interna medicina za studente zdravstvene nege, udžbenik, Medicinski fakultet, Novi Sad, 2015.				
4. Krstić, M.: Interna medicina, udžbenik, Medicinski fakultet Beograd, Zavod za udžbenike, Beograd, 2009.				
5. Manojlović D. i dr.: Interna medicina I, II udžbenik, Zavod za udžbenike i nastavna sredstva, Beograd, 2003.				
6. Manojlović S.: Hitna stanja u internoj medicini, udžbenik, Zavod za udžbenike, Beograd, 2011.				
<b>Number of classes:</b>				
<b>Theoretical lectures</b>	<b>Theoretical exercises</b>	<b>Professional practice</b>	<b>Study research work (Degree Paper...)</b>	<b>Other forms of teaching (individual work with student, projects...)</b>
30	30	360	0	0
<b>Methods of teaching:</b> lectures against use of different video material, exercises, case study analysis, dicussions, exercises on dummy, clinical practice				
<b>Grading (maximum 100 points)</b>				
<b>Pre-Exam obligation</b>	<b>Points</b>	<b>Final Exam</b>	<b>Points</b>	
Lecture attendance	3	Exam	30	
Activity	7			
Projects/Seminars	0			
Exercises/professional practice	40			
Colloquiums	20			

**MARKETING OF HEALTH CARE INSTITUTIONS**

<b>Study program:</b> Nursing				
<b>Type and level of study:</b> undergraduate professional studies				
<b>Course:</b> Marketing of Health Care Institutions				
<b>Language of instruction:</b> English, Serbian				
<b>Course status:</b> elective				
<b>Semester:</b> first year, second semester				
<b>ECTS:</b> 5				
<b>Requirement:</b> no				
<b>Course objective:</b> Students acquire basic knowledge in the area of marketing in health care, get familiar with modern methods of marketing strategies and manner of communication in health care marketing. Accordingly, the primary course objective is to familiarize students with the genesis and goal of various areas of strategic marketing, including its dominant theories, which is necessary for successful development of activities. Students will also acquire knowledge on notions of marketing campaign, marketing plan designing and principal methods used in marketing.				
<b>Course outcome:</b> Upon the completion of the course, students will be able to understand strategic marketing and be capable to independently conduct research of marketing methods convenient for solution of a specific project task. Students will also be competent to evaluate relevant theories of strategic marketing in different empirical contexts and to understand interconnection between marketing strategy, operative-organizational parts of enterprises and market results. Students will understand how to manage marketing campaign, notion of marketing plan designing and primary methods used in marketing.				
<b>Course content:</b> <i>Lectures</i> Nature and character of marketing; evolution of marketing and approaches in studying it; marketing management process; changes of marketing in enterprises; presentation and analysis of marketing environment; marketing information system and market research; market analysis; market segmentation and selection of targeted markets; notion of public perception; importance of marketing in health care in strategic marketing; market research; SWOT analysis, benchmarking and portfolio; BCG matrix; integrated marketing communications; promotional health campaigns; prevention, promotion of public health and marketing; value chain and cost efficiency; general principles of marketing (marketing mix, models, methods and marketing techniques); designing promotional campaign plan; targeting; following post-marketing campaign; medical marketing practice code; general marketing and targeted marketing campaigns; marketing outsourcing, marketing agencies; printed material, printed media, billboards, electronic media, social networks; direct marketing; fairs, conferences, meetings; sponsorships; website; promotional material; presentation; marketing and PR; public appearances of employees; dress code; appearance of employees, institution. <i>Exercises</i> Analysis and discussion on practical examples of marketing campaigns – workshops. Market segmentation and research; SWOT analysis, benchmarking and portfolio. Designing promotional campaign plans – workshop on a given topic in health care. Analysis of examples of marketing campaigns in Serbia and globally, workshops, e-learning, internet searching. Marketing in health care in Serbia – workshop. Designing promotional campaign plan on a given topic in health care, targeting, marketing mix, marketing models, methods and techniques – workshop. Printed material, printed media, billboards, electronic media, social networks – conceiving material on given topic in health care. Direct marketing – simulation. Fairs, conferences, meetings – workshop. Sponsorships. Website – workshop. Promotional material – workshop. Presentation; marketing and PR. Public appearance of employees. Dress code – visit. Appearance of employees, institution. Visits from business community (marketing or PR manager of health care institution, marketing or PR manager of a business organization).				
<b>Literature:</b> <i>Literature in English:</i> 1. Berkowitz N. E.: Essentials of Health Care Marketing, textbook, Jones & Bartlett Learning, Boston, 2010. <i>Literature in Serbian:</i> 2. Kotler P.: Upravljanje marketingom, udžbenik, Mate, Zagreb, 2017. 3. Macura P.: Marketing – mikro, mala i srednja preduzeća, udžbenik, Ekonomski fakultet, Banja Luka, 2009. 4. Tasić Lj.: Farmaceutski menadžment i marketing, Nauka, Beograd, 2002.				
<b>Number of classes:</b>				
<b>Theoretical lectures</b>	<b>Theoretical exercises</b>	<b>Professional practice</b>	<b>Study research work (Degree Paper...)</b>	<b>Other forms of teaching (individual work with student, projects...)</b>
30	30	0	0	0
<b>Methods of teaching:</b> lectures, discussions, case study, workshop, visiting lectures of representatives of business community (marketing or PR manager of a health care institution, marketing or PR manager of business organization), exercises, e-learning				

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<b>Grading (maximum 100 points)</b>			
<b>Pre-Exam obligations</b>	<b>Points</b>	<b>Final Exam</b>	<b>Points</b>
Lecture attendance	3	Exam	40
Activity	7		
Projects/Seminars	0		
Exercises/Professional practice	20		
Colloquiums	30		

**MEDICAL AND PHARMACEUTICAL WASTE**

<b>Study program:</b> Nursing				
<b>Type and level of study:</b> undergraduate professional studies				
<b>Course:</b> <b>Medical and Pharmaceutical Waste</b>				
<b>Language of instruction:</b> English, Serbian				
<b>Course status:</b> elective				
<b>Semester:</b> first year, first semester				
<b>ECTS:</b> 5				
<b>Requirement:</b> no				
<b>Course objective:</b> ...risk of infectious waste and training students to individually or as team members identify and classify medical waste, as well as to use data on waste categorization aimed at drawing up and implementation of the Waste Management Plan.				
<b>Course outcome:</b> Acquisition of knowledge and skills to manage medical waste, in particular hazardous medical waste, and competence of professional staff to train medical staff, review the circumstances and accomplish waste management plans in health care and other institutions in Serbia.				
<b>Course content:</b> <i>Lectures</i> Medical waste, infectious, pharmaceutical, chemical, pathoanatomical and radioactive waste; creation of waste; waste flows in health care and other institutions; quantity assessment and risks; classification, collection, marking, storage, treatment and disposal of medical waste; modern methods of treatment and disposal of medical waste in the world and in our country; principles of waste management; place and role of the person in charge of medical waste management in health care, as well as other institutions that generate such waste; national legal regulations, recommendations and good practice in the countries of the European Union; drawing up waste management plan <i>Exercies</i> Visit to medical biochemical laboratory, microbiological laboratory, blood transfusion institute, outpatient clinic, clinical centre, clinical centre infectious clinic; analysis of the work in real life circumstances; case studies, discussion; good practice in the EU countries.				
<b>Literature:</b> <i>Literature in English:</i> 1. Landrum V. J.: Medical Waste Management and Disposal, Elseiver, London, 2001. <i>Literature in Serbian:</i> 2. Tošović S. i sar.: Bezbedno upravljanje medicinskim otpadom, Nacionalni vodič dobre prakse, Ministarstvo zdravlja RS, Beograd, 2009. 3. Matović V., Đukić M., Antonijević B.: Praktikum iz kliničko-toksikoloških analiza, Paragon, Beograd, 2005. 4. Zakon o upravljanju otpadom, Sl. glasnik RS 36/09. 5. Direktiva o opasnom otpadu 91/689/EES. 6. Okvirna Direktiva o otpadu 75/442/EES. 7. Jokanović M.: Toksikologija, udžbenik, udžbenik, Elit Medica, Beograd, 2001.				
<b>Number of classes:</b>				
<b>Theoretical lectures</b>	<b>Theoretical exercises</b>	<b>Professional practice</b>	<b>Study research work (Degree Paper...)</b>	<b>Other forms of teaching (individual work with student, projects...)</b>
30	30	0	0	0
<b>Methods of teaching:</b> lectures, exercises, case study, demo laboratory exercises, e-learning				
<b>Grading (maximum 100 points)</b>				
<b>Pre-Exam obligation</b>		<b>Points</b>	<b>Final Exam</b>	<b>Points</b>
Lecture attendance		3	Exam	30
Activity		7		
Projects/Seminars		0		
Exercises/professional practice		30		
Colloquiums		30		

