

**UNIVERSITY OF RUSE**  
**FACULTY**  
**OF PUBLIC HEALTH AND HEALTH CARE**

**Erasmus ECTS**  
**Information Package**

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# **UNDERGRADUATE STUDIES IN MIDWIFERY**

**PROFESSIONAL STANDARDS OF A BACHELOR IN MIDWIFERY**

Degree:	<b>Bachelor</b>
Professional Qualification:	<b>Midwife</b>
Duration:	<b>4 years (8 semesters)</b>

**The degree course in midwifery is a regulated profession from the professional field of Health care.**

A midwife acquires higher education after successful completion of an accredited higher education institution on the territory of the Republic of Bulgaria or the EU. Training in Bulgaria corresponds to the Ordinance on Unified state requirements / Decree 248 / 22.11.2005, Decree № 257 / 01.11.2010, Decree № 86 / 15.04.2016, Decree № 1 / 08.02.2011, Directive 2005 / 36 / EC and Directive 2013/55 / EC of the European Union and for the other EU Member States it complies with local legislation.

The practical training is carried out in hospitals that have received a positive accreditation assessment for education of students under Art. 90, para. 1 item 2 of the Law for the medical establishments. The diploma gives the right to practice the profession of a midwife.

**The educational goal** of the specialty is to prepare highly qualified specialists, competent to carry out promotive, preventive, curative activity and health education. The students gain theoretical knowledge and acquire the necessary practical skills and competencies to be able to provide obstetric care, at the level of individuals and their families, as well as on a group level. On a group level, students will participate in the prevention of motherhood and childhood health and in the health education of the population. On an individual level patiently listening to and supporting the patient will allow students to receive in-depth information to make comprehensive, systematic and accurate assessment of the patient's needs for obstetric care. This will lead to the development of a quality plan for the realization and provision of individual and complete obstetric care.

The final outcomes of the training consist of acquiring competencies in the following areas:

- **General skills** – communication skills, language and computer skills, ability to effectively assess functional capacity based on clinical thinking, use of information technology capability for continuous professional development and teamwork.
- **Knowledge of basic science** – biological, humanitarian and clinical disciplines.
- **Specific skills and competencies** in the field of general nursing and midwifery care and their specificity in different age groups and nosological units. Skills and competencies to solve gynecological, somatic, psychological and social problems of the person or the group. Forming a proper clinical and practical experience in working with other medical professionals. Competence allowing midwife to assume fully and to the extent necessary liability, except in pathological cases to monitor the prenatal phase and provide prenatal care, childbirth and subsequent manipulations, postnatal care and to revive the newborn until the arrival of a doctor. Competence for providing advice on her own and also providing guidance and support to patients and their relatives. Competence to analyze the quality of health care in order to improve personal professional practice. Competences to carry out medical and health care activities, socialization, readaptation and rehabilitation. Ability to perform manipulations - intradermal, subcutaneous, intramuscular, intravenous injections, intravenous infusions and other treatments and activities regulated as individual and by medical appointments in the Ordinance № 1 of 08.02.2011 on professional activities that nurses, midwives, associated medical specialists and healthcare assistants can carry out by appointment or on their own.
- **Knowledge of specific conditions** – health system, ethical, moral and legal norms, the role of other professionals of the multidisciplinary team. The profession of the midwife requires dynamism, security and employment opportunities in terms of emotional and intellectual tension load.

The curriculum was developed in compliance with the Unified State Requirements for acquiring higher education in Midwifery with "Bachelor" degree, the Bologna Declaration and the ECTS system for accumulation and transfer of credits in higher education. Training is done through obligatory, compulsory elective and optional subjects.

**Compulsory courses are grouped in the following modules:**

- *Basic humanities* – develop communication skills to communicate with patients and their relatives, analysis and use of specialized information. They provide knowledge about professional ethics and deontology and the necessity to respect the principles of confidentiality. Acquisition of knowledge in medical psychology and medical education, informatics, principles and methodology of training;
- *Basic medical-biological disciplines* – they provide a theoretical basis for building specialized training. The module includes courses in anatomy, biochemistry, physiology, hygiene, disaster management, Latin medical terminology;
- *Clinical disciplines* – they provide knowledge about the basic pathological processes and disease states in the field of obstetrics, gynecology, neonatology, internal medicine, pediatrics, neurological and psychiatric diseases, surgical diseases, otorhinolaryngological and ophthalmic diseases, infectious diseases;
- *Special disciplines* – integrated knowledge of structural and functional abnormalities in the overall therapeutic approach and in particular the specialized use of obstetric care in various diseases. This cycle includes the following courses: Introduction to Philosophy and nursing and midwifery care unit, Practical basics of nursing and obstetric care, including: Special care for pregnant women with normal and abnormal pregnancy, Special care for pregnant mothers and gynecological patients with somatic diseases care in gynecological diseases, special care for pregnant women and mothers with surgical diseases, special care at birth, normal and pathological childbirth care in women with normal and pathological puerperium, Special care for pregnant mothers and gynecological patients with infectious and venereal diseases, special care for pregnant mothers in anesthesiology and intensive therapy, special care for children in neonatology and pediatrics.

**Elective and optional courses provide an opportunity** to acquire specific knowledge and skills depending on the interests of students.

**The practical training is conducted through:**

- *Clinical Practice - 1140 hours (from I to VI semester).*
- *Pre-graduation internship - 2 x 800 astronomic hours (20 weeks) in the VII<sup>th</sup> and VIII<sup>th</sup> semester.*

Higher education training in midwifery at a bachelor degree ends with state exams in:

1. Philosophy of obstetric care. Theoretical and practical foundations of general and special obstetric care.
2. Neonatology and pediatric diseases - midwifery and care activities.
3. Obstetrics and gynecology – obstetric care and activities.
4. Social medicine with health promotion and social and health legislation.

### **Career prospects:**

The acquired volume of theoretical and practical training of the midwife gives her the right to work in gynecological institutions and departments of medical-prophylactic network – maternity ward with delivery room, neonatology department, risk pregnancy, gynecology, all surgeries in obstetrics-gynecology wards, outpatient care, infertility units, socio-legal, colposcopy, children and youth, office for check-ups, medical and genetic counseling units for family planning, preventive compartments for mass screening, cancer hospitals, wards and offices in specialized sanitary-resort establishments, AG departments and offices in other specialized hospitals, scientific research medical institutes, departments of anesthesiology, resuscitation and intensive care.

The midwife has the right to organize and manage health structures for health promotion, preventive health care, health education and training for pregnant mothers and their families – women and children counseling, schools for parents, schools of nursing and others.

The harmonization of preparation of Midwives with Directive 2005/36/EC of the European Parliament and the Council of 07.09.2005, and the Directive 2013/55/EC on the recognition of professional qualifications is a prerequisite for future compatibility of diplomas.

The diploma also gives the opportunity for continuing education of the midwife to acquire majors, according to Ordinance № 1 of 01.22.2015 on acquiring specialty in the healthcare system, issued by the Minister of Health, prom. SG. 7 on 01/27/2015. The midwives can continue their education in master educational degree in Management of health care; acquisition of educational degree "Master" in Public Health and Health Management and the specialty Clinical Social Work, receiving other training in other universities in Bulgaria; acquiring educational and scientific degree "Doctor" in Management of Health Care.

**CURRICULUM**  
of the degree course in MIDWIFERY

**First year**

<b>Code</b>	<b>First term</b>	<b>ECTS</b>	<b>Code</b>	<b>Second term</b>	<b>ECTS</b>
S02721	Human Anatomy	3	SB10056	Human physiology and pathological physiology	4
S01247	Medical equipment in obstetrics and gynaecology	1	S00098	Human general clinical pathology	1
S04125	Medical psychology	2	SB14358	Obstetrics I	6
SB10085	Sexology and family planning	2	S04064	Clinical laboratory and biochemistry	2
SB10050	Philosophy and introduction to nursing and midwifery care I	6	SB10058	Philosophy and introduction to nursing and midwifery care II	2
SB10051	Special care for pregnant women with normal pregnancy	4	SB10076	Special care for gynaecological conditions	3
S02761	Latin with medical terminology	2	S01058	Internal diseases	2
S02757	Information technologies	4	SB10060	Clinical practice II	7
SB10052	Clinical practice I	4	SB14365	Special care for pregnant women, women in labour and gynaecological conditions with infectious and venereal diseases	1
S01329	Medical nutrition	1	<b>Elective courses (students choose one course)</b>		
S02054	Hygiene and Ecology	1	SB14360	Women's consultation in normal and pathological pregnancy	2
			SB15303	Obstetric care for sexually transmitted diseases	2
	<b>Total for the term:</b>	<b>30</b>		<b>Total for the term:</b>	<b>30</b>
SB13965	Sports	2	SB13965	Sports	2

## Second year

<b>Code</b>	<b>Third term</b>	<b>ECTS</b>	<b>Code</b>	<b>Fourth term</b>	<b>ECTS</b>
SB14361	Obstetrics II	6	SB10064	Obstetrics III	5
SB10065	Gynecology I	3	SB10075	Gynecology II	4
S04116	Pediatrics	2	S04120	Dermatology and venerology	1
S01239	Psychiatry	1	S04121	Anaesthesiology, resuscitation and intensive care	2
S04101	Microbiology, parasitology and virology	2	SB10059	Pharmacology	3
S02049	Surgery		SB10077	Special care during normal and pathological delivery II	2
S14362	Special care for pregnant women and women in labor with surgical diseases	2	SB14363	Special care of women with normal and pathological puerperium	4
S04115	Special care for pregnant women with pathological pregnancy	1	S04007	Neurology	1
SB10066	Special care during normal and pathological delivery I	4	S04111	Principles and methodology of teaching	3
SB10067	Clinical practice III	7	SB10079	Clinical practice IV	7
		1			
<b>Optional disciplines</b>			<b>Optional disciplines</b>		
SB10071	Foreign language	6	SB10080	Foreign language	6
SB13764	Health economics	2	SB10082	Research methodology	2
SB13965	Sports	1	SB13965	Sports	1
	<b>Total for the term:</b>	<b>30</b>		<b>Total for the term:</b>	<b>30</b>

## Third year

<b>Code</b>	<b>Fifth term</b>	<b>ECTS</b>	<b>Code</b>	<b>Sixth term</b>	<b>ECTS</b>
S04124	Infectious diseases and epidemiology	2	SB10088	Special care for children in neonatology and pediatrics	4
S02053	Medical genetics	2	SB15146	Physiotherapy and rehabilitation	1
SB14364	Obstetrics IV	3	SB10089	Social and health legislation	2
SB10083	Gynecology III	5	S04081	Otorhinolaryngology	1
S00104	Medical imaging in obstetrics and gynecology	1	S04084	Medical provision in disasters	2
S02057	Medical ethics and deontology	2	SB15675	Obstetric and nursing care for women with oncology conditions	2
S04073	Ophthalmology	1	SB10090	Clinical practice VI	12
SB14366	Special care for pregnant and women in labour in anaesthesiology and intensive therapy	2	S04044	Neonatology	2
SB10086	Clinical practice V	10	S02052	Social medicine and health promotion	2
SB14359	Special care for pregnant women, women in labour and gynaecological conditions with somatic diseases	2			
<b>Optional disciplines</b>			<b>Elective courses (students choose one course)</b>		
SB10087	Operating equipment	2	SB15254	Affective disorders	2
SB13965	Sport	1	S02051	Nursing and obstetric care in outpatient care	2
	<b>Total for the term:</b>	<b>30</b>		<b>Total for the term:</b>	<b>30</b>

## Fourth year

<i>Code</i>	<i>Seventh term</i>	<i>ECTS</i>	<i>Code</i>	<i>Eighth term</i>	<i>ECTS</i>
SB10094	Pre-graduation internship	25	SB10095	Pre-graduation internship	25
			<b>Graduation</b>		
			S04138	State Examinations: Philosophy of obstetric care. Theoretical and practical foundations of general and special obstetric care	3
			S04139	Neonatology and pediatrics - obstetric activities and care	2
			S04140	Obstetrics and gynecology - obstetric activities and care	3
S04141	Social medicine with health promotion and social and health legislation	2			
<b>Total for the term:</b>		<b>25</b>	<b>Total for the term:</b>		<b>35</b>

**Total for the course of study: 240 ECTS credits**



**S02721 Human Anatomy****ECTS credits:** 3**Assessment:** exam**Departments involved:**Department of Health Care,  
Faculty of Public Health and Health Care**Lecturers:**Assoc. Prof. Dimitar Stavrev, dept. of Public Health and Social Work, GSM: +359 895 718 773,  
E-mail: dgstavrev@abv.bg**Abstract:**

Purpose and objectives of the course is to provide midwives to get a system of knowledge about the structure of the human body. The anatomy training covers knowledge of biomechanics of the locomotor system, the nervous, endocrine, digestive, cardiovascular, respiratory, urinary, male and female reproductive system.

**Course content:**

The program includes topics affecting the structure of the human body - joints, internal organs, circulatory system, nervous system and sensory organs.

**Teaching and assessment:**

Classes – lectures and practical exercises are conducted in specialized rooms and in real conditions. Current control is conducted through lectures and exercises. The final grade is formed after the exam.

**Weekly classes:** 2l+0s+0lab+1p**Type of exam:** oral and practical**S01247 Medical Equipment in Obstetrics and Gynecological Practice****ECTS credits:** 1**Assessment:** exam**Departments involved:**Department of Health Care,  
Faculty of Public Health and Health Care**Lecturers:**

Assoc. Prof. Anelia Manukova, E-mail: amanukova@uni-ruse.bg, dept. of Public Health,

**Abstract:**

The course aims at acquainting the students with the methodological and equipment problems of modern biomedical engineering, introducing students to the main areas of application of technical equipment in obstetrics and gynecological practice. Practical exercises are aimed at creating skills for experimental studies of various medical apparatus and solving tasks in the field of clinical applications.

**Course content:**

Biological action of the electric current and electrical requirements. Electromagnetic background, optical recording apparatus of biopotential-electrocardiogram. Measuring temperature, blood flow and pressure. Incubators and anesthesia-breathing apparatus. Sterilizers.

**Teaching and assessment:**

The lectures give the main theoretical knowledge through demonstrations of electronic medical devices and medical systems. Practical exercises help students acquire the skills and habits of independent work with various medical devices and medical systems. The final assessment is based on a written exam.

**Weekly classes:** 0,5l+0s+0lab+0,5p**Type of exam:** oral and practical

**S04125 Medical Psychology****ECTS credits:** 2**Assessment:** exam**Department involved:**

Department of Health Care

Faculty of Public Health and Health Care

**Lecturers:**

Assoc. Prof. Silvia Krushkova, PhD, dept. of Health Care, GSM: +359882517554,

E-mail: krovshkova@mail.bg

**Abstract:**

The objective of the course in Medical Psychology is to give students knowledge about the main psychological and social problems, which occur as a result of psychic or psychological disorders or somatic deficit taking into consideration the bio-psychosocial model of the psychological and adaptive disorders.

**Course content:**

The course includes different aspects (biological, social, psychological and clinical) of people with somatic, psychic or psychological deficit and the psychological and adaptive disorders, which have appeared as a result to these factors. The objective of the course on Medical Psychology is to give the students from the degree course Midwife knowledge about the theoretical and applicable aspects by using the bio-psychosocial approach in the diagnostics, the rehabilitation and the consultation therapy by patients who need psychiatric or psychological help.

**Teaching and assessment:**

Teaching includes lectures and exercises. Computer presentations and multimedia are used during the lectures for visualizing the teaching process. The seminar exercises are held immediately after each lecture topic.

Methods of teaching: modern interactive methods – presentations, discussions, talks, case studies, and situational tasks. The use of case studies and situational tasks helps to develop the necessary skills of the students for work on their own. It stimulates their professional development and creative activity. The final mark is based on the 6 grade system. The minimum required level of competence is satisfactory 3. The grade is formed after a passed exam on an examination synopsis, covering the whole studied material.

**SB10085 Sexology and Family Planning****ECTS credits:** 2**Assessment:** exam**Departments involved:**

Department of Health Care

Faculty of Public Health and Health Care

**Lecturers:**

Assoc. Prof. Pencho Genov, MD, PhD, dept. of Health Care, GSM: +359895606380, E-mail: pgenov@uni-ruse.bg

Assist. Prof. Kina Velcheva, PhD, dept. of Health Care, GSM: +359 884 327 341, E-mail: kvelcheva@uni-ruse.bg

**Abstract:**

The aim of the training in Sexology and family planning is to provide students upgradeable competence to work in outpatient and stationary gynecological and general medical sectors, consultant services for family planning, as well as related activities in the field of sexual and reproductive health.

**Course content:**

The program includes educational content related to basic knowledge about human sexuality, sexual and reproductive health, the consultation process and consulting skills needed to work effectively in the field of family planning

**Teaching and assessment:**

Training is conducted in the form of lectures and practical exercises. Lectures are held in the auditorium equipped with visualization tools. Practical exercises are conducted immediately following the lecture topic and are conducted in accredited clinical training facilities for students whose major degree course is in "Midwife" University of Ruse. Teaching methods: modern interactive methods - presentation, discussion, lectures and case studies. The final result is a six-point scale, with the minimum required level of competence is Satisfactory (3). It is formed after an examination, to establish a compendium including all the studied material.

**SB10050 Philosophy and Introduction to Nursing and Midwifery Care I****ECTS credits:** 6**Assessment:** exam**Departments involved:**

Department of Health Care

Faculty of Public Health and Health Care

**Lecturers:**

Prof. Ivanichka Serbezova, PhD, dept. of Health Care, GSM: +359 888731063, E-mail: iserbezova@uni-ruse.bg

Sen. Assist. Prof. Kina Velcheva, PhD, dept. of Health Care, GSM: +359 884 327 341, E-mail: kvelcheva@uni-ruse.bg

Sen. Assist. Prof. Yoana Lukanova, PhD, dept. of Health Care, GSM.: +359 885047644, E-mail: ylukanova@uni-ruse.bg

Sen. Assist. Prof. Tsveta Hristova, PhD, dept. of Health Care, GSM.: +359 878389793, E-mail: tshristova@uni-ruse.bg

**Abstract:**

The aim of the course is to reveal and clarify the nature of general and special nursing and midwifery care and their specificity for different women - healthy and sick, in a different age range. The course lays the foundations of knowledge, skills and competencies on which the future professional midwife will be formed. The course is fundamental to the theory and practice of nursing and midwifery care.

**Course content:**

The course deals with the philosophical aspects of obstetrics and sisterhood; communications midwives, nursing and midwifery approach to care, supervision, registration and assessment of functional status of the patient's drug therapy, injection technique.

**Teaching and assessment:**

Training is conducted in the form of lectures and practical exercises. Lectures are held in the lecture hall, well equipped with the necessary visual aids. Practical exercises are conducted in specialized classrooms of Obstetrics and Gynecology, Complex for professional field "Health Care" at University of Ruse. The final grade is based on the exam, which is in two parts. The theoretical part of the exam is based on the lecture topics and practical exercise.

**SB10051 Special Care for Pregnant Women with Normal Pregnancy****ECTS credits:** 4**Assessment:** exam**Departments involved:**

Department of Health Care

Faculty of Public Health and Health Care

**Lecturers:**

Prof. Ivanichka Serbezova, PhD, dept. of Health Care, GSM: +359 888731063, E-mail: iserbezova@uni-ruse.bg

Sen. Assist. Prof. Yoana Lukanova, PhD, dept. of Health Care, GSM.: +359 885047644,

E-mail: ylukanova@uni-ruse.bg

Sen. Assist. Prof. Tsveta Hristova, PhD, dept. of Health Care, GSM.: +359 878389793,

E-mail: tshristova@uni-ruse.bg

**Abstract:**

The discipline aims at revealing and clarifying the character of general and special nursing and obstetric care and their specificity in pregnant women with normal pregnancy and at laying the foundations of knowledge, skills and competencies on which the professionalism of future midwives will be formed. The course lays the foundation for studying the discipline "Special care for pregnant women with abnormal pregnancy", taught in the third semester after learning of Obstetrics I and II. The subject in the first semester provides a logical connection of the knowledge, skills and competences required in the unified national requirements in Practical foundations of nursing and midwifery care.

**Course content:**

Topics included: special hygienic care for pregnant women with normal pregnancy, taking obstetric history, signs of early and late pregnancy. inspection, palpation, auscultation of pregnant, working with monitor and obstetrical ultrasound equipment. Practical exercises include hygiene care, feeding pregnant, research and recording of physiological indices, therapy, injection technique.

**Teaching and assessment:**

Training is conducted in the form of lectures and practical exercises. Training media include: multimedia, interactive boards, panels, models, phantom, simulated patient, simulated and real hospital environment, computers, videos that are WEB based and used as preparation for the practical exercise and the verification of the acquired skills. The final result is a six-point scale, and is formed after the test, which is in two parts, theoretical and practical training, pre-prepared syllabus in 2 parts, including all the studied material.

**S02761 Latin with Medical Terminology****ECTS credits:** 2**Assessment:** exam**Departments involved:**

Department of Health Care

Faculty of Public Health and Health Care

**Lecturers:**

Assoc. Prof. Nikolina Angelova, PhD, MD, dept. of Health Care, GSM: +359 888 747 347,

E-mail: nangelova@uni-ruse.bg

Assist. Prof. Maya Stoyanova, tel.+359 82 845 281, E-mail: mstoyanova@uni-ruse.bg

**Abstract:**

The training aims at introducing the students to the most significant and necessary minimum for proper handling of medical and scientific terminology. On the basis of the covered grammatical and lexical minimum at the end of the course students should be able to read and translate with a dictionary older Latin texts to learn medical scientific terminology. Learning Latin phrases and sentences will expand general language and cultural horizons.

**Course content:**

Alphabet. Pronunciation. Parts of speech. Verb - conjugation. Noun. Adjective. Pronoun. Numerals. Declensions. Word formation. Recipe. Dosage forms

**Teaching and assessment:**

The methodology of work is consistent with the specifics of the Midwife syllabus. The exercises are held in small groups in which each student has the maximum opportunity for personal expression.

**Weekly classes:** 1l+0s+0lab+1p**Type of exam:** oral and practical**S02757 Informatics****ECTS credits:** 4**Assessment:** exam**Departments involved:**

Department of Informatics and Information Technologies

Faculty of Public Health and Health Care

**Lecturers:**

Assoc. Prof. Desislava Atanasova, PhD, dept. of Informatics and Information Technologies, tel.+359 888 326,

E-mail: datanasova@uni-ruse.bg

**Abstract:**

The course aims at familiarizing students with the computer as a technical tool that make it an invaluable assistant in the daily work of spetsialists from all areas. The aim of the exercises is acquiring knowledge and skills to work with modern software for word processing, spreadsheets and graphic systems.

**Course content:**

A brief history of the development of computers. Characteristics of generations and computers. Classification of computers. Operating and programming part. Operating Systems. Operating systems with graphical interface. Word processing systems - nature, purpose, opportunities. Known word processing systems. Spreadsheets - nature, purpose. Spreadsheets, basic built-in functions, formulas, the most widely used spreadsheet. Computer networks.

**Teaching and assessment:**

Lectures are held every other week. Exercises are aimed to deepen knowledge of lectures and acquire skills for independent work with certain software. Students must first get acquainted with material on the topic. At the end of the course there is a written exam, which is held in the form of a test.

**Weekly classes:** 1l+0s+0lab+3p**Type of exam:** written, practical

**SB10052 Clinical Practice I****ECTS credits:** 4**Assessment:** exam**Departments involved:**

Department of Health Care

Faculty of Public Health and Health Care

**Lecturers:**Prof. Ivanichka Serbezova, PhD, dept. of Health Care, GSM: +359 888731063, E-mail: [iserbezova@uni-ruse.bg](mailto:iserbezova@uni-ruse.bg)

Sen. Assist. Prof. Yoana Lukanova, PhD, dept. of Health Care, GSM.: +359 885047644,

E-mail: [ylukanova@uni-ruse.bg](mailto:ylukanova@uni-ruse.bg)

Sen. Assist. Prof. Tsveta Hristova, PhD, dept. of Health Care, GSM.: +359 878389793,

E-mail: [tshristova@uni-ruse.bg](mailto:tshristova@uni-ruse.bg)**Weekly classes:** 0l+1s+0lab+6p**Type of exam:** oral and practical**Abstract:**

The training is an organized educational process in which students apply knowledge and skills in real clinical work with pregnant women, birth, mothers, newborns and gynecologically ill women. The purpose of clinical practice is reinforcing knowledge of biological, medical, clinical and humanities and their formation on the cognitive and practical skills and habits of nursing and midwifery care.

**Course content:**

The course includes knowledge about the structure and character of work in the Maternity Ward, the Department of high-risk pregnancy and gynecology. Students are introduced to real clinical setting and patient as a learning tool. Application of hygienic care is included, research and registration of basic vital signs, aseptics and antiseptics.

**Teaching and assessment:**

Conducting business in clinical practice include: organizing a group to work through the allocation of general and individual tasks and carrying out instructions related to specific practical activities for the day, talks to update knowledge and skills needed for the theme of the day clinical practice, introduction to clinical cases demonstrate some manipulations that may be required in the ward during the practice.

**S01329 Medical Nutrition****ECTS credits:** 1**Assessment:** exam**Departments involved:**

Department of Health Care

Faculty of Public Health and Health Care

**Lecturers:**

Assoc. Prof. Ognyan Sherbanov, MD, PhD, dept. of Public Health, GSM: +359 889 232744,

E-mail: [osherbanov@uni-ruse.bg](mailto:osherbanov@uni-ruse.bg)**Abstract:**

Purpose and objectives of the course: to prepare midwives to be able to build accurate, science-based nutritional diet. Its aim is to contribute to the realization of dietary nutrition in hospitals and therapeutic institutions sanatoriums, rehabilitation centers, and others. Expected outcomes (knowledge, skills, competences): to acquire knowledge of the body's energy balance, the body's metabolism, basic foodstuffs, the principles of a healthy and balanced diet; essence, principles and systems of medical nutrition; to get acquainted with the principles and requirements of the probe and parenteral nutrition.

**Course content:**

The course includes the following topics: importance of nutrition as a therapeutic and prophylactic factor, basic and additional nutrients, diseases caused by malnutrition, overfeeding and incorrect diet, diets to achieve a healthy body weight, basic and special dietary regimes.

**Teaching and assessment:**

Educational forms are lectures and practical exercises. Lectures and practical exercises are conducted in specialized rooms and in real situations. Continuous assessment is conducted during lectures and exercises. Final grade is formed after the exam in two parts – theoretical and practical.

**S02054 Hygiene and Ecology****ECTS credits:** 1**Assessment:** exam**Departments involved:**

Department of Health Care

Faculty of Public Health and Health Care

**Lecturers:**

Assoc. Prof. Margaritka Filipova, PhD, dept. of Thermotechnics, Hydraulics and Ecology, GSM: +359 887308311, E-mail: mfilipova@uni-ruse.bg

Stiliana Marinova, dept. of Health Care, GSM: 0882 252472, E-mail: smarinova@uni-ruse.bg

**Abstract:**

The main objective of the training of Hygiene and Ecology is application of theoretical and practical knowledge on hygiene-related living and labor conditions and human nutrition, respectively adolescent, and the impact of environmental factors on human health and performance.

**Course content:**

The content of the syllabus includes the following modules: Subject and tasks; environmental factors. Hygiene and ecology of air, settlements, housing and medical institutions. Management of hospital waste. Food hygiene. Morbidity and its relation to environmental factors. Work environment factors. Pregnancy and prevention of environmental factors.

**Teaching and assessment:**

The main forms of training are lectures and practical exercises. Lectures are held in the auditorium equipped with visualization tools. Practical exercises are conducted immediately following the lecture topic and are held in specialized laboratories. Test and participation of students in the classes are formed assessment of the current control. The final grade is based on a written exam.

**SB10056 Human Physiology and Pathological Physiology****ECTS credits:** 4**Assessment:** exam**Departments involved:**

Department of Health Care

Faculty of Public Health and Health Care

**Lecturers:**

Assoc. Prof. Yulia Pulova, MD, PhD, dept. of Health Care, GSM: +359 882 252 472

**Abstract:**

The purpose of the discipline is students to acquire theoretical and practical knowledge about the biological and physiological mechanisms of the cellular, tissue. The expected results are acquiring knowledge, skills and formation of clinical thinking for proper planning and implementation of Midwifery care.

**Course content:**

The subject includes topics from the following areas: Material essence of life. Compounds that make up the body. Regulations of physiological functions. Cell. Blood and lymph. Physiology of physical activity. Peripheral nervous system. Endocrine system. Urinary system. Reproductive system. Health and disease. Heredity and variability.

**Teaching and assessment:**

The main forms of conducting classes are lectures and practical exercises. Continous assessment is done through tests after studying each section. There is a written exam at the end of the course.

**Weekly classes:** 11+0s+0lab+1p**Type of exam:** oral and practical

**S00098 Human General Clinical Pathology****ECTS credits:** 1**Assessment:** exam**Departments involved:**

Department of Health Care

Faculty of Public Health and Health Care

**Lecturers:**Assoc. Prof. Petar Genev, MD, PhD, dept. of Health Care, tel.: +359 885 163 760, E-mail: [ghenev@gmail.com](mailto:ghenev@gmail.com)**Abstract:**

Purpose and objectives of the course is the education of midwives to get a system of knowledge and skills about the clinical pathology. Students should become familiar with the morphological changes of the most common nosological units. Diseases, which are related to the external environment, are studied during the course. The basic pathological processes and mechanisms of pathological changes in the bodies of systems for different diseases are studied.

**Course content:**

To acquire knowledge - theoretical and practical for self-application. Midwifery in various pathological processes and complications occurring in the body; professional competence in a team work and individual work of the midwife and responsibility and love the profession.

**Teaching and assessment:**

Classes - lectures and exercises are conducted in specialized surgeries in real conditions. Continuous assessment is conducted during the lectures and exercises. The final grade is formed after an exam.

**SB14358 Obstetrics I****ECTS credits:** 6**Assessment:** exam**Departments involved:**

Department of Health Care

Faculty of Public Health and Health Care

**Lecturers:**

Prof. Atanas Shterev, PhD, dept. of Public Health, tel.+359 82 888 421

Prof. Tanya Timeva, PhD, dept. of Public Health, tel.+359 02 9200901, [ttimeva@uni-ruse.bg](mailto:ttimeva@uni-ruse.bg)Assoc. Prof. Nadya Magunska, MD, PhD, dept. of Public Health, tel.: .+359 2 920 0901; e-mail: [nmagunska@uni-ruse.bg](mailto:nmagunska@uni-ruse.bg)**Abstract:**

Training in obstetrics aims at developing future midwifery knowledge, skills, habits and competencies in relation to the performance of individual tasks and teamwork. The main object of obstetrics is the care for women during pregnancy, childbirth and the postpartum period, protection and preservation of the normal functioning of the female reproductive system.

**Course content:**

The course includes educational content related to the medical care of pregnant women with a normal pregnancy. The topics, which are discussed, are special anatomical and physiological characteristics of the female and male reproductive system, physiology of normal pregnancy, diagnosis of pregnancy and organization of the processes in antenatal care.

**Teaching and assessment:**

Lectures are conducted in front of a specialized audience for training in obstetrics and gynecology, equipped with a corresponding projection equipment - multimedia computer presentations. Practical exercises are conducted in a specialized classroom of Obstetrics and Gynecology, which uses models, simulated patient and simulated hospital environment, as well as in a real hospital environment in Obstetrics and Gynecology Hospital complex – Ruse and SAGBAL "Dr. Shterev" – Sofia. The final assessment is formed after the semester examination. The written exam consists of two parts – theoretical and practical. The theoretical part covers issues from the lectures and the practical one – questions and tasks of practical exercises.

**S04064 Clinical Laboratory and Biochemistry****ECTS credits:** 2**Assessment:** exam**Departments involved:**

Department of Health Care

Faculty of Public Health and Health Care

**Lecturers:**

Assoc. Prof. Maria Radanova, PhD, dept. of Health Care, tel.: +359 82 888 421, E-mail: m\_radanova@abv.bg

**Abstract:**

The main goal of training in Clinical Laboratory, Biochemistry and Immunology is to give students basic concepts of biological macromolecules of chemical processes that take place in the body of the interactions between them and the mechanisms that regulate them, as well as knowledge to solve specific tasks related to certain emergency and urgent health conditions.

**Course content:**

The content of the curriculum includes the following modules: biomolecules. Metabolism. Metabolism of carbohydrates. Digestion. Immunity. The flow of genetic information. Express methods in clinical laboratory.

**Teaching and assessment:**

The main forms of conducting classes are lectures and practical exercises. Lectures are held in the auditorium equipped with visualization tools. Practical exercises are conducted immediately following the lecture topic and are held in specialized laboratories. Checking and evaluation of the educational content from the lectures is done by test. The mark of the continuous assessment is formed on the basis of the test and the participation of students in the classes. The final grade is based on a written exam.

**Weekly classes:** 1,5l+0s+0lab+0,5p**Type of exam:** oral and practical**SB10058 Philosophy and Introduction to Nursing and Midwifery Care II****ECTS credits:** 2**Assessment:** exam**Departments involved:**

Department of Health Care

Faculty of Public Health and Health Care

**Lecturers:**

Prof. Ivanichka Serbezova, PhD, dept. of Health Care, GSM: +359 888731063, E-mail: iserbezova@uni-ruse.bg

Sen. Assist. Prof. Yoana Lukanova, PhD, dept. of Health Care, GSM.: +359 885047644, E-mail: ylukanova@uni-ruse.bg

Sen. Assist. Prof. Tsveta Hristova, PhD, dept. of Health Care, GSM.: +359 878389793, E-mail: tshristova@uni-ruse.bg

**Abstract:**

The curriculum aims at further clarifying the nature of general and special nursing and midwifery care and their specificity for different women - healthy and sick at a different age, skills and competencies will reveal high professional skills of midwife in future; complementing the scientific status of the theory of health care in the context of the problems of ethics and deontology.

**Course content:**

It deals with topics of nursing and midwifery activities in the general ethical and medical care.

**Teaching and assessment:**

Training is conducted in the form of lectures and practical exercises. Lectures are placed in a modern equipped room for visual presentations. Practical exercises are held in obstetric halls, rooms and different wards - a virtual laboratory located in the housing university. The used methods are interactive: presentation, lecture, discussion, demonstration, individual work in small groups, case studies, role plays, work in virtual labs, multimedia, interactive boards, panels, models, phantom simulating patient, real and simulated hospital environment, computers, and details of the script readers theater and the role and situational games. The final evaluation is formed after the test - theoretical and practical training, pre-prepared syllabus in 2 parts, including all the studied material.

**Weekly classes:** 1l+1s+0lab+1p**Type of exam:** oral and practical



**SB10076 Special Care for Gynaecological Conditions****ECTS credits:** 3**Assessment:** exam**Departments involved:**

Department of Health Care

Faculty of Public Health and Health Care

**Lecturers:**

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Sen. Assist. Prof. Tsveta Hristova, PhD, dept. of Health Care, GSM.: +359 878389793, E-mail: tshristova@uni-ruse.bg

**Abstract:**

The discipline Special care in gynecological diseases aims at revealing and clarifying the nature of general and special nursing and obstetric care and their specificity in women with gynecological diseases, to continue building skills and competencies that will form the professionalism of future midwife. The subject has cross-curricular links with clinical disciplines: Practical basics of nursing and obstetric care, Philosophy and introduction to nursing and obstetric care, clinical practice.

**Course content:**

Course content includes study of competencies of the midwife in gynecological stationary, working with tools and documentation research; benign diseases of female genitalia; infertility as a problem; gynecological diseases in childhood.

**Teaching and assessment:**

The training takes form of lectures and practical exercises. The lecture is accompanied by presentations. Practical exercises upgrade the lecture content and specify for each of the discussed problems and diseases. Methods, which are used, include explanation, lecture and discussion. They aim at provoking students to take part in the discussed topics. Teaching methods include practical exercises, interactive tools, work in small groups, case studies, performing a demonstration of the studied manipulation and providing appropriate patients. The final assessment is according to the six-point scale. It is formed after the exam – which has a theoretical and practical part.

**S01058 Internal Diseases****ECTS credits:** 2**Assessment:** exam**Departments involved:**

Department of Health Care

Faculty of Public Health and Health Care

**Lecturers:**

Prof. Dobrin Vasilev, MD, PhD, dept. of Health Care, tel.: +359 82 888 421,

E-mail: dobrinv@gmail.com

Assoc. Prof. Ognyan Sherbanov, MD, PhD, dept. of Health Care, tel.: +359 82 502 430,

E-mail: osherbanov@uni-ruse.bg

**Abstract:**

The course aims at providing advanced theoretical knowledge of internal diseases and forms practical skills of midwives related to the construction of diagnosis, treatment and care of patients. Training content is organized into modules that are based on the form of study - the lecture topics are digestive and urinary system, diseases of the locomotor system, diseases of the blood and the haematopoietic system, toxicology and allergic diseases. The exercises are on the lecture topic.

**Course content:**

Training content is organized into modules that are according to the studied material- lecture topics include diseases of the gastrointestinal tract, diseases of the liver and biliary system, diseases of the locomotor system, diseases of the blood and the haematopoietic system, toxicology and allergic diseases.

**Teaching and assessment:**

The main forms of conducting classes are lectures and practical exercises. Lectures are held in a lecture hall equipped with visualization tools. Practical exercises are conducted immediately following the lecture topic and are held in the ward for internal diseases of the hospital in Ruse. Checking and evaluation of the educational content from the lectures is conducted by a test. The mark of the continuous assessment is formed on the basis of the test and the participation of students in the classes. The final assessment on the subject is formed after the exam which has two parts - theoretical and practical.

**Weekly classes:** 1,5l+1s+0lab+0,5p**Type of exam:** oral and practical

**SB10060 Clinical practice II****ECTS credits:**7**Assessment:** exam**Departments involved:**

Department of Health Care

Faculty of Public Health and Health Care

**Lecturers:**

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Sen. Assist. Prof. Tsveta Hristova, PhD, dept. of Health Care, GSM.: +359 878389793, E-mail: tshristova@uni-ruse.bg

**Abstract:**

The training is an organized educational process in which students apply knowledge and skills in real clinical work with pregnant women, birth, mothers, newborns and gynecological patients.

**Course content:**

Understanding the structure and nature of work in the delivery room. Adoption of a pregnant birth. Shaping the documentation for the adoption of birth and placement in the delivery room. Keeping a first birth and newborn care clearance documentation. Breast care and lactation in the normal puerperium.

**Teaching and assessment:**

Clinical practice is conducted in the following databases: Maternity Ward, gynecology, high risk pregnancy ward, ward for newborns. Clinical practice is organized and managed by an assistant, as its primary task is to be familiar with the specifics of operation of the unit to be able to immediately organize, manage, supervise, train, evaluate and be responsible for the working students. The final mark is an exam consisting of two parts - theoretical and practical part.

**SB14365 Special Care for Pregnant Women, Women in Labour and Gynaecological Conditions with Infectious and Venereal Diseases****ECTS credits:** 1**Assessment:** exam**Departments involved:**

Department of Health Care

Faculty of Public Health and Health Care

**Lecturers:**

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Sen. Assist. Prof. Yoana Lukanova, PhD, dept. of Health Care, GSM.: +359 885047644,

E-mail: ylukanova@uni-ruse.bg

**Abstract:**

The course has the objective to show and clarify the character of the special cares of the nurses and midwives and their specific nature for women with infectious and venereal diseases, to widen and deepen the knowledge, skills and competences, on whose basis the professionalism of the future midwife will be formed.

The objectives of the subject derive from its purpose and they are applied in the topics of the course: to underline the scientific status of the obstetric cares of women with infectious and venereal diseases; to show the necessity for general and special cares by midwives and nurses, to give the necessary knowledge for organizing the treatment process.

**Course content:**

Infection by herpes simplex virus. Reason, clinical forms and diagnosis. Behavior and cares of women with herpes infections. Modern concepts and theories about prevention of infections, caused by the papillomavirus. Vaccines, infections and pregnancy. General concepts. Rubella and pregnancy. Behavior and cares. Prevention. Hepatitis and pregnancy. Etiology, clinic, diagnosis. Cares and behavior. Aids. Epidemic aspects. Treatment. Prevention.

**Teaching and assessment:**

Teaching includes lectures. Computer presentations and multimedia are used during the lectures for visualizing the teaching process. Methods of teaching and assessment: modern interactive methods – presentations, discussions, talks, case studies, situational tasks, role plays. The continuous assessment is done through discussions, answering to questions, didactic tests, use of case studies and situational tasks, independent work in small groups, demonstrations of the gained practical skills. There is a requirement for 100% attending the lectures. The final grade is based on a 6 point system.

**SB14360 SB14360 Women's consultation in normal and pathological pregnancy****ECTS credits:** 2**Assessment:** exam**Departments involved:**

Department of Health Care

Faculty of Public Health and Health Care

**Lecturers:**

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Prof. Tanya Timeva, PhD, dept. of Health Care, tel.+359 02 9200901,

Sen. Assist. Prof. Kina Velcheva, PhD, dept. of Health Care, GSM: +359 884 327 341, E-mail: kvelcheva@uni-ruse.bg

Sen. Assist. Prof. Yoana Lukanova, PhD, dept. of Health Care, GSM.: +359 885047644, E-mail: ylukanova@uni-ruse.bg

Sen. Assist. Prof. Tsveta Hristova, PhD, dept. of Health Care, GSM.: +359 878389793, E-mail: tshristova@uni-ruse.bg

**Abstract:**

The aim of the course is to keep the pregnancy and the health of the mother, to prevent complications to ensure a healthy and viable offspring. The applied prenatal care are preventive, diagnostic and therapeutic, as by diagnostics of patients in risk situations, they are directed at elective or emergency hospitalization. The certified midwife should be able to lead a major part of visits of antenatal care consultations and inform the obstetrician when registering deviations in developing pregnancy.

**Course content:**

The course includes several modules divided thematically and consistently: detailed exploration of the organization of work in antenatal care, monitoring the course of a normal pregnancy, frequency of visits and the types of investigations in the monitoring of risk pregnancies, recognition of predisposing factors and the final module is preparing for the upcoming birth.

**Teaching and assessment:**

The lectures are conducted in a specialized lecture hall, equipped with a corresponding projection equipment – multimedia computer presentations or real pre-hospital environment in Obstetrics and Gynecology Hospital complex – Ruse and SAGBAL "Dr. Shterev" – Sofia, where the students directly visit female consultation. The final assessment is formed after the semester examination. The exam is theoretical and covers issues from the lectures in a written form and further oral discussion aimed at ascertaining the level of acquired knowledge.

**SB15303 Obstetric care for sexually transmitted diseases****ECTS credits:** 2**Assessment:** exam**Departments involved:**

Department of Health Care

Faculty of Public Health and Health Care

**Lecturers:**

Assoc. Prof. Daniela Grozeva, MD, PhD, dept. of Health Care, GSM: +359 888594144;

E-mail: dgrozeva@uni-ruse.bg

**Abstract:**

Every student who has passed the course on the medico-social aspect of sexually transmitted infection should be able to assist in making diagnosis and treatment of sexually transmitted infection (as detailed in the curriculum), to assist in setting microbiological and mycological microscopic diagnosis of smear of skin and mucosa, and in placing the microscopic diagnosis.

**Course content:**

The curriculum includes studying of the following problems: structure of the visible mucous membranes - vermilion border and mucous membranes of the genitals. Anatomical, histological and ultrastructural device. Microbial flora in the mucous membranes. Methodological guidelines for offering counseling and testing for HIV. Viral infections. Genital herpes. Kaposi's sarcoma. Pointed warts. Virus infections and others.

**Teaching and assessment:**

The main forms of conducting classes are lectures. The course uses the following methods: lecture, discussion; observation; study of documents; project; appropriately selected tasks from practice, that illustrate and specify the theoretical material, are solved. Computer presentation and other visual materials are used.

**Weekly classes:** 2l+0s+0lab+0p**Type of exam:** written, oral**Weekly classes:** 2l+1s+0lab+0p**Type of exam:** written, oral

**SB14361 Obstetrics II****ECTS credits:** 6**Assessment:** exam**Departments involved:**

Department of Health Care

Faculty of Public Health and Health Care

**Lecturers:**

Prof. Atanas Shterev, PhD, dept. of Public Health, tel.+359 82 888 421

Prof. Tanya Timeva, PhD, dept. of Public Health, tel.+359 02 9200901, [ttimeva@uni-ruse.bg](mailto:ttimeva@uni-ruse.bg)

Assoc. Prof. Nadya Magunska, MD, PhD, dept. of Public Health, tel.: .+359 2 920 0901; e-mail:

[nmagunska@uni-ruse.bg](mailto:nmagunska@uni-ruse.bg)**Abstract:**

Training in obstetrics aims at developing future midwifery knowledge, skills, habits and competencies in relation to the performance of individual tasks and teamwork. An additional aim of teaching this discipline is the absorption of the material embedded in the program and pursuit of teaching staff to prepare prospective students adequate and qualified to be included in the application of appropriate preventive, therapeutic and organizational care aimed at laboring woman and newborn.

**Course content:**

The program includes lectures and seminars with topics aimed at: physiology of birth, biomechanism birth in different fetal position, methods of pain relief during labor, first care of any newborn and the role and tasks of midwives during the postnatal period in order to promote breastfeeding. A crucial section for the prevention of nosocomial infections is the third module in the program - aseptic and antiseptic .

**Teaching and assessment:**

Lectures are conducted in front of a specialized audience for training in obstetrics and gynecology, equipped with a corresponding projection equipment - multimedia computer presentations. Practical exercises are conducted in a specialized classroom of Obstetrics and Gynecology, which uses models, simulated patient and simulated hospital environment, as well as in a real hospital environment in Obstetrics and Gynecology Hospital complex – Ruse and SAGBAL "Dr. Shterev" – Sofia. The final assessment is formed after the semester examination. The written exam consists of two parts - theoretical and practical. The theoretical part covers issues from the lectures and the practical one - questions and tasks of practical exercises.

**SB10065 Gynecology I****ECTS credits:** 3**Assessment:** exam**Departments involved:**

Department of Health Care

Faculty of Public Health and Health Care

**Lecturers:**

Prof. Atanas Shterev, PhD, dept. of Public Health, tel.+359 82 888 421

Prof. Tanya Timeva, PhD, dept. of Public Health, tel.+359 02 9200901, [ttimeva@uni-ruse.bg](mailto:ttimeva@uni-ruse.bg)

Assoc. Prof. Nadya Magunska, MD, PhD, dept. of Public Health, tel.: .+359 2 920 0901; e-mail:

[nmagunska@uni-ruse.bg](mailto:nmagunska@uni-ruse.bg)**Abstract:**

The main objective of training students in this course is to gain basic knowledge and practical skills and competencies that will be useful in the implementation of professional involvement in a number of preventive, diagnostic, therapeutic and organizational and methodical tasks, as well as some urgent conditions in gynecology. The tasks of the discipline derive from the goal and are fulfilled via the topics of the course.

**Course content:**

An important element of the course is detailed examination of the most common functional studies in gynecology. This will help midwife practitioner to be able to prepare for work a number of advanced diagnostic and therapeutic tools and appliances: colposcope, ultrasound, physiotherapy equipment, surgical instrumentarium.

**Teaching and assessment:**

Lectures are conducted in a specialized lecture hall for training in obstetrics and gynecology, equipped with a corresponding projection equipment - multimedia computer presentations. Practical exercises are conducted in a specialized classroom of Obstetrics and Gynecology, which uses models, simulated patient and simulated hospital environment, as well as in a real hospital environment in Obstetrics and Gynecology Hospital complex – Ruse and SAGBAL "Dr. Shterev" – Sofia.

**S04116 Pediatrics****ECTS credits:** 2**Assessment:** exam**Departments involved:**

Department of Health Care

Faculty of Public Health and Health Care

**Lecturers:**

Assoc. Prof. Svilen Dosev, MD, PhD, dept. of Health Care, GSM: +359 888 885 988, E-mail: sdosev@uni-ruse.bg

**Abstract:**

The discipline of pediatrics aims at providing information on morphological and functional characteristics of the child in its development of postneonatal period until the end of puberty and adolescence, and at following the pathology in each age period with emphasis on pathophysiology and modern therapeutic and preventive methods.

**Course content:**

The program includes educational content related to the medical care of children examined were main nosological units, the problems of modern nutrition, prevention of rickets; hereditary diseases and genetic counseling; some psychosocial problems of childhood; childhood accidents; exogenous poisoning.

**Teaching and assessment:**

Training is conducted in the form of lectures and practical exercises. Lectures are accompanied by presentations and visual techniques. The main method is explanation, lecture, discussion, stimulating the active participation of students in the topics discussed.

**Weekly classes:** 1,5l+1s+0lab+0,5p**Type of exam:** oral and practical**S01239 Psychiatry****ECTS credits:** 1**Assessment:** exam**Departments involved:**

Department of Health Care

Faculty of Public Health and Health Care

**Lecturers:**

Assoc. Prof. Nikolina Angelova, PhD, MD, dept. of Health Care, GSM: +359 888 747 347,

E-mail: nangelova@uni-ruse.bg

**Abstract:**

The aim of the training Psychiatry is to acquaint students in midwifery with the basic concepts of etiology and systematics of mental illness in general and special psychopathology and the most common main types of disorders.

**Course content:**

The program includes educational content related to general and specific psychopathology, addiction behavior, emergency psychiatric care, therapeutic methods in psychiatry and others.

**Teaching and assessment:**

Training is conducted in the form of lectures and practical exercises. Lectures are held in the auditorium equipped with visualization tools. Practical exercises are conducted immediately following the lecture topic and are held in psychiatric wards of accredited clinical training facilities for students majoring in Midwifery at the University of Ruse.

**Weekly classes:** 0,5l+0s+0lab+0,5p**Type of exam:** written, oral

**S04101 Microbiology, Parasitology and Virology****ECTS credits:** 2**Assessment:** exam**Departments involved:**

Department of Health Care

Faculty of Public Health and Health Care

**Lecturers:**

Assoc. Prof. Iliana Kostova, PhD, GSM: +359 882 836 776, E-mail: ikostova@uni-ruse.bg

**Abstract:**

The course of Microbiology, Parasitology and Virology is designed for students majoring in Midwifery at the University "Angel Kanchev", Ruse. The main aim of the course Microbiology, Parasitology and Virology is to clarify the nature of microbiology and virology as etiological science that supports diagnosis of infectious diseases and epidemiological situations through various laboratory tests.

**Course content:**

The syllabus includes the following modules: General Microbiology - studying the morphology, structure and generally accepted regularities inherent pathogens.

In the module Infection and Immunity the relationship between macro-organism and pathogens is studied, as well as protective mechanisms, which the macro-organism uses to combat the pathogens. The special module microbiology and virology study various types of pathogens – morphology resistance to various physical, chemical factors, chemotherapeutics, antibiotics, mode of emergence of infectious diseases, pathogenesis, methods of diagnosis, specific therapy and prophylaxis.

**Teaching and assessment:**

The main forms of training are lectures and practical exercises. The lectures are held in a room equipped with computer and multimedia and computer presentations are used to illustrate the lecture topics. Practical exercises complement and illustrate the theoretical material. Practical exercises are conducted in a microbiological laboratory. Current control is conducted in the form of written tests, educational and practical case studies. The final grade is based on a written exam.

**Weekly classes:** 1,5l+1s+0lab+0,5p**Type of exam:** oral and practical**S02049 Surgery****ECTS credits:** 2**Assessment:** exam**Departments involved:**

Department of Health Care

Faculty of Public Health and Health Care

**Lecturers:**

Assoc. Prof. Pencho Genov, MD, PhD, dept. of Health Care, GSM: +359895606380, E-mail: pgenov@uni-ruse.bg

**Abstract:**

The course in surgery aims at revealing and clarifying the nature of the surgical principles and general surgical technique, as well as their place in obstetric practice. It focuses on the most common surgical diseases in women in different age range discipline laid the foundations of knowledge, skills and competences which will form the professionalism of future midwife.

**Course content:**

The syllabus includes educational content related to the history of surgery – periods; antisepsis and aseptic; preoperative and postoperative period; surgical infection; varicose veins of the lower limbs, trombophlebit, benign and malignant malignancies of the breast; hernias of the anterior abdominal wall; congenital heart defects and others.

**Teaching and assessment:**

Training is conducted in the form of lectures and practicals. Lectures take place in a well equipped room for visual presentations. Practical exercises are conducted in a specialized room - virtual laboratory located at the university. Practical exercises require activity on the part of students and suggest independent work on predefined themes during auditory and extracurricular work. Training equipment includes multimedia, interactive boards, panels, dummies, phantoms simulated, patient simulated and real hospital environment, computers, videos.

**Weekly classes:** 1,5l+1s+0lab+0,5p**Type of exam:** oral and practical

**SB14362 Special Care for Pregnant Women and Women in Labour with Surgical Diseases****ECTS credits:** 2**Assessment:** exam**Departments involved:**

Department of Health Care

Faculty of Public Health and Health Care

**Lecturers:**

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Sen. Assist. Prof. Kina Velcheva, PhD, dept. of Health Care, GSM: +359 884 327 341, E-mail: kvelcheva@uni-ruse.bg

Sen. Assist. Prof. Yoana Lukanova, PhD, dept. of Health Care, GSM.: +359 885047644, E-mail: ylukanova@uni-ruse.bg

Sen. Assist. Prof. Tsveta Hristova, PhD, dept. of Health Care, GSM.: +359 878389793, E-mail: tshristova@uni-ruse.bg

**Abstract:**

The course in Special care for pregnant women and mothers with surgical diseases aims at revealing and clarifying the nature of general and special nursing and obstetric care and their specificity in women with surgical diseases to continue building the skills and competencies on which professionalism of future midwife will be formed. The course is cross-curricular links with clinical disciplines: Obstetrics, Gynecology, Surgery.

**Course content:**

It includes is the study of desmurgiya, modern pre- and post operative nursing and obstetric care, treatment of wounds, as well as behavior and care of the most common surgical diseases in pregnant mothers. It focuses on the problems of conducting blood transfusion and operating of the midwife with documentation in these cases.

**Teaching and assessment:**

The training takes the form of lectures and practical exercises. The lecture is accompanied by presentation visualisation. Practical exercises upgrade the lecture content and specify for each of the discussed problems and diseases.

**S04115 Special Care for Pregnant Women with Pathological Pregnancy****ECTS credits:** 1**Assessment:** examination**Departments involved:**

Department of Health Care

Faculty of Public Health and Health Care

**Lecturers:**

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Sen. Assist. Prof. Tsveta Hristova, PhD, dept. of Health Care, GSM.: +359 878389793, E-mail: tshristova@uni-ruse.bg

**Abstract:**

The study course in Special cares by pregnant women with pathological pregnancy has the objective to show and clarify the gist of the general and special nursing and obstetrics cares and their specificity by bearing women with pathological pregnancy, to continue the building of skills and competences on whose basis the professionalism of the future midwife will be formed. The prerequisites of this subject are the following clinical subjects: Anatomy, Physiology, Clinical Pathology, Obstetrics, Practical basis of the nursing and obstetrics cares.

**Course content:**

The syllabus includes studying of: the most common pathological conditions during pregnancy like abortion, pre-eclampsia, eclampsia, bleeding during the pregnancy, intrauterine death of the fetus. The problems of the behavior of the midwife by these pathological conditions during pregnancy are discussed, as well as her work with the documentation and duties for its forming.

**Teaching and assessment:**

Teaching includes the form of lectures and practical exercises. Computer presentations and multimedia are used during the lectures for visualizing the teaching process. Methods of teaching include: modern interactive methods – discussions; observation; documents research; project. Appropriately chosen cases from practice are also studied for illustrating the theoretical material. The final mark follows the six degree system. It is formed after a passed exam – theoretical and practical part under a previously prepared synopsis covering the whole studied material.

**SB10066 Special Care During Normal and Pathological Delivery I****ECTScredits:** 4**Assessment:** exam**Departments involved:**

Department of Health Care

Faculty of Public Health and Health Care

**Lecturers:**

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Sen. Assist. Prof. Yoana Lukanova, PhD, dept. of Health Care, GSM.: +359 885047644, E-mail: ylukanova@uni-ruse.bg

Sen. Assist. Prof. Tsveta Hristova, PhD, dept. of Health Care, GSM.: +359 878389793, E-mail: tshristova@uni-ruse.bg

**Abstract:**

The course in Special cares during normal and pathological delivery I has the objective to show and clarify the general and special nursing and obstetrics cares and their specificity by bearing women with pathological pregnancy, to continue the building of skills and competences on whose basis the professionalism of the future midwife will be formed. The prerequisites of this subject are the following clinical subjects: Anatomy, Physiology, Clinical Pathology, Obstetrics, Practical basis of the nursing and obstetrics cares.

**Course content:**

The syllabus includes studying of: the delivery – definitions, duration, indications and diagnosis for the start of the delivery; acceptance of the pregnant woman for delivery; preparation in pre-delivery and delivery room; operation with medical equipment; the tasks of the midwife by conducting the delivery; painkilling devices, as well as her work with the documentation and duties for its forming.

**Teaching and assessment:**

Teaching is conducted in the form of lectures and practical exercises. Computer presentations and multimedia are used during the lectures for visualizing the teaching process. Methods of teaching include: modern interactive methods – discussions; observation; documents research; project. Appropriately chosen cases from practice are also studied for illustrating the theoretical material. The final mark follows the six degree system. It is formed after a passed exam – theoretical and practical part under a previously prepared synopsis covering the whole studied material.