**MEDICAL GENETICS AND MOLECULAR BIOLOGY**

<b>Study program:</b>	Nursing			
<b>Type and level of study:</b>	undergraduate professional studies			
<b>Course:</b>	<b>Medical Genetics and Molecular Biology</b>			
<b>Language of instruction:</b>	English, Serbian			
<b>Course status:</b>	elective			
<b>Semester:</b>	third year, fifth semester			
<b>ECTS:</b>	5			
<b>Requirement:</b>	no			
<b>Course objective:</b>	Familiarization of students with basic facts on the cell with a special focus on the importance of genetic factors in its functioning. The aim of the course is acquisition of a more extensive knowledge on the latest finding in the field of molecular and functional organization of the cell and to familiarize them with basic techniques used in the study of the cell.			
<b>Course outcome:</b>	Upon the completion of the course, the student should be trained to apply the microscoping technique, describe and explain the structure and function of the cell as a basic unit of living organism structure, understand the organization of the processes in the cytoplasm and cell nucleus, describe and explain information transfer from DNA molecule through RNK to proteins, understand and explain mechanism of occurrence of mutations of genetic material (genotype) and to relate the said changes to an appropriate phenotype. Upon the completion of the course students are expected to understand principles on which modern research in the sphere of molecular biology is based, as well as to be trained and capable to apply the acquired knowledge in their future research work.			
<b>Course content:</b>	<p><i>Lectures</i></p> <p>Course concept, its importance for the students of pharmacy; methodology of research in cell biology and genetics; main characteristics of the eukaryotic cell; chemical composition and metabolism of the cell; eukaryotic cell organization; hereditary basis and its function; changes in the structure of genes and chromosomes; the cell cycle and cell dying; gametogenesis, fertilization and biology of development; gene and chromosome mutation; DNA and gene expression; DNA reparation mechanism; immunobiology; oncogenetics; molecular bases of human diseases; pharmacogenomics; emergence and evolution of cell genetic systems; folding, processing, distribution, functionality regulation, changeability, degradation and emergence of new types of proteins; molecular, structural and functional correlation between cell components: cell membrane, cytoskeleton, organelles, nucleus, chromatin; extracellular matrix and intercellular communication; nuclear architecture (nuclear matrix, nuclear compartments, chromosome territories) and their role in gene expression; evolutionary changes in genome organization; human genome; reception and transduction of signals in the cell: signal molecules and their receptor, intracellular pathways of transduction of signals, signal pathways communication, selectivity and specific features of bidirectional transport between the cytoplasm and the nucleus; constitutive, inducible, tissue-based and time specific gene expression; gene expression regulation at transcriptive, post-transcriptive and post-translational level; families of transcription factors, their role and regulation mechanisms of their activity; structural modification of regulatory proteins: phosphorylation, glycosylation, ADP-ribolysation, sumoylation, ubiquitination; cell cycle regulation; cell proliferation during development and differentiation; programmed cell death – apoptosis; basic principles of genetic engineering, application, cloning.</p> <p><i>Exercies</i></p> <p>Microscope and microscoping; size and form of cells, nuclei, embryonic cell origin; plasma membrane; cytoplasmic organelles; interphase nucleus, chromatin; cell division: mitosis and meiosis; transcription and translation; chromosomal aberrations and gene mutations; practical classes are organized as experimental and demonstrative audio-visual exercises; familiarization of students with the latest techniques in molecular biology.</p>			
<b>Literature:</b>	<p><i>Literature in English:</i></p> <ol style="list-style-type: none"> <li>1. Alberts B.: Molecular Biology of the Cell, Garland Science, New York, 2008.</li> <li>2. Nussbaum R. L., McInnes R. R., Willard H. F.: Genetics in Medicine, Saunders, Philadelphia, 2007.</li> <li>3. Lodish H., Berk A., Zipursky S. L., Matsudaira P., Baltimore D., Darnell J.: Molecular Cell Biology, W. H. Freeman &amp; Co., New York, 2003.</li> </ol> <p><i>Literature in Serbian:</i></p> <ol style="list-style-type: none"> <li>4. Diklić V., Kosanović M., Dukić S., Nikoliš J.: Biologija sa humanom genetikom, udžbenik, Grafopan, Beograd, 2001.</li> <li>5. Kovačević Z. L.: Biohemija i molekularna biologija, udžbenik, Medicinski fakultet, Novi Sad, 2002.</li> <li>6. Tripeni P., Elard S.: Emerijevi osnovi medicinske genetike, Data Status, Beograd, 2009.</li> <li>7. Hristić M., Potparević B.: Praktikum iz biologije sa humanom genetikom, Farmaceutski fakultet, Beograd, 2005.</li> <li>8. Delić N., Stanimirović Z.: Principi genetike, Elit Medica, Beograd, 2004.</li> </ol>			
<b>Number of classes:</b>				
<b>Theoretical lectures</b>	<b>Theoretical</b>	<b>Professional practice</b>	<b>Study research work</b>	<b>Other forms of teaching</b>

	<b>exercises</b>		(Degree Paper...)	(individual work with student, projects...)
30	30	0	0	0
<b>Methods of teaching:</b> lectures, exercises, case study, demo laboratory exercises, e-learning				
<b>Grading (maximum 100 points)</b>				
<b>Pre-Exam obligation</b>		<b>Points</b>	<b>Final Exam</b>	<b>Points</b>
Lecture attendance		3	Exam	30
Activity		7		
Projects/Seminars		0		
Exercises/professional practice		40		
Colloquiums		20		

**MEDICAL REHABILITATION**

<b>Study program:</b> Nursing				
<b>Type and level of study:</b> undergraduate professional studies				
<b>Course:</b> <b>Medical Rehabilitation</b>				
<b>Language of instruction:</b> English, Serbian				
<b>Course status:</b> elective				
<b>Semester:</b> third year, fifth semester				
<b>ECTS:</b> 5				
<b>Requirement:</b> no				
<b>Course objective:</b> Adoption of principles, ideas and philosophy of modern rehabilitation of sick and injured persons by applying all necessary measures and procedures aimed at a maximum possible recovery, return to living and working environment, resocialization and inclusion into family and society through holistic and individualized approach and interdisciplinary collaboration within rehabilitation team.				
<b>Course outcome:</b> By applying the adopted principles and philosophy of modern rehabilitation, through holistic considering of psychophysical-social integrity and individualization in the approach to sick or injured persons and by identifying their specific needs, students will be able to determine application of all required measures and procedures for successful accomplishment of the goal in the process of their recovery, resocialization and reintegration through inclusion into family and society by applying a possible primary, secondary and tertiary prevention of disability.				
<b>Subjects content:</b> <i>Lectures</i> Impacts of the living and working environment on psychophysical-social integrity of person; notion, importance and essence of rehabilitation of sick and injured persons; disability; idea, philosophy and development of rehabilitation; modern concept of rehabilitation; medicine-rehabilitation relationship; rehabilitation division; ethics and deontology; principles of rehabilitation; side effects and indication; holistic approach; individualization in approach; multidisciplinary approach, team work; specific features of disability by age – childhood and adolescence, productive age, retirement age; physical, psychical and social aspects of disability; disability and society; classifications and models: medical, social, inclusive; physical and social barriers; discrimination in family and society; accessibility; handicap; medical rehabilitation; methodology – physical medicine in rehabilitation; aids; adaptations and modifications of living, working and public environment; education; working ability evaluation; professional rehabilitation. <i>Exercises</i> Ethical and deontological principles. Attitude to profession, patient, disabled person. Familiarization with the organization of work of rehabilitation institution. Preparation for contact with patient. Introduction into medical documentation. Principles of rehabilitation. Holistic approach. Individualization in approach; professional attitude; team work; tasks of team therapist. Team therapist documentation. Familiarization with work of other team members. Coordination. Rehabilitation plan and program. Handicap condition evaluation. Architectural-technical and social barriers. Accessibility. Continuous motion chain. Everyday activities. Adaptation of living, working and public environment. Aids. Evaluation of ability to work. Pre-professional rehabilitation. Familiarization with disabled persons association. Direct contact with persons with disabilities, members of associations.				
<b>Literature:</b> <i>Literature in English:</i> 1. Shatzer M.: Physical Medicine and Rehabilitation, textbook, LWW, Liverpool, 2012 2. Weiss L., Lenaburg H., Weiss J.: Physical Medicine and Rehabilitation, textbook, Demos Medical, London, 2017 <i>Literature in Serbian:</i> 3. Nedvidek B.: Osnovi fizikalne medicine i rehabilitacije, udžbenik, Medicinski fakultet, 2003. 4. Konjikušić V., Kocev N.: Zdravstvena nega u procesu rehabilitacije, autorsko izdanje, Beograd, 2005. 5. Jovanović Sretenović T.: Praktikum iz Osnovi rehabilitacije, Visoka zdravstvena škola strukovnih studija, Beograd, 2012. 6. K. Savić, A. Mikov: Rehabilitacija dece i omladine, Orto Medics, Novi Sad, 2007. 7. Delin A.: U susret osobama sa invaliditetom, Britanski savet, Beograd, 2008. 8. Howard R.: Rehabilitacija, Savez društva defektologa Jugoslavije, Beograd, 2001. 9. Playforth S.: Upoznavanje osoba sa invaliditetom, Britanski savet, Beograd, 2008.				
<b>Number of classes:</b>				
<b>Theoretical lectures</b>	<b>Theoretical exercises</b>	<b>Professional practice</b>	<b>Study research work (Degree Paper...)</b>	<b>Other forms of teaching (individual work with student, projects...)</b>
30	30	0	0	0
<b>Methods of teaching:</b> Lectures against presentation of different video material, exercises, workshop, exercises on dummy, clinical practice				

<b>Grading (maximum 100 points)</b>			
<b>Pre-Exam obligations</b>	<b>Points</b>	<b>Final Exam</b>	<b>Points</b>
Lecture attendance	3	Exam	30
Activity	7		
Projects/Seminars	0		
Exercises/professional practice	40		
Colloquiums	20		

## MENTAL HYGIENE

<b>Study program:</b> Nursing				
<b>Type and level of study:</b> undergraduate professional studies				
<b>Course:</b> Mental Hygiene				
<b>Language of instruction:</b> English, Serbian				
<b>Course status:</b> elective				
<b>Semester:</b> third year, fifth semester				
<b>ECTS:</b> 5				
<b>Requirement:</b> no				
<b>Course objective:</b> Students are trained to perceive phenomena of mental health and mental illness from a wider, multidisciplinary and multidimensional aspect, to assume responsible tasks in protection and improvement of mental health in their work within community, as well as to take care of sick persons against use of high technology and preserve human relationships in institutions and patients homes.				
<b>Course outcome:</b> Adoption of knowledge and mastering skills in evaluation, monitoring, creating and carrying out therapy communication with health protection beneficiaries – persons with mental health issues, members of their families and healthy members of the community.				
<b>Subjects content:</b> <i>Lectures</i> Subject and theoretical fundamentals of mental health; prevention of mental disorders; mental health of the entire human life cycle: birth and childhood; adolescence; adulthood; old age; modern life problems: alienation; living in urban environment; living in rural environment; nutrition issues; physical activities; life crises; sickness and disablement in family; stress and burn-out syndrome; emergencies; refugees, armed conflicts; natural disasters; posttraumatic conditions; social pathology and maladaptive behavior; extramarital status; LGBT population; domestic violence; violence against women; violence against old people; alcoholism; drug-addiction; prostitution; religious sects; pathological gambling; suicidality; new forms of addiction; approach to person from mental-hygiene aspect: health and sickness; dying and death; dehumanization and humanization of relations; communication in health care profession; comprehensive protection of mental health. <i>Exercises</i> Following theoretical classes. Case studies. Visits of representatives from relevant associations. Drawing up seminar papers. Devising conceptual project plans relating to current issues. Visit of a genuine representative of a marginalized group. Analysis of projects (city, provincial, republic) dealing with marginalized groups of people in the country. Visits of members of aid providing associations (victims of armed conflicts, natural disasters, etc.).				
<b>Literature:</b> <i>Literature in English:</i> 1. Bell G. E.: The Good Book of Mental Hygiene, Resource Publications, Borston, 2020. 2. Glen A.: Mental Hygiene: How To Change Your Mind, CreateSpace Independent Publishing Platform, London, 2018. 3. Tria G. E., Gaerlan J. E., Limpingco D. A.: Principles of Mental Hygiene, Pantas Publishing & Printing, Rotterdam, 2010. <i>Literature in Serbian:</i> 4. Simić M., Kovačević K.: Mentalna higijena, udžbenik, autorsko izdanje, Beograd, 2004. 5. Kaličanin P. i sar.: Stres, zdravlje, bolest, udžbenik, Obeležja, Beograd, 2007. 6. Berger D.: Zdravstvena psihologija, Društvo psihologa Srbije, Centar za primarnu psihologiju, Beograd, 2002. 7. Havelka M. i sar.: Zdravstvena psihologija, Naklada Slap, Jastrebarsko, 2002. 8. Nikolić D.: Bolesti zavisnosti, Narodna knjiga-Alfa, Beograd, 2007. 9. Stanković Z., Begović D.: Alkoholizam od prve do poslednje čaše, Kreativni centar, Beograd, 2005.				
<b>Number of classes (per semester):</b>				
<b>Theoretical lectures</b>	<b>Theoretical exercises</b>	<b>Professional practice</b>	<b>Study research work (Degree Paper...)</b>	<b>Other forms of teaching (individual work with student, projects...)</b>
30	30	0	0	0
<b>Methods of teaching:</b> lectures, exercises, workshop, discussion, seminar paper.				
<b>Grading (maximum 100 points)</b>				
<b>Pre-Exam obligations</b>	<b>Points</b>	<b>Final Exam</b>	<b>Points</b>	
Lecture attendance	3	Exam	40	
Activity	7			
Projects/seminar papers	0			
Exercise/professional practice	20			
Colloquiums	30			