**SB10067 Clinical Practice III****ECTScredits:** 7**Assessment:** exam**Departments involved:**

Department of Health Care

Faculty of Public Health and Health Care

**Lecturers:**

Prof. Ivanichka Serbezova, PhD, dept. of Health Care, GSM: +359 888731063, E-mail: iserbezova@uni-ruse.bg

Sen. Assist. Prof. Tsveta Hristova, PhD, dept. of Health Care, GSM.: +359 878389793, E-mail: tshristova@uni-ruse.bg

**Abstract:**

The practice is organized learning process in which students apply their knowledge and skills in real clinical conditions when working with pregnant women, birth mothers, newborns and gynecological patients. The objective of the training is strengthening the knowledge of the clinical and humanities and their combination with theoretical and practical skills and habits in nursing and obstetric care.

**Course content:**

Work in the delivery room. Adoption of pregnant birth. Making documentation acceptance of birth and accommodation in the delivery room. Keeping Birth First newborn care and design documentation. Care of breasts and lactation in normal postpartum period.

**Teaching and assessment:**

Clinical practice is conducted in the following bases Birthing, AG ward with structures: Maternity, Gynaecology, Pathological pregnancy, Prehospital help.



**SB10064 Obstetrics III****ECTScredits:** 5**Assessment:** exam**Departments involved:**

Department of Health Care

Faculty of Public Health and Health Care

**Lecturers:**

Prof. Atanas Shterev, PhD, dept. of Public Health, tel.+359 82 888 421

Prof. Tanya Timeva, PhD, dept. of Public Health, tel.+359 02 9200901, [ttimeva@uni-ruse.bg](mailto:ttimeva@uni-ruse.bg)Assoc. Prof. Nadya Magunska, MD, PhD, dept. of Public Health, tel.: .+35929200901;[nmagunska@uni-ruse.bg](mailto:nmagunska@uni-ruse.bg)**Abstract:**

Training in obstetrics aims at developing future midwifery knowledge, skills, habits and competencies in relation to the performance of individual tasks and teamwork. An additional aim of the teaching is the absorption of the material embedded in the program and pursuit of teaching staff to prepare prospective students an adequate and qualified to be included in the application of appropriate preventive, therapeutic and organizational care targeting at pathological or ongoing pregnancy outcome in pregnancy concomitant pathology.

**Course content:**

The program includes lectures and seminars with topics aimed at: deviations from the course of pregnancy, pathology of the fetus, amnion and amniotic fluid, infectious, endocrine, cardiovascular and other comorbidities during pregnancy. An important part of the program is the study of issues related to prematurity and adequate obstetric care for preterm infants and prevention of risk factors, obstetric behavior when placenta previa or accreta are diagnosed.

**Teaching and assessment:**

Lectures are conducted in a specialized hall, equipped with a corresponding projection equipment - multimedia computer presentations. Practical exercises are conducted in a specialized classroom of Obstetrics and Gynecology, which uses models, simulated patient and simulated hospital environment, as well as in a real hospital environment in Obstetrics and Gynecology Hospital complex – Ruse and SAGBAL “Dr. Shterev” – Sofia. The final assessment is formed after the semester examination. The written exam consists of two parts – theoretical and practical.

**SB10075 Gynecology II****ECTS credits:** 4**Assessment:** exam**Departments involved:**

Department of Health Care

Faculty of Public Health and Health Care

**Lecturers:**

Prof. Atanas Shterev, PhD, dept. of Public Health, tel.+359 82 888 421

Prof. Tanya Timeva, PhD, dept. of Public Health, tel.+359 02 9200901, [ttimeva@uni-ruse.bg](mailto:ttimeva@uni-ruse.bg)Assoc. Prof. Nadya Magunska, MD, PhD, dept. of Public Health, tel.: .+35929200901;[nmagunska@uni-ruse.bg](mailto:nmagunska@uni-ruse.bg)**Abstract:**

The objective of the course Gynecology II is to extend the gained knowledge gained from Gynecology I. It aims at forming and consolidating in the future midwife's knowledge, skills and competences for independent and team work with doctors of obstetrics and gynecology and other specialists by performing their professional engagements in a range of preventive, diagnostic, therapeutic and organizational methodological tasks, as well as by some emergency conditions in the sphere of gynecology.

**Course content:**

The content is related to tasks of Gynecology, gynecological endocrinology, neuro-hormonal regulation of the menstrual cycle; classification of the disorders, dysfunctional uterine bleeding, juvenile and menopausal bleeding, symptomatic dysmenorrhea, amenorrhea, disease of Stein Leventhal, climax, abnormalities in the development, situation and damages of the female reproductive organs, abnormalities in genital development and their role in gynecology and obstetrics, abnormalities in the position of the female reproductive organs, injuries to the female genital organs, general etiology and pathogenesis of genital diseases, symptomatology of common gynecological diseases, diseases of the external genitalia, inflammatory diseases of the vulva, vaginal fluoitrine – etiology.

**Teaching and assessment:**

Lectures are conducted in a specialized hall, equipped with projection equipment - multimedia computer presentations. Practical exercises are conducted in a specialized classroom of Obstetrics and Gynecology, which uses models, simulated patient and simulated hospital environment, as well as in a real hospital environment in Obstetrics and Gynecology Hospital complex – Ruse and SAGBAL “Dr. Shterev” – Sofia. The final assessment is based on a semester examination, consisting of two parts – theoretical and practical.

**S04120 Dermatology and Venerology****ECTS credits:** 1**Assessment:** exam**Departments involved:**

Department of Health Care

Faculty of Public Health and Health Care

**Lecturers:**

Assoc. Prof. Daniela Grozeva, MD, PhD, dept. of Health Care, GSM: +359 888 594 144,

E-mail: dgrozeva@uni-ruse.bg

**Abstract:**

Every student passed the course in dermatology and venerology should be able to assist in diagnosis and treatment of diseases of the skin and skin appendages, to assist in setting microbiological and mycological microscopic diagnosis of smear of skin and mucosa, placing the microscopic diagnosis of biopsy material of skin, mucosa and skin appendages, and speaks operating minima skin diseases.

**Course content:**

Theoretical knowledge and practical skills about the structure and function of normal skin, skin appendages and visible mucous membranes, pathological processes in the different layers of the skin, their diagnosis, differential diagnosis and treatment. Future health personnel should be able to assist in establishing the diagnosis and treatment of the chronic dermatoses, bullous dermatoses and and skin tumors.

**Teaching and assessment:**

Lectures are conducted in a specialized auditorium for training, equipped with a corresponding projection equipment – multimedia computer presentations. Practical exercises are conducted in a specialized classroom in the educational practical complex of the professional domain of Health care. A simulated patient and simulated hospital environment and conduct initial topics that allow simulation activities are used.

**S04121 Anaesthesiology, Resuscitation and Intensive Care****ECTS credits:** 2**Assessment:** exam**Departments involved:**

Department of Health Care

Faculty of Public Health and Health Care

**Lecturers:**

Assoc. Prof. Hristo Bozov, MD, PhD, dept. of Health Care, tel. +359 82 888421, E-mail: hr\_bozov@ yahoo.com

Assoc. Prof. Theodora Nedeva, MD, PhD, dept. of Health Care, GSM: +359 887 468 695,

E-mail: tsherbanova@uni-ruse.bg

**Abstract:**

The main objective of the course in Anesthesiology and Intensive Care is to define and clarify the modern scientific concepts related to analgesia, anesthesia, intensive care and resuscitation events. Training tasks are to develop theoretical knowledge and practical skills of midwives to provide first aid for acute occurring violations of basic life functions, to assist the physician anesthesiologist to perform various manipulations and techniques to monitor basic vital parameters of the patient and work team.

**Course content:**

The curriculum consists of two main modules: 1. Anesthesiology – nature, subject and tasks. Preparing the patient for anesthesia. Monitoring of vital functions. Anesthetic techniques. Appliances, tools and medications for conducting anesthesia and analgesia. Specific features of anesthesia in normal and pathological pregnancy. 2. Intense their treatment nature and development.

**Teaching and assessment:**

Training includes lectures and practical exercises. The lectures are held in auditoriums with application of modern methods: presentations, discussions on case studies, which stimulates students' active participation. Practical exercises are conducted in specialized departments of Anesthesiology, Intensive treatment of surgical and therapeutic diseases and include organizing group work, defining common and individual tasks, discussions of clinical cases.

**SB10059 Pharmacology****ECTS credits:** 3**Assessment:** exam**Departments involved:**

Department of Health Care

Faculty of Public Health and Health Care

**Lecturers:**

Assoc. Prof. Antonia Kastelova, MD, PhD, dept. of Health Care, GSM: +359 888 768 714;

E-mail: akastelova@sopharma.bg

**Weekly classes:** 2l+1s+0lab+0p**Type of exam:** oral and practical**Abstract:**

The purpose of education in pharmacology is to provide students with advanced theoretical and practical knowledge of medicines needed to complete their professional training and clinical activity. In order to obtain a new degree, the requirements for the preparation of midwives have greatly increased. Furthermore, knowledge of the individual pharmacological groups, they need to know the specifics of the operation, the kinetics and interactions depending on various factors from the medicine, the body of the patient and the external environment.

**Course content:**

The syllabus includes the following topics: Purpose and tasks of pharmacology; Prescription medications and types of recipes; Formulation - definition and types; Input of the drug in the body. Pharmacodynamics. Pharmacokinetics. Special Pharmacology. Antimicrobial drugs.

**Teaching and assessment:**

Students get acquainted with the contents of the discipline theoretical lectures. Seminars illustrate with examples and illustrative diagrams the theoretical lecture. There are current tests and also an admission test for each seminar exercise and oral interviews. For the last workshop exercise, the program envisages a final test. The final control procedure is a written exam with two questions.

**SB10077 Special Care during Normal and Pathological Delivery II****ECTS credits:** 2**Assessment:** exam**Departments involved:**

Department of Health Care

Faculty of Public Health and Health Care

**Lecturers:**

Prof. Ivanichka Serbezova, PhD, dept. of Health Care, GSM: +359 888731063, E-mail: iserbezova@uni-ruse.bg

Sen. Assist. Prof. Yoana Lukanova, PhD, dept. of Health Care, GSM.: +359 885047644, E-mail: ylukanova@uni-ruse.bg

Sen. Assist. Prof. Tsveta Hristova, PhD, dept. of Health Care, GSM.: +359 878389793, E-mail: tshristova@uni-ruse.bg

**Abstract:**

The course in Special care during normal and pathological delivery II aims to reveal and clarify the nature of general and special nursing and obstetric care and their specificity in birthing women with abnormal birth, to continue building the skills and competencies, which will form the professionalism of the future midwife. The subject has cross-curricular clinical disciplines: Obstetrics, Gynecology, Practical basics of nursing and midwifery care.

**Course content:**

The content includes a study of the disorders of the delivery business; flow of labor in a narrow pelvis; premature birth; bleeding; shock in obstetrics; birth trauma; birth in girls under eighteen years; birth in adults; birth after fertilization in vitro; adoption of pregnant birth; preparation of prenatal and birthing; work with medical equipment; tasks of midwife in keeping birth; documentation and obligations in preparing it.

**Teaching and assessment:**

The training takes the form of lectures and practical exercises. The lecture is accompanied by presentation visual aids. Practical exercises upgrade the lecture content and give details about each of the diseases. The methods, which are used, include explanation, lecture and discussion. They aim at provoking students to take part in the discussed topics. Teaching methods include practical exercises, interactive tools, work in small groups, case studies, performing a demonstration of the studied manipulation and providing appropriate patients. The final assessment is according to the six-point scale. It is formed after the exam – which has a theoretical and practical part, including all the studied material.

**SB14363 Special Care for Women with Normal and Pathological Puerperium****ECTS credits:** 3**Assessment:** exam**Departments involved:**

Department of Health Care

Faculty of Public Health and Health Care

**Lecturers:**

Prof. Ivanichka Serbezova, PhD, dept. of Health Care, GSM: +359 888731063, E-mail: iserbezova@uni-ruse.bg

Sen. Assist. Prof. Yoana Lukanova, PhD, dept. of Health Care, GSM.: +359 885047644, E-mail: ylukanova@uni-ruse.bg

Sen. Assist. Prof. Tsveta Hristova, PhD, dept. of Health Care, GSM.: +359 878389793, E-mail: tshristova@uni-ruse.bg

**Abstract:**

The course in Special care for women with normal and pathological puerperium aims to reveal and clarify the nature of general and special nursing and obstetric care and their specificity in mothers with normal and pathological puerperium, to continue building the skills and competencies on which professionalism of the future midwife will be formed. The course has cross-curricular links with clinical disciplines: Obstetrics, Gynecology, Practical basics of nursing and midwifery care.

**Course content:**

The content includes a study of the changes in the body of the mother in puerperium; involution of the genitals; lactation; care of mammary glands in the postnatal period; stimulating and stopping of the lactation; nutritional and physical regime of a woman in puerperium; special care in women with pathological puerperium; documentation and obligations in preparing it.

**Teaching and assessment:**

The training takes the form of lectures and practical exercises. The lecture is accompanied by presentation visual aids. Practical exercises upgrade the lecture content and give details about each of the diseases. The methods, which are used, include explanation, lecture and discussion. They aim at provoking students to take part in the discussed topics. Teaching methods include practical exercises, interactive tools, work in small groups, case studies, performing a demonstration of the studied manipulation and providing appropriate patients. The final assessment is according to the six-point scale. It is formed after the exam – which has a theoretical and practical part, including all the studied material.

**S04007 Neurology****ECTS credits:** 1**Assessment:** exam**Departments involved:**

Department of Health Care

Faculty of Public Health and Health Care

**Lecturers:**

Assoc. Prof. Nely Petrova, MD, PhD, dept. of Public Health and Social Work, GSM: +359888793906,

E-mail: npetrova27@gmail.com

**Abstract:**

The main objective of training is for students to acquire knowledge for normal function and disease disorders of the nervous system. The course provides theoretical knowledge and practical training to work with the most common diseases of the central and peripheral nervous systems as well as emergency conditions associated with them in a neurological ward and outpatient medical care.

**Course content:**

The content of the curriculum includes the following modules: General neurology - Clinical Neurology - introduction. Approach to patient with a neurological disease. Clinical neuroanatomy – brain, meninges. Blood supply to the brain. Spinal cord. Radiculopathy, degenerative spinal diseases – disc herniation, spinal stenosis. Polyneuritis and polyneuropathy, birth trauma of the central and peripheral nervous system.

**Teaching and assessment:**

The main forms of conducting classes are lectures and practical exercises. Lectures are held in the auditorium equipped with visualization tools. Practical exercises are conducted immediately following the lecture topic and are held in specialized laboratories. Checking and evaluation of educational content from lectures is done by a test. Test and participation of students in the classes are taken into consideration for forming the continuous assessment. The final grade is based on a written exam.

**Weekly classes:** 0,5l+1s+0lab+0,5p**Type of exam:** written, oral

**S04111 Principles and Methodology of Teaching****ECTS credits:** 3**Assessment:** exam**Departments involved:**

Department of Health Care

Faculty of Public Health and Health Care

**Lecturers:**

Prof. Todorka Stefanova, PhD, dept. of Health Care, GSM: +359 888543249, E-mail: dora@uni-ruse.bg

**Abstract:**

The course aims to give basic didactic and methodological knowledge, skills and competencies. By mastering the character and content of the recent progress in didactics and methodology of training, the future midwives will acquire skills for organizing and conducting the modern educational process.

**Course content:**

Didactic principles – essence, classification, didactic rules and teaching methods; the specifics of the observance of didactic principles in teaching patients and their relatives and practical training of students and graduate students. Examples. Teaching methods – essence, classification of methods by different; choice of a specific classification for training purposes; characteristics of different groups methods and methodological approaches; rules for the implementation of each method.

**Teaching and assessment:**

Training is conducted in the form of lectures and practical exercises. Teaching methods are consistent with the specifics of training the students. Practical exercises are conducted in groups, the personality of the student is in the center of this process. The main aim of the practical exercises is to help the students make an overall methodical development of a practical lesson.

**SB10079 Clinical Practice IV****ECTScredits:** 7**Assessment:** exam**Departments involved:**

Department of Health Care

Faculty of Public Health and Health Care

**Lecturers:**

Prof. Ivanichka Serbezova, PhD, dept. of Health Care, GSM: +359 888731063, E-mail: iserbezova@uni-ruse.bg

Sen. Assist. Prof. Tsveta Hristova, PhD, dept. of Health Care, GSM.: +359 878389793,

E-mail: tshristova@uni-ruse.bg

**Abstract:**

The practice is an organized learning process in which students apply their knowledge and skills in real clinical conditions when working with pregnant women, women in delivery, newborns and gynecological patients. The aim of the training is to reveal the need for nursing and midwifery care for the woman in need and their specificity in various areas of medical obstetrics and gynecological needs and services in the practical training of midwives. It strengthens their medical and biological knowledge and their basic cognitive and practical skills and competencies in nursing and obstetric care.

**Course content:**

Work in the delivery room when conducting ongoing pathological birth; behavior and care for pregnant women with pathology of post-natal period; preparation and participation of the midwife in the most commonly performed O&G operations, as well as specialized work with documentation; behavior and care for pregnant women with high risk pregnancies and diseases, which are not related to pregnancy.

**Teaching and assessment:**

Clinical practice is conducted in the following bases: O&G wards / structure Maternity, Gynaecology, high risk pregnancy, the operating unit and intensive care unit, delivery room, Prehospital help.

**S04124 Infectious Diseases and Epidemiology****ECTS credits:** 2**Assessment:** exam**Departments involved:**

Department of Health Care

Faculty of Public Health and Health Care

**Lecturers:**

Assoc. Prof. Angel Kunchev, MD, PhD, dept. of Health Care,

**Abstract:**

The course is taught in the fifth semester. The course includes lectures of introduction to epidemiology and infectious diseases. Training in infectious diseases and epidemiology of communicable diseases nursing aims at giving the main features of the theoretical epidemiology and application of the epidemiological method - epidemiological teaching of other medical sciences.

**Course content:**

The course includes theoretical and practical modules covering the following areas: epidemiology and infectious diseases – general and special part. The general section studies the relationship between macroorganism and pathogens, as well as the protective mechanisms which the macroorganism uses to combat pathogens by addressing the integrated infectious and epidemic process. The special part studies individual nosological units, clinic of the infectious diseases, pathogenesis, diagnostics, therapy and specific measures of profilaxis.

**Teaching and assessment:**

Training includes lectures and practical exercises. The lectures are held in lecture halls with application of modern methods: presentations, discussions on case studies, which stimulates students' active participation. Practical exercises are conducted in specialized training rooms and include organizing group work, defining common and individual tasks, discussing clinical cases.

**Weekly classes:** 1,5l+0s+0lab+0,5p**Type of exam:** written, oral**S02053 Medical Genetics****ECTS credits:** 2**Assessment:** exam**Departments involved:**

Department of Health Care

Faculty of Public Health and Health Care

**Departments involved:**

Department of Health Care

Faculty of Public Health and Health Care

**Lecturer:**

Assoc. Prof. Iliana Kostova, PhD, GSM: +359882836776, E-mail: ikostova@uni-ruse.bg

**Abstract:**

The course of medical genetics is devised for students in Midwifery of the University of Ruse. The lectures present the basic anomalies in human genetics and violations leading to it, getting inherited in different families, spreading innate and inherited diseases in the population and the principles of genetic diagnosis and prevention. The main groups of congenital defects and diseases are considered - chromosome, molecular and those with hereditary predisposition. Very important is the knowledge about the main approaches of the genetic prevention – prenatal diagnosis, genetic screening of pregnant women, and selective and mass screening of newborns for congenital malformations and inherited metabolic diseases, etc.

**Course content:**

General concepts in genetics. Classification and distribution of hereditary diseases. Methods of genetic testing of humans. Chromosomal disorders. Diagnosis of chromosomal diseases - cytogenetic methods. Indications for referral. Monogenic syndromes, inborn errors of metabolism, hemoglobinopathies. Diagnosis of monogenic syndromes – genealogy, biochemical and molecular genetic methods. Multifactorial inherited congenital anomalies and frequent diseases in adults. Diagnostics. Dysmorphology. Teratogenesis. Methods of genetic testing in humans.

**Teaching and assessment:**

Modern audiovisual aids are used during the lectures. Laboratory exercises are conducted in the training laboratories of the university. The final mark is formed on the basis of the successful written exam.

**SB14364 Obstetrics IV****ECTScredits:** 3**Assessment:** exam**Departments involved:**

Department of Health Care

Faculty of Public Health and Health Care

**Lecturers:**

Prof. Atanas Shterev, PhD, dept. of Public Health, tel.+359 82 888 421

Prof. Tanya Timeva, PhD, dept. of Public Health, tel.+359 02 9200901, [ttimeva@uni-ruse.bg](mailto:ttimeva@uni-ruse.bg)

Assoc. Prof. Nadya Magunska, MD, PhD, dept. of Public Health, tel.: .+359 2 920 0901; e-mail:

[nmagunska@uni-ruse.bg](mailto:nmagunska@uni-ruse.bg)**Abstract:**

The final phase of training in obstetrics has the aim to systematize the future midwifery knowledge, skills, habits and competencies in relation to the performance of individual tasks and teamwork. The object of this section includes abnormalities during pregnancy, childbirth and the postpartum period, some of which have a serious threat to health and life of the mother and fetus.

**Course content:**

The syllabus includes educational content related to abnormal and atypical position and fetal presentations, labor activity abnormalities, abnormal placental and postplacental period and the role and tasks of the midwife when there is acute loss of blood during childbirth and puerperium.

**Teaching and assessment:**

Lectures are conducted in specialized lecture halls, equipped with a corresponding projection equipment – multimedia computer presentations. Practical exercises are conducted in a specialized classroom of Obstetrics and Gynecology, which uses models, simulated patient and simulated hospital environment, as well as in a real hospital environment in Obstetrics and Gynecology Hospital complex – Ruse SAGBAL "Dr. Shterev " – Sofia. The final assessment is formed after the semester examination. The written exam consists of two parts – theoretical and practical. The theoretical part covers issues from the lectures and the practical one – questions and tasks of practical exercises.

**SB10083 Gynecology III****ECTScredits:** 5**Assessment:** exam**Departments involved:**

Department of Health Care

Faculty of Public Health and Health Care

**Lecturers:**

Prof. Atanas Shterev, PhD, dept. of Public Health, tel.+359 82 888 421

Prof. Tanya Timeva, PhD, dept. of Public Health, tel.+359 02 9200901, [ttimeva@uni-ruse.bg](mailto:ttimeva@uni-ruse.bg)

Assoc. Prof. Nadya Magunska, MD, PhD, dept. of Public Health, tel.: .+359 2 920 0901; e-mail:

[nmagunska@uni-ruse.bg](mailto:nmagunska@uni-ruse.bg)**Abstract:**

The main objective of training students in the discipline is to supplement their knowledge, practical skills and competencies that will be useful in the implementation of professional involvement in a number of preventive, diagnostic, therapeutic and organizational and methodical tasks, as well as some urgent conditions in gynecology. The tasks of the discipline derive from the goal and are completed via the topics of the course.

**Course content:**

The lectures include topics considering in detail the most common pelvic inflammatory diseases, characteristics and variations in childhood, the modern methods of diagnosis and treatment of infertility in the couple, classification of methods of contraception, as well as some important conservative and operational methods in gynecology.

**Teaching and assessment:**

Lectures are conducted in specialized lecture halls, equipped with a corresponding projection equipment – multimedia computer presentations. Practical exercises are conducted in a specialized classroom of Obstetrics and Gynecology, which uses models, simulated patient and simulated hospital environment, as well as in a real hospital environment in Obstetrics and Gynecology Hospital complex – Ruse SAGBAL "Dr. Shterev " – Sofia. The final assessment is formed after the semester examination. The written exam consists of two parts – theoretical and practical. The theoretical part covers issues from the lectures and the practical one – questions and tasks of practical exercises.

**S00104 Medical Imaging in Obstetrics and Gynecology****ECTS credits:** 1**Assessment:** exam**Departments involved:**

Department of Health Care

Faculty of Public Health and Health Care

**Lecturers:**

Assoc. Prof. Elisaveta Valcheva, dept. of Public Health, GSM: +359 888 991 575

**Abstract:**

The course in Medical imaging in obstetrics and gynecology provides acquisition of basic theoretical knowledge and practical skills in the field of imaging by studying the X-ray semiotics of diseases. The training represents the most important X and non-X research methods in medical practice, and knowledge of the nature and properties of ionizing radiation.

**Course content:**

Preparation, properties and nature of the X-rays. Types of X-ray machines. Devices. Modern imaging diagnostic methods – ultrasound, computed tomography, magnetic resonance imaging. Principles of electronics in imaging. Imaging methods of the cardiovascular system. Normal radiation anatomy.

**Teaching and assessment:**

Training is conducted in the form of lectures and practical exercises. Lectures are held in a lecture hall equipped with visualization tools. The two tests and student participation in workshops form the assessment of the current control. It requires 100% attendance of classes and doing both tests. Absence is not allowed. The final control procedure is a written and oral examination with two questions on the material of the course and syllabus according to the applied questionnaire.

**S02057 Medical Ethics and Deontology****ECTS credits:** 2**Assessment:** exam**Departments involved:**

Department of Health Care

Faculty of Public Health and Health Care

**Lecturers:**

Prof. Silvia Alexandrova-Yankulovska, MD, DCs, MU – Pleven, tel. +359 64 884 196,

E-mail: silviya\_aleksandrova@mu-pleven.bg

**Abstract:**

The course has the aims to acquaint future midwives with basic concepts and problems of medical ethics and deontology, to help students develop ethical sensitivity and moral reasoning in the course of their future work and to prepare them for making decisions in accordance with legal norms.

**Course content:**

Educational content is divided into the following sections: General theory of ethics – nature, methods, theories, principles, confidentiality, patterns of relationships, patients' rights and informed consent; Deontological matters of medical practice – regularity of medical acts, forced treatment, obligation to provide medical care, illegal practicing of a medical activity, documentaries crimes in medical practice, negligent medical professional offenses, unfavourably occurring cases in medical practice and others.

**Teaching and assessment:**

Study sessions are conducted in the form of lectures and seminars. The following methods are used: presentations, discussions, debate, case studies. The methodological structure includes presentation of the main theoretical topics, open discussion and feedback from the students. Continuous assessment is conducted in the form of tests. The final evaluation is based on a written and oral exam.

**Weekly classes:** 1,5l+0s+0lab+0,5p**Type of exam:** written and oral



**S04073 Ophthalmology****ECTS credits:** 1**Assessment:** exam**Departments involved:**

Department of Health Care

Faculty of Public Health and Health Care

**Lecturers:**

Assoc. Prof. Krasimir Koev, MD, PhD, dept. of Public Health, GSM: +359 896 291 020

Dr Magdalena Mladenova, dept. of Public Health, tel. +359 82 888 421

**Abstract:**

The objectives of the course are that midwives should acquire a system of knowledge and skills about ophthalmology as a prerequisite for application of special obstetric care when working in eye surgery, eye care unit and outpatient care. Topics of practical exercises upgrade and illustrate lectures and contribute to building practical skills and competencies. Expected outcomes - to acquire theoretical knowledge and practical skills for midwifery care for newborns in ophthalmic diseases; for the role, place and participation in the preparation and carrying out of laboratory and other tests; to develop skills for proper treatment of chemical and thermal burns, removal of foreign bodies in the eye and application of all bandages to the eye.

**Course content:**

Anatomy and physiology of the visual system. Diseases of the lacrimal apparatus, eyelids, conjunctiva, cornea and uvea, concepts and nature of glaucoma and cataract. Traumatic diseases, etc.

**Teaching and assessment:**

Forms of training are lectures and practicals. Classes – lectures and exercises are conducted in specialized rooms and in real situations. Current control is conducted during lectures and exercises. The final grade is formed after the exam.

**SB14366 Special Care for Pregnant and Women in Labour in Anaesthesiology and Intensive Therapy****ECTS credits:** 2**Assessment:** exam**Departments involved:**

Department of Health Care

Faculty of Public Health and Health Care

**Lecturers:**

Prof. Ivanichka Serbezova, PhD, dept. of Health Care, GSM: +359 888731063, E-mail: iserbezova@uni-ruse.bg

Sen. Assist. Prof. Tsveta Hristova, PhD, dept. of Health Care, GSM.: +359 878389793,

E-mail: tshristova@uni-ruse.bg

**Abstract:**

The syllabus of the subject Special care for pregnant mothers in anesthesiology and intensive therapy aims to reveal and clarify the nature of the special nursing and obstetric care and their specificity in pregnant mothers in anesthesiology and intensive therapy, continue upgrading of skills and competencies that will form the professionalism of future midwife.