**ORGANIZATION OF HEALTH CARE SYSTEMS**

<b>Study program:</b> Nursing				
<b>Type and level of study:</b> undergraduate professional studies				
<b>Course:</b> <b>Organization of Health Care Systems</b>				
<b>Language of instruction:</b> English, Serbian				
<b>Course status:</b> mandatory				
<b>Semester:</b> first year, second semester				
<b>ECTS:</b> 5				
<b>Requirement:</b> no				
<b>Course objective:</b> Course objective is to familiarize students with basics in organization of health care institutions and health care sector, manner of institution management, specific features of decision-making process in health care, motivation and medical team building, characteristics of internal communication in health care institutions, personnel and human resources building up, characteristics of business policy and planning strategy, administrative procedures and change management in health care institutions, mandatory and other forms of health insurance.				
<b>Subjects outcome:</b> Upon completing the course, student will be able to organize medical teams, ensure solid communication within health care institution, efficiently make decisions and manage changes under time pressure and understand systems of mandatory and other forms of health insurance.				
<b>Subjects content:</b> <i>Lectures</i> Health care system; the role of good communication; health care system and health care institution management; the role of manager, difference between commanding and leadership; employment policy and schedule; introduction process, interview and integration of new employees; training; health care institution organization; primary, secondary and tertiary health protection; types of health care institutions; Law on Health care Protection; principles of health protection; protection of population from infectious diseases; chamber of medical practitioners; administration bodies in charge of health care; inspection supervision. <i>Exercises</i> Discussion on organization of health care processes, health care institutions and health insurance. Analysis of practice in Serbia and abroad. Analysis of practical examples in the sphere of environment protection. Analysis and practical examples in the sphere of smoking and alcohol ban. Analysis and discussion; living environment, air protection. Analysis and discussion; process of waste removal from health care institutions.				
<b>Literature:</b> <i>Literature in English:</i> 1. Beik Janet I.: Health Insurance Today: A Practical Approach, Saunders, Philadelphia, 2010. 2. Mossialos E., Permanand G., Baeten R., Hervey T.: Health Systems Governance in Europe: The Role of European Union Law and Policy, textbook, Cambridge University Press, 2010 3. Morrisey M. A.: Health Insurance, textbook, Health Administration Press, London, 2007. <i>Literature in Serbian:</i> 4. Ranković-Vasiljević R., Stojanović-Jovanović B., Terzić-Marković D.: Metodika i organizacija zdravstvene nege, Visoka zdravstvena škola strukovnih studija, Beograd, 2015. 5. Milović Lj.: Organizacija zdravstvene nege sa menadžmentom, udžbenik, Naučna knjiga, Beograd, 2004. 6. Tijanić M. i sar.: Zdravstvena nega i savremeno sestriinstvo, Naučna knjiga, Beograd, 2010.				
<b>Number of classes:</b>				
<b>Theoretical lectures</b>	<b>Theoretical exercises</b>	<b>Professional practice</b>	<b>Study research work (Degree Paper...)</b>	<b>Other forms of teaching (individual work with student, projects...)</b>
30	30	0	0	0
<b>Methods of teaching:</b> lectures, workshop, case study, discussion, e-learning				
<b>Grading (maximum 100 points)</b>				
<b>Pre-Exam obligations</b>	<b>Points</b>	<b>Final Exam</b>	<b>Points</b>	
Lecture attendance	3	Exam	40	
Activity	7			
Projects/Seminars	0			
Exercises/professional practice	20			
Colloquiums	30			

## PALLIATIVE CARE

<b>Study program:</b>	Nursing			
<b>Type and level of study:</b>	undergraduate professional studies			
<b>Course:</b>	<b>Palliative Care</b>			
<b>Language of instruction:</b>	English, Serbian			
<b>Subjects status:</b>	elective			
<b>Semester:</b>	third year, sixth semester			
<b>ECTS:</b>	5			
<b>Requirement:</b>	Basics of Nursing			
<b>Course objective:</b>	The aim of the course is to train the student in providing palliative care to the patient with all its specificities.			
<b>Course outcome:</b>	After passing the exam, the student will be able to explain the basic principles and philosophy of palliative care, to explain the pathophysiological changes in the body that occur in patients with palliative care needs and patients at the end of life, to organize professional and social support for the patient and his family, to apply procedures for solving and alleviating the symptoms and suffering of patients, to explain the role of the nurse, as a member of a multidisciplinary team, in working with patients who need palliative care and to understand ethical issues in palliative health care.			
<b>Course content:</b>	<p><i>Lectures</i> General principles of palliative care. Definitions and basic terms in palliative care. A historical overview of the development of palliative care. Psychological reactions of patients with palliative care needs. Assistance in meeting the basic human needs of patients with palliative care needs. Procedures for resolving and alleviating unpleasant symptoms and patient suffering in the terminal phase of the disease. Principles and philosophy of palliative health care. Relationship between nurse, patient and family members. Communication with the patient with palliative care needs and his family. Multidisciplinary and interdisciplinarity in palliative care. Ethical issues in palliative care.</p> <p><i>Exercises</i> Psychological reactions of patients with palliative care needs. Assistance in meeting the basic human needs of patients with palliative care needs. Procedures for resolving and alleviating unpleasant symptoms and patient suffering in the terminal phase of the disease. Principles and philosophy of palliative health care. Relationship between nurse, patient and family members. Ethical issues in palliative care.</p>			
<b>Literature:</b>	<p><i>Literature in English:</i></p> <ol style="list-style-type: none"> <li>1. Matzo M., Sherman D. W.: Palliative Care Nursing, Quality Care to the End of Life, Springer Publishing Company, New York, 2014.</li> <li>2. Taylor R.: Oxford Handbook of Palliative Care, London, 2009.</li> </ol> <p><i>Literature in Serbian:</i></p> <ol style="list-style-type: none"> <li>3. Jovanović D.: Osnovi onkologije i palijativna nega onkoloških bolesnika, udžbenik, Medicinski fakultet, Novi Sad, 2008.</li> <li>4. Lončarek K.: Nacionalne smjernice za rad izvanbolničke i bolničke hitne medicinske službe s pacijentima kojima je potrebna palijativna skrb, Hrvatski zavod za hitnu medicinu, Studio Hrg, Zagreb, 2015.</li> <li>5. Vrdoljak E. i sar.: Klinička onkologija, Medicinska naklada, Zagreb, 2013.</li> </ol>			
<b>Number of classes:</b>				
<b>Theoretical lectures</b>	<b>Theoretical exercises</b>	<b>Professional practice</b>	<b>Study research work (Degree Paper...)</b>	<b>Other forms of teaching (individual work with student, projects...)</b>
30	30	0	0	0
<b>Methods of teaching:</b>				
lectures, practical classes, problem-oriented tasks, case studies, discussion, visits of medical-biochemical laboratory employees.				
<b>Grading (maximum 100 points)</b>				
<b>Pre-Exam obligations</b>	<b>Points</b>	<b>Final Exam</b>	<b>Points</b>	
Lecture attendance	3	Exam	30	
Activity	7			
Projects/Seminars	0			
Exercises/professional practice	40			
Colloquiums	20			

## PATHOPHYSIOLOGY

<b>Study program:</b>	Nursing			
<b>Type and level of study:</b>	undergraduate professional studies			
<b>Course:</b>	<b>Pathophysiology</b>			
<b>Language of instruction:</b>	English, Serbian			
<b>Subjects status:</b>	mandatory			
<b>Semester:</b>	second year, third semester			
<b>ECTS:</b>	6			
<b>Requirement:</b>	Anatomy and Physiology segment 1 (General Pathophysiology: theoretical + practical exam) is a condition for segment 2 (Special Pathophysiology: theoretical + practical exam)			
<b>Course objective:</b>	Acquisition of knowledge on cell tissue and organ damaging mechanisms and familiarization of students with morphological alterations underlying diseases, ability to recognize morphological alterations on cells, tissues and organs, enabling students to get to know etiology, pathogenesis and clinical manifestations of most important metabolic disorders and functional disorders of organs and organ systems, causes and mechanisms of cell malignant transformation, as well as characteristic of tumor growth and changes it causes in organism.			
<b>Course outcome:</b>	Upon the completion of the course students have a command of basic medical terminology and are able to adequately present medically relevant facts, understand etiology and pathogenesis of principal metabolic and functional disorders of human organs and organ systems. They are able to connect their clinical manifestations with causes and mechanisms of their appearance and have a basic pathobiological knowledge enabling them to understand mechanisms of chemical agents and drug action, as well as a diagnostic strategy in case of pathological occurrences at a level required for competent carrying out of their duties.			
<b>Course content:</b>	<p><i>Lectures</i> Adaptation, growing old, death of cell; morphological changes in cell; acute and chronic inflammation etiopathogenesis; malignant cell transformation and its growth; water and electrolyte transport disorder; acid-base disorders; etiopathogenesis; undernutrition, obesity, diabetes mellitus, atherosclerosis, cardiovascular system function disorder, respiratory system function disorder, renal function disorder, nervous system function disorder, endocrine gland and neuroendocrine regulation function disorder, digestive system disorder, blood composition and function disorder, skin function disorder.</p> <p><i>Exercises</i> Cell injury and cell death. Inflammation etiopathogenesis. Malignant transformation of cell and its growth. Water, sodium and potassium transport disorder. Calcium, magnesium and phosphate metabolism disorders. Etiopathogenesis of diabetes mellitus, atherosclerosis, acid-base. Disorders of cardiovascular, respiratory system, renal function, nervous function, endocrine gland and neuroendocrine regulation function, digestive tract and liver, blood composition and function.</p>			
<b>Literature:</b>	<p><i>Literature in English:</i></p> <ol style="list-style-type: none"> <li>Huether S. E.: Understanding Pathophysiology, Elsevier, London, 2011.</li> <li>Nolan A.: Pathophysiology: Step By Step Guide for Nursing, textbook, Kindle Edition, London, 2020.</li> <li>Banasik J. L.: Pathophysiology, textbook, Saunders, New York, 2018.</li> </ol> <p><i>Literature in Serbian:</i></p> <ol style="list-style-type: none"> <li>Radić S.: Opšta patofiziologija, udžbenik, Medicinski fakultet, Niš, 2012.</li> <li>Beleslin B.: Specijalna patološka fiziologija, Beograd, 2008.</li> <li>Babić Lj., Borota R., Lučić A.: Priručnik praktičnih i seminarskih vežbi iz patološke fiziologije, Medicinski fakultet, Novi Sad, 2007.</li> <li>Ubavić M.: Patološka fiziologija, interne skripte, ICEPS, 2017.</li> <li>Gamulin M., Marušić M., Kovač Z.: Patofiziologija, udžbenik, Medicinska naklada, Zagreb, 2005.</li> <li>Maličević Ž. i sar.: Osnovi patološke fiziologije, udžbenik, Panevropski univerzitet Apeiron, Banja Luka, 2009.</li> <li>Kovač Z., Gamulin S. i sar.: Patofiziologija, Zadaci za problemske seminare, Medicinska naklada, Zagreb, 2006.</li> </ol>			
<b>Number of classes:</b>				
<b>Theoretical lectures</b>	<b>Theoretical exercises</b>	<b>Professional practice</b>	<b>Study research work (Degree Paper...)</b>	<b>Other forms of teaching (individual work with student, projects...)</b>
45	30	0	0	0
<b>Methods of teaching:</b> lectures, practical classes, problem-oriented tasks, case studies, discussion, visits of medical-biochemical laboratory employees.				
<b>Grading (maximum 100 points)</b>				
<b>Pre-Exam obligations</b>	<b>Points</b>	<b>Final Exam</b>	<b>Points</b>	
Lecture attendance	3	Exam	30	

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Activity	7		
Projects/Seminars	0		
Exercises/professional practice	30		
Colloquiums	30		

## PATIENT CARE AT HOME AND PATRONAGE NURSING

<b>Study program:</b> Nursing				
<b>Type and level of study:</b> undergraduate professional studies				
<b>Course:</b> Patient Care at Home and Patronage Nursing				
<b>Language of instruction:</b> English, Serbian				
<b>Course status:</b> mandatory				
<b>Semester:</b> third year, fifth semester				
<b>ECTS:</b> 5				
<b>Requirement:</b> Basics of Nursing				
<b>Course objective:</b> Training students in organizing and carrying out nurse interventions within nursing of elderly and sick persons in their homes, as well as in participating in medical teams in accordance with modern principles of nursing.				
<b>Course outcome:</b> Students are trained to carry out nurse interventions within medical care at home, including determining the needs, assessment of physical and psychological condition of elderly citizens and carrying out special nursing as required by conditions at home.				
<b>Course content:</b> <i>Lectures</i> The content of the course enables a more comprehensive understanding the reasons of domiciliary care for sick or injured elderly citizens, as well as rehabilitation procedures required at home; education of their families, volunteers and other persons involved in the treatment and nursing of the sick person; evaluation of physical and psychical condition, carrying out nurse interventions as required by a specific level of nursing. <i>Exercises</i> Recognition and importance of assessment of problems and needs of elderly persons, sick and exhausted in home treatment and care conditions. Geriatric evaluation of functional condition. Education of family members and those interested in helping with the care of the elderly immobile, semi-immobile and seriously ill person. Monitoring health conditions (observation, measurement of vital parameters), help in keeping personal hygiene, providing assistance when moving. Prevention of complications in diagnostic and therapeutic procedures, with an emphasis on the prevention of pressure ulcers. Assessment of physical and mental condition, implementation of nursing interventions according to the requirements of the appropriate level of care at home. Professional field of work of community nurses – individuals, family, community. Workshop: bathing a newborn at home, umbilical cord care, umbilical wounds care, senses care, skin care, as well as the most common problems that may occur in connection with care and nutrition. Workshop: delivery in outpatient conditions (in the field), early care of the newborn, care of mother and child until transport to the maternity hospital. Workshop: specifics of home visits to patients during the Covid-19 epidemic. Personal protective equipment of health workers. Keeping medical records, invoicing services, e-prescription.				
<b>Literature:</b> <i>Literature in English:</i> 1. Harris M.: Home Health Care, textbook, Jones & Bartlett Learning, Massachusetts, 2009. 2. McEvan M.: Health Visiting, McHill Publishing, New York, 2002. <i>Literature in Serbian:</i> 3. Krnić H., Vićovac.Lj.: Kućna nega obolelih i povređenih, Crveni krst Srbije, Beograd, 2008. 4. Bedekovič-Petrovski N.: Rad patronažne sestre, Dom zdravlja Remetinec, Remetinec, 2001. 5. Savezni zavod za zdravstvenu zaštitu Beograd: Priručnik za patronažnu službu SR Srbije, Beograd, 2005. 6. Rajak S., Imbronjev V.: Osnovi zdravstvene nege, udžbenik, Omega MS Pharmacy, Novi Sad, 2016. 7. Marinković R. i sar.: Sestrinske procedure (prevod sa engleskog), Data status, Beograd, 2010. 8. Šarenac D.: Zdravstvena nega starih, udžbenik, autorsko izdanje, Licej, Beograd, 2009.				
<b>Number of classes:</b>				
<b>Theoretical lectures</b>	<b>Theoretical exercises</b>	<b>Professional practice</b>	<b>Study research work (Degree Paper...)</b>	<b>Other forms of teaching (individual work with student, projects...)</b>
30	30	150	0	0
<b>Methods of teaching:</b> lectures against using different video material, exercises, workshop, simulations, discussion, e-learning, clinical practice, field work				
<b>Grading (maximum 100 points)</b>				
<b>Pre-Exam obligation</b>	<b>Points</b>	<b>Final Exam</b>	<b>Points</b>	
Attendance at lectures	3	Exam	30	
Activity	7			
Projects/Seminars	0			
Exercises/professional practice	40			
Colloquiums	20			

**PHARMACOLOGY AND DRUG DOSING**

<b>Study program:</b>	Nursing
<b>Type and level of study:</b>	undergraduate professional studies
<b>Course:</b>	<b>Pharmacology and Drug Dosing</b>
<b>Language of instruction:</b>	English, Serbian
<b>Course status:</b>	elective
<b>Semester:</b>	second year, fourth semester
<b>ECTS:</b>	5
<b>Requirement:</b>	no

**Course objective:**  
Acquisition of knowledge on drug effect mechanisms on the basis of which information necessary for understanding different effects of drugs is obtained, therapy and side effects of groups of drugs are understood, as well as acquisition of principles of use of drugs in therapy.

**Course outcome:**  
Upon the completion of the course, students are expected to be able to identify mechanisms of different effects of certain groups of drugs, to connect therapy and side effects of certain groups of drugs with their different pharmacologic effects, and to have own critical attitude to drugs.

**Course content:**  
*Lectures*  
Introduction; history of pharmacology; pharmacology division; drug division; general principles and drug development; manner of drug administration; dosing; LADMER (liberation, absorption, distribution, metabolism, elimination and response of organism to administered drug); effects of drugs on organism; type and character of drug effects; drug effect mechanisms; factors affecting drug effects; change of drug effects at second administration; mutual effects of drugs; detrimental drug effects; drug addiction; basics of clinical pharmacology; nonsteroidal anti-inflammatory drugs; antirheumatic drugs modifying the course of rheumatic condition; blood pharmacology: anticoagulant and coagulant drugs; antiaggregation drugs; local and system hemostatics; antianemic drugs; water and electrolytes: fluid compensation agents; parenteral nutrition drugs; respiratory tract pharmacology; cardiovascular system pharmacology, drugs and therapy of peripheral vascular conditions; antilipemic agents; digestive tract pharmacology, immunosuppressives and immunostimulants; vitamin pharmacology; obesity treatment drugs; antimicrobe drug pharmacology; hormone pharmacology, antifungal drugs; antiviral drugs; amebicides; antimalarial drugs; antiparasitic drugs; antiseptics and disinfectants; chemotherapy of malignant diseases.  
*Exercises:*  
General principles and drug development. Work with pharmacologic databases on the internet. Drug division. Drug prescribing. Prescription.

**Literature:**  
*Literature in English:*  
1. Nurse Academy: Dosage Calculations for Nursing Students: A Complete Step-by-Step Guide for Quick Drug Dosage Calculation, Dosing Math Tips & Tricks for Students, Nurses, and Paramedics, Kindle Edition, London, 2021.  
2. Whalen K.: Lippincott Illustrated Reviews: Pharmacology, Wolters Kluwer Health, London, 2018.  
3. Rang H. P., Dale M. M., Ritter J. M., Moore P. K.: Pharmacology, Churchill Livingstone, London, 2004.  
4. Adams M. P., Holland N.: Pharmacology for Nurses: A Pathophysiologic Approach, textbook, Pearson, New York, 2016.  
*Literature in Serbian:*  
5. Đaković Švajcer K.: Osnovi farmakologije, udžbenik, Ortomedics, Novi Sad, 2010.  
6. Varagić V., Milošević M.: Farmakologija, udžbenik, Elit Medica, Beograd, 2005.  
7. Stanimirović V.: Lek-doza-vreme i pacijent u bolnici, Medicinski fakultet, Kragujevac, 2008.  
8. Stanimirović V. i sar.: Farmakoterapijski vodič 4, Agencija za lekove i medicinska sredstva Srbije, 2008.  
9. Bukarica-Gojković Lj. i sar.: Praktikum iz farmakologije, Medicinski fakultet, Beograd, 2009.  
10. Rang H. P., Dale M. M., Ritter J. M., Moore P. K.: Farmakologija, udžbenik, Data Status, Beograd, 2004.

**Number of classes (per semester):**

Theoretical lectures	Theoretical exercises	Professional practice	Study research work (Degree Paper...)	Other forms of teaching (individual work with student, projects...)
30	30	0	0	0

**Methods of teaching:**  
lectures, exercises, video presentations, demonstrations, workshop, case studies.

<b>Grading (maximum 100 points)</b>			
Pre-Exam obligations	Points	Final Exam	Points
Lecture attendance	3	Exam	30
Activity	7		
Seminar paper	0		

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Exercises/professional practice	40		
Colloquiums	20		