**Course content:**

Preparing the patient for anesthesia. Preparation of the patient in terms of the overall picture. Preparation of the patient in relation to the underlying disease. Mental preparation. Premedication resuscitation events in Shock in obstetrics. Definition of shock. Types of shock. Causes and diagnosis.

**Teaching and assessment:**

Training is conducted in the form of lectures and practical exercises. The following methods with interactive focus are used: presentation, lecture, discussion, demonstration, individual work in small groups, case studies, readers theater, situational tasks, role-playing games, virtual laboratories. The lesson is held in the form of a talk with frontal asked questions, didactic tests, case studies, individual work in small groups, demonstration of acquired practical skills and habits.

**SB10086 Clinical Practice V****ECTS credits:** 10**Assessment:** exam**Departments involved:**

Department of Health Care

Faculty of Public Health and Health Care

**Lecturers:**

Prof. Ivanichka Serbezova, PhD, dept. of Health Care, GSM: +359 888731063, E-mail: iserbezova@uni-ruse.bg

Sen. Assist. Prof. Tsveta Hristova, PhD, dept. of Health Care, GSM.: +359 878389793, E-mail: tshristova@uni-ruse.bg

**Abstract:**

The practice is an organized learning process in which students apply their knowledge and skills in real clinical conditions when working with pregnant women, women in labour, newborns and gynecological ill women. The purpose of clinical practice V is consolidating knowledge from biological, medical, clinical and humanities and on their basis is the formation of cognitive and practical skills and habits in nursing and obstetric care. The tasks of discipline arising from the target and aimed at building initial vocational skills in oncogynecology and home medical care for children and to upgrade the skills of the midwife to work in the delivery room, maternity ward, gynecology and department high-risk pregnancy, surgery block and intensive care.

**Course content:**

Keeping labor in large and giant fetus. Conduct for presentation and sliding off the umbilical cord and small children's areas. Generic trauma of mother and newborn. Prevention of birth injuries. Placental pathology and early postpartum period. Bleeding Disorders – behavior and tasks of midwife. Behavior and care for pregnant women with mastitis. Helping the mother to overcome difficulties with breastfeeding. Caring for mothers after blood loss and shock. Special care for pregnant women with diabetes, congenital and acquired heart disease, kidney stones. Care in gynecological patients with bronchitis and pneumonia. Postoperative care for women with vaginal and abdominal operations. Caring for cancer patients after surgery, radiotherapy and chemotherapy. Conducting chemotherapy – tasks of the midwife. Psychological and deontological aspects of care for oncology patients. Getting to know the specifics of organization of work in the orphanage. Care for children with diseases of the respiratory system. Care for children with gastrointestinal diseases.

**Teaching and assessment:**

Clinical practice is conducted in the following bases: Delivery room, AG ward structure Maternity, Gynaecology, Pathological pregnancy Operational block and intensive care, home for medical care of children. Clinical practice is organized and run by an assistant, whose primary task is to be familiar with the specifics of work in the unit, to be able immediately to organize, manage, supervise, train, evaluate and be responsible for the students. The final mark is based on an exam consisting of two parts – theory and practice.

**SB14359 Special Care for Pregnant Women, Women in Labour and Gynaecological Conditions with Somatic Diseases****ECTS credits:** 2**Assessment:** exam**Departments involved:**

Department of Health Care

Faculty of Public Health and Health Care

**Lecturers:**

Prof. Ivanichka Serbezova, PhD, dept. of Health Care, GSM: +359 888731063, E-mail: iserbezova@uni-ruse.bg

Sen. Assist. Prof. Yoana Lukanova, PhD, dept. of Health Care, GSM.: +359 885047644, E-mail: ylukanova@uni-ruse.bg

Sen. Assist. Prof. Tsveta Hristova, PhD, dept. of Health Care, GSM.: +359 878389793, E-mail: tshristova@uni-ruse.bg

**Abstract:** The discipline in special care for pregnant mothers and gynecological patients with somatic diseases aims at revealing and clarifying the nature of general and special nursing and midwifery care and their specificity in women with somatic diseases, to continue building the skills and competencies on, which will form the future professional midwife. The course is cross-curricular links with all clinical disciplines.

**Course content:** It includes the study of behavior and care for diseases of the urinary tract, diabetes, blood diseases in the cardiovascular system, respiratory system and special care for pregnant mothers and patients with gynecological nadnormino weight. The course deals with issues of conduct for midwife in anaphylactic shock, first aid in the clinical work of death and midwife records in these cases.

**Teaching and assessment:**

Training is in the form of lectures and practical exercises. The lecture is accompanied by presentation visual aids. Practical exercises upgrade the lecture content and give details about each of the diseases. The methods, which are used, include explanation, lecture and discussion. They aim at provoking students to take part in the discussed topics. Teaching methods include practical exercises, interactive tools, work in small groups, case studies, performing a demonstration of the studied manipulation and providing appropriate patients. The final assessment is according to the six-point scale. It is formed after the exam – which has a theoretical and practical part, including all the studied material.

**SB10088 Special Care for Children in Neonatology and Pediatrics****ECTS credits:** 4**Assessment:** exam**Departments involved:**

Department of Health Care

Faculty of Public Health and Health Care

**Lecturers:**

Prof. Ivanichka Serbezova, PhD, dept. of Health Care, GSM 359 888731063, E-mail: iserbezova@uni-ruse.bg

Sen. Assist. Prof. Yoana Lukanova, PhD, dept. of Health Care, GSM.: +359 885047644,

E-mail: ylukanova@uni-ruse.bg

**Abstract:**

The course in Special care for children in neonatology and pediatrics has the aims to reveal and clarify the nature of the special nursing obstetric care and their specifics in neonatology and pediatrics, to continue upgrading of skills and competencies on which the professionalism of future midwife will be formed.

**Teaching and assessment:**

Training is conducted in the form of lectures and practical exercises using the following methods with interactive focus: presentation, lecture, discussion, demonstration, individual work in small groups, case studies, situational tasks, role play, virtual laboratory. Training media include: multimedia, interactive boards, panels, dummies, models, phantoms simulated patient simulated and real hospital environment, computers.

**Weekly classes:** 2l+0s+0lab+2p**Type of exam:** oral and practical**S04080 Physical Therapy and Rehabilitation****ECTS credits:** 1**Assessment:** exam**Departments involved:**

Department of Health Care

Faculty of Public Health and Health Care

**Lecturers:**

Assoc. Prof. Kiril Panayotov, MD, PhD, dept. of Health Care, GSM: +359 888 309621, E-mail: zkm@abv.bg

**Abstract:**

The main goal of training in physical therapy and rehabilitation of students in health care – midwives is to gain basic knowledge of the biological, physiological and therapeutic effects of natural and preformed physical factors and their application for the needs of physiopreventive therapy, physiotherapy and medical rehabilitation in common and socially significant diseases.

**Course content:**

Physiotherapy. Types of physical factors, basic principles and mechanisms of action of the reformed physical factors on the human organism. Rehabilitation - essence, sections, principles, rehabilitation contingents, rehabilitation potential, building a rehabilitation program. Basics of electrotherapy. Types of electrical currents used in physiotherapy. Perceptible patient feelings under the electrodes. Methods - local, segmental, reflector, general, longitudinal, transverse. Galvanization. Mechanisms of action of galvanic current on the human organism. Electrophoresis / iontophoresis /, advantages and disadvantages of the method, EF substances. Combined use of EF with other treatment methods. Cryoelectrophoresis. Medium Frequency Currents. Sinusoidal modulated currents / of Jasno-Grodski / - physiological effects, indications and contraindications. Medium Frequency Currents – Interference currents. Phenomenon interference. Mechanism of action. Physiological effects, indications and contraindications. Low frequency currents with adjustable parameters. Principles of action, physiological effects, indications and contraindications; High Frequency Currents / Currents of d'Arsonal, diathermy /. Physiological effects. Ultra High Frequency Currents. Ultra-high-current currents. Physiological effects. Indications and contraindications. Magnetotherapy. Physiological effects.

**Teaching and assessment:**

The training takes place in the form of lectures and practical exercises. The lectures are held in an audience equipped with visualization tools. Practical exercises are conducted in accredited clinical facilities for the training of students of Midwifery.

**Weekly classes:** 0,5l+0s+0lab+0,5p**Type of exam:** written, oral

**SB10089 Social and Health Legislation****ECTS credits:** 2**Assessment:** exam**Departments involved:**

Department of Public Law

Faculty of Public Health and Health Care

**Lecturers:**

Prof. Lachezar Dachev, PhD, dept. of Public Law, GSM: +359 888 440 729, E-mail: ldachev@abv.bg

**Abstract:**

The course is read to the students in mifwifery at the Faculty of Public Health and Health Care of the University of Ruse. The course provides students with knowledge about legislative regulation of the professional activities of the nurse, about the types of responsibilities of professionals in the medical practice, the structure of the health system and specific legislation regulating the activities of individual units of the health service and related rights obligations of health professionals, as well as knowledge of basic human rights and patients' rights.

**Course content:**

During the lectures, students get acquainted with the following regulations: Labour Code, Criminal Code, Law on Health, Law on Health Insurance, Law on Medical Institutions and Decree № 18 criteria, indicators and methodology for accreditation of medical institutions, Act of the professional organization of nurses, midwives and associated medical specialists, Decree № 1 of the professional activities that nurses, midwives, associated medical specialists and healthcare assistants may perform under appointment or on their own, and others. Decree № 34 for acquiring specialty in the healthcare system. Seminar exercises aim to consolidate, enrich and deepen their knowledge of lectures and to acquire practical skills and competences in solving various problem situations in the field of social and health legislation. This is achieved through open discussions and the solving of practical cases.

**Teaching and assessment:**

Lectures are held one hour per week. Seminars are also held weekly and illustrate the lecture topics in time and content.

**S04081 Otorhinolaryngology****ECTS credits:** 1**Assessment:** exam**Departments involved:**

Department of Health Care,

Faculty of Public Health and Health Care

**Lecturers:**

Prof. Dilyana Vicheva, MD, PhD, dept. of Health Care, GSM: +359 888 223 675,

E-mail: dilyana@bulgarianrhinologicsociety.org

**Abstract:**

Purpose and objectives of the course are to provide midwives with a system of knowledge and skills about the ear-nasal-throat diseases, as a prerequisite for application of special obstetric care when working with pregnant women in primary care, antenatal care and obstetrics and gynecology department. Topics of practical exercises build and illustrate lectures and contribute to building practical skills and competencies.

**Course content:**

The course includes the following topics: Anatomy and Physiology of the hearing analyzer. Traumatic injuries to outer ear and eardrum. Professional hearing damage from noise, vibration. Emergency in otorhinolaryngology. Inflammatory and non-inflammatory diseases in otorhinolaryngology. Cancer of the larynx and pharynx.

**Teaching and assessment:**

Forms for conducting classes are lectures and practical exercises. They are conducted in specialized auditoriums and in real conditions. Current control is conducted during lectures and exercises. Final grade is formed after the exam.

**S04084 Medical Provision in Disasters****ECTS credits:** 2**Assessment:** exam**Departments involved:**

Department of Public Health and Social Work

Faculty of of Public Health and Health Care

**Lecturers:**

Prof. Dr. Daniel Bratanov, PhD, dept. of Public Health and Social Work, GSM: +359 888 226 988,

E-mail: dmbratanov@uni-ruse.bg

**Abstract:**

The course in medical provision in disasters studies issues related to the specific problems of mass medicine in cases of natural and technogenic disasters, accidents and catastrophes in clinical, therapeutic and organizational aspects. The aim of the study is to create knowledge and skills for the students' professional behavior towards their responsibilities in cases of disasters. The education prepares health specialists to execute tasks related to measures of medical provision to victims of disasters. The role of the medical specialists during disaster response is of a great importance.

**Course content:**

The aim of the training is to give knowledge and skills for professional attitude of students towards their obligations in case of occurrence of any of the above events. The training prepares health professionals to perform tasks related to events for the medical assistance to the injured people as a result of the biological effects of radiation and major chemical accidents, acts of terrorism and wartime environment.

**Teaching and assessment:**

Lectures are conducted in a traditional way with visualization through multimedia audio-visual equipment. Educational films, incentive programs and specialized equipment nomenclature for civil-shield are used. During the exercises various material and technical equipment, multimedia audio-visual system models, case studies, visual aids – personal protective equipment, tables, maps, radiation sensors, gas analyzers, tests and more are used.

**SB 15675 Obstetric and Nursing Care for Women with Oncology Conditions****ECTS credits:** 2**Form check:** exam**Departments involved:**

Department of Health Care

Faculty of Public Health and Health Care

**Lecturers:**

Prof. Ivanichka Serbezova, PhD, dept. of Health Care, GSM: +359 888731063, E-mail: iserbezova@uni-ruse.bg

Sen. Assist. Prof. Kina Velcheva, PhD, dept. of Health Care, GSM: +359 884 327 341,

E-mail: kvelcheva@uni-ruse.bg

Sen. Assist. Prof. Tsveta Hristova, PhD, dept. of Health Care, GSM.: +359 878389793,

E-mail: tshristova@uni-ruse.bg

**Abstract:**

The course in obstetric and nursing care for women with oncology conditions aims to reveal and clarify the nature of the special nursing and obstetric care and their specificity in women suffering from cancer, continue upgrading of skills and competencies on which the professionalism of the future midwife will be formed.

**Course content:**

Dispensary of oncology sick women. Methods of study in cancer patients. Role of the midwife. Cancer cyto diagnosis Obstetric palliative care in cancer women, precancerous and cancerous diseases of the breast gland – obstetric care research.

**Teaching and assessment:**

Training is conducted in the form of lectures and practical exercises. The following methods with interactive focus are applied: presentation, lecture, discussion, demonstration, individual work in small groups, case studies, readers theater, situational tasks, role play, virtual laboratory.

**SB10090 Clinical Practice VI****ECTS credits:** 12**Assessment:** exam**Departments involved:**

Department of Health Care

Faculty of Public Health and Health Care

**Lecturers:**

Prof. Ivanichka Serbezova, PhD, dept. of Health Care, GSM: +359 888731063, E-mail: iserbezova@uni-ruse.bg

Sen. Assist. Prof. Tsveta Hristova, PhD, dept. of Health Care, GSM.: +359 878389793,

E-mail: tshristova@uni-ruse.bg

**Abstract:**

The practice is an organized learning process in which students apply their knowledge and skills in real clinical conditions when working with pregnant women, women in labour, newborns and gynecologically ill women. The purpose of Clinical practice VI is consolidating knowledge from biological, medical, clinical and humanities and on their basis the formation of cognitive and practical skills and habits in nursing and obstetric care.

**Course content:**

Combating acute loss of blood and placental and postplacental period. Fighting shock in placental and postplacental period; The duty of the midwife in intrauterine fetal death - diagnosis and clinical examinations. Methods diagnosed with cervical irregular and abnormal fetal praevia. Diagnosis of endangered fetus – direct and indirect methods, participation of midwife. Generic traumas of the newborn – midwife's behavior. Behavior and care for mothers with episiotomy, perineotomiya and complex rupture. Maternal behavior with generic trauma. Maternal behavior with manual extraction of the placenta and revision of the uterine cavity. Behavior and care of mothers with vaginal uterine tamponade. Bleeding in the second half of pregnancy – behavior and tasks of the midwife. High-risk pregnancy – reasons. Diagnosis of endangered fetus – direct and indirect methods.

**Teaching and assessment:**

Clinical practice is conducted in the following bases: Delivery room, O & G compartment (structure Maternity, Gynaecology, high risk pregnancy), Neonatology, Intensive care unit for newborns, Gynecology. Clinical practice is organized and run by an assistant. His primary task is to be familiar with the specifics of the work of the unit in order to be able immediately to organize, manage, supervise, train, evaluate and be responsible for the students. The final mark is formed after an exam consisting of two parts – theory and practice.

**S04044 Neonatology****ECTS credits:** 2**Assessment:** exam**Departments involved:**

Department of Health Care

Faculty of Public Health and Health Care

**Lecturers:**

Assoc. Prof. Svilen Dosev, MD, PhD, dept. of Health Care, GSM: +359 88 888 59 88,

E-mail: ngamakova@uni-ruse.bg

**Abstract:**

The discipline of neonatology aims at providing knowledge about the specifics of newborns to learn the protocols team, risk about newborns, focusing on early diagnosis and risk to be carried out, directing the child to a specialized neonatal unit.

**Course content:**

The program includes educational content related to adaptation syndromes in a healthy newborn child; first care for a newborn child; primary resuscitation at risky newborns; risky newborns; feeding the newborn; perinatal asphyxia newborn. assessment of the state in the delivery room; premature infants; Newborns with low weight; Respiratory diseases; haematological disorders in the neonatal period; Infectious pathology of neonatal period; Intensive treatment in newborns; Nosocomial infections.

**Teaching and assessment:**

Training is conducted in the form of lectures and practical exercises. Lectures are accompanied by presentations and visual techniques. The main method is explanation, lecture, discussion, stimulating the active participation of students in the topics, which are discussed.

**Weekly classes:** 1,5l+1s+0lab+0,5p**Type of exam:** oral and practical

**S02052 Social Medicine and Health Promotion****ECTS credits:** 2**Assessment:** exam**Departments involved:**

Department of Health Care

Faculty of Public Health and Health Care

**Lecturers:**

Assoc. Prof. Nikola Sabev, MD, DSc, dept. of Health Care, GSM: +359 887 356 342,

E-mail: nsabev@uni-ruse.bg

Assoc. Prof. Kiril Panayotov, MD, PhD, dept. of Health Care, GSM: +359 888 309621, E-mail: zkm@abv.bg

**Abstract:**

The main goal of training in Social Medicine and Health Promotion is to acquaint students with basics of public health and health promotion, as one element of the new Public Health. The program provides general concepts of health care system. The second focus in training is health promotion as principles, models, approaches. Particular attention is paid to health education and the formation of a healthy lifestyle.

**Course content:**

This syllabus contains the following components: Introduction to social medicine, methods of study and evaluation of public health, organization and operation of the health service, health promotion concept of healthy lifestyle elements of a healthy lifestyle, health promotion through encouraging a healthy lifestyle.

**Teaching and assessment:**

Forms of education: lectures and seminars. Lectures and seminars are held in the auditorium equipped with visualization tools. Teaching methods: modern interactive methodical presentation, discussion, demonstration, and case studies. The methodology of the exercise is consistent with the didactic purpose of the exercise

**SB15254 Affective Disorders****ECTS credits:** 2**Assessment:** exam**Departments involved:**

Department of Health Care

Faculty of Public Health and Health Care

**Lecturers:**

Assoc. Prof. Nikolina Angelova, PhD, MD, dept. of Health Care, GSM: +359 888 747 347,

E-mail: nangelova@uni-ruse.bg

**Abstract:**

The purpose of learning affective disorders is to familiarize students – future midwives with mental disorders that arise in women during different periods of their life cycle; with the main theoretical concepts of etiology of various psychiatric disorders in the female reproductive cycle and the contemporary classification and clinical manifestations of various psychiatric disorders in the female reproductive cycle.

**Course content:**

The course includes content related to the main and most common symptoms and syndromes of mental illness in women during their lifecycle, as well as specific psychiatric disorders in women with oncological problems.

**Teaching and assessment:**

The training takes place in the form of lectures. The lectures are held in an audience equipped with visualization tools. Learning methods: contemporary interactive methods – presentation, discussion, lectures and case studies and situational problems. The solving of case studies and situational problems develops in students habits for independent work, stimulates their professional growth and their creative activity.

**S02051 Nursing and Midwifery Care in Outpatient Care****ECTS credits:** 2**Assessment:** exam**Departments involved:**

Department of Health Care

Faculty of Public Health and Health Care

**Lecturers:**

Prof. Nikola Sabev, MD, DSc, dept. of Health Care, GSM: +359 887 356 342,

E-mail: nsabev@uni-ruse.bg

**Abstract:**

The course in Nursing and midwifery care in primary care aims at revealing the general concept of primary care in the training of midwives. Students should obtain the necessary scientific information on issues of primary care; form knowledge, skills and competencies for future midwives positive approach whose priority is working in outpatient sectors and advisory sectors; expand the role of the midwife that goes beyond the traditional functions of caring for a sick person, including psychological and social dimensions of health promotion.

**Course content:**

Organization and job characteristics of the midwife in Diagnostic - consultative center (DCC) and GP (doctor). Duties and responsibilities of the midwife in handling medical records used in the DCC and GP practice. Duties and responsibilities of the midwife at work in a GP office. Duties and responsibilities of the midwife at work in the specialized offices of DCC and others.

**Teaching and assessment:**

The training takes the form of lectures. The lecture is accompanied by presentation visual tools. Methods, which are used, include explanation, discussion and debate, making a plan for nursing and midwifery care in primary care. Development of a project on a topic of the course of training and presentations. The participation of the students in the discussed topics is provoked. The final result is a six-point scale. It is formed after the exam – a theoretical syllabus prepared in advance, including all the studied material.

**Weekly classes:** 2l+1s+0lab+0p**Type of exam:** written, oral**SB10094 Pre-graduation Internship****ECTS кредити:** 30**Assessment:** exam**Departments involved:**

Department of Health Care

Faculty of Public Health and Health Care

**Lecturers:**

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Sen. Assist. Prof. Yoana Lukanova, PhD, dept. of Health Care, GSM.: +359 885047644, E-mail: ylukanova@uni-ruse.bg

Sen. Assist. Prof. Tsveta Hristova, PhD, dept. of Health Care, GSM.: +359 878389793, E-mail: tshristova@uni-ruse.bg

**Abstract:**

The clinical internship is an organized learning process in which students apply their knowledge and skills in real clinical conditions when working with pregnant women, women in labour, newborns and gynecologically ill women. During the pre-graduation internship acquired knowledge, skills and competences are reinforced in accordance with Regulation 1 / 08.02.201 related to professional activities that nurses, midwives, associated medical specialists and healthcare assistants may perform on assignment or independently.

**Course content:**

Students work in a real environment duplicating the schedule for a midwife – clinical mentor. They keep a diary of the trainee. It reflects the activities, the number of interventions that must be conducted (identified in the state requirements), evaluation of the clinical and academic mentor.

**Teaching and assessment:**

The training in each unit is completed by assessing the knowledge and practical skills corresponding to the specific syllabus. The final procedure is exam and it consists of two parts – theoretical and practical.



**SB10095 Pre-graduation internship****ECTS credits:** 20**Assessment:** exam**Departments involved:**

Department of Health Care

Faculty of Public Health and Health Care

**Lecturers:**

Prof. Ivanichka Serbezova, PhD, dept. of Health Care, GSM: +359 888731063, E-mail: iserbezova@uni-ruse.bg

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Sen. Assist. Prof. Tsveta Hristova, PhD, dept. of Health Care, GSM.: +359 878389793, E-mail: tshristova@uni-ruse.bg

**Abstract:**

The clinical internship is an organized learning process in which students apply their knowledge and skills in real clinical conditions when working with pregnant women, women in labor, newborns and gynecological ill women. During pre-graduation internship acquired knowledge, skills and competences are reinforced in accordance with Regulation 1 / 08.02.2011g. related to the professional activities that nurses, midwives, associated medical specialists and healthcare assistants may perform on assignment or independently.

**Course content:**

Students work in a real environment duplicating the schedule for a midwife – clinical mentor. They keep a diary of the trainee. It reflects the activities, the number of interventions that must be conducted (identified in the state requirements), evaluation of the clinical and academic mentor. Mentors of practical bases are determined by criteria in line with Decree 18/ 20.06.2005 of criteria, indicators and methodology for accreditation of medical institutions in part for training. The academic mentor is a professor at the Department of Health care.

**Teaching and assessment:**

The training in each unit is completed by assessing the knowledge and practical skills corresponding to the specific syllabus. The final procedure is an exam and consists of two parts – theoretical and practical. The theoretical exam assesses the application of knowledge and the practical exam aims to check the degree of skill development. The clinical and academic mentor participate in the examination committee.

**S04138 State Exam: Philosophy of Obstetric Care. Theoretical and Practical Foundations of General and Special Obstetric Care****ECTS credits:** 3**Assessment:** exam**Departments involved:**

Department of Health Care

Faculty of Public Health and Health Care

**Lecturers:**

Prof. Ivanichka Serbezova, PhD, dept. of Health Care, GSM: +359 888731063, E-mail: iserbezova@uni-ruse.bg

Sen. Assist. Prof. Kina Velcheva, PhD, dept. of Health Care, GSM: +359 884 327 341, E-mail: kvelcheva@uni-ruse.bg

Sen. Assist. Prof. Yoana Lukanova, PhD, dept. of Health Care, GSM.: +359 885047644, E-mail: ylukanova@uni-ruse.bg

Sen. Assist. Prof. Tsveta Hristova, PhD, dept. of Health Care, GSM.: +359 878389793, E-mail: tshristova@uni-ruse.bg

**Abstract:**

The state exam is in two parts – theoretical and practical part, on a syllabus that is discussed and adopted at a meeting of the Department of Health Care. During the exam graduating midwives have the opportunity to put their knowledge in writing and to demonstrate real-life practical skills and professional competencies required for entry level midwifery practitioner.

**Course content:**

All the graduates work independently and develop in written form the theoretical questions followed by an interview with the examination board to evaluate the sufficiency of the theoretical knowledge in order to be admitted to the graduate practical exam. During the practical exam students work individually with the patient, demonstrate practical skills and competencies on an individual assignment.

**Teaching and assessment:**

The state exam is held in front of the State Examination Committee appointed by Rector's order, the composition of which shall be not less than three professors and associate professors.

**S04139 State Exam: Neonatology and Pediatrics – Obstetric Activities and Care****ECTS credits:** 2**Assessment:** exam**Departments involved:**

Department of Health Care

Faculty of Public Health and Health Care

**Lecturers:**

All teachers with a specialty in Neonatology and Pediatrics

**Abstract:**

The state exam is conducted on a syllabus that is discussed and adopted at a meeting of the Department of Health Care. During the exam graduating midwives have to provide evidence of theoretical knowledge, practical skills and professional competencies required for entry level midwifery practitioner.

**Course content:**

All the graduates work independently and develop in written form the theoretical questions followed by an interview with the examination board to evaluate the sufficiency of the theoretical knowledge.

**Teaching and assessment:**

The state exam is held in front of the State Examination Committee, appointed by Rector's order, the composition of which shall be not less than three professors and associate professors.

**Weekly classes:** 0l+0s+0lab+0p**Type of exam:** oral**S04140 State Exam: Obstetrics and Gynecology – Obstetric Activities and Care****ECTS credits:** 3**Assessment:** exam**Departments involved:**

Department of Health Care

Faculty of Public Health and Health Care

**Lecturers:**

All teachers with a specialty in Obstetrics and Gynecology

**Abstract:**

The state exam is conducted on a syllabus that is discussed and adopted at a meeting of the Department of Health Care. During the exam graduating midwives have to provide evidence of theoretical knowledge, practical skills and professional competencies in Obstetrics and Gynecology, required for entry level midwifery practitioner.

**Course content:**

All the graduates work independently and develop in written form the theoretical questions followed by an interview with the examination board to evaluate the sufficiency of the theoretical knowledge, practical skills and competencies of Obstetrics and Gynecology.

**Teaching and assessment:**

The state exam is held in front of the State Examination Committee, appointed by Rector's order, the composition of which shall be not less than three professors and associate professors. The final grade is based on the displayed theoretical knowledge and practical skills and competencies formed.

**Weekly classes:** 0l+0s+0lab+0p**Type of exam:** oral and practical**S04141 State Exam: Social Medicine with Health Promotion and Social and Health Legislation****ECTS credits:** 2**Assessment:** exam**Departments involved:**

Department of Health Care

Faculty of Public Health and Health Care

**Lecturers:**

All teachers with a specialty in Social Medicine and Social and Health Legislation

**Abstract:**

The state exam is conducted on a syllabus that is discussed and adopted at a meeting of the Department of Health Care. During the exam graduating midwives have to provide evidence of theoretical knowledge.

All the graduates work independently and develop in written form the theoretical questions followed by an interview with the examination board to evaluate the sufficiency of the theoretical knowledge.

**Teaching and assessment:**

The state exam is held in front of the State Examination Committee, appointed by Rector's order, the composition of which shall be not less than three professors and associate professors.

**Weekly classes:** 0l+0s+0lab+0p**Type of exam:** oral

**UNIVERSITY OF RUSE**  
**FACULTY**  
**OF PUBLIC HEALTH AND HEALTH CARE**

**Erasmus ECTS**  
**Information Package**

# **UNDERGRADUATE CURRICULUM IN NURSING**

**PROFESSIONAL STANDARDS OF A BACHELOR IN NURSING**

Degree:	<b>Bachelor</b>
Professional Qualification:	<b>Nurse</b>
Duration:	<b>4 years (8 semesters)</b>

**The degree course in nursing is a regulated profession from the professional field of Health Care.**

A nurse acquires higher education after successful completion of an accredited higher education institution on the territory of the Republic of Bulgaria or the EU. Training in Bulgaria corresponds to the Ordinance on Unified State Requirements / Decree 248 / 22.11.2005, Decree № 257 / 01.11.2010, Decree № 86 / 15.04.2016, Decree № 1 / 08.02.2011, Directive 2005 / 36 / EC and Directive 2013/55 / EC of the European Union and for the other EU Member States it complies with local legislation.