**PSYCHOLOGY IN NURSING AND HEALTH CARE**

<b>Study program:</b> Nursing				
<b>Type and level of study:</b> undergraduate professional studies				
<b>Course:</b> Psychology in Nursing and Health Care				
<b>Language of instruction:</b> English, Serbian				
<b>Course status:</b> mandatory				
<b>Semester:</b> second year, fourth semester				
<b>ECTS:</b> 3				
<b>Requirement:</b> no				
<b>Course objective:</b> Acquisition of knowledge in psychology relating to the patient and his/her relatives at the moment of becoming aware of a health issue, the period of its solving, as well as in case of coping with severe or incurable diseases, their lasting consequences and similar situations. In addition to that, the course objective is to educate students in emotional and psychological states through which a medical professional may go through in the course of his/her work with patients.				
<b>Course outcome:</b> Acquisition of knowledge in psychology relating to the patient and his/her relatives at the moment of becoming aware of a health issue, the period of its solving, as well as in case of uncertain outcomes, their lasting consequences and similar situations. In addition to that, students are trained in self-control in case of emotional and psychological states through which a medical professional may go through in the course of his/her work with patients.				
<b>Course content:</b> <i>Lectures</i> Psychology of health and disease; accepting disease as a reality; determination in solving a health issue; psychology of a patient at the moment of becoming aware of his/her health issue and during treatment; psychological states in case of uncertainty, expectations, unexpected treatment, unsuccessful treatment, deterioration in diagnosis; work with patient's relatives, the role of relatives; support, openness in conversation, panic versus rationality; work with patient's relatives in case of poor prospects diagnosis, in case of a loss; work with medical professional in case of severe emotional states, patient being nervous, state of shock; social institutions, support of competent services; importance of communication; basics of occupational therapy. <i>Exercises</i> Accepting disease as a reality – workshop. Determination in solving a health issue – workshop. Psychology of a patient at the moment of becoming aware of his/her health issue and during treatment – workshop. Psychological states in case of uncertainty, expectations, unexpected treatment, unsuccessful treatment, deterioration in diagnosis – workshop. Work with patient's relatives – workshop. Work with medical professional in case of severe emotional states – workshop. Visits of professionals.				
<b>Literature:</b> <i>Literature in English:</i> 1. Kubler Ross E.: On Death and Dying, Prentice Hall, 2001. 2. Friedman H. S.: Health psychology, textbook, Prentice Hall, 2003. <i>Literature in Serbian:</i> 3. Havelka M.: Zdravstvena psihologija. udžbenik, Jastrebarsko-Naklada Slap, 2008. 4. Kekuš D.: Komunikacije u profesionalnoj praksi zdravstvenih radnika, Digital Art, Beograd, 2010. 5. Payne S. H., Walker J.: Psihologija u zdravstveni negi, Educy, Ljubljana, 2002. 6. Berger D.: Zdravstvena psihologija, Društvo psihologa Srbije, Centar za primarnu psihologiju, Beograd, 2002. 7. Simić M., Kovačević K.: Mentalna higijena, udžbenik, autorsko izdanje, Beograd, 2004.				
<b>Number of classes:</b>				
<b>Theoretical lectures</b>	<b>Theoretical exercises</b>	<b>Professional practice</b>	<b>Study research work (Degree Paper...)</b>	<b>Other forms of teaching (individual work with student, projects...)</b>
15	30	0	0	0
<b>Methods of teaching:</b> lectures, exercises, case studies, discussions, e-learning				
<b>Grading (maximum 100 points)</b>				
<b>Pre-Exam commitment</b>	<b>Points</b>	<b>Final Exam</b>	<b>Points</b>	
Lecture attendance	3	Exam	40	
Activity	7			
Projects/Seminars	0			
Exercises/professional practice	20			
Colloquiums	30			

**PUBLIC HEALTH**

<b>Study program:</b> Nursing				
<b>Type and level of study:</b> undergraduate professional studies				
<b>Course:</b> <b>Public Health</b>				
<b>Language of instruction:</b> English, Serbian				
<b>Course status:</b> mandatory				
<b>Semester:</b> first year, second semester				
<b>ECTS:</b> 5				
<b>Requirement:</b> no				
<b>Course objective:</b> The objective of the course is to train students to recognize values and determinants, duties of individuals, family, local community and society aimed at health protection, to recognize the role of nurses in health promotion, to familiarize them with the national project of health promotion and prevention of chronic diseases and strategies of European health care policies. The objective of the course is to familiarize students with the principles of healthy, safe and balanced nutrition of healthy and sick persons, with organization and activities in health care education in Serbia and to teach them to implement applicative theory in practice.				
<b>Course outcome:</b> Upon the completion of the course students will be able to recognize health-related factors, to recognize the role of therapist in health promotion, to make difference between health care education and health promotion, to practically apply the acquired knowledge.				
<b>Course content:</b> <i>Lectures</i> Societal aspects of health; promotion of health and its characteristic; health promotion activities; impact on the health of individual; impact of nutrition on health; national project of promotion of health and chronic diseases; role of therapist in health improvement; 21st Century Health for All Strategy; objectives and purpose of health care education; levels and approaches to health care education; health care education in the process of nursing of the old; forms and methods of work in health care education; devices and equipment; areas of work in health care education; motivation and communication in health care education; teaching methods and its tasks; content of education; organization of lessons and preparation of health care educator for classes; principles of healthy nutrition, guidelines for healthy nutrition; development and definition of social medicine; social care of health; communication in health care; health care policy; social inequalities in health care system and obtaining health protection, levels of health protection; health protection systems globally; criteria for evaluation of socio-medical importance of health issues; marginalized population categories; role of health care institutions and medical professionals in health care system. <i>Exercises</i> Societal aspects of health. Promotion of health and its characteristics. Health promotion activities. Impact of health on individual. Impact of nutrition on health. Nutrition characteristic for healthy and sick individual. National project of health promotion and prevention of chronic diseases. Role of therapist in health improvement. 21st Century Health for All Strategy. Objectives and purpose of health care education. Levels and approaches in health care education. Health care education in the process of nursing of the old. Forms and methods of work in health care education. Devices and equipment. Areas of work in health care education. Motivation and communication in health care education. Teaching methods and its tasks. Content of education. Organization of lessons and preparation of health care educator for classes. Principles of healthy nutrition; food pyramid; guidelines for healthy nutrition. Development and definition of social medicine. Social care of health. Communication in health care. Health care policy. Social inequalities in health care system and obtaining health protection, levels of health protection. Health protection systems globally. Criteria for evaluation of socio-medical importance of health issues. Marginalized population categories. Role of health care institutions and medical professionals in health care system.				
<b>Literature:</b> <i>Literature in English:</i> 1. Mossialos E., Permanand G., Baeten R., Hervey T.: Health systems governance in Europe: the role of European Union law and policy, Cambridge University Press, 2010. 2. Morrisey M. A.: Health Insurance, Health Administration Press, London, 2007. 3. Schneider M. J.: Introduction to Public Health, textbook, Jones-Barlett learning, New York, 2021 4. Murphy F.: Community Engagement, Organization, and Development for Public Health Practice, Springer Publishing Company, New York, 2004. <i>Literature in Serbian:</i> 5. Lazarević A. i sar.: Javno zdravlje, socijalna politika i zdravstvena zaštita, udžbenik, Beograd, Visoka zdravstvena škola strukovnih studija, Beograd, 2016. 6. Hojer S.: Pristupi i metode u zdravstvenom odgoju, udžbenik, Koledž zdravlja, Ljubljana, 2005. 7. Lazarević A.: Socijalna medicina, autorsko izdanje, Beograd, 2015. 8. Simić S. i sar.: Socijalna medicina, udžbenik, Medicinski fakultet, Beograd, 2012.				
<b>Number of classes:</b>				
<b>Theoretical lectures</b>	<b>Theoretical</b>	<b>Professional practice</b>	<b>Study research work</b>	<b>Other forms of teaching</b>

	<b>exercises</b>		(Degree Paper...)	(individual work with student, projects...)
30	30	0	0	0
<b>Methods of teaching:</b> lectures, exercises, discussions, problem solving				
<b>Grading (maximum 100 points)</b>				
<b>Pre-Exam obligations</b>		<b>Points</b>	<b>Final Exam</b>	<b>Points</b>
Lecture attendance		3	Exame	40
Activity		7		
Projects/Seminars		0		
Exercises/professional practice		20		
Colloquiums		30		

**QUALITY CONTROL**

<b>Study program:</b> Nursing				
<b>Type and level of study:</b> undergraduate professional studies				
<b>Course:</b> <b>Quality Control</b>				
<b>Language of instruction:</b> English, Serbian				
<b>Course status:</b> mandatory				
<b>Semester:</b> third year, sixth semester				
<b>ECTS:</b> 5				
<b>Requirement:</b> no				
<b>Courses objective:</b> The objective of the course is to familiarize students with basic principles of organization of health care institutions and health care sector, manner of institution management, specific characteristics of decision-making process in health care sector, motivation and team building, features of intra-sectoral communication in health care institutions, human-resource matters and human-resources building, specific features of operating policy and planning strategy, administrative procedures and change management in health care institutions, mandatory and other forms of health insurance.				
<b>Course outcome:</b> Students who complete the course are trained to organize medical teams, ensure good communication within a health care institution, efficiently make decisions in situations when there is not enough time and efficiently manage changes; students understand systems of mandatory and other forms of health protection.				
<b>Course content:</b> <i>Lectures</i> The role of good communication; the role of managers, difference between commanding and leading; policy and schedule of employment, introduction process, interview and integration of new employee; training; health care institution organization; primary, secondary and tertiary health protection; quality control procedures, importance of the notion of procedure; population protection from infectious diseases; production and trade in drugs – control; production and trade in narcotics – control; ban on the sale of alcoholic beverages, smoking ban, ban on advertising sale of tobacco products – control; chambers of health care practitioners; republic administration bodies in the sphere of environment protection; environmental legislature – control; protection of nature, environment protection, republic administration bodies in the sphere of health care; trade in explosive materials, inflammable substances and gases; medical waste and biological material management – control; inspection supervision; experiences of the EU countries; modern trends; current challenges in health care institutions; safety of medical practitioners, terrorism – control mechanisms. <i>Exercises</i> Discussion on organization of health care processes, health care institutions and health care insurance. Analysis of practical experience in Serbia and abroad. Analysis of practical examples in the domain of environment protection. Analysis and practical examples in the sphere of ban on smoking and alcohol. Analysis and discussion: environment protection. Analysis and discussion; medical waste and biological material disposal process in the area of health care. Safety of health care professionals, terrorism – discussion.				
<b>Literature:</b> <i>Literature in English:</i> 1. Spath P.: Applying Quality Management in Healthcare: A Systems Approach, textbook, Health Administration Press, Boston, 2017. 2. Swanwick T., Vaux E.: ABC of Quality Improvement in Healthcare, Wiley, New York, 2020. 3. Probbins S., Judge T.: Organizaciono ponašanje, Mate, Zagreb, 2009. 4. Beik Janet I.: Health Insurance Today: A Practical Approach, Saunders, Philadelphia, 2010. <i>Literature in Serbian:</i> 5. Legetić B.: Principi menadžmenta, udžbenik, Ekonomski fakultet, Subotica, 2007. 6. Marinković Lj: Menadžment u zdravstvenim organizacijama, G.A.D. Beograd, 2001. 7. Mićović P.: Zdravstveni menadžment, Obeležja, Beograd, 2008. 8. Milošević Lj.: Organizacija zdravstvene nege sa menadžmentom, udžbenik, Naučna knjiga, Beograd, 2004. 9. Čajka Z., Jovanović L.: Održivi marketing menadžment, Naučnostručno društvo za zaštitu životne sredine Srbije “Ecologica“, Beograd.				
<b>Number of classes:</b>				
<b>Theoretical lectures</b>	<b>Theoretical exercises</b>	<b>Professional practice</b>	<b>Study research work (Degree Paper...)</b>	<b>Other forms of teaching (individual work with student, projects...)</b>
30	30	0	0	0
<b>Methods of teaching:</b> lectures, case study, discussion, workshop, e-learning				
<b>Grading (maximum 100 points)</b>				

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<b>Pre-Exam obligations</b>	<b>Points</b>	<b>Final Exam</b>	<b>Points</b>
Lecture attendance	3	Exam	40
Activity	7		
Projects/Seminars	0		
Exercises/professional practice	20		
Colloquiums	30		

**RARE DISEASES**

<b>Study program:</b> Nursing				
<b>Type and level of study:</b> undergraduate professional studies				
<b>Course:</b> <b>Rare Diseases</b>				
<b>Language of instruction:</b> English, Serbian				
<b>Course status:</b> elective				
<b>Semester:</b> second year, fourth semester				
<b>ECTS:</b> 5				
<b>Requirement:</b> no				
<b>Course objective:</b> The objective of the course is to acquaint students with the concept and types of rare diseases, the ways in which the health system helps patients with rare diseases, as well as the challenges in this area, in Serbia as well as in the other countries.				
<b>Course outcome:</b> After the course, the student should be acquainted with the concept and types of rare diseases, ways in which the health system can help patients with rare diseases, as well as the challenges that arise in this area, both in Serbia and in other countries.				
<b>Course content:</b> <i>Lectures</i> The notion of a rare disease; characteristics of rare diseases in Serbia and worldwide; the list of rare diseases and genes affecting their occurrence; the methodology with data on rare diseases in Serbia; burden born by stationary health-care institutions in Serbia, distribution of rare diseases globally; malignant tumors in children; challenges in fighting rare diseases in Serbia and globally, propositions of measures in Serbia; Zoja's Law; NORBS; the list of orphan drugs in all phases of their development, from European Medicines Agency labeling relating to medicines for treatment of rare diseases to obtaining permit for the European market; "assistance in diagnosis" option as an option of conducting tests according to disease signs and symptoms; recommendations and guidelines in case of urgent medical intervention and anaesthesia; overview of sites specialized in rare diseases in every country through Orphanet; directions of present research in rare diseases. <i>Exercises</i> The notion of a rare disease; characteristics of rare diseases in Serbia and worldwide; Zoja's Law; NORBS – discussion; discussion on rare diseases and challenges faced by patients in Serbia and worldwide.				
<b>Literature:</b> <i>Literature in English:</i> 1. Claudia Gonzaga-Jauregui, James R. Lupski: Genomics of Rare Diseases: Understanding Disease Genetics Using Genomic Approaches, Academic Press, London, 2022. 2. Robert M. Kliegman, Brett J. Bordini: Undiagnosed and Rare Diseases in Critical Care, An Issue of Critical Care Clinics, E-book, 2021. <i>Literature in Serbian:</i> 3. interni material predavača 4. Ministarstvo zdravlja Republike Srbije: Program za retke bolesti u Republici Srbiji za period 2020-2022. godine: <a href="https://www.zdravlje.gov.rs/tekst/343045/program-za-retke-bolesti-i-akcioni-plan.php">https://www.zdravlje.gov.rs/tekst/343045/program-za-retke-bolesti-i-akcioni-plan.php</a> 5. Ministarstvo zdravlja Republike Srbije: Lista retkih bolesti i gena uključenih u njihov nastanak, kao i enciklopedija retkih bolesti i njihova klasifikacija izvedena iz objavljenih stručnih klasifikacija: <a href="https://www.orpha.net/consor/cgi-bin/Disease.php?lng=EN">https://www.orpha.net/consor/cgi-bin/Disease.php?lng=EN</a> 6. Ministarstvo zdravlja Republike Srbije: Popis „orphan“ lekova (lekova siročića), u toku svih faza njihovog razvoja, od oznake Evropske Medicinske Agencije koja se odnosi na lekove namenjene lečenju retkih bolesti do dobijanja dozvole za evropsko tržište <a href="https://www.orpha.net/consor/cgi-bin/Drugs.php?lng=EN">https://www.orpha.net/consor/cgi-bin/Drugs.php?lng=EN</a> 7. Ministarstvo zdravlja Republike Srbije: Opcija "pomoć pri dijagnozi" omogućava korisnicima pretragu prema znacima i simptomima bolesti <a href="https://www.orpha.net/consor/cgi-bin/Disease_HPOTerms.php?lng=EN">https://www.orpha.net/consor/cgi-bin/Disease_HPOTerms.php?lng=EN</a> 8. Ministarstvo zdravlja Republike Srbije: Preporuke i smernice u slučaju hitne medicinske intervencije i anestezije <a href="https://www.orpha.net/consor/cgi-bin/Disease_Emergency.php?lng=EN">https://www.orpha.net/consor/cgi-bin/Disease_Emergency.php?lng=EN</a>				
<b>Number of classes:</b>				
<b>Theoretical lectures</b>	<b>Theoretical exercises</b>	<b>Professional practice</b>	<b>Study research work (Degree Paper...)</b>	<b>Other forms of teaching (individual work with student, projects...)</b>
30	30	0	0	0
<b>Methods of teaching:</b> lectures and practical exercises with anatomical and histological devices, use of atlas, video projections, computer animations and simulations of physiological processes				
<b>Grading (maximum 100 points)</b>				

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<b>Pre-Exam commitments</b>	<b>Points</b>	<b>Final Exam</b>	<b>Points</b>
Lecture attendance	3	Exam	40
Activity	7		
Projects/Seminars	0		
Exercises/professional practice	20		
Colloquiums	30		

**RESEARCH METHODOLOGY**

<b>Study program:</b> Nursing				
<b>Type and level of study:</b> undergraduate professional studies				
<b>Course:</b> <b>Research Methodology</b>				
<b>Language of instruction:</b> English, Serbian				
<b>Course status:</b> elective				
<b>Semester:</b> third year, sixth semester				
<b>ECTS:</b> 5				
<b>Requirement:</b> no				
<b>Course objective:</b> Training in research work.				
<b>Course outcome:</b> Possession of knowledge necessary for research work.				
<b>Course content:</b> <i>Lectures</i> Importance of scientific work. Difference between scientific and professional work. Stages of research work. Selection of topic. Bibliography. Ways of literature citation. Experiment. Survey and survey results processing, protection of data. Statistical data processing. Quality of the sample. Objectivity and subjectivity. Result and conclusion. Scientific paper structure and writing. Types of scientific paper. Valuation of scientific paper. Ways of scientific paper publishing. Citation. Plagiarism. Protection of data. <i>Exercises</i> Techniques of collecting, organizing and studying literature. Searching selected databases. Processing of research results. Graphic presentation of data. Writing scientific paper. Literature citation. Drawing up seminar paper.				
<b>Literature:</b> <i>Literature in English:</i> 1. Ebel H. F., Bliefert C., Russey W. E.: The art of scientific writing, Wiley-VCH, Verlag GmbH & Co. KgaA, Weinheim, 2004. <i>Literature in Serbian:</i> 2. Milankov V., Jakšić P.: Metodologija naučno-istraživačkog rada u biološkim disciplinama, udžbenik, Prirodno-matematički fakultet, Novi Sad, 2006. 3. Šomodi Š., Novković N., Kraljević-Balalić M., Kajari K.: Uvod u naučni rad, udžbenik, Poljoprivredni fakultet, Novi Sad, 2004. 4. Konvencionalne i elektronske baze podataka				
<b>Number of classes:</b>				
<b>Theoretical lectures</b>	<b>Theoretical exercises</b>	<b>Professional practice</b>	<b>Study research work (Degree Paper...)</b>	<b>Other forms of teaching (individual work with student, projects...)</b>
30	30	0	0	0
<b>Methods of teaching:</b> Lectures, exercises, discussions, e-learning, workshop, seminar paper, public presentation.				
<b>Grading (maximum 100 points)</b>				
<b>Pre-Exam commitments</b>	<b>Points</b>	<b>Final Exam</b>	<b>Points</b>	
Lecture attendance	3	Exam	40	
Activity	7			
Projects/Seminars	0			
Exercises/professional practice	20			
Colloquiums/exam	30			

**SPECIALIZED ENGLISH FOR MEDICINE 1**

<b>Study program:</b> Nursing				
<b>Type and level of study:</b> undergraduate professional studies				
<b>Course:</b> <b>Specialized English for Medicine 1</b>				
<b>Language of instruction:</b> English, Serbian				
<b>Course status:</b> elective				
<b>Semester:</b> first year, first semester				
<b>ECTS:</b> 5				
<b>Requirement:</b> no				
<b>Course objective:</b> Course objective is familiarization with characteristics of the English language, adoption of phrases and patterns necessary for communication at professional level and adoption of techniques of written and oral expressing in professional communication.				
<b>Course outcome:</b> Students will be able to apply the acquired knowledge in professional communication, create corresponding written forms in accordance with their professional communication and use speech patterns appropriate to a given situation.				
<b>Course content:</b> <i>Lectures</i> Grammar: English alphabet, basic reading and writing rules, greeting, personal pronouns, possessive pronouns, present tenses, gender and number of nouns, colors, interrogative and affirmative sentences; aspects of everyday life in English-speaking countries; prepositions with dative and accusative, the imperative, modal verbs, perfect tenses, clause framework; specialist texts in connection with students' future profession, specialist terminology, examples of commercial, specialist texts from practice; examples of documents students will deal with in practice. <i>Exercises</i> Students practice everyday situation dialogues (giving/understanding orientation instructions, retelling happenings, making plans, scheduling meetings, giving descriptions, reporting etc.); understanding texts on everyday life situations (e. g. advertisements), they expand vocabulary relating to their environment, family, job.				
<b>Literature:</b> <i>Literature in English:</i> 1. Evans V., Dooley J., Tran T. M.: Career Paths, Medical Book 1, udžbenik, Express Publishing, Berkshire, 2018. 2. MacLean J.: English in Basic Medical Science, Oxford University Press, Oxford, 2000. 3. Turner S. Y., Sefika K.: Medical English for International Doctors and Nurses: How to communicate with your patients and colleagues effectively in English, textbook, Kindle Edition, London, 2015. 4. Murphy R.: English Grammar in Use, Cambridge University Press, Cambridge, 2014. 5. McCarthy M., O'Dell F.: English Vocabulary in Use, Cambridge University Press, Cambridge, 2006. 6. Hornby A.S.: Oxford Advanced Learner's Dictionary of Current English, Oxford University Press, Oxford, 2008. <i>Literature in Serbian:</i> 7. Dragović R.: Engleski za zdravstvene radnike, udžbenik, Naučna knjiga, Beograd, 2004.				
<b>Number of classes:</b>				
<b>Theoretical lectures</b>	<b>Theoretical exercises</b>	<b>Professional practice</b>	<b>Study research work (Degree Paper...)</b>	<b>Other forms of teaching (individual work with student, projects...)</b>
30	30	0	0	0
<b>Methods of teaching:</b> lectures, practical exercises, communication, e-learning.				
<b>Grading (maximum 100 points)</b>				
<b>Pre-Exam obligations</b>		<b>Points</b>	<b>Final Exam</b>	<b>Points</b>
Lecture attendance		3	Exam	30
Activity		7		
Seminar paper		0		
Exercises/professional practice		40		
Colloquiums		20		