The practical training is carried out in hospitals that have received a positive accreditation assessment for education of students under Art. 90, para. 1 item 2 of the Law for the medical establishments. The diploma gives the right to practice the profession of a nurse.

**The educational goal** of the specialty is to prepare highly qualified specialists, competent to carry out promotive, preventive, medical activity and health education. Nursing is centered on helping people, family and community in achieving or maintaining optimal health and life. The main focus of nursing is the holistic care, including health promotion, maintenance, treatment and recovery, support and terminal care for individuals from different age groups.

The final outcomes of the training consist of acquiring competencies in the following areas:

- **General skills** – communication skills, language and computer skills, ability to effectively assess functional capacity based on clinical thinking, use of information technology, capability for continuous professional development and teamwork.
- **Knowledge of basic science** – biological, humanitarian and clinical disciplines.
- **Specific skills and competencies** in the field of general nursing care and their specificity in different age groups and medical specialties.
  - Skills and competencies to solve somatic, psychological and social problems of the person or the group.
  - Forming a proper clinical and practical experience and skills in working with other medical professionals.
  - Competence for determining necessary healthcare by oneself, using current theoretical and clinical knowledge, as well as capacity for planning, organizing and providing health care for the treatment of patients in order to improve professional practice.
  - Competence to encourage individuals, families and groups of people to lead a healthy lifestyle and take care of themselves.
  - Competence to take immediate life-saving measures and to take measures in case of crisis and disaster.
  - Competence to provide advice, guidance and support to people in need of health care and to their relatives.
  - Competence for independent quality assurance and assessment of health care.
  - Competence to analyze the quality of health care in order to improve personal professional practice.
  - Competence for professional activities that the nurse can carry out on her/his own, including provision and collection of health information, health promotion and disease prevention.
  - Competences to carry out medical and health care activities, resocialization, readaptation and rehabilitation. Ability to perform manipulations - intradermal, subcutaneous, intramuscular, intravenous injections, intravenous infusions and other treatments and activities regulated as individual and by medical prescription in the **Ordinance № 1 of 08.02.2011 on professional activities** that nurses, midwives, associated medical specialists and healthcare assistants can carry out as a prescription or on their own.

- **Knowledge of specific conditions** – healthcare system, ethical, moral and legal norms, the role of other professionals of the multidisciplinary team. The profession of the nurse requires dynamism, security and the ability to work in terms of emotional and intellectual stress.

The curriculum was developed in compliance with the Unified State Requirements for Acquiring Higher Education in Nursing with "Bachelor" degree, the Bologna Declaration and the ECTS system for accumulation and transfer of credits in higher education. Training is done through obligatory, elective and optional courses.

**Obligatory courses are grouped in the following modules:**

- *Basic humanities* – develop communication skills to communicate with patients and their relatives, analysis and use of specialized information. They provide knowledge about professional ethics and deontology and the necessity to respect the principles of confidentiality; acquisition of knowledge in medical psychology and medical pedagogy, informatics, principles and methodology of training.
- *Basic medical-biological disciplines* – they provide a theoretical basis for building specialized training. The module includes courses in anatomy, biochemistry, physiology, hygiene, disaster management, Latin with medical terminology.
- *Clinical disciplines* – they provide knowledge about the basic pathological processes and disease conditions in the field of internal diseases, pediatric, neurological and mental diseases, surgical diseases, otorhinolaryngological and ophthalmic disorders, infectious diseases, obstetrics and gynecology.
- *Special disciplines* – integrate the knowledge about structural and functional abnormalities in the overall therapeutic approach and in particular the specialized use of nursing care in various diseases. This cycle includes the philosophy and introduction to nursing care, and a module of practical basics of nursing care, including nursing care for patients with surgical, somatic, oncological, neurological, psychiatric, ophthalmic and otorhinolaryngological diseases. Nursing care in pediatrics, for children and adults with disabilities. Nursing care in oncology, palliative care. Nursing care in intensive care unit and intensive therapy, nursing homes, social medicine, medical ethics and health legislation, pharmacology.

**Elective and optional courses** provide an opportunity to acquire specific knowledge and skills depending on the interests of students.

**The practical training is conducted through:**

- *Clinical Practice - 1140 hours (from I to VI semester).*
- *Pre-graduation internship - 2 x 800 astronomic hours (20 weeks) in the VII<sup>th</sup> and VIII<sup>th</sup> semester.*

Training for acquiring higher education in nursing at a bachelor degree ends with state exams in the following disciplines:

1. Philosophy of nursing care. Theoretical and practical foundations of general and special nursing care.
2. Internal diseases and pharmacology – nursing and care activities.
3. Surgery and anesthesiology, resuscitation and intensive care – nursing care and activities.
4. Social medicine with health promotion and social and health legislation.

**Professional development:**

The acquired amount of theoretical knowledge and practical skills and competencies of the nurse allows her/him to work in different sectors and network of establishments and institutions in the health care system such as:

- outpatient care establishments;
- specialized or multiprofile hospitals: active treatment hospitals, hospitals for rehabilitation and long-term care, rehabilitation hospitals and hospitals for rehabilitation, long-term treatment and rehabilitation;
- Emergency Medical Centers;
- mental health centers;
- Centers for skin-venereal diseases;
- complex oncology centers;
- tissue banks;

- medical, medical-dental and diagnostic-consultation centers;
- Homes for medical and social care and hospices;
- structures for health and social services in the community and in institutions;
- dialysis centers;
- transfusion hematology centers;
- nurseries and gardens;
- Cabinets in schools and other educational establishments;
- Occupational medicine services;
- public health services;
- health insurance funds and organizations;
- research centers and medical research institutions;
- medical higher education institutions and faculties of public health and health care at other universities in the country;
  - state, departmental institutions.

The harmonization of nursing training with Directive 2005/36/EC of the European Parliament and of the Council of Europe from 7 September 2005 on the recognition of professional qualifications is a prerequisite for future compatibility of diplomas.

The diploma also gives the possibility of continuing education of the nurse in order to acquire majors according to Ordinance № 1 of January 22, 2015 on acquiring specialty in the healthcare system, issued by the Minister of Health, prom. SG no.7 on January 27, 2015, the Master's degree in Health Care Management, acquisition of educational degree "Master" in Public Health and Health Management and the specialty Clinical Social Work, receiving other training in other universities in Bulgaria; acquiring educational and scientific degree "Doctor" in Management of Health Care.

**CURRICULUM**  
of the degree course in NURSING

**First year**

<b>Code</b>	<b>First term</b>	<b>ECTS</b>	<b>Code</b>	<b>Second term</b>	<b>ECTS</b>
SB10026	Human anatomy	2	S02798	Human physiology and pathological physiology	3
SB15147	Hygiene and ecology	2	S04063	Neurology and psychiatry	2
S02813	Child psychology and child pedagogics	2	S03536	Clinical laboratory, biochemistry and immunology	1
SB10027	Philosophy and introduction to nursing care I	8	S02804	Philosophy and introduction to nursing care II	4
S04107	Social and health legislation	2	S02806	Nursing care for patients with neurological disorders	3
S02761	Latin with medical terminology	2	S02808	Internal diseases I	3
S02757	Information technologies	4	S02760	Surgery I	3
S02762	Clinical Practice I	8	S04061	Clinical Practice II	8
<b>Elective courses (students choose one course)</b>			<b>Elective courses (students choose one course)</b>		
<b>Total for the term:</b>		<b>30</b>	<b>Total for the term:</b>		<b>30</b>
S00021	Sports	1	S00021	Sports	1

**Second year**

<b>Code</b>	<b>Third term</b>	<b>ECTS</b>	<b>Code</b>	<b>Fourth term</b>	<b>ECTS</b>
S02811	Medical imaging in nursing care	1	S04108	Pharmacology	3
S02867	Internal diseases II	3	S04097	Geriatrics	1
SB10034	Pediatrics with neonatology	3	S02759	Medical genetics	1
S04070	Surgery II	2	S03536	Human clinical pathology	1
S02928	Nursing care for patients with somatic diseases II	3	SB04369	Nursing care for geriatric patients	4
S02722	Medical equipment in nursing practice	1	S04066	Nursing care for patients with surgical diseases I	2
S03012	Nursing care in pediatrics	3	S04076	Nursing care for patients with infectious diseases	3
S03058	Nursing care at home	4	SB14370	Nursing care for children and adults with disabilities	4
S00019	Clinical Practice III	8	S04095	Principles and methods of teaching	3
<b>Elective courses (students choose one course)</b>			S04068	Clinical Practice IV	8
SB15260	Communications in nursing practice	2			
SB15261	Nursing care in dental medicine	2			
SB13769	Nursing care in aesthetic dermatology and medical practice	2			
<b>Total for the term:</b>		<b>30</b>	<b>Total for the term:</b>		<b>30</b>
S00021	Sports	1	S00021	Sports	1

**Third year**

<b>Code</b>	<b>Fifth term</b>	<b>ECTS</b>	<b>Code</b>	<b>Sixth term</b>	<b>ECTS</b>
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S04003	Dermatology and venerology	1	S04080	Physical rehabilitation medicine	1
S04062	Obstetrics and gynecology	2	S04081	Otorhinolaryngology	1
S02723	Microbiology, parasitology and virology	2	S04082	Social medicine	2
S02812	Medical nutrition	1	S04084	Medical provision in disasters	2
SB14371	Anaesthesiology, resuscitation and intensive care	4	S04085	Nursing care in otorhinolaryngology	2
S04083	Health promotion	2	S04071	Medical Psychology	2
S04072	Infectious diseases and epidemiology	2	S04086	Nursing care for patients oncology conditions	2
S04073	Ophthalmology	1	S04087	Palliative nursing care	2
S04096	Nursing care in reanimation and intensive therapy	3	S04079	Nursing care for mentally ill patients	2
S04075	Nursing care for patients with surgical diseases II	3	S04083	Nursing care for women in labour and newborns	2
S04077	Medical ethics and deontology	2	S04093	Nursing care for women in labour and newborns	2
S04078	Clinical Practice V	8	S04088	Clinical practice VI	10
			<b>Elective courses (students choose one course)</b>		
			SB13600	Nursing care in anesthesiology	2
			SB14372	Nursing activities and care in invasive cardiology	2
			SB14367	Pediatric otorhinolaryngology	2
<b>Total for the term:</b>		<b>30</b>	<b>Total for the term:</b>		<b>30</b>
S00072	Sports	1	S00072	Sports	1

## Fourth year

Code	Seventh term	ECTS	Code	Eighth term	ECTS
SB10043	Pre-graduation internship	25	SB10044	Pre-graduation internship	25
			<b>Graduation</b>		
			SB10045	State examinations: Philosophy of nursing. Theoretical and practical foundations of general and special nursing care	3
			SB10046	Internal diseases and pharmacology – nursing activities and care	3
			SB10047	Surgery and anesthesiology, resuscitation and intensive care – nursing activities and care	2
			SB10048	Social medicine with health promotion and social and health legislation	2
<b>Total for the term:</b>		<b>25</b>	<b>Total for the term:</b>		<b>35</b>

**Total for the course of study: 240 ECTS credits**

**SB10026 Human Anatomy****ECTS credits:** 2**Assessment:** exam**Departments involved:**

Department of Health Care,  
Faculty of Public Health and Health Care

**Lecturers:**

Assoc. Prof. Dimitar Stavrev, Dept. of Public Health and Social Work, GSM: +359 895 718 773,  
E-mail: dgstavrev@abv.bg

Dr. Dragana Yovanovska, Dept. of Health Care, GSM:+359 0899 765 803

**Abstract:**

The training aims at providing students with basic knowledge about the structure of the human body. Teaching is in a functional aspect and with clinical orientation. To gain an overall picture of the anatomical structure, the program includes all sections of modern anatomy.

**Course content:**

Osteology: shape, growth and development of the bones. Skull bones, spine, pelvis, upper and lower limb. Bones connections. Miology: types of muscles and head's biomechanics, neck, back, abdomen, upper and lower limb.

**Teaching and assessment:**

The lecture topics allow the students to learn with the help of visual and theoretical illustration of a multimedia presentation, posters, biopsy sample and anatomical models. Practical exercises include an entry exam on the subject of an exercise. They are conducted with computer programs, biopsies samples and models, poster boards. Three tests are conducted during the semester, evaluated on a point system. The maximum number of points a student can have from attending courses and tests is 180. To complete the semester a number of at least 150 points is required. The final grade is based on an exam with a written part of no less than 50%.

**S04082 Hygiene and Ecology****ECTS credits:** 2**Assessment:** exam**Departments involved:**

Department of Health Care  
Faculty of Public Health and Health Care

**Lecturers:**

Assoc. Prof. Margaritka Filipova, PhD, Dept. of Thermotechnics, Hydraulics and Ecology,  
GSM: +359 887308311, E-mail: mfilipova@uni-ruse.bg

Stiliana Marinova, Dept. of Health Care, GSM: 0882 252472, E-mail: smarinova@uni-ruse.bg

**Abstract:**

The main objective of the training of Hygiene and Ecology is application of theoretical and practical knowledge on hygiene-related living and labor conditions and human nutrition, respectively adolescent, and the impact of environmental factors on human health and performance.

**Course content:**

The content of the course includes the following modules: Subject and tasks; environmental factors. Hygiene and ecology of air, settlements, housing and medical institutions. Management of hospital waste. Food hygiene. Morbidity and its relation to environmental factors. Work environment factors.

**Teaching and assessment:**

The main forms of training are lectures and practical exercises. Lectures are held in the auditorium equipped with visualization tools. Practical exercises are conducted immediately following the lecture topic and are held in specialized laboratories. There is continuous assessment during the semester via tests and participation of students in the classes. The final grade is based on a written exam.

**S02813 Child Psychology and Child Pedagogics****ECTS credits:** 2**Assessment:** exam**Departments involved:**

Department of Pedagogics, Psychology and History

Faculty of Public Health and Health Care

**Lecturers:**

Assoc. Prof. Asya Veleva, Dept. of Pedagogics, Psychology and History, E-mail: aveleva@uni-ruse.bg

**Abstract:**

The lectures course has the purpose to get students acquainted with special features of development of child's psychics and changes that happen in child's growing from 0 to 7 years. Students' attention is directed to the development of different sides of child's personality and to conditions in which it happens. Special features of early and pre-school childhood are explained, as well as means of complete child development. Special attention is paid to methods for evaluating of psychic development in early childhood. Topics for special features of pedagogic interaction between children at this age are offered. This will help for building skills and competencies for children relationship.

**Course Content:**

The subject has a work load 15 hours lectures and 15 hours seminar exercises. The course includes 15 lecture and 7 seminar topics. Education of students allows basic training to be done during the lecture course.

**Teaching and assessment:**

Lectures are led frontally with the entire group. Video-materials and active methods of training are used during the lectures and exercises and also – making and filling up tests, active plays, discussions. Combining of individual and group ways of work allows studding the provided material. During the seminary classes students exercise to apply different diagnostic methods for early and preschool age. The final mark is from 1 to 6.

**SB10027 Philosophy and Introduction to Nursing Care I****ECTS credits:** 8**Assessment:** exam**Departments involved:**

Department of Health Care

Faculty of Public Health and Health Care

**Lecturers:**

Assoc. Prof. Despina Georgieva, PhD, Dept. of Health Care, phone: +359889789100,

E-mail: dpgeorgieva@uni-ruse.bg

**Abstract:**

The curriculum aims to reveal the nature of general and special nurse care and their specificity in different age groups as well as for patients with different health status in context of prevention and treatment. The expected results are acquiring knowledge, skills and the formation of clinical thinking for proper planning and implementation of the nursing skills.

**Course content:**

The curriculum includes topics from the following areas: philosophy and social importance of the nursing profession. History of nursing, evolution and development in Bulgaria. Mission and function of the modern nurse. Models of nursing theories. Medical records. Aseptic and antiseptic. Acceptance, transfer and discharge of the patient. Rounds. Hygiene care. Somatic indicators. Healing and rational nutrition.

**Teaching and assessment:**

The main form of teaching are lectures and practical exercises. Practical classes are conducted in specialized cabinets/labs for healthcare, and in real situations in the relevant educational and practical facilities. Assessment is carried out at lectures and exercises. The final grade consists of exam in two parts – theoretical and practical.

**Weekly classes:** 1lec+0sem+0labs+1ps**Type of exam:** written**Weekly classes:** 1lec+0sem+0labs+1ps**Type of exam:** written, practical

**S04107 Social and Health Legislation****ECTS credits:** 2**Assessment:** exam**Departments involved:**

Department of Public Law

Faculty of Public Health and Health Care

**Lecturers:**

Chief Assistant Maria Radeva, Ph.D. E-mail:mfilipova@uni-ruse.bg

**Abstract:** the course provides students with the knowledge about legislative regulation of the professional activities of the nurse about the types of responsibility of the professionals in the medical practice, the structure of the health system in Bulgaria and the specific legislation regulating the activities of individual units of the health service and related rights and duties of health professionals, as well as knowledge of basic human rights and patients' rights.

**Course content:**

During lectures, students get acquainted with the following regulations: Labour Code, Criminal Code, Health Law, Health Insurance Law, Medical Institutions Law and decree №18, indicators and methodology for accreditation of medical institutions, Professional Organization Of Nurses , Midwives And Medical Specialists Act, decree № 1 of the professional activities that nurses, midwives and associated medical specialists and healthcare assistants may perform by assignment or by themselves, decree №34 for acquiring a specialty in the healthcare system. The seminars are intended for students to consolidate, enrich and expand their knowledge from the lectures and to gain practical skills and competence in solving different problematic solutions in the field of social and health legislation. This is achieved through open discussions and case studies.

**Teaching and assessment:** Lectures are held once a week, the duration of each lecture is 1 hour. Seminars are also held weekly, illustrating the lecture topics. The final grade is formed as a result between the grade of the continuous assessment and the exam grade.

**Weekly classes:** 1lec+1sem+0labs+1ps**Type of exam:** written**S02761 Latin with Medical Terminology****ECTS credits:** 2**Assessment:** exam**Departments involved:**

Department of Health Care

Faculty of Public Health and Health Care

**Lecturers:**

Assoc. Prof. Nikolina Angelova, PhD, MD, Dept. of Health Care, GSM: +359 888 747 347,

E-mail: nangelova@uni-ruse.bg

Assist. Prof. Maya Stoyanova, tel. +359 82 845 281, E-mail: mstoyanova@uni-ruse.bg

**Abstract:**

The objective of teaching Latin is to introduce students in Nursing to the essential knowledge, which is most necessary for the correct usage of medical and scientific terminology. Learning Latin facilitates students in mastering the medical subjects as far as correct understanding of the meaning of words used as special terms is concerned. Latin grammar is introduced concisely in the context of selected Latin texts, phrases and sentences put in order of methodological sequence. Relying on the acquired minimum of grammar and lexicology knowledge at the end of the course, students should be able to read and translate longer Latin texts by means of a dictionary, master their medical scientific vocabulary and improve their language culture by learning Latin phrases and sentences.

**Course content:**

The Alphabet. Pronunciation. Parts of speech. Verb – conjugation. Noun. Adjective. Pronoun. Numerals. Declension. Word-formation. Medicines and abbreviations.

**Teaching and assessment:**

Teaching methods are specified in compliance with the Nursing syllabus. Lessons are carried out in small groups of students enabling personal performance of each one. Practicing Latin grammar introduced through text examples containing original Latin medical terminology, learning famous phrases and sentences and taking written and oral examination, students gain the knowledge essential to use medical and scientific terminology precisely and correctly.

**Weekly classes:** 1lec+0sem+0labs+1ps**Type of exam:** written, oral

**S02757 Information Technologies****ECTS credits:** 4**Assessment:** exam**Department involved:**

Department of Informatics and Information Technologies

Faculty of Public Health and Health Care

**Lecturers:**

Assoc. Prof. Desislava Atanasova, MEng, PhD, Dept. of Informatics and Information Technologies, tel. +359 888 326, E-mail: datanasova@ami.uni-ruse.bg

**Abstract:**

The course is conducted to students enrolled in the specialty in nursing. The purpose of the lectures is to familiarize students with the computer as a technical device as well as with the software products facilitating the daily work of the specialists in a variety of areas. The purpose of the practice sessions is to provide students with knowledge and skills for working with up-to-date software products applied in word processing, electronic spread-sheets and graphical systems. Students acquire knowledge and skills for operating with approved program systems for document processing, as adopted in the Regional Health Insurance Fund.

**Course content:**

Brief historical notes on computers' development. Characteristics of computer generations. Computer classification. Hardware and software. Operation systems – functions and problems. Operation systems with friendly graphic interface. Application word processing programs – essence, possibilities. Well-known word processing programs. Electronic tables. Local and global computer networks. Internet. Computer processing of medical and economical information. Databases. Statistical data processing.

**Teaching and assessment:**

Lectures are held 2 classes per fortnight. Practice sessions are carried out on what has been taught during the lectures, so that students get familiar with relevant software applications. Students need to self-study the software products before the practice classes. The final grade is formed from the current assessment mark and the exam result.

**S02762 Clinical Practice I****ECTS credits:** 8**Assessment:** exam**Departments involved:**

Department of Health Care

Faculty of Public Health and Health Care

**Lecturers:**

Assoc. Prof. Despina Georgieva, PhD, Dept. of Health Care, phone: +359889789100, E-mail: dpgeorgieva@uni-ruse.bg  
Assoc. Prof. Daniela Konstantinova, PhD, Dept. of Health Care, GSM.: +359 888520021, E-mail: ddraganova@uni-ruse.bg  
Assoc. Prof. Greta Koleva, PhD, Dept. of Health Care, tel. +359 82 888 421, E-mail: gkoleva@uni-ruse.bg  
Sen. Assist. Prof. Irinka Hristova, PhD, Dept. of Health Care, tel. +359 82 888 421, E-mail: ihristova@uni-ruse.bg  
Assist. Prof. Teodora Todorova, Dept. of Health Care, tel. +359 82 888 421, E-mail: tetodorova@uni-ruse.bg

**Abstract:**

The aim of clinical practice I is consolidation and application of knowledge, skills and competencies in real clinical conditions. Clinical practice is an organized learning process in which students work with patients with surgical, somatic and childhood diseases. The expected results are: knowledge about the organization of work, mode specific features and nature of work in therapeutic, surgical and children's section; formation of initial practical skills of nurses working in therapeutic, surgical and children's section; providing a basis for competence on professional activities that the nurse can carry out alone.

**Course content:**

Philosophy and introduction to nursing. Social significance of nursing. History of nursing, emergence and development in Bulgaria. Mission and function of modern nurse. Models of nursing theories. Medical records. Aseptic and antiseptic. Acceptance, transfer and discharge of the patient, rounds; hygiene care. Medical and rational nutrition.

**Teaching and assessment:**

Clinical practice I is conducted in real conditions in the practical bases Hospital Ruse AD: Internal ward (7 weeks) Surgical Ward (5 weeks), Children's Section (3 weeks). Continuous assessment is carried out in two forms: continuous assessment of the preparation for each thematic session and an exam at the end of clinical practice in the division. The final grade is based on the scores received for each clinical setting.

**S02798 Human Physiology and Pathological Physiology****ECTS credits:** 3**Assessment:** exam**Departments involved:**

Department of Health Care

Faculty of Public Health and Health Care

**Lecturers:**

Assoc. Prof. Yulia Palova, MD, PhD, Dept. of Health Care, GSM: +359 882 252 472

**Abstract :**

The aim of this course is to provide students with theoretical and practical knowledge about the biological and physiological mechanism at cellular, tissue and organism levels. The expected outcome is the acquisition of knowledge and skills, as well as cultivating clinical thinking for accurate planning and application of nursing care

**Course content**

The syllabus includes topics from the following fields: Material nature of life. Chemical compounds, building the organism. Biocatalysts. Regulations of physiological functions. The cell. Blood and lymph. Physiology of motor activity. Central Nervous System. Higher Nervous Activity. Peripheral Nervous system. Cardiovascular system. Respiratory system. Digestive system. Endocrine system. Excretory system. Reproductive system. Health and ailments. Heredity and volatility.

**Teaching and assessment:**

The main method of teaching is lectures and practical seminars. Continuous assessment is conducted through tests after each section of study is completed. The final procedure is a written exam.

**Weekly classes:** 2,5lec+0sem+0labs+0,5ps**Type of exam:** written**S04063 Neurology and Psychiatry****ECTS credits:** 2**Assessment:** exam**Departments involved:**

Department of Health Care

Faculty of Public Health and Health Care

**Lecturers:**

Assoc. Prof. Nely Petrova, MD, PhD, Dept. of Public Health and Social Work, GSM: +359888793906,

E-mail: npetrova27@gmail.com

Assoc. Prof. Nikolina Angelova, PhD, MD, Dept. of Health Care, GSM: +359 888 747 347,

E-mail: nangelova@uni-ruse.bg

**Abstract:**

The main purpose of the course is for students to assimilate the main functions of the nervous system, as well as it's disorders. This study schedule provides the theoretical knowledge as well as the practical skills, to face the most common disorders of the central and peripheral nervous systems, as well as the emergency cases in relation to the neurological ward and outpatient care.

**Course content:**

The content is summed up with these modules: Standard neurological studies. Clinical neurology – introduction. Approach to patients with neurological diseases. Clinical neuroanatomy: Brain. Cerebrospinal fluid. Blood circulation of the brain. Spine. Peripheral nervous system. Psychiatry – psychological pathology. Schizophrenia. Emergency cases in psychiatric care.

**Teaching and assessment:**

The main ways to conduct study sessions is lectures and practical exercises. The lectures are held in an auditorium, equipped with tools for visualization. The practical exercises takes place after the relevant subject lecture in specialised laboratories of the University Hospital in and the University of Ruse. In order to check the levels of knowledge and understanding of the material the students undergo a test, based on the lectures. The test and the practice participation form the score of the student. The last grade is based on after the students complete a written practice and further testing.

**Weekly classes:** 0,5lec+0sem+0labs+0,5ps**Type of exam:** written

**S02804 Clinical Laboratory, Biochemistry and Immunology****ECTS credits:** 1**Assessment:** exam**Departments involved:**

Department of Health Care

Faculty of Public Health and Health Care

**Lecturers:**

Assoc. Prof. Maria Radanova, PhD, Dept. of Health Care, tel.: +359 82 888 421, E-mail: m\_radanova@abv.bg

**Abstract:**

The Basic purpose of education in Clinical Laboratory, Biochemistry and Immunology is giving students basic concepts for biological macromolecules, for chemical processes, happening in organism, for interaction between them and mechanisms, regulating them, as well as knowledge for solving of definite problems, connected with emergency and urgent condition in healthcare.

**Course content:**

Curriculum contains of following modules: bio-molecules. Metabolism. Carbohydrate metabolism. Digestion. Immunity. Genetic information flow. Express methods in clinical laboratory.

Nurse behavior to patient in shock, Nurse behavior in emergency conditions in outpatient practice, Intensive nurse care to patients with cardiovascular diseases, Intensive nurse care to patients with endocrine diseases, Intensive nurse care to patients with urinal tract diseases, Intensive nurse care to patients with diseases of digestive system.

**Teaching and assessment:**

Main forms for classes are lectures and practical exercises.

Lectures are given in a specialized auditory, equipped with visualizing devices. Practical exercises are led immediately after the relevant lecture in specialized laboratories of RU and Hospital of Ruse. For evaluation a test is given. The mark of the continuous assessment is formed by the test and participation of students in practical exercises. The final mark is formed after a written exam.

**S02805 Philosophy and Introduction to Nursing Care II****ECTS credits:** 4**Assessment:** exam**Departments involved:**

Department of Health Care

Faculty of Public Health and Health Care

**Lecturers:**

Assoc. Prof. Despina Georgieva, PhD, Dept. of Health Care, phone: +359889789100, E-mail: dpgeorgieva@uni-ruse.bg

Assoc. Prof. Daniela Konstantinova, PhD, Dept. of Health Care, GSM.: +359 888520021,

E-mail: ddraganova@uni-ruse.bg

Assoc. Prof. Greta Koleva, PhD, Dept. of Health Care, tel. +359 82 888 421, E-mail: gkoleva@uni-ruse.bg

Sen. Assist. Prof. Irinka Hristova, PhD, Dept. of Health Care, tel. +359 82 888 421, E-mail: ihristova@uni-ruse.bg

Assist. Prof. Teodora Todorova, Dept. of Health Care, tel. +359 82 888 421, E-mail: tetodorova@uni-ruse.bg

**Abstract:**

The course aims to reveal the nature of general and specific nursing care, as well as their specific features for different age groups and for individuals with different health status in the context of prevention, prophylaxis and treatment. The expected outcome is the acquisition of knowledge and skills, as well as cultivating clinical thinking for accurate planning and application of nursing care.