## SPECIALIZED ENGLISH FOR MEDICINE 2

<b>Study program:</b>	Nursing			
<b>Type and level of study:</b>	undergraduate professional studies			
<b>Course:</b>	<b>Specialized English for Medicine 2</b>			
<b>Language of instruction:</b>	English, Serbian			
<b>Course status:</b>	elective			
<b>Semester:</b>	second year, third semester			
<b>ECTS:</b>	5			
<b>Requirement:</b>	Specialized English for Medicine 1			
<b>Course objective:</b>	Course objective is familiarization with characteristics of the English language, adoption of phrases and patterns necessary for communication at professional level and adoption of techniques of written and oral expressing in professional communication.			
<b>Course outcome:</b>	Students will be able to apply the acquired knowledge in professional communication, create corresponding written forms in accordance with their professional communication and use speech patterns appropriate to a given situation.			
<b>Course content:</b>	<p><i>Lectures</i></p> <p>Grammar: comparison of adjectives; causal clauses, future tense, preterite, conditional sentences, verbs of movement, active and passive voice; aspects of everyday life in English speaking countries: holiday, family life, education, life in city; relative clauses, verbs with prepositions, adjective forming suffixes and prefixes, deepening knowledge on dependent clauses; everyday life, business life and media in English speaking countries; specialist terminology relevant for students' future profession, grammatically and linguistically more complex texts; work material corresponding to everyday practice at work.</p> <p><i>Exercises</i></p> <p>Students practice how to express themselves orally and in writing on everyday life topics, such as free time, job, media, fashion, politics; they practice shorter discussions and stating their opinion, asking others on their views and pointing to opposite aspects of different views.</p>			
<b>Literature:</b>	<p><i>Literature in English:</i></p> <ol style="list-style-type: none"> <li>1. Evans V., Dooley J., Tran T. M.: Career Paths, Medical Book 1, udžbenik, Express Publishing, Berkshire, 2018.</li> <li>2. MacLean J.: English in Basic Medical Science, Oxford University Press, Oxford, 2000.</li> <li>3. Turner S. Y., Sefika K.: Medical English for International Doctors and Nurses: How to communicate with your patients and colleagues effectively in English, textbook, Kindle Edition, London, 2015.</li> <li>4. Murphy R.: English Grammar in Use, Cambridge University Press, Cambridge, 2014.</li> <li>5. McCarthy M., O'Dell F.: English Vocabulary in Use, Cambridge University Press, Cambridge, 2006.</li> <li>6. Hornby A.S.: Oxford Advanced Learner's Dictionary of Current English, Oxford University Pres, Oxford, 2008.</li> </ol> <p><i>Literature in Serbian:</i></p> <ol style="list-style-type: none"> <li>7. Dragović R.: Engleski za zdravstvene radnike, udžbenik, Naučna knjiga, Beograd, 2004.</li> </ol>			
<b>Number of classes:</b>				
<b>Theoretical lectures</b>	<b>Theoretical exercises</b>	<b>Professional practice</b>	<b>Study research work (Degree Paper...)</b>	<b>Other forms of teaching (individual work with student, projects...)</b>
30	30	0	0	0
<b>Methods of teaching:</b>				
lectures, practical exercises, communication, e-learning.				
<b>Grading (maximum 100 points)</b>				
<b>Pre-Exam obligations</b>		<b>Points</b>	<b>Final Exam</b>	<b>Points</b>
Lecture attendance		3	Exam	30
Activity		7		
Projects/Seminars		0		
Exercises/professional practice		40		
Colloquiums		20		

**SPECIALIZED GERMAN FOR MEDICINE 1**

<b>Study program:</b>	Nursing
<b>Type and level of study:</b>	undergraduate professional studies
<b>Course:</b>	<b>Specialized German for Medicine 1</b>
<b>Language of instruction:</b>	English, Serbian
<b>Course status:</b>	elective
<b>Semester:</b>	first year, first semester
<b>ECTS:</b>	5
<b>Requirement:</b>	no

**Course objective:**

Course objective is familiarization with characteristics of the German language, adoption of phrases and patterns necessary for communication at professional level and adoption of techniques of written and oral expressing in professional communication.

**Course outcome:**

Students will be able to apply the acquired knowledge in professional communication, create corresponding written forms in accordance with their professional communication and use speech patterns appropriate to a given situation.

**Course content:**

*Lectures*

Grammar: German alphabet, basic reading and writing rules, greeting, personal pronouns, possessive pronouns, present tenses, gender and number of nouns, colors, interrogative and affirmative sentences; aspects of everyday life in German-speaking countries; prepositions with dative and accusative, the imperative, modal verbs, perfect tenses, clause framework; specialist texts in connection with students' future profession, specialist terminology, examples of commercial, specialist texts from practice; examples of documents students will deal with in practice.

*Exercises*

Students practice everyday situation dialogues (giving/understanding orientation instructions, retelling happenings, making plans, scheduling meetings, giving descriptions, reporting etc.); understanding texts on everyday life situations (e. g. advertisements), they expand vocabulary relating to their environment, family, job.

**Literature:**

*Literature in English:*

1. Pude E. A., Specht F.: Menschen, Deutsch als Fremdsprache Kursbuch mit DVD-ROM, udžbenik, Hueber Verlag, Munchen, Deutschland, 2012.
2. Loibl B. et al.: Schritte Plus im Beruf, Kommunikation am Arbeitsplatz, Max Hueber Verlag, Ismaning. Deutschland, 2015.
3. Becker N., Braunert J.: Alltag, Beruf, Kursbuch+Arbeitsbuch, Max Hueber Verlag, Ismaning, 2009.
4. Becker N., Braunert J., Schlenker W.: Unternehmen Deutsch Grundkurs. Kursbuch, Klett Verlag, Stuttgart, 2005.
5. Becker N., Braunert J.: Unternehmen Deutsch Grundkurs, Arbeitsbuch, KlettVerlag, Stuttgart, 2004.
6. [https://www.hueber.de/seite/pg\\_lernen\\_lerner\\_dvd\\_mns](https://www.hueber.de/seite/pg_lernen_lerner_dvd_mns), knjiga i link.
7. [https://www.hueber.de/seite/pg\\_lernen\\_uebungen\\_mns](https://www.hueber.de/seite/pg_lernen_uebungen_mns), dodatne on line vežbe.
8. Grammatik - Ganz klar Übungsgrammatik A1-B1, uz audio materijal, Hueber Verlag, kratak pregled gramatike sa vežbanjima „Hallo aber Deutsch“.
9. [www.schubert](http://www.schubert).

*Literature in Serbian:*

10. Menschen A1 KB und Menschen A1 AB, udžbenik (video materijal: <http://matifmarin.blogspot.rs/p/menschen-film-stationen-clips.html>), Klett Verlag, Stuttgart, 2018.
11. Vučković-Stojanović M.: Uvod u nemački poslovni jezik. Beograd: Savremena administracija, 2005.
12. Nikolovski V.: Gramatička vežbanja „Eine kleine Übungsgrammatik“, Zavod za udžbenike i nastavna sredstva, Schritte international 1, Grammatikspiele.

**Number of classes:**

Theoretical lectures	Theoretical exercises	Professional practice	Study research work (Degree Paper...)	Other forms of teaching (individual work with student, projects...)
30	30	0	0	0

**Methods of teaching:**

lectures, practical exercises, communication, e-learning.

**Grading (maximum 100 points)**

Pre-Exam obligation	Points	Final Exam	Points
Lecture attendance	3	Exam	30
Activity	7		
Projects/Seminars	0		
Exrcises/professional practice	40		
Colloquiums	20		

**SPECIALIZED GERMAN FOR MEDICINE 2**

<b>Study program:</b>	Nursing
<b>Type and level of study:</b>	undergraduate professional studies
<b>Course:</b>	<b>Specialized German for Medicine 2</b>
<b>Language of instruction:</b>	English, Serbian
<b>Course status:</b>	elective
<b>Semester:</b>	second year, third semester
<b>ECTS:</b>	5
<b>Requirement:</b>	Specialized German for Medicine 1

**Course objective:**

Course objective is familiarization with characteristics of the English language, adoption of phrases and patterns necessary for communication at professional level and adoption of techniques of written and oral expressing in professional communication.

**Course outcome:**

Students will be able to apply the acquired knowledge in professional communication, create corresponding written forms in accordance with their professional communication and use speech patterns appropriate to a given situation.

**Course content:**

*Lectures*

Grammar: comparison of adjectives; causal clauses, future tense, preterite, conditional sentences, verbs of movement, active and passive voice; aspects of everyday life in German-speaking countries: holiday, family life, education, life in the city; relative clauses, verbs with prepositions, adjective forming suffixes and prefixes, deepening knowledge on dependent clauses; everyday life, business life and media in English speaking countries; specialist terminology relevant for students' future profession, grammatically and linguistically more complex texts; work material corresponding to everyday practice at work.

*Exercises*

Students practice how to express themselves orally and in writing on everyday life topics, such as free time, job, media, fashion, politics; they practice shorter discussions and stating their opinion, asking others on their views and pointing to opposite aspects of different views.

**Literature:**

*Literature in English:*

1. Grammatik - Ganz klar Übungsgrammatik A1-B1, uz audio materijal, Hueber Verlag, kratak pregled gramatike sa vežbanjima „Hallo aber Deutsch“.
2. Nikolovski V.: Gramatička vežbanja „Eine kleine Übungsgrammatik“, Zavod za udžbenike i nastavna sredstva, Schritte international 1, Grammatikspiele.
3. [www.schubert](http://www.schubert)

*Literature in Serbian:*

4. Menschen A1 KB und Menschen A1 AB, udžbenik (video materijal: <http://matifmarin.blogspot.rs/p/menschen-film-stationen-clips.html>), Klett Verlag, Stuttgart, 2018.
5. Pude E. A., Specht F.: Menschen, Deutsch als Fremdsprache Kursbuch mit DVD-ROM, udžbenik, Hueber Verlag, Munchen, Deutschland, 2012.
6. Loibl B. et al.: Schritte Plus im Beruf, Kommunikation am Arbeitsplatz, Max Hueber Verlag, Ismaning. Deutschland, 2015.
7. Vučković-Stojanović M.: Uvod u nemački poslovni jezik. Beograd: Savremena administracija, 2005.
8. Becker N., Braunert J.: Alltag, Beruf, Kursbuch+Arbeitsbuch, Max Hueber Verlag, Ismaning, 2009.
9. Becker N., Braunert J., Schlenker W.: Unternehmen Deutsch Grundkurs. Kursbuch, Klett Verlag, Stuttgart, 2005.
10. Becker N., Braunert J.: Unternehmen Deutsch Grundkurs, Arbeitsbuch, KlettVerlag, Stuttgart, 2004.
11. [https://www.hueber.de/seite/pg\\_lernen\\_lerner\\_dvd\\_mns](https://www.hueber.de/seite/pg_lernen_lerner_dvd_mns), knjiga i link.
12. [https://www.hueber.de/seite/pg\\_lernen\\_uebungen\\_mns](https://www.hueber.de/seite/pg_lernen_uebungen_mns), dodatne on line vežbe.