**Course content:**

The syllabus includes topics from the following fields: Health education. Prophylaxis of socially significant diseases. Nurse's diagnosis. Planning of nursing care. Care and feeding of infants and toddlers. Physiotherapy. Medicines-application. Types of injections. Infusion solutions. Chemo transfusion. Punctures. Obtaining, storing and sending materials for testing.

**Teaching and assessment:**

The course is taught through lectures and practical exercises, which are held in specialized rooms for health care, as well as in real conditions at the respective education and practice facilities – hospitals, diagnostic consultancy centers, medical centers, etc. Continuous assessment is carried out during both lectures and seminars. The final grade is formed after a two-part exam – theory and practice.

**S04095 Nursing Care for Patients with Neurological Disorders****ECTS credits:** 2**Assessment:** exam**Departments involved:**

Department of Health Care

Faculty of Public Health and Health Care

**Lecturers:**

Sen. Assist. Prof. Irinka Hristova, PhD, Dept. of Health Care, tel. +359 82 888 421, E-mail: ihristova@uni-ruse.bg

**Abstract:**

The main purpose of the course is to introduce the students to the general and special nursing care and its specificity in neurology and the medical needs of neurological patients in the training of the nurse.

**Course content:**

Clinical research in neurology. Neuroimaging methods in neurology. Preparation of the patient. Special nursing care in patients with cerebrovascular disease. Special nursing care in patients with ischemic, hemorrhagic stroke and subarachnoid hemorrhage.

**Teaching and assessment:**

The main ways to conduct study sessions is lectures and practical exercises. The methods used are lectures and discussions; observation; documents study. The means of training are: multimedia, interactive boards, panels, moulages, models, simulating patient, simulated and real hospital environment, computers. There is continuous assessment which is conducted in the form of discourse, didactic tests and case solving, case studies and individual work in small groups. To complete the semester a 100% attendance of lectures and practical exercises is required as well as active participation in discussions, in solving and performing the educational tasks. The final evaluation is based on a theoretical and practical exam.

**S02808 Nursing Care for Patients with Somatic Diseases I****ECTS credits:** 3**Assessment:** exam**Departments involved:**

Department of Health Care

Faculty of Public Health and Health Care

**Lecturers:**

Assoc. Prof. Despina Georgieva, PhD, Dept. of Health Care, phone: +359889789100,

E-mail: dpgeorgieva@uni-ruse.bg

Sen. Assist. Prof. Irinka Hristova, PhD, Dept. of Health Care, tel. +359 82 888 421,

E-mail: ihristova@uni-ruse.bg

**Abstract:**

The aim of this course is for students to acquire theoretical knowledge and practical skills related to the main symptoms of somatic illnesses, the preparation and conducting of diagnostics, the basic nursing technique for the therapeutic and diagnostic process, as well as identifying emergency states and providing adequate nurse's reaction. The expected outcome would be acquisition of knowledge and skills and formation of clinical thinking for accurate planning and implementation of nursing care.

**Course content:**

The syllabus includes topics from the following fields: Preparation and conducting of basic medical tests of patients with health problems in the respiratory, cardiovascular and endocrine systems. General and specific nursing care.

**Teaching and assessment:**

The course is taught through lectures and practical seminars, which are held in specialized rooms for health care, as well as in real conditions at the respective education and practice facilities – hospitals, diagnostic consultancy centers, medical centers, etc. Continuous assessment is carried out during both lectures and seminars. The final grade is formed after a two-part exam – theory and practice.

**Weekly classes:** 1lec+1sem+0labs+2ps**Type of exam:** written, practical**Weekly classes:** 1lec+0sem+0labs+2ps**Type of exam:** written, practical



**S02760 Internal Diseases I****ECTS credits:** 3**Assessment:** exam**Departments involved:**

Department of Health Care

Faculty of Public Health and Health Care

**Lecturers:**

Assoc. Prof. Dobrin Vasilev, MD, PhD, Dept. of Health Care, tel.: +359 82 888 421,

E-mail: dobrinv@gmail.com

Assoc. Prof. Ognyan Sherbanov, MD, PhD, Dept. of Health Care, tel.: +359 82 502 430,

E-mail: osherbanov@uni-ruse.bg

**Weekly classes:** 2,5lec+0sem+0labs+0,5ps**Type of exam:** written**Abstract:**

The aim of this course is for students to acquire theoretical knowledge and practical skills related to the main symptoms of internal diseases, the preparation and conduction of diagnostic work, the basic nursing technique for implementing treatment and diagnosis process, as well as recognizing emergency cases and providing adequate reaction. The expected outcome would be acquisition of knowledge and skills and formation of clinical thinking for accurate planning and implementation of nursing care

**Course content:**

The syllabus is organized into modules looking into diseases of the cardiovascular, respiratory and endocrine systems, as well as diseases related to metabolism and endocrine glands. The practical seminars build on the lecture topic in the module with methods for testing the diseases under study and demonstrating those in the therapeutic ward.

**Teaching and assessment:**

The course is taught through lectures and practical seminars. The lectures are held in halls with audio-visual aids while the practical seminars are held after the lecture at the Internal Diseases ward in the hospital in Ruse. Checks and grading are carried out through a test. Continuous assessment is a result of the test grade and student participation in the practical seminars. The final grade is formed after a two-part exam – theory and practice.

**S04061 Surgery I****ECTS credits:** 3**Assessment:** exam**Departments involved:**

Department of Health Care

Faculty of Public Health and Health Care

**Lecturers:**

Assoc. Prof Pencho Genov, MD, PhD, dept. of Health Care, GSM: +359895606380, E-mail: genov\_p@abv.bg

**Abstract:**

The purpose and objectives of the course are for nurses to acquire a system of knowledge and skills about the surgery as a clinical discipline, pre-operative and post-operative care, major diseases and behaviours in surgery and traumatology. Expected results are to acquire theoretical and practical knowledge for independent application:

- nurse's responsibilities in surgical diseases;
- role, place and participation in the preparation and conduction of laboratory and other tests;
- developing skills in proper handling of aseptic and septic wound, applying all kind of bandages.

**Course content:**

The following topics are included: Organization of surgical activity. Pre-and postoperative care. Asepsis and antisepsis. Types of surgical instruments. Bleeding, traumatic and thermal injuries, types of inflammation.

**Teaching and assessment:**

Classes are conducted in the form of lectures and practical exercises. Lectures and practical exercises are held in specialized laboratories and in real conditions. Current control is carried out at lectures and practical exercises. The final grade is based on an exam.

**S02809 Clinical Practice II****ECTS credits:** 8**Assessment:** exam**Departments involved:**

Department of Health Care

Faculty of Public Health and Health Care

**Lecturers:**

Assoc. Prof. Despina Georgieva, PhD, Dept. of Health Care, phone: +359889789100, E-mail: dpgeorgieva@uni-ruse.bg

Assoc. Prof. Daniela Konstantinova, PhD, Dept. of Health Care, GSM.: +359 888520021, E-mail: ddraganova@uni-ruse.bg

Assoc. Prof. Prof. Greta Koleva, PhD, Dept. of Health Care, tel. +359 82 888 421, E-mail: gkoleva@uni-ruse.bg

Sen. Assist. Prof. Irinka Hristova, PhD, Dept. of Health Care, tel. +359 82 888 421, E-mail: ihristova@uni-ruse.bg

Assist. Prof. Teodora Todorova, Dept. of Health Care, tel. +359 82 888 421, E-mail: tetodorova@uni-ruse.bg

**Abstract:**

The aim of the Clinical Practice II is the consolidation and application of knowledge, skills and competencies in real clinical conditions. Students work with patients with surgical and somatic diseases. The syllabus of the course aims to reveal the nature of general and special nursing care and their specificity in different age groups as well as individuals with different health status in the context of prevention of disease prevention and treatment. The expected results are: knowledge about the organization of work, mode specific features and nature of work in therapeutic and surgical; formation of initial practical skills of nurses working in therapeutic and surgical ward; providing a basis for competence on professional activities that the nurse can perform independently and to medical appointments.

**Course content:**

Philosophy and introduction to nursing II: Physiotherapy means. Prescription of medicines. Enteral and parenteral administration of drugs in children and adults. Collection, storage and transport of materials for laboratory tests. Intradermal injection. Tuberculin samples. Subcutaneous injection. Administration of insulin and heparin. Skin diagnostic samples. Nursing process. Intramuscular injection in children and adults. Intravenous injection. Dissolving and dosing of antibiotics. Special characteristics in infancy and childhood. Intravenous infusion. Preparation for transfusion. Blood collection for clinical laboratory tests and hemoculture. Collection and transportation of materials for microbiological tests.

**Teaching and assessment:**

Clinical Practice II is conducted in real conditions in practical bases of the University Hospital in Ruse – Internal ward (8 weeks), Surgical ward (7weeks). Continuous assessment is carried out in two forms: continuous assessment of the preparation for each thematic session and an exam at the end of clinical practice in the division. The final grade is based on the scores received for each clinical setting.

**S02811 Medical Imaging in Nursing Care****ECTS credits:** 1**Assessment:** exam**Departments involved:**

Department of Health Care

Faculty of Public Health and Health Care

**Lecturers:**

Assoc. Prof. Elisaveta Valcheva, MD, PhD, Dept. of Health Care, GSM: +359 888 991 575

**Abstract:**

The purpose of the course is achieving basic theoretical knowledge and practical skills in the field of imaging studies by studying Roentgen diagnostics of diseases. The education reveals most important roentgen and non-roentgen studies in medical practice, as well as knowledge for characteristics and features of ionizing radiation.

**Course Content:**

Imaging studies of respiratory system. Imaging studies of cardiovascular system. Imaging studies of gastrointestinal system. Imaging studies of urinary system. Imaging studies of diseases of muscle-skeletal system. Imaging studies of central and peripheral nerve system.

**Teaching and assessment:**

Forms for classes: lectures and practical exercises. Lectures and practical exercises are carried out in auditorium, provided with visualizing devices. Practical exercises are led immediately after the relevant lecture and are carried out in the Imaging Studies Unit. Current control is done by two tests – first, checking the knowledge from lectures, and second one – skills, formed during exercises. The test consists of educational – practical task, connecting with imaging diagnostic of a concrete illness. The mark from the continuous assessment is formed by the test and students' participation in practical exercises. 100% lectures and exercises visit and solving of two tests are wanted. Absence is not permitted. The final control procedure is written and oral exam with two questions from lectures according to an applied synopsis

**S02867 Internal Diseases II****ECTS credits:** 3**Assessment:** exam**Departments involved:**

Department of Health Care

Faculty of Public Health and Health Care

**Lecturers:**

Assoc. Prof. Dobrin Vasilev, MD, PhD, Dept. of Health Care, tel.: +359 82 888 421,

E-mail: dobrinv@gmail.com

Assoc. Prof. Ognyan Sherbanov, MD, PhD, Dept. of Health Care, tel.: +359 82 502 430,

E-mail: osherbanov@uni-ruse.bg

**Abstract:**

The purpose of the discipline is giving modern theoretical knowledge for internal diseases and forming practical skills in nurses, connected with diagnose building, treatment and cares for patient. Curriculum content is organized in modules, according to the form of its studding – lectures go over diseases of digestive and urinary systems, diseases of muscle-skeletal apparatus, blood diseases, toxicology and allergic diseases. Exercises are built over lecture topic. Expected results are achieved knowledge for etiology and clinical picture of internal diseases, formed skills for independent work an under doctor's supervision, forming of professional competencies to prevent, support, recover and improve persons' health, considering individual features, identifying health needs, physical risks for health, putting a nurse diagnose and medical health cares.

**Course content:**

Course content is organized in modules, according to the form of its study – lectures go over diseases of gastro-intestinal tract, diseases of liver and bile duct, diseases of muscle-skeletal apparatus, blood diseases, toxicology and allergic diseases. Exercises are built over lecture topic in a module by methods for studding of diseases and demonstration in therapeutic unit.

**Teaching and assessment:**

The main forms for classes are lectures and practical exercises.

Lectures are delivered in a specialized auditory, equipped with visualizing devices. Practical exercises are led immediately after the relevant lecture in Internal Diseases Unit of Hospital of Ruse. For evaluation a test is given. Current control mark is formed by the test and participation of students in practical exercises. The final mark is formed after an exam in 2 parts – theoretical and practical.

**SB10034 Pediatric with Neonatology****ECTS credits:** 3**Assessment:** exam**Departments involved:**

Department of Health Care

Faculty of Public Health and Health Care

**Lecturers:**

Assoc. Prof. Svilen Dosev, MD, PhD, Dept. of Health Care, tel. +359 888 885 988,

E-mail: sdosev@uni-ruse.bg

**Abstract:**

The purpose of the discipline "Pediatrics with Neonatology" is giving information for morphologic and functional features of child and its development from intrauterine and neonate period to the end of puberty and adolescence, as well as following up the pathology in any age period with accent on pathophysiological mechanisms and modern therapeutic and prophylactic methods. Students to receive knowledge for specific features of different organs and systems, to point their attention to early, sub clinical symptoms of main nosologic categories with purpose of preventing from heavy complications and consequences.

**Course content:**

Curricula involves theoretical and practical modules, involving: Introduction in Pediatrics. Child as a Patient. Periods of Childhood. Physical and Neuro-psychical development. Nutrition of Child. Main Principles of Therapy and Prophylaxis in child's age. Diseases in child's age in different systems.

**Teaching and assessment:**

The main forms for classes are lectures and practical exercises. Classes – lectures and practical exercises, are carried out in specialized rooms and real clinical conditions. There is continuous assessment during the lecturers and exercises. The final mark of the discipline is formed after an exam.

**Weekly classes:** 2,5lec+0sem+0labs+0,5ps**Type of exam:** written**Weekly classes:** 2lec+0sem+0labs+1ps**Type of exam:** written

**S04070 Surgery II****ECTS credits:** 2**Assessment:** exam**Departments involved:**

Department of Health Care

Faculty of Public Health and Health Care

**Lecturers:**

Assoc. Prof Pencho Genov, MD, PhD, dept. of Health Care, GSM: +359895606380, E-mail: genov\_p@abv.bg

**Abstract:**

**Purpose and objectives of the course:** The course purpose is for nurses to acquire a system of knowledge and skills about surgery as clinical discipline, traumas and diseases in the thorax and the adjoining organs. Care for the main diseases and behaviours in surgery – ulcer, hernia, appendicitis, peritonitis, ileus. Students acquire practical knowledge in recognizing the main symptoms of hemorrhage in the gastrointestinal tract, benign and malignant diseases of the large intestine and the liver. Urology topics are also included. Workshops' topics expand the level and illustrate the lectures, contributing for establishing practical knowledge and competencies.

**Course content:**

Classes are conducted under the form of lectures and practical exercises. The following topics are included: trauma conditions of the thorax and the adjacent organs. Trauma and injury in the abdominal wall and adjacent organs. Ulcer, hernia, appendicitis, ileus, peritonitis. Diseases of the genitourinary system.

**Teaching and assessment:**

Classes, lectures and workshops are held in specialized laboratories and in real conditions. Current control of lectures and exercises. Final grade is based on an exam.

**S02928 Nursing Care for Patients with Somatic Diseases II****ECTS credits:** 3**Assessment:** exam**Departments involved:**

Department of Health Care

Faculty of Public Health and Health Care

**Lecturers:**

Assoc. Prof. Despina Georgieva, PhD, Dept. of Health Care, phone: +359889789100, E-mail: dpgeorgieva@uni-ruse.bg

Sen. Assist. Prof. Irinka Hristova, PhD, Dept. of Health Care, tel. +359 82 888 421, E-mail: ihristova@uni-ruse.bg

**Abstract:**

The purpose of the discipline "Practical base of nurse care. Nurse care to Patients with Somatic Diseases II" is revealing common and special/ specific nurse care and their specifics in different areas of somatic pathology in medical science necessary in process of nurse training.

**Course content:**

Curriculum includes topics from the following directions:

Preparation and carrying out basic tests to patients with diseases of gastro-intestinal tract, diseases of liver and bile duct, urinary tract diseases, diseases of muscle-skeletal apparatus, blood diseases, toxicology and allergic diseases.

**Teaching and assessment:**

Main forms for classes are lectures and practical exercises.

Classes – lectures and exercises are led in health care rooms and in real circumstances in the relevant educational-practical bases – in- and outpatient.

There is continuous assessment during the lectures and exercises. The final mark is formed after an exam in two parts – theoretical and practical.

**S02722 Medical Equipment in Nursing Practice****ECTS credits:** 1**Assessment:** exam**Departments involved:**

Department of Health Care

Faculty of Public Health and Health Care

**Lecturers:**

Assoc. Prof. Anelia Manukova, Dept. of Public Health and Social Work, GSM: +359 82 821 993,

E-mail: [amanukova@uni-ruse.bg](mailto:amanukova@uni-ruse.bg)**Abstract:**

The course objective is to inform the students with the methodological and hardware problems of modern biomedical engineering, to introduce students to the main areas of application of technical equipment in nursing practice. The practical exercises are aimed at creating skill for experimental studies for different medical equipment and devices and also solving specific tasks in the field of their clinical application.

**Course content:**

Biological action of the electric current and electrical safety case studies. Electromagnetic waves and optical devices. Recording devices of the biopotentials – electrocardiogram. Measuring the temperature flow and blood pressure. Measuring pH. Centrifuges and sterilizers.

**Teaching and assessment:**

The lectures give the main theoretical knowledge through demonstrations of electronic medical devices and medical systems. Practical exercises help students acquire the skills and habits of independent work with various medical devices and medical systems. The final assessment is based on a written exam.

**Weekly classes:** 1lec+0sem+0labs+1ps**Type of exam:** written**S03012 Nursing Care in Pediatrics****ECTS credits:** 3**Assessment:** exam**Departments involved:**

Department of Health Care

Faculty of Public Health and Health Care

**Lecturers:**Sen. Assist. Prof. Irinka Hristova, PhD, Dept. of Health Care, tel. +359 82 888 421, E-mail: [ihristova@uni-ruse.bg](mailto:ihristova@uni-ruse.bg)**Abstract:**

The purpose of the discipline Nurse Care in Pediatrics is revealing common and special/ specific nurse care and their specifics in Pediatrics, their specifics in taking care to children nurse training.

**Course content:**

Curriculum contains of theoretical and practical modules, including: feeding of suckling and a child, physical healing procedures in suckling and child, basic principles of prophylaxis in childhood, social nurse care to children with diseases of respiratory, cardiovascular, digestive, urinary, nerve, endocrine systems. Special nurse cares in emergency conditions in pediatrics.

**Teaching and assessment:**

Main forms for classes are lectures and practical exercises. Classes – lectures and exercises are led in specialized rooms and in real clinical circumstances. There is continuous assessment during the lectures and exercises. The final mark is formed after an exam in two parts – theoretical and practical.

**Weekly classes:** 1lec+0sem+0labs+2ps**Type of exam:** written, practical

**S03058 Nursing Care at Home****ECTS credits:** 4**Assessment:** exam**Departments involved:**

Department of Health Care

Faculty of Public Health and Health Care

**Lecturers:**Sen. Assist. Prof. Irinka Hristova, PhD, Dept. of Health Care, tel. +359 82 888 421, E-mail: [ihristova@uni-ruse.bg](mailto:ihristova@uni-ruse.bg)Dept. of Health Care, E-mail: [gkoleva@uni-ruse.bg](mailto:gkoleva@uni-ruse.bg)**Abstract:**

The course aims to reveal general and special nursing care for home-based patients as well as their specificity in nursing; to outline the scientific status of the theory of health care for a person - whether healthy or ill; to acquire practical skills and competencies for home care for patients with diseases of different organs and systems; to build practical skills for planning, organizing and implementing nursing care at the patient's home.

**Course content:**

The course includes theoretical and practical modules: nursing care of the patient's regime and diet; care for monitoring vital functions; care in the application of physiotherapy, rehabilitation and kinesitherapy at home; care for diseases of respiratory, cardiovascular, digestive, nervous, urinary system; care for surgical diseases; care for diseases of the locomotor system; palliative nursing care.

**Teaching and assessment:**

The main forms of the classes are lectures and practical exercises. Lectures are conducted in the audiences of the University of Ruse and the practical exercises – in the specialized home care lab as well as in the patient's home. There is continuous assessment during the lectures and practical exercises. The final grade is based on an examination in two parts – theoretical and practical.

**S00019 Clinical Practice III****ECTS credits:** 8**Assessment:** exam**Departments involved:**

Department of Health Care

Faculty of Public Health and Health Care

**Lecturers:**Assoc. Prof. Despina Georgieva, PhD, Dept. of Health Care, phone: +359889789100, E-mail: [dpgeorgieva@uni-ruse.bg](mailto:dpgeorgieva@uni-ruse.bg)Assoc. Prof. Daniela Konstantinova, PhD, Dept. of Health Care, GSM.: +359 888520021, E-mail: [ddraganova@uni-ruse.bg](mailto:ddraganova@uni-ruse.bg)Assoc. Prof. Prof. Greta Koleva, PhD, Dept. of Health Care, tel. +359 82 888 421, E-mail: [gkoleva@uni-ruse.bg](mailto:gkoleva@uni-ruse.bg)Sen. Assist. Prof. Irinka Hristova, PhD, Dept. of Health Care, tel. +359 82 888 421, E-mail: [ihristova@uni-ruse.bg](mailto:ihristova@uni-ruse.bg)Assist. Prof. Teodora Todorova, Dept. of Health Care, tel. +359 82 888 421, E-mail: [tetodorova@uni-ruse.bg](mailto:tetodorova@uni-ruse.bg)**Abstract:**

The aim of the course is deepening and enhancing the acquired theoretical knowledge, developing practical skills and professional competencies in a real clinical environment, as well as developing communication skills with patients and team members. The objectives of the discipline are to outline the scientific status of nursing care and reveal their essence for hospitalized patients and people in need of long-term care.

**Course content:**

Clinical practice follows lectures and pre-clinical exercises. It takes place in a real environment. Clinical practice III is carried out in a surgical ward, an operating room, a children's ward, and an internal ward of the University Hospital in Rousse, as well as in social homes and hospices.

**Teaching and assessment:**

Clinical practice is organized, conducted and guided by a lecturer. The methodology of clinical practice is related to the organization and conduct of independent work of the students in a real environment. There is continuous assessment during the practical exercises through discussions, tests, case solving and situational tasks. The final control procedure is a two-part exam – theoretical and practical.

**SB15260 Communications in nursing practice****ECTS credits:** 2**Assessment:** exam**Departments involved:**

Department of Health Care

Faculty of Public Health and Health Care

**Lecturers:**

Assoc. Prof. Despina Georgieva, PhD, Dept. of Health Care, phone: +359889789100,

E-mail: dpgeorgieva@uni-ruse.bg

**Abstract:**

The aim of the course is to give the nurses knowledge, skills and communicative competences. Introducing the role of verbal and non-verbal communication in the nursing practice. Acquisition of psychological and medical knowledge, abilities and communication skills with both patients and their relatives. Acquiring knowledge of the particularities of personality in different age periods and applying individual approach to communication. Practical exercises develop skills in performing clinical communication with patients with psychiatric and somatic diseases.

**Course content:**

The course topics include introduction to the types of communication, process of communication, rules for active listening and feedback. The role of nonverbal communication in the professional communication of the nurse. Barriers to communication. The team as a social structure. The purpose of the practical exercises is to introduce causes, types and expressions of fear in the patients. Introducing different strategies of verbal and non-verbal communication. Rules and techniques of clinical communication

**Teaching and assessment:** the main form of conducting classes are lectures and practical exercises. Lectures are in the form of presentations and discussions. The main methods used in presentations are role playing, training, case studies, problem solving scenarios, which allow the formation of certain skills and competencies for communication. Part of the practice sessions are held in real clinical conditions. The final mark is formed by an exam.

**SB13769 Nursing care in aesthetic dermatology and medical cosmetics****ECTS credits:** 2**Assessment:** exam**Departments involved:**

Department of Health Care

Faculty of Public Health and Health Care

**Lecturers:**

Assoc. Prof. Daniela Grozeva, MD, PhD, Dept. of Health Care, tel. +359888594144,

E-mail: dgrozeva@uni-ruse.bg

**Abstract:**

Every student who has passed the course in Aesthetic dermatology and medical cosmetics must possess knowledge in the field of medical cosmetics and its application to various skin types and problems. Required knowledge of the use of various anti-aging treatments, administered by injection.

**Course content:**

The course content includes study of the following problems: Structure and importance of the skin. Functions, secretion, pH, hydration of the skin. Skin and environmental factors. What is aesthetic dermatology and medical cosmetics. Cosmetic safety of medical cosmetics. Skin patch testing different allergens for skin allergy.

**Teaching and assessment:**

The main forms of conducting classes are lectures. Methods: lecture, discussion; surveillance; study of documents; practice problem solving that illustrate and specify theoretical material. Computer presentation and other visual materials are also used. The final grade is formed from theoretical knowledge and presentation of an essay.

**Weekly classes:** 2lec+0sem+0labs+1ps**Type of exam:** written**Weekly classes:** 2lec+0sem+0labs+0ps**Type of exam:** written

**SB15261 Nursing Care in Dental Medicine****ECTS credits:** 1**Assessment:** exam**Departments involved:**

Department of Health Care

Faculty of Public Health and Health Care

**Lecturers:**

Prof. Ivanichka Serbezova, PhD, Dept. of Health Care, GSM.:+359 888731063,

E-mail: iserbezova@uni-ruse.bg

Dr. Milka Serbezova, PhD, Dept. of Health Care, tel. +359 888 421

**Abstract:**

The main purpose of the elective course in Nursing Care in Dental Medicine is to introduce students to the specifications of the requirements of the modern dental office as well as the function of the nurse assisting and supporting the dentist, as well as caring out tasks for the patient dental care.

**Course content:**

It involves the function of the nurse in the dental clinic. Layout of the dental clinic. Tools use in the dental practice. Anatomical and physiological features in the teeth, and the difference between an adult and adolescent. General knowledge in the ability of the nurse to work in dental surgery, therapeutic dental nursery, children and orthodontist nursery. Nurse's obligations within the cooperation between the X-ray lab and the dental clinic.

**Teaching and assessment:**

The lectures take place in a lecture room, equipped with the relevant multimedia for presentations. Practice: In real life ambulatory for dental care and hygiene, where students observe the organization in the nurse's work place. The final grade is based on a written exam. The paper is theoretical and covers lecture material and it continues with a verbal test, in order to establish the level of gathered knowledge, which the student possesses

**S04108 Pharmacology****ECTS credits:** 3**Assessment:** exam**Departments involved:**

Department of Health Care

Faculty of Public Health and Health Care

**Lecturers:**

Assoc. Prof. Antonia Kastelova, MD, PhD, Dept. of Health Care, GSM 00359 888768714,

E-mail: akastelova@sopharma.bg

**Abstract:**

The aim of the course in Pharmacology is to provide students with advanced theoretical and practical knowledge about medicines, needed for their comprehensive professional training and clinical work.

In the spirit of the new academic degree programme the requirements for the training of nurses have been significantly raised. Besides basic knowledge about the different pharmacological groups, they have to know the specific impact, kinetics and interactions, depending on various factors of the medicine, the patient's organism and the environment.

**Course content:**

The syllabus includes topics from the following fields: Subject and objectives of pharmacology. Types of prescriptions. Medicine form – definition, types. Administering the medicine into the organism. Pharmacodynamics. Pharmacokinetics. Special pharmacology. Anti-microbe medicines.

**Teaching and assessment:**

Students get acquainted with the theoretical course content through lectures. The practicals illustrate the theory through examples and diagrams. Continuous assessment is conducted through regular tests (in the beginning of every practical) and oral discussions. A final test is conducted during the last seminar. The final procedure is an exam with two topics from the syllabus.

**Weekly classes:** 1lec+0sem+0labs+1ps**Type of exam:** written**Weekly classes:** 2lec+0sem+0labs+1ps**Type of exam:** written



**S04097 Geriatrics****ECTS credits:** 1**Assessment:** exam**Departments involved:**

Department of Health Care

Faculty of Public Health and Health Care

**Lecturers:**

Assoc. Prof. Dobrin Vasilev, MD, PhD, Dept. of Health Care, tel.: +359 82 888 421,

E-mail: dobrinv@gmail.com

**Abstract:**

The education of geriatrics has the purpose to combine optimally theory and practical skills for doing nursing to elderly people in the circumstances of ambulatory practice, as well as hospital medical aid in all the spectrum of disease, met in advanced and elderly age. The main purpose of education is achieving knowledge for quality of life, special characteristics in prevention and rehabilitation, as well as practical skills for making high quality nurse activities in elderly people. Important point in training of future nurses is attaining skills for adequate team work with specialist from different specialties substantiated the modern tendency in geriatrics for specialized geriatric help from teams of different specialists.

**Course content:**

Lecturers involve: Gerontology. Growing old and old age. Theories for growing old. Physiologic changes in ageing. Geriatrics. Healthcare for elderly people. Organization of medical help. Palliative care. Psychological problems, connected with ageing Geriatric pharmacology. Nutrition of elderly people. Characteristic and specific features of elderly people diseases. Specific features of clinical evaluation. Main clinical principles in geriatrics. Practical exercises include respiratory system diseases of elderly, cardiovascular and gastrointestinal diseases, blood diseases, diseases of urinal system of elderly, of endocrine system, of muscle-skeletal system and surgical problems in geriatrics.

**Teaching and assessment:**

The main forms for classes are lectures and practical exercises. Classes – lectures and exercises are carried out in specialized rooms and in real conditions. There is continuous assessment during the lectures and exercises. The final mark of the subject is formed after an exam in 2 parts – theoretical and practical.

**S02759 Medical Genetics****ECTS credits:** 1**Assessment:** exam**Departments involved:**

Department of Health Care

Faculty of Public Health and Health Care

**Lecturers:**

Assoc. Prof. Iliana Kostova, PhD, phone +359882836776, E-mail: ikostova@uni-ruse.bg

**Abstract:**

The course of medical genetics is intended for students in nursing at the University of Ruse. The lectures present the basic anomalies in human genetics and violations leading to it, getting inherited in different families, spreading innate and inherited diseases in the population and the principles of genetic diagnosis and prevention. The main groups of congenital defects and diseases are considered - chromosome, molecular and those with hereditary predisposition. The knowledge about the main approaches of genetic prevention is very important - prenatal diagnosis, genetic screening of pregnant women, and selective and mass screening of newborns for congenital malformations and inherited metabolic diseases, etc.

**Course content:**

General concepts in genetics. Classification and distribution of hereditary diseases. Methods of genetic testing of humans. Chromosomal disorders. Diagnosis of chromosomal diseases – cytogenetic methods. Indications for referral. Monogenic syndromes, inborn errors of metabolism, hemoglobinopathies. Diagnosis of monogenic syndromes – genealogy, biochemical and molecular genetic methods. Multifactorial inherited congenital anomalies and frequent diseases in adults. Diagnostics.

**Teaching and assessment:**

Modern audiovisual aids are used during the lectures. Laboratory exercises are conducted in the training laboratories of the university. The final grade is formed on the basis of a successful written exam.

**S03536 Human Clinical Pathology****ECTS credits:** 1**Assessment:** exam**Departments involved:**

Department of Health Care

Faculty of Public Health and Health Care

**Lecturers:**

Assoc. Prof. Petar Genev, MD, Dept. of Health Care, GSM: +359 885 163 760, E-mail: ggenev@gmail.com

**Abstract:**

The purpose of the discipline is to teach the basic general pathology processes and morphological changes at the most common nosological units. Particular emphasis is placed on disorders of the blood and lymphatic circulation, inflammation compensating-adaptive processes (regeneration, hypertrophy, hyperplasia, atrophy). The diseases associated with the external environment to learn basic pathological processes and mechanisms of pathological changes in organs and systems in different diseases are discussed.

**Course content:**

Subject, tasks and methods of research in pathology. Degenerative cellular and extracellular pathological processes. Morphological manifestations of disorders of protein, fat and pigment metabolism. Hyalinosis, amyloidosis. Disturbances in mineral metabolism. Blood circulation. Ischaemia disorders. Haemorrhages. Thrombosis, embolism, myocardial-species output. Immunopathology. Types of immunological reactions. Autoimmune diseases. Innate and acquired immune deficits. Tumors. Precancerous conditions, types of tumors, benign and malignant types according to their histogenesis. Morphological manifestations of socially significant diseases of the respiratory system-inflammatory and tumors. Methods of examination in the pathology. Pathological processes species. Violation in protein, fat, pigment and mineral metabolism.

**Teaching and assessment:** Lectures are held in the auditorium. Various interactive methodical presentation, lecture, discussion, demonstration, case studies, directed at stimulating students' active participation. Practical exercises are conducted in the pathology room in the Hospital of Ruse. The main methods are a demonstration of biopsy samples with pathological damage, pictures, models. The final grade is based on the evaluation of the examination conducted in two parts - theoretical and practical.

**SB14369 Nursing Care for Geriatric Patients****ECTS credits:** 4**Assessment:** exam**Departments involved:**

Department of Health Care

Faculty of Public Health and Health Care

**Lecturers:**

Assoc. Prof. Despina Georgieva, PhD, Dept. of Health Care, phone: +359889789100,

E-mail: dpgeorgieva@uni-ruse.bg

**Abstract:**

The main purpose of the course is to introduce the students to the characteristics of adult and elderly people as well as to acquire knowledge and skills to assess, plan and provide science-based professional nursing care for geriatric patients at home, in an institution or in hospitals for active treatment.

**Course content:**

The course covers the following topics: Aging, old age and disease. Aging and personality. Emotional changes during aging. Special nursing care in cases of reduced activity, immobilisation, instability, falls, iatrogenic drug interactions. During the seminars topics related to the peculiarities of communication in geriatrics and the most common somatic diseases in elderly are discussed. The practical exercises are focused on developing skills for carrying out an individual assessment and planning of nursing care.

**Teaching and assessment:**

Lectures are delivered in a specialized auditorium for training, equipped with the corresponding projection equipment – multimedia computer presentations. Practical exercises are conducted in medical and social institutions for the elderly and specialized auditorium for practical exercises.

**Weekly classes:** 1lec+1sem+0labs+2ps**Type of exam:** written

**S02808 Nursing Care for Patients with Somatic Diseases I****ECTS credits:** 3**Assessment:** exam**Departments involved:**

Department of Health Care

Faculty of Public Health and Health Care

**Lecturers:**

Assoc. Prof. Despina Georgieva, PhD, Dept. of Health Care, phone: +359889789100,

E-mail: dpgeorgieva@uni-ruse.bg

Sen. Assist. Prof. Irinka Hristova, PhD, Dept. of Health Care, tel. +359 82 888 421,

E-mail: ihristova@uni-ruse.bg

**Abstract:**

The aim of this course is for students to acquire theoretical knowledge and practical skills related to the main symptoms of somatic illnesses, the preparation and conducting of diagnostics, the basic nursing technique for the therapeutic and diagnostic process, as well as identifying emergency states and providing adequate nurse's reaction. The expected outcome would be acquisition of knowledge and skills and formation of clinical thinking for accurate planning and implementation of nursing care.

**Course content:**

The syllabus includes topics from the following fields: Preparation and conducting of basic medical tests of patients with health problems in the respiratory, cardiovascular and endocrine systems. General and specific nursing care.

**Teaching and assessment:**

The course is taught through lectures and practical seminars, which are held in specialized rooms for health care, as well as in real conditions at the respective education and practice facilities – hospitals, diagnostic consultancy centers, medical centers, etc. Continuous assessment is carried out during both lectures and seminars. The final grade is formed after a two-part exam – theory and practice.

**S04075 Nursing Care for Patients with Surgical Diseases II****ECTS credits:** 3**Assessment:** exam**Departments involved:**

Department of Health Care

Faculty of Public Health and Health Care

**Lecturers:**

Assoc. Prof. Daniela Konstantinova, PhD, Dept. of Health Care, GSM.: +359 888520021,

E-mail: ddraganova@uni-ruse.bg

**Abstract:**

The purpose of the discipline Nursing Care for Patients with Surgical Diseases II is revealing common and special nursing care and their specifics in the area of medical needs of surgical diseases during nurse training. The discipline is included in "Practical Base of Nurse Care" module and is provided for studying during V term of curriculum, when students have achieved knowledge of common medical disciplines and have listened to lecture courses of Surgery, Internal diseases, Neurology, Pediatrics. Thus this educational subject is connected logically to learned knowledge and attained competencies.

**Course content:**

Special nursing care for patients with operations of digestive tract and abdominal wall. Special nursing care for patients with operations of liver, gall bladder and ducts, and pancreas. Special nursing care for patients with operations of cardio-vascular system. Special nursing care for patients with urologic operations. Special nursing care for patients with neurosurgical operations. Preparations for analysis and special nursing care for patients with diseases of muscular-skeletal system. Special nursing care in traumatology.

**Teaching and assessment:**

Main forms of classes are lectures and practical exercises. Used methods are discussions, observations; investigation of documents; project. Standard and situation tasks and problems are put on during classes. There is continuous assessment during each practical exercise with a concrete standard and situation tasks. 100 % attendance of lectures and practical exercises is requested. The final grade is from 1 to 6 and is formed after an exam – theoretical and practical, with preliminarily made synopsis in 2 parts.

**S04094 Social Medicine****ECTS credits:** 1**Assessment:** exam**Departments involved:**

Department of Health Care

Faculty of Public Health and Health Care

**Lecturers:**

Assoc. Prof. Nikola Sabev, MD, DSc, Dept. of Health Care, GSM: +359 887 356 342,

E-mail: nsabev@uni-ruse.bg

**Abstract:**

The main purpose of education in Social medicine is to get students acquainted with modern basics of public healthcare: development of health concept, social factors of health/illness, ways of health measurement, main purposes of public health. The discipline gives knowledge on social and medical way in health practice. General and specific tasks of medical specialists are taken up, especially of nurses, in different directions of healthcare organization.

**Course content:**

This curriculum consists of the following components: Introduction to social medicine. Ways of studying and evaluating public health. Organization and work of health service. Health promotion, concept for healthy lifestyle. Elements of healthy lifestyle. Health promotion by stimulating a healthy lifestyle.

**Teaching and assessment:**

Forms for classes: lectures and practical exercises. Lectures and practical exercises are carried out in auditorium, provided with visualizing devices. Methods of teaching and assessment: modern interactive methods – presentations, discussion, demonstration, problem solving and situational tasks. Methodic way of exercise includes actualizing of knowledge lectures. There is a test for checking and evaluating educational process. Current control mark is formed by the test and students' participation in practical exercises. A condition for countersign is: 100% lectures visit and solving of current control tests. Final control procedure is an exam. Final mark is formed by current control mark and theoretical exam.

**S04076 Nursing Care for Patients with Infectious Diseases****ECTS credits:** 3**Assessment:** exam**Departments involved:**

Department of Health Care

Faculty of Public Health and Health Care

**Lecturers:**

Assoc. Prof. Despina Georgieva, PhD, Dept. of Health Care, phone: +359889789100,

E-mail: dpgeorgieva@uni-ruse.bg

**Abstract:**

The purpose of the discipline Nursing care for patients with infectious diseases is revealing common and special nursing care for a patient with infectious disease, as well as its specifics in nursing education.

**Course content:**

Methods for assessment of an infectious patient. Special nursing care for patients with digestive infections. Special nursing care for patients with air dropped infections. Duties of nurses, working with infectious patients. Methods of examinations and special nursing care for patients with skin and venereal diseases. Rashes.

**Teaching and assessment:**

Main forms for classes are lectures and practicals. Standard and situation tasks and problems are put on during classes. Case discussions. There is continuous assessment during the practical exercises with standard and situation tasks and problems. For countersign there should be 100 % attendance of lectures and practical exercises. The final mark is from 1 to 6 and is formed after an exam – theoretical and practical, with preliminarily made synopsis.

**SB14370 Nursing Care for Children and Adults with Disabilities****ECTS credits:** 4**Assessment:** exam**Departments involved:**

Department of Health Care

Faculty of Public Health and Health Care

**Lecturers:**

Assoc. Prof. Despina Georgieva, PhD, Dept. of Health care, tel: +359889789100,

E-mail: dpgeorgieva@uni-ruse.bg

Assoc. Prof. Daniela Konstantinova, PhD, Dept. of Health Care, GSM.: +359 888520021,

E-mail: ddraganova@uni-ruse.bg

**Abstract:**

The purpose of the discipline “Nursing care for children and adults with disabilities” is to show the general and special nursing care for children and adults with disabilities, as well as their specificity in the training of the nurse. Training the nurse in caring of children and adults with disabilities.

**Course content:**

Medico-social aspects of nursing care for children and adults with disabilities. Differences in nursing care for children and for adults with disabilities. Nursing care for children with disabilities – types of disabilities and specificities of care. Nursing care for adults with disabilities – types of disabilities and specificities of care. Foster care. The role of the nurse in providing psychological support for foster parents of children with disabilities. Educating the family to take care of children and adults with disabilities. National strategy for protection and integration of children and people with disabilities. The law on integration of people with disabilities. Social adaptation and rehabilitation of patients with disabilities.

**Teaching and assessment:**

The main teaching method are lectures and practical exercises where discourses, discussions, observations, document analysis, and projects are used. Computer presentations and visual materials are also used. The assessment methods include discourses, discussions, didactic tests, solving cases and situational tasks, work in small groups. To enter in the final exam 100% attendance at the lectures and practical exercises is required, participating in the discussions and solving the given tasks. The final grade is formed after taking an exam in two parts – theory and practice.

**S04095 Principles and Methods of Teaching****ECTS credits:** 3**Assessment:** exam**Departments involved:**

Department of Health Care

Faculty of Public Health and Health Care

**Lecturers:**

Prof. Todorka Stefanova, PhD, Dept. of Health Care, phone: +359 888543249, E-mail: dora@uni-ruse.bg

**Abstract:**

The purpose of the discipline is to give basic didactic and methodic knowledge, skills and competencies in one of the activities, which Ordinance №1 from 08.02.2011 defines as training and assessment in the area of health care.

**Course content:**

Content is structured in module principles. The first module, with 5 hours workload, goes into normative documents for health care education. The second module, with 19 hours workload, goes into components of a methodic system – purposes, curriculum system, technology of teaching. The third module, with 6 hours workload, is directed at concrete methodic systems – problem based education, interactive education.

**Teaching and assessment:**

Education is carried out in the form of lectures and seminary exercises. Work methods take into consideration the specifics of students' training. Exercises are led in groups and in the center of the process is the person of a student. The role of the tutor is preparing exercises plan and helping to found a calm and creative environment, in which each student will have an opportunity for personal expression. Final control procedure is a term exam. The final mark of a student is formed by the current control marks and a term exam in two parts – theoretical and practical.

**Weekly classes:** 1lec+1sem+0labs+2ps**Type of exam:** written, practical**Weekly classes:** 2lec+0sem+0labs+1ps**Type of exam:** written

**S04068 Clinical Practice IV****ECTS credits:** 8**Assessment:** exam**Departments involved:**

Department of Health Care

Faculty of Public Health and Health Care

**Lecturers:**

Assoc. Prof. Despina Georgieva, PhD, Dept. of Health Care, phone: +359889789100, E-mail: dpgeorgieva@uni-ruse.bg

Assoc. Prof. Daniela Konstantinova, PhD, Dept. of Health Care, GSM.: +359 888520021, E-mail: ddraganova@uni-ruse.bg

Assoc. Prof. Prof. Greta Koleva, PhD, Dept. of Health Care, tel. +359 82 888 421, E-mail: gkoleva@uni-ruse.bg

Sen. Assist. Prof. Irinka Hristova, PhD, Dept. of Health Care, tel. +359 82 888 421, E-mail: ihristova@uni-ruse.bg

Assist. Prof. Teodora Todorova, Dept. of Health Care, tel. +359 82 888 421, E-mail: tetodorova@uni-ruse.bg

**Abstract:**

The aim of the course is deepening and improving the acquired theoretical knowledge, forming practical skills and professional competencies in a real clinical environment. The objectives of the discipline are to outline the scientific status of nursing care and reveal their essence for hospitalized patients, to acquire the necessary knowledge to prepare and carry out research of different organs and systems as well as active nursing observation and treatment. Acquiring knowledge and developing practical skills for long-term care for children and adults with disabilities.

**Course content:**

Clinical practice IV is carried out in a surgical ward, a children's ward and an internal ward of the University Hospital in Rousse, as well as in medical and social Homes for disabled children and adults and nursery homes. Topics are selected in the relative fields.

**Teaching and assessment:**

The methodology for conducting clinical practice is related to the organization and conduct of independent work of students in a real environment. It includes organizing the group for independent work or small group work, placing individual specific tasks. Clinical practice is organized, conducted and directed by a lecturer. It follows the lectures, preclinical and clinical practical exercises in a real environment. There is continuous assessment during each practical exercise through tests, case studies and situational tasks. The final control procedure is a two-part exam – theoretical and practical.

**S04003 Dermatology and Venerology****ECTS credits:** 1**Assessment:** exam**Departments involved:**

Department of Health Care

Faculty of Public Health and Health Care

**Lecturers:**

Assoc. Prof. Daniela Grozeva, MD, PhD, Dept. of Health Care, tel. +359888594144,

E-mail: dgrozeva@uni-ruse.bg

**Abstract:**

Each student, passed through the discipline Dermatology and Venerology should be able to assist in diagnosing and treatment in diseases of skin and skin appendages, to assist in microbiologic and mycological macroscopic diagnosing by skin and mucous membrane smear; in macroscopic diagnosing of biopsy from skin, mucous membrane and skin appendages, as well as having basic skills in skin diseases operations.

**Course content:**

Theoretical knowledge and practical skills for structure and function of normal skin, skin appendages and visible mucous membranes, pathologic processes in different skin layers, their diagnostics, differential diagnose and treatment. Future health stuff should be able to assist in putting diagnose and treatment of chronic dermatoses, bullous dermatoses and skin tumors.

**Teaching and assessment:**

Lectures are conducted in a specialized auditorium for training, equipped with a corresponding projection equipment – multimedia computer presentations. Practical exercises are conducted in a specialized classroom in the educational practical complex of the professional domain of Health care. A simulated patient and simulated hospital environment and initial topics that allow simulation activities are used.

**Weekly classes:** 0,5lec+0sem+0labs+0,5ps**Type of exam:** written

**S04062 Obstetrics and Gynecology****ECTS credits:** 2**Assessment:** exam**Departments involved:**

Department of Health Care

Faculty of Public Health and Health Care

**Lecturers:**

Prof. Atanas Shterev, PhD, Dept. of Public Health, tel.+359 82 888 421

Prof. Tanya Timeva, PhD, Dept. of Public Health, tel.+359 2 9200901

**Abstract:**

The main objective of the course is learning the terminology, the ability to work in a multidisciplinary team, and specific care for pregnant women, mothers and gynecological patients with infectious and venereal diseases until the patient was taken to the midwife or obstetrician.

**Course content:**

The program includes lectures and seminars with topics aimed at: female anatomy, course of pregnancy, the physiology of the birth process, the processes observed in puerperium more important deviations in pregnancy, such as hypertensive complications, prematurity and pregnancy after term. Both gynecology modules include themes of prevention, diagnosis and treatment of infertility, behavior in benign and malignant tumors, methods of contraception and others. Extremely useful for the preparation of future nurses included in the program is emergencies in gynecology, which would lead to adequate behavior to taking the patient by a specialized team.

**Teaching and assessment:**

Lectures are conducted in front of a specialized audience for training in obstetrics and gynecology, equipped with a corresponding projection equipment – multimedia computer presentations. Practical exercises are conducted in a specialized classroom of obstetrics and gynecology, which uses models, simulated patient and simulated hospital environment, as well as in a real hospital environment. The final assessment is formed after the semester examination. The written exam consists of two parts – theoretical and practical. The theoretical part covers issues from the lectures and the practical one – questions and tasks of practical exercises.

**S02723 Microbiology, Parasitology and Virology****ECTS credits:** 2**Assessment:** exam

Department of Health Care

Faculty of Public Health and Health Care

**Lecturers:**

Assoc. Prof. Iliana Kostova, PhD, phone +359882836776, E-mail: ikostova@uni-ruse.bg

**Abstract:**

The main objective of the course in microbiology, parasitology and virology is to clarify the nature of microbiology and virology as etiological science that supports the diagnosis of infectious diseases and epidemiological situations through various laboratory tests. Acquisition of knowledge and skills in making, storing and sending of materials for microbiological examination and professional competencies for independent work with patients.

**Course content:**

The curriculum includes the following modules. General Microbiology - studying the morphology, structure and generally accepted regularities inherent pathogens. In module Infection and Immunity studied the relationship between macro-organism and pathogens, as well as protective mechanisms macro used to combat pathogens. The special module microbiology and virology study various types of pathogens - morphology, resistance to various physical, chemical factors, chemotherapeutics, antibiotics way of occurrence of communicable diseases, pathogenesis, diagnostics, specific therapy and prevention.

**Teaching and assessment:**

The main forms of training are lectures and practical exercises. The lectures are held in room equipped with computer and multimedia and computer presentations are used to illustrate the lecture topics. Practical exercises complement and illustrate the theoretical material. Practical exercises are conducted in a microbiological laboratory. There is continuous assessment which is conducted in the form of written tests, educational and practical case studies. The final mark is formed on the basis of a successful written exam.

**Weekly classes:** 1,5lec+0sem+0labs+0,5ps**Type of exam:** written**Weekly classes:** 1,5lec+0sem+0labs+0,5ps**Type of exam:** written

**S02812 Medical Nutrition****ECTS credits:** 1**Assessment:** exam**Departments involved:**

Department of Health Care

Faculty of Public Health and Health Care

**Lecturers:**

Assoc. Prof. Ognyan Sherbanov, Ph.D. E-mail: osherbanov@uni-ruse.bg

**Abstract:**

The purpose of the course is to prepare nurses to be able to build a correct, scientifically based nutrition regimen. To contribute implementing dietary nutrition in hospitals and therapeutic facilities, sanatoriums, rehabilitation centers, etc. To form professional competence and to determine the nutrition regimen according to the underlying condition of the patient, the stage of his activity, his energy needs and body weight.

**Course content:**

The course includes the following topics: importance of nutrition as a therapeutic and preventive factor, basic and additional nutrients, diseases caused by malnutrition, overfeeding and incorrect diet, diets to achieve a healthy body weight, basic and special dietary regimens.

**Teaching and assessment:**

The main ways to conduct study sessions are lectures and practical exercises. Classes in the form of lectures and practical exercises are conducted in specialized cabinets and in real conditions. There is continuous assessment and also sitting for an exam in two parts – theoretical and practical.

**SB14371 Anesthesiology, Resuscitation and Intensive Care****ECTS credits:** 4**Assessment:** exam**Departments involved:**

Department of Health Care

Faculty of Public Health and Health Care

**Lecturers:**

Prof. Hristo Bozov, MD, PhD, Dept. of Health Care, tel. +359 82 888421, E-mail: hr\_bozov@ yahoo.com

Assoc. Prof. Teodora Nedeva, MD, PhD, Dept. of Health Care, GSM: +359 887 468 695,

E-mail: tsherbanova@uni-ruse.bg

**Abstract:**

The main objective of the Anesthesiology and Intensive care curriculum is to define and clarify the current scientific concepts concerning anesthesia, analgesia, resuscitation and intensive care. The training tasks are to develop nurses' theoretical knowledge and practical skills to provide first aid to patients with life threatening disorders, to assist to the anesthesiologist to perform various techniques, to monitor patients vital indexes and to work in teams.

**Course content:**

The curriculum consists of two main parts: Anesthesiology – definition, aims, subject. Preparing a patient for an anesthesia. Informed consent. Documentation. Anesthesia systems. Types of anesthesia- general and regional. Intraoperative monitoring. Equipment and medication for anesthesia and analgesia. Specifics and complications of the different types of anesthesia. Intensive care and resuscitation – definition, ICU organization. Basic methods, strategies and techniques for intensive monitoring and treatment of different critical and life threatening situations. Nurses behavior in case of a clinical death. Detection and role of the nurses in comas and brain death. Basic knowledge on the process of donation and transplantation. Basic principles of correction of water- electrolyte and blood gases disturbances. Infusion therapy, parenteral and enteral nutrition. Nosocomial infections in ICU. Documentation.

**Teaching and assessment:**

Teaching includes lectures and practical exercises. The lectures are held in an auditorium, where modern methods of presentations, case studies and discussions are used. This stimulates students' active participation and attention during teaching. The workshops are carried out in the departments of Anesthesiology, intensive treatment of surgical and therapeutic diseases at the University Hospital in Ruse. Practical training includes small groups works, discussions of clinical cases, individual assignments. The knowledge acquired is tested and evaluated through discussions, questions and tests. The final grade is given after a successful completion of a written test.

**Weekly classes:** 0,5lec+0sem+0labs+0,5ps**Type of exam:** written**Weekly classes:** 2lec+1sem+0labs+1ps**Type of exam:** written



**S04083 Health Promotion****ECTS credits:** 1**Assessment:** exam**Departments involved:**

Department of Health Care

Faculty of Public Health and Health Care

**Lecturers:**

Assoc. Prof. Nikola Sabev, MD, DSc, Dept. of Health Care, GSM: +359 887 356 342,

E-mail: nsabev@uni-ruse.bg

**Abstract:**

The aim of the course is to acquaint students with the strategy which most closely connects people's health with their living environment and reveals great potential for improving the health of individuals and society. The discipline is reasonably included in the curriculum of Nursing in the professional field of Health care as nursing as a profession has a great potential for working in health promotion.

**Course content:**

The course content includes the following areas: Public Health context of the development of the concept of health promotion. Basic principles of the Ottawa Charter. Promotion of health and health-enhancing social policy. Health promotion and creation of health-enhancing living environment. Increasing public participation in health activities. Development of personal skills, knowledge and possibilities for health promotion. Health motivation. Healthy lifestyle. Health education, nature, objectives, principles.

**Teaching and assessment:**

Teaching is executed through lectures. During lectures various visualizing tools are used. The lectures are complemented by practical exercises for which students are preparing on pre-established theses. Through seminars students are introduced to global and local actions – campaigns and projects. The training ends with a written test which result constitutes 50% of the final grade. The rest 50% is formed by ongoing assessment.

**S04072 Infectious Diseases and Epidemiology****ECTS credits:** 2**Assessment:** exam**Departments involved:**

Department of Health Care

Faculty of Public Health and Health Care

**Lecturers:**

Assoc. Prof. Angel Kunchev, Ph.D. E-mail: akunchev@uni-ruse.bg

**Abstract:**

The course includes lectures introduction to epidemiology and infectious diseases. Training in infectious diseases and epidemiology of communicable diseases nursing aims to give the main features of the theoretical epidemiology and application of epidemiological method - epidemiological teaching other medical sciences.

**Course content:**

The curriculum includes theoretical and practical modules covering the following areas – epidemiology and infectious diseases with general and special (independent) part. The general part studies the relationship between macroorganism and pathogens, as well as the protective mechanism the macroorganism uses to combat the pathogens by addressing integrated infectious and epidemic process. The practical exercises complement, illustrate and build the theoretical material.

**Teaching and assessment:**

Study sessions are conducted in the form of lectures and practical exercises. The lectures are held in auditoriums with application of modern methods – presentations, discussions, case studies. The final grade is formed after a written exam.

**Weekly classes:** 0,5lec+0sem+0labs+0,5ps**Type of exam:** written**Weekly classes:** 1,5lec+0sem+0labs+0,5ps**Type of exam:** written

**S04073 Ophthalmology****ECTS credits:** 1**Assessment:** exam**Departments involved:**

Department of Health Care

Faculty of Public Health and Health Care

**Lecturers:**

Assoc. Prof. Krasimir Koev, MD, PhD, Dept. of Public Health, GSM: +359 896 291 020

Dr Magdalena Mladenova, Dept. of Public Health, tel. +359 82 888 421

**Abstract:**

Purpose and objectives of the course are that nurses acquire a system of knowledge and skills about ophthalmology as a prerequisite for application of special nursing care when working in eye surgery, eye care unit and outpatient care. Topics of practical exercises build and illustrate lectures and contribute to building practical skills and competencies. Expected outcomes - to acquire theoretical knowledge and practical skills for nursing care for newborns in ophthalmic diseases; for the role, place and participation in the preparation and carrying out of laboratory and other tests; to develop skills for proper treatment of chemical and thermal burns, removal of foreign bodies in the eye and application of all bandages to the eye.

**Course content:**

Anatomy and physiology of the visual system. Diseases of the lacrimal apparatus, eyelids, conjunctiva, cornea and uvea, concepts and nature of glaucoma and cataract. Traumatic diseases etc.

**Teaching and assessment:**

Forms of training are lectures and practicals. Classes – lectures and exercises are conducted in specialized rooms and in real situations. There is continuous assessment during the lectures and exercises. The final grade is formed after the exam.