**Number of classes:**

Theoretical lectures	Theoretical exercises	Professional practice	Study research work (Degree Paper...)	Other forms of teaching (individual work with student, projects...)
30	30	0	0	0

**Methods of teaching:**

lectures, practical exercises, communication, e-learning.

**Grading (maximum 100 points)**

Pre-Exam obligations	Points	Final Exam	Points
Lecture attendance	3	Exam	30
Activity	7		
Projects/Seminars	0		
Exercises/professional practice	40		
Colloquiums	20		

## SPORTS MEDICINE

<b>Study program:</b>	Nursing
<b>Type and level of study:</b>	undergraduate professional studies
<b>Course:</b>	<b>Sports Medicine</b>
<b>Language of instruction:</b>	English, Serbian
<b>Course status:</b>	elective
<b>Semester:</b>	third year, sixth semester
<b>ECTS:</b>	5
<b>Requirement:</b>	no
<b>Course objective:</b>	Acquisition of knowledge on specific features of etiology, pathogenesis, course, prognosis, prevention, treatment of sports injuries from the aspect of physiotherapy. Familiarization of students with basics of sports physiology and sports medicine, as well as of the manners of functioning of organs and organ systems at a higher, changed, level of psychophysical exertion.
<b>Course outcome:</b>	Upon the completion of the course and passing the exam, the student has a knowledge of general principles and rules of conduct in sports laboratory, he/she is familiar with principal laboratory procedures of functional testing and skills in conducting laboratory tests. The student is familiar in detail with the manner of blood and urine taking and preparation and with methods of elementary laboratory blood and urine tests used in sports medicine practice. In addition to that, the student has knowledge of basic electrophysiology methods, has experience in register keeping, is able to recognize the basic registered parameters, independently measure artery blood pressure, heart auscultation, determine respiratory volumes, oxygen maximal uptake etc.
<b>Course content:</b>	<p><i>Lectures</i></p> <p>Physiotherapeutic diagnostics assessment, plan and programme of physiotherapy within the treatment and rehabilitation of acute, endogenous, exogenous injuries in sport, soft tissue (contusions, distension, rupture of musculotendinous tissues and capsular ligament lesions) and bone and joint system, endogenous chronic sports diseases (capsular ligament lesion systems), post-operational procedures within sports medicine (arthroscopic interventions and invasive orthopaedic surgical intervention). Neuromuscular junction synapse. Mediating and basic mechanisms of synaptic transmission. Division of muscles. Morphophysiological characteristics of skeletal muscles. Skeletal muscle contraction. Motor unit. Tonus and thermogenesis. Muscle functioning, strength and fatigue. Physical aspects of man work (force, strength, function). Smooth muscles. Gas properties. Ventilation. Lung volume and capacity. Transport of gases to the cells. Primary and supportive respiratory muscles. Intrapleural pressure. Respiration control. Types of breathing. Breathing in conditions of reduced and increased atmospheric pressure. Blood plasma. Erythrocytes. Leucocytes. Immunities and immune bodies. Thrombocytes. Blood clotting and hemostasis. Blood types. Transfusion and transplantation. Bloodstream – functional division. Morphofunctional characteristics of the cardiac muscle. Cardiovascular haemodynamics. Cardiac conduction system. Athlete's heart. Electrocardiography – registration and analysis. Cardiac muscle contraction regulation. Capillary exchange. Peripheral circulation. Puls: definition, types and characteristics. Venous blood flow. Lymphatic system. Neurohumoral mechanisms of blood vessel tonus regulation. Anabolism and katabolism. Mineral substances and vitamins. Energy exchange study methods, energy depositing. Respiratory coefficient. Glycogen supercompensation. Lactic acid. Basal metabolic rate. Energy exchange under strain. Devising daily meal. Acid-base balance regulation. Chemical and physiological buffer systems. Glycaemia regulation. Calcium level regulation. Protein metabolism regulation (impact of physical activity on anabolic process in organism). Membrane potential. Action potential. Irritation rules. Neuron. Synapse division in the CNS. Neuromediators. Reflexes. Basal gangliae and dynamic stereotype forming. Cerebellum, vestibular system, proprioception and the role of balance. Tactile and thermal reception. Visceroreception. Smell and taste reception. Pain reception. Hypothalamus. Brain limbic system. Cerebral cortex. Dream. Learning and remembering. Consciousness. Energy capacities and their measuring. Steady state. Sports training and types of training. Theory of stress, stress stages, stressor. The role of sport and recreation according to the modern theory of functional systems in the reception and adaptation of organism to the adverse effects of stress. Overtraining and its implication on functional abilities of athletes, injury suffering. Chronobiology and its importance in sport.</p> <p><i>Exercises</i></p> <p>Testing functional capabilities (selection of a functional test, selection of a type of strain). Determining aerobic capacity (determining maximum oxygen consumption), anaerobic test, maximum strength, average strength, explosive strength, fatigue index; determining oxygen debt and oxygen deficit). Determining stabile state (test selection, monitoring cardiac frequency, monitoring respiratory parameters, monitoring oxygen consumption). Determining cardiac frequency (palpation, auscultation, monitoring cardiac frequency – ECG). Measuring artery blood pressure (TA monitoring – while resting and in the course of functional tests). Dynamometry (familiarization with the device and basic parameters of dynamometric testing of muscle strength, arm flexor strength, testing arm extensor and leg extensor). Body composition testing – basic anthropometric measurement (basic instruments – scale pelvimeter, sliding caliper, caliper, tape measure); determining BMI; determining somatotype, Heath-Carter constitution calculation; determining body fat mass using bioelectric impedance.</p>
<b>Literature:</b>	<p><i>Literature in English:</i></p> <ol style="list-style-type: none"> <li>1. Costill D, Wilmore J.: Physiology of Sport and Exercise, Human Kinetics, Ravena Press, London, 2015.</li> </ol>

*Literature in Serbian:*

2. Grujić N.: Fiziologija sporta, udžbenik, Futura, Petrovaradin, 2000.
3. Pećina M. i sar.: Sportska medicina, udžbenik, Medicinski fakultet, Zagreb, 2003.
4. Banović D.: Povrede u sportu, udžbenik, Drašlar partner, Beograd, 2006.
5. Barak O. i sar.: Praktikum iz fiziologije sporta, Futura, Petrovaradin, 2006.
6. Nikolić Ž.: Fizikalna terapija lokomotornog aparata, Zavod za izdavanje udžbenika i nastavnih sredstava, Beograd, 2002.
7. Pećina M.: Sindromi prenaprezanja sustava za kretanje, Globus, Zagreb, 2006.

**Number of classes:**

Theoretical lectures	Theoretical exercises	Professional practice	Study research work (Degree Paper...)	Other forms of teaching (individual work with student, projects...)
30	30	0	0	0

**Methods of teaching:**

Lectures, exercises, case analysis, e-learning.

**Grading (maximum 100 points)**

Pre-Exam commitments	Points	Final Exam	Points
Lecture attendance	3	Exam	30
Activity	7		
Projects/Seminars	0		
Exercises/professional practice	40		
Colloquiums/exam	20		

## SURGICAL PATIENT NURSING

<b>Study program:</b>	Nursing			
<b>Type and level of study:</b>	undergraduate professional studies			
<b>Course:</b>	<b>Surgical Patient Nursing</b>			
<b>Language of instruction:</b>	English, Serbian			
<b>Subjects status:</b>	mandatory			
<b>Semester:</b>	third year, sixth semester			
<b>ECTS:</b>	8			
<b>Requirement:</b>	Basics of Nursing, Basics of Surgery with Orthopedics			
<b>Course objective:</b>	Acquisition of theoretical knowledge and skills in taking care of patients in all surgical branches.			
<b>Course outcome:</b>	Students will be able to practically apply the acquired knowledge in all surgical disciplines necessary to acquire skills in taking care of surgical patients from an aspect of nursing.			
<b>Course content:</b>	<p><i>Lectures</i></p> <p>Application of principles of asepsis and antisepsis in daily surgical practice; theoretical fundamentals: nursing of patients with conditions of digestive and endocrine system with locomotor system conditions, with surgical conditions and injuries of blood and lymph vessels, patients with burns, patients with surgical conditions and injuries of genitourinary tract, patients with surgical conditions and injuries of thoracic cage and lungs, patients with surgical conditions and injuries of central and periphery nervous system, patients with surgical conditions and injuries of heart, patients with malignant conditions, children as surgical patients (fundamentals), patients after organ transplantation. Principles and organization of work in operating theatre. Principles of semi-intensive and intensive nursing of surgical patients (fundamentals). Sepsis as a complication in surgical patients.</p> <p><i>Exercises</i></p> <p>Nursing of patients with surgical conditions of digestive and endocrine system. Nursing of patients with locomotor system conditions. Nursing of patients with surgical conditions and injuries of blood and lymph vessels. Nursing of patients with burns. Nursing of patients with surgical conditions and injuries of genitourinary tract. Nursing of patients with surgical conditions and injuries of thoracic cage and lungs. Nursing of patients with surgical conditions and injuries of central and periphery nervous system. Nursing of patients with surgical conditions and injuries of heart. Nursing of patients with malignant conditions. Nursing of patients after organ transplantation. Principles and organization of work in operating theatre.</p>			
<b>Literature:</b>	<p><i>Literature in English:</i></p> <ol style="list-style-type: none"> <li>1. Fisher R. A., Ahmed K., Dasgupta P.: Introduction to Surgery for Students, Springer, 2017</li> <li>2. Lewis L.S., Dirksen S.R., Heitkemper M.M., Bucher L.: Medical Surgical Nursing: Assessment and Management of Clinical Problems, textbook, Toronto, 2011.</li> </ol> <p><i>Literature in Serbian:</i></p> <ol style="list-style-type: none"> <li>3. Maksimović Ž.: Hirurgija, udžbenik, CIBID, Beograd, 2008.</li> <li>4. Dragović M.: Ambulantna hirurgija, Velarta, Beograd, 2006.</li> <li>5. Terzić N.: Zdravstvena nega u hirurgiji, Finegraf, Beograd, 2013.</li> <li>6. Stoiljković J.: Zdravstvena nega u hirurgiji, Altera Books, Beograd, 2014.</li> <li>7. Glišić R.: Zdravstvena nega u hirurgiji, Cicero, Beograd, 2011.</li> <li>8. Stevović M. i sar.: Hirurgija za studente i lekare, Savremena administracija, Beograd, 2000.</li> </ol>			
<b>Number of classes:</b>				
<b>Theoretical lectures</b>	<b>Theoretical exercises</b>	<b>Professional practice</b>	<b>Study research work (Degree Paper...)</b>	<b>Other forms of teaching (individual work with student, projects...)</b>
60	60	330	0	0
<b>Methods of teaching:</b>				
lectures against use of different video material, exercises, discussion, exercises on dummy, clinical practice				
<b>Grading (maximum 100 points)</b>				
<b>Pre-Exam obligations</b>	<b>Points</b>	<b>Final Exam</b>	<b>Points</b>	
Lecture assistance	3	Exam	30	
Activity	7			
Projects/Seminars	0			
Exercises/professional practice	40			
Colloquiums	20			