**S04096 Nursing Care in Reanimation and Intensive Therapy****ECTS credits:** 3**Assessment:** exam**Departments involved:**

Department of Health Care

Faculty of Public Health and Health Care

**Lecturers:**

Assoc. Prof. Greta Koleva, PhD, Dept. of Health Care, tel. +359 82 888 421,

E-mail: gkoleva@uni-ruse.bg

**Abstract:**

The purpose of the discipline Nursing care in reanimation and intensive therapy is revealing common and special nursing care in emergency conditions, threatening patient's life, as well as their specifics in nursing education. The discipline is included in the module of Practical Basics of Nursing Care and is provided during the 5<sup>th</sup> semester, when students have gained knowledge of general medical disciplines and have listened to lecture courses in Anesthesiology and Intensive care, Surgical diseases, Internal diseases, Neurology, Pediatrics. Thus this course is connected logically to learned knowledge and attained competencies.

**Course content:**

Nurse's behavior to a patient in shock. Nurse's behavior in emergency conditions in outpatient practice. Intensive nursing care to patients with cardiovascular diseases. Intensive nursing care to patients with endocrine diseases. Intensive nursing care to patients with urinal tract diseases. Intensive nursing care to patients with diseases of digestive system.

**Teaching and assessment:**

Main forms for classes are lectures and practicals. Standard and situation tasks and problems are put on during classes. Case discussion. The choice of common task for practical exercise is connected to the didactic purpose of the exercise and the choice of individual tasks is connected to the specificity of different clinical cases and the principle for individual and differentiated way to any student. There is continuous assessment during each practical exercise with a method typical for a practical exercise. Control is conducted during school clinical practice throughout the term.

**S04075 Nursing Care for Patients with Surgical Diseases II****ECTS credits:** 3**Assessment:** exam**Departments involved:**

Department of Health Care

Faculty of Public Health and Health Care

**Lecturers:**

Assoc. Prof. Daniela Konstantinova, PhD, Dept. of Health Care, GSM.: +359 888520021,

E-mail: ddraganova@uni-ruse.bg

**Abstract:**

The purpose of the discipline Nursing Care for Patients with Surgical Diseases II is revealing common and special nursing care and their specifics in the area of medical needs of surgical diseases during nurse training. The discipline is included in "Practical Base of Nurse Care" module and is provided for studying during V term of curriculum, when students have achieved knowledge of common medical disciplines and have listened to lecture courses of Surgery, Internal diseases, Neurology, Pediatrics. Thus this educational subject is connected logically to learned knowledge and attained competencies.

**Course content:**

Special nursing care for patients with operations of digestive tract and abdominal wall. Special nursing care for patients with operations of liver, gall bladder and ducts, and pancreas. Special nursing care for patients with operations of cardio-vascular system. Special nursing care for patients with urologic operations. Special nursing care for patients with neurosurgical operations. Preparations for analysis and special nursing care for patients with diseases of muscular-skeletal system. Special nursing care in traumatology.

**Teaching and assessment:**

Main forms of classes are lectures and practical exercises. Used methods are discussions, observations; investigation of documents; project. Standard and situation tasks and problems are put on during classes. There is continuous assessment during each practical exercise with a concrete standard and situation tasks. 100 % attendance of lectures and practical exercises is requested. The final grade is from 1 to 6 and is formed after an exam – theoretical and practical, with preliminarily made synopsis in 2 parts.

**S04077 Medical Ethics and Deontology****ECTS credits:** 2**Assessment:** exam**Departments involved:**

Department of Health Care

Faculty of Public Health and Health Care

**Lecturers:**

Prof. Silvia Alexandrova-Yankulovska, MD, DCs, MU – Pleven, tel. +359 64 884 196,

E-mail: silviya\_aleksandrova@mu-pleven.bg

**Abstract:**

The course aims to acquaint future nurses with basic concepts and problems of medical ethics and deontology, to help students develop ethical sensitivity and moral reasoning in the course of their future work and to prepare them for making decisions in accordance with legal norms.

**Course content:**

Educational content is separated into the following sections: General theory of ethics – nature, methods, theories, principles, confidentiality, patterns of relationships, patients' rights and informed consent; Deontological matters of medical practice – regularity of medical acts, forced treatment, obligation to provide medical care, illegally practicing medical activity, documentaries crimes in medical practice, negligent medical professional offenses adversely leaked cases in medical practice and others.

**Teaching and assessment:**

Study sessions are conducted in the form of lectures and seminars. The following methods are used: presentations, discussions, debate, case studies. The methodological structure includes presentation of the main theoretical topics, open discussion and feedback from the students. There is continuous assessment which is conducted in the form of tests. To complete the semester a 100% attendance of lectures, seminars and tests is required. The final evaluation is based on an exam on a pre-established questionnaire.

**Weekly classes:** 1lec+0sem+0labs+2ps**Type of exam:** written, practical**Weekly classes:** 1,5lec+0sem+0labs+0,5ps**Type of exam:** written

**S04078 Clinical Practice V****ECTS credits:** 8**Assessment:** exam**Departments involved:**

Department of Health Care

Faculty of Public Health and Health Care

**Lecturers:**

Assoc. Prof. Despina Georgieva, PhD, Dept. of Health Care, phone: +359889789100, E-mail: dpgeorgieva@uni-ruse.bg

Assoc. Prof. Daniela Konstantinova, PhD, Dept. of Health Care, GSM.: +359 888520021, E-mail: ddraganova@uni-ruse.bg

Assoc. Prof. Greta Koleva, PhD, Dept. of Health Care, tel. +359 82 888 421, E-mail: gkoleva@uni-ruse.bg

Sen. Assist. Prof. Irinka Hristova, PhD, Dept. of Health Care, tel. +359 82 888 421, E-mail: ihristova@uni-ruse.bg

Assist. Prof. Teodora Todorova, Dept. of Health Care, tel. +359 82 888 421, E-mail: tetodorova@uni-ruse.bg

The aim of the Clinical Practice V is consolidation and application of knowledge, skills and competencies in real clinical conditions. Students work with patients with surgical, neurological, infectious, psychiatric and surgical diseases targeted for intensive treatment. The course aims to reveal the nature of general and special nursing care in the relevant structures and their specifics depending on the disease. The expected results are: formation of knowledge, skills and competences to lay the correct quality and scientifically based care; to acquire professional skills and competences, sense of responsibility, discipline and teamwork; to build the necessary moral and ethical qualities to work in a relevant clinical and outpatient structures. Strengthening the competences of the professional activities that the nurse can perform independently and to medical appointments.

**Course content:**

The topics for clinical practice are consistent with the medical specialities in the program – surgical ward, Intensive Care Unit for surgical diseases, neonatology, infectious ward and mental health center.

**Teaching and assessment:**

Clinical practice is organized, conducted and directed by the teacher. It follows lectures, preclinical and clinical practical exercises held in a real clinical setting with the duration of 6 academic hours, twice a week. The methodology of conducting clinical practice is associated with the organization and the individual work of students. Pedagogical supervision is used to execute ongoing assessment of students' practical skills in carrying out activities and manipulations during clinical practice. The final grade is based on an examination conducted in two parts – theoretical and practical.

**S04080 Physical Therapy and Rehabilitation****ECTS credits:** 1**Assessment:** exam**Departments involved:**

Department of Health Care

Faculty of Public Health and Health Care

**Lecturers:**

Assoc. Prof. Kiril Panayotov, MD, PhD, Dept. of Health Care, GSM: +359 888 309621, E-mail: zkm@abv.bg

**Abstract:**

The main goal of training in Physical Therapy and Rehabilitation of students in health care – nurses is to gain basic knowledge of the biological, physiological and therapeutic effects of natural and preformed physical factors and their application for the needs of physiopreventive therapy, physiotherapy and medical rehabilitation in common and socially significant diseases.

**Course content:**

The content of the course includes the following modules: Physiotherapy. Types of physical factors, basic principles of action, mechanisms of action of preformed physical factors on the human body. The rehabilitation nature, sections principles contingents of rehabilitation, rehabilitation potential, developing a rehabilitation programme. Basics of electrotherapy. Types of electrical currents used in physiotherapy – direct and alternate, low, medium and high frequency. Eligible sensations of the electrodes to the patient.

**Teaching and assessment:**

The main forms of conducting classes are lectures and practical exercises. Lectures are held in the auditorium equipped with visualization tools. Practical exercises are conducted immediately following the lecture topic and are held in accredited clinical training facilities at the University of Ruse. The final grade is based on a written exam.

**Weekly classes:** 0lec+0sem+0labs+12ps**Type of exam:** written, practical**Weekly classes:** 0,5lec+0sem+0labs+0,5ps**Type of exam:** written

**S04081 Otorhinolaryngology****ECTS credits:** 1**Assessment:** exam**Departments involved:**

Department of Health Care

Faculty of Public Health and Health Care

**Lecturers:**

Prof. Dilyana Vicheva, MD, PhD, Dept. of Health Care, GSM: +359 888 223 675,

E-mail: dilyana@bulgarianrhinologicsociety.org

**Abstract:**

Purpose and objectives of the course are to provide nurses with a system of knowledge and skills about the ear-nasal-throat diseases, as a prerequisite for utilization of special nursing care. Topics of practical exercises build and illustrate lectures and contribute to building practical skills and competencies.

**Course content:**

The course includes the following topics: Anatomy and Physiology of the hearing analyzer. Traumatic injuries to outer ear and eardrum. Professional hearing damage from noise, vibration. Emergency in otorhinolaryngology. Inflammatory and non-inflammatory diseases in otorhinolaryngology. Cancer of the larynx and pharynx.

**Teaching and assessment:**

Forms of conducting classes are lectures and practical exercises. Lectures and practicals are conducted in specialized rooms, and in real situation. Continuous control is conducted during lectures and exercises. The final grade is formed after the exam.

**Weekly classes:** 0,5lec+0sem+0labs+0,5ps**Type of exam:** written**S04094 Social Medicine****ECTS credits:** 1**Assessment:** exam**Departments involved:**

Department of Health Care

Faculty of Public Health and Health Care

**Lecturers:**

Assoc. Prof. Nikola Sabev, MD, DSc, Dept. of Health Care, GSM: +359 887 356 342,

E-mail: nsabev@uni-ruse.bg

**Abstract:**

The main purpose of education in Social medicine is to get students acquainted with modern basics of public healthcare: development of health concept, social factors of health/illness, ways of health measurement, main purposes of public health. The discipline gives knowledge on social and medical way in health practice. General and specific tasks of medical specialists are taken up, especially of nurses, in different directions of healthcare organization.

**Course content:**

This curriculum consists of the following components: Introduction to social medicine. Ways of studying and evaluating public health. Organization and work of health service. Health promotion, concept for healthy lifestyle. Elements of healthy lifestyle. Health promotion by stimulating a healthy lifestyle.

**Teaching and assessment:**

Forms for classes: lectures and practical exercises. Lectures and practical exercises are carried out in auditorium, provided with visualizing devises. Methods of teaching and assessment: modern interactive methods – presentations, discussion, demonstration, problem solving and situational tasks. Methodic way of exercise includes actualizing of knowledge lectures. There is a test for checking and evaluating educational process. Current control mark is formed by the test and students' participation in practical exercises. A condition for countersign is: 100% lectures visit and solving of current control tests. Final control procedure is an exam. Final mark is formed by current control mark and theoretical exam.

**Weekly classes:** 1,5lec+0sem+0labs+0,5ps**Type of exam:** written

**S04084 Medical Provision in Disasters****ECTS credits:** 2**Assessment:** exam**Departments involved:**

Department of Health Care

Faculty of Public Health and Health Care

**Lecturers:**

Assoc. Prof. Margaritka Filipova, PhD, Dept. of Thermotechnics, Hydraulics and Ecology,

GSM: +359 887308311, E-mail: [mfilipova@uni-ruse.bg](mailto:mfilipova@uni-ruse.bg)**Abstract:**

The course in medical provision in disasters studies issues related to the specific problems of mass medicine in cases of natural and technogenic disasters, accidents and catastrophes in clinical, therapeutic and organizational aspects. The aim of the study is to create knowledge and skills for the students' professional behavior towards their responsibilities in cases of disasters. The education prepares health specialists to execute tasks related to measures of medical provision to victims of disasters. The role of the medical specialists during disaster response is of a great importance.

**Course content:**

The aim of the training is to build knowledge and skills for professional attitude of students towards their obligations in case of occurrence of any of the above events. The training prepares health professionals to perform tasks related events for the medical assistance to the injured people as a result of the biological effects of radiation and major chemical accidents, acts of terrorism and wartime environment.

**Teaching and assessment:**

Lectures are conducted in a traditional way with visualization through multimedia audio-visual equipment. Educational films, incentive programs and specialized equipment nomenclature for civil-shield are used. During the exercises various material and technical equipment, multimedia audio-visual system models, case studies, visual aids – personal protective equipment, tables, maps, radiation sensors, gas analyzers, tests and more are used.

**S04085 Nursing Care in Otorhinolaryngology****ECTS credits:** 2**Assessment:** exam**Departments involved:**

Department of Health Care

Faculty of Public Health and Health Care

**Lecturers:**

Assoc. Prof. Daniela Drsganova, PhD, Dept. of Health Care, GSM.: +359 885193 003,

E-mail: [ddraganova@uni-ruse.bg](mailto:ddraganova@uni-ruse.bg)**Abstract:**

The aim of the course is to teach general and special nursing care for patients with eye, ear, nose and throat diseases, as well as the specificity in the training of the nurse.

**Course content:**

Basic methods of research in ophthalmology. Special nursing care in patients with inflammatory diseases of the eye and eye injuries. Behavior in an emergency. Preoperative measures and postoperative care of patients with eye surgery. Basic research methods in otorhinolaryngology. Special nursing care for patients with diseases of the pharynx, larynx and the trachea. Preoperative measures and postoperative care of patients in otorhinolaryngology.

**Teaching and assessment:**

The basic form for conducting classes are lectures and practical exercises. Means of training are multimedia, interactive boards, panels, moulages, models, simulated patient, simulated and real hospital environment. There is continuous assessment that is conducted in the form of discourse, didactic tests, case studies and solving problems. Continuous assessment is carried out on every educational and practical training. The final grade is formed after an exam – with a theoretical and practical part.

**Weekly classes:** 1,5lec+0sem+0labs+0,5ps**Type of exam:** written**Weekly classes:** 1lec+0sem+0labs+1ps**Type of exam:** written, practical

**S04086 Nursing Care for Patients with Oncology Conditions****ECTS credits:** 2**Assessment:** exam**Departments involved:**

Department of Health Care

Faculty of Public Health and Health Care

**Lecturers:**

Assoc. Prof. Irinka Hristova, PhD, Dept. of Health Care

E-mail: [ihristova@uni-ruse.bg](mailto:ihristova@uni-ruse.bg)**Abstract:**

The purpose of the course in Nursing care for patients with oncology conditions is achieving a system of professional knowledge, skills and competencies, connected to nursing care and their specifics in oncology patients. The tasks are: building practical skills for nursing care for oncology patients in different periods of their treatment; pointing basic priorities in individual way of cares according to concrete oncology illness; Putting an accent on elements of communication with a patient and his/her relatives according to specifics and difficult psychological reactions during perceiving an illness by the patient and his/her relatives; establishing manipulative skills and habits, connected with personal hygiene and prophylactic action from everyday life, because of increasing and saving autonomy and repair damaged basic physiological needs.

**Course content:**

Characteristics and specifics of nursing care to oncology patients. Ambulatory study. Nurse's role in carrying out chemotherapy and radiotherapy. Nurse's role in hormonal and immune therapy. Prophylaxis of oncology illnesses. Pain reducing and palliative nurse cares. Character and specifics of nursing care to oncology patient. Ambulatory study. Nurse's role in helping oncology patients for a better socialization and integration in community.

**Teaching and assessment:**

Main forms for classes are lectures and practical exercises. In the method of training standard and situational tasks are put on and solved, case discussion. Educational means are: multimedia, interactive table, boards, machetes, phantoms, simulated patient and real hospital environment, computers. Continuous control is based on discussions, case and situational tasks, independent work in small groups. The final grade is formed after an exam – theoretical and practical.

**S04087 Palliative Nursing Care****ECTS credits:** 2**Assessment:** exam**Departments involved:**

Department of Health Care

Faculty of Public Health and Health Care

**Lecturers:**Assoc. Prof. Greta Koleva, PhD, Dept. of Health Care, tel. +359 82 888 421, E-mail: [gkoleva@uni-ruse.bg](mailto:gkoleva@uni-ruse.bg)**Abstract:**

The purpose of the course is revealing common and special nursing care to terminal patient, as well as its specifics for nurse training. The achieved theoretical and practical knowledge, skills and competencies as a result of the training allows the nurse to perform general and special nursing cares regulated in Ordinance №1/08.02.2011 for professional activities, which nurses can do after doctor's appointment or independently.

**Course content:**

Philosophy of life and death. Definition, basic principles and tasks of palliative cares. Palliative nursing care – similarities and differences from traditional nursing care. Place of palliative care in health care system. Organization and way of work of nurses, caring for incurable patients in the last phase of illness. Special nursing care for terminal patients. Ethic and psychosocial problems of palliative cares. Psychological problems of nurses, working with terminal patients.

**Teaching and assessment:**

Main forms for classes are lectures and practical exercises. Standard and situation tasks and problems are put on during classes, case discussion. Educational means are multimedia, interactive table, boards, simulated patient and real hospital environment, computers. There is continuous assessment during each practical exercise. The final grade is formed after an exam – theoretical and practical, with preliminarily made synopsis.

**Weekly classes:** 1,5lec+0sem+0labs+0,5ps**Type of exam:** written, practical**Weekly classes:** 1lec+0sem+0labs+1ps**Type of exam:** written, practical

**S04079 Nursing Care for Mentally Ill Patients****ECTS credits:** 2**Assessment:** exam**Departments involved:**

Department of Health Care

Faculty of Public Health and Health Care

**Lecturers:**

Assoc. Prof. Daniela Konstantinova, PhD, Dept. of Health Care, GSM.: +359 888520021,

E-mail: ddraganova@uni-ruse.bg

**Weekly classes:** 1lec+0sem+0labs+1ps**Type of exam:** written, practical**Abstract:**

The aim of the discipline is revealing general and special nursing care and its specificity for mentally ill patients. The achieved theoretical and practical knowledge, skills and competencies as a result of the training allows the nurse to perform general and special nursing cares regulated in Ordinance №1/08.02.2011 for professional activities, which nurses can do after doctor's appointment or independently.

**Course content:**

Type of psychiatric examination. Nurse's behavior. Special nursing care for patients with organic and symptomatic mental illness. Special nursing care for patients with schizophrenia. Special nursing care for patients with affective disorders. Special nursing care for patients with neurotic disorders, connected with stress and somatoform disorders. Special nursing care for patients with drug abuse and alcohol disorders. Nurse's behavior in emergency conditions in psychiatry. Special nursing care for suicidal patients. Special nursing care in childhood psychic disorders. Special nursing care for elderly patients with psychic disorders.

**Teaching and assessment:**

Main forms for classes are lectures and practical exercises. Educational means are: talk, discussion, observation, document study, project, practical problem solving. Continuous control is done at each practical exercise through discussions, didactic tests, situational problem solving, independent work in small groups. 100 % attendance at lectures and practical exercises is required. The final grade is formed after an exam – theoretical and practical.

**S04093 Nursing Care for Women in Labour and Newborns****ECTS credits:** 2**Assessment:** exam**Departments involved:**

Department of Health Care

Faculty of Public Health and Health Care

**Lecturers:**

Prof. Ivanichka Serbezova, PhD, Dept. of Health Care, GSM: +359 888731063, E-mail: iserbezova@uni-ruse.bg

**Weekly classes:** 1lec+0sem+0labs+1ps**Type of exam:** written, practical**Abstract:**

The purpose of the course is to reveal general and special nursing care for a woman in labour and newborns, as well as their specifics in nursing education.

**Course content:**

First cares for newborn in maternity ward. Apgar score. First cares for a newborn in Premature Born Department. Nutrition of a newborn in adaptive period. Breastfeeding of a newborn. High risk and premature newborns, overweight newborns, post-mature newborns, newborns from multifetation. Delivery trauma. Cares for newborn with expressed physiologic conditions. Adaptation syndrome. Special nursing care for newborns with physiologic icterus. Special nurse care for newborns with hemolytic disease. Maternity and childhood protection. Prophylaxis of genetic diseases. Nurse's duties in child consultation.

**Teaching and assessment:**

Main forms for classes are lectures and practicals. The choice of common task for practical exercise is connected with the didactic purpose of the exercise and the choice of individual tasks are connected with specificity of different clinical cases and the principle for individual and differentiated way to any student. Means of education are multimedia, interactive table, tables, miniature models, phantoms, simulated patients, simulated and real hospital environment, computers. 100 % attendance at lectures and practical exercises is requested. The final grade is formed after an exam – theoretical and practical.



**S04088 Clinical Practice VI****ECTS credits:** 10**Assessment:** exam**Departments involved:**

Department of Health Care

Faculty of Public Health and Health Care

**Lecturers:**

Assoc. Prof. Despina Georgieva, PhD, Dept. of Health Care, phone: +359889789100, E-mail: dpgeorgieva@uni-ruse.bg

Assoc. Prof. Daniela Konstantinova, PhD, Dept. of Health Care, GSM.: +359 888520021, E-mail: ddraganova@uni-ruse.bg

Assoc. Prof. Prof. Greta Koleva, PhD, Dept. of Health Care, tel. +359 82 888 421, E-mail: gkoleva@uni-ruse.bg

Sen. Assist. Prof. Irinka Hristova, PhD, Dept. of Health Care, tel. +359 82 888 421, E-mail: ihristova@uni-ruse.bg

Assist. Prof. Teodora Todorova, Dept. of Health Care, tel. +359 82 888 421, E-mail: tetodorova@uni-ruse.bg

**Abstract:**

The course aims to reveal the need for nursing care for people – healthy or sick and their specificity in various areas of medical services in the practical training of the nurse. To determine the need for general and special nurse cares for patients in medical institutions; to show the necessity of nursing care for hospitalized patients and outpatient care; to acquire knowledge, skills and competencies to prepare the patient tests of various organs and systems; for actively monitoring the patient and participation of nurses in the complex treatment, to care for the patient and in particular love for the profession of nurse.

**Course content:**

Clinical practice follows lectures, preclinical and clinical exercises. It takes place in a real environment in the therapeutic, ophthalmology, otorhinolaryngology department and emergency department of the University Hospital – Ruse, Complex Oncology Centre and Diagnostic Consultative Centre I.

**Teaching and assessment:**

Clinical practice is organized, conducted and supervised by a teacher. The methodology is related to the organization of independent work of the students in a real environment. There is continuous assessment during the practice. The final grade is formed by a theoretical and practical examination.

**SB13600 Nursing Care in Anesthesiology****ECTS credits:** 3**Assessment:** exam**Departments involved:**

Department of Health Care

Faculty of Public Health and Health Care

**Lecturers:**

Assoc. Prof. Greta Koleva, PhD, Dept. of Health Care, tel. +359 82 888 421, E-mail: gkoleva@uni-ruse.bg

**Abstract:**

Training aims to provide specific profiling knowledge and competencies in narrower professional field of realization such as the work of nurses in the anesthesia department. The tasks of the course are related to the differentiation of duties, responsibilities and activities of the anesthetic nurse; introduction to basic equipment, tools and technical resources; distinction between the types of anesthesia and preparation for its administration; building skills for active monitoring of vital signs during anesthesia; introduction to major groups of medications and their preparation for dosing.

**Course content:**

The role of the nurse in pre-anaesthesiologic consultation. Premedication. Inhalation anesthesia. Monitoring. Opioid analgesics and muscle relaxants. Locoregional anesthesia. RIVA. Types of anesthetics. Intravenous anesthesia. Intravenous anesthetics.

**Teaching and assessment:**

Study sessions are conducted in the form of lectures with application of modern methods: presentation, lecture, discussion, demonstration. Ongoing assessment is conducted in the form of lecture, didactic test, case studies and problem solving. The final exam is written, based on pre-established synopsis. The final grade is based on the exam and ongoing assessment during the semester.

**SB14372 Nursing Activities and Care in Invasive Cardiology****ECTS credits:** 3**Assessment:** exam**Departments involved:**

Department of Health Care

Faculty of Public Health and Health Care

**Lecturers:**Sen. Assist. Prof. Irinka Hristova, PhD, Dept. of Health Care, E-mail: [ihristova@uni-ruse.bg](mailto:ihristova@uni-ruse.bg)**Abstract:**

The aim of the course is to reveal the specifics of nursing care in performing diagnostic and therapeutic procedures in the catheterization laboratory for invasive cardiovascular diagnostics.

**Course content:**

The course includes topics from the following areas: working with X-ray, anatomical characteristics of the cardiovascular system, types of access for cardiac catheterization, guides and catheters for cardiac catheterization, balloons and stents for coronary angioplasty, preparation and monitoring the patient during and after cardiac catheterization, nursing preparation for diagnostic procedures and percutaneous coronary intervention.

**Teaching and assessment:**

Study sessions are held in the form of lectures. Computer presentations and multimedia to illustrate training are used during the lectures. Modern interactive methods of training: presentation, discussion, lecture and case studies. The final grade is formed by conducting semester examination on pre-established synopsis which consists of all the studied material.

**Weekly classes:** 3lec+0sem+0labs+0ps**Type of exam:** written**SB14367 Pediatric Otorhinolaryngology****ECTS credits:** 2**Assessment:** exam**Departments involved:**

Department of Health Care

Faculty of Public Health and Health Care

**Lecturers:**

Prof. Dilyana Vicheva, MD, PhD, Dept. of Health Care, GSM: +359 888 223 675,

E-mail: [dilyana@bulgarianrhinologicsociety.org](mailto:dilyana@bulgarianrhinologicsociety.org)**Abstract:**

By studying the discipline of pediatric otolaryngology students receive basic theoretical knowledge about the diseases of the ear, nose and paranasal sinuses, pharynx and larynx. The main objectives of the training are that students will acquire knowledge of the etiology and clinic of the most common ear, head and neck diseases and traumas and develop professional competencies for emergency care in otorhinolaryngology.

**Course content:**

The course includes topics related to the anatomy and physiology of the hearing analyzer; inflammatory, non-inflammatory and traumatic. diseases of the ear, nose and throat; topics on oncological diseases, damage caused by noise, vibrations and electrotractions, foreign bodies, nasal bleeding, post-tonsillectomy haemorrhages, need for prophylaxis of diseases in otorhinolaryngology.

**Teaching and assessment:**

The main form of training is lectures. Teaching is conducted by the following methods: lecture, discussion, discussion, demonstration, observation, video demonstrations. Training tools include boards, models, multimedia, simulator. The students' assessment is done through current control – oral and written tests, didactic tests, and ends with final exam.

**Weekly classes:** 3l+0s+0lab+0p**Type of exam:** written

**SB10043 Pre-graduation Internship****ECTS credits:** 25**Assessment:** exam**Departments involved:**

Department of Health Care

Faculty of Public Health and Health Care

**Lecturers:**

Assoc. Prof. Despina Georgieva, PhD, Dept. of Health Care, phone: +359889789100, E-mail: dpgeorgieva@uni-ruse.bg

Assoc. Prof. Daniela Konstantinova, PhD, Dept. of Health Care, GSM.: +359 888520021, E-mail: ddraganova@uni-ruse.bg

Assoc. Prof. Prof. Greta Koleva, PhD, Dept. of Health Care, tel. +359 82 888 421, E-mail: gkoleva@uni-ruse.bg

Sen. Assist. Prof. Irinka Hristova, PhD, Dept. of Health Care, tel. +359 82 888 421, E-mail: ihristova@uni-ruse.bg

Assist. Prof. Teodora Todorova, Dept. of Health Care, tel. +359 82 888 421, E-mail: tetodorova@uni-ruse.bg

**Abstract:**

Pre-graduation internship I is an organized educational process, during which students apply acquired knowledge and skills in real clinical conditions (therapeutic, surgical, pediatric, intensive and emergency department). The aim of the course is strengthening the knowledge of medico-biological, clinical and humanitarian disciplines, building and improving of professional skills and competencies.

**Course content:**

Nursing care for patients with somatic, surgical and pediatric diseases, cares for patients in intensive departments with surgical interventions and for patients in emergency departments. Acquaintance with documents and specificity of work organization in corresponding departments.

**Teaching and assessment:**

Undergraduate practice is organized and supervised by an assistant. The main nurse together with the assistant makes work schedules, sets mentors – nurses with specialty of Health care. The main nurse from corresponding department controls the process of fulfilling of assigned tasks, keeping work discipline and instructions for fight with nosocomial infections. Methods include organizing a group for work by giving out common and individual tasks. There is continuous assessment which is carried out by an exam with preliminary determined topical plan. 100% fulfillment of schedule and working off corresponding hours is required. The final mark is based on an exam. A student is admitted to state exam session after finishing successfully the practice in all wards.

**SB10044 Pre-graduation Internship****ECTS credits:** 25**Assessment:** exam**Departments involved:**

Department of Health Care

Faculty of Public Health and Health Care

**Lecturers:**

Assoc. Prof. Despina Georgieva, PhD, Dept. of Health Care, phone: +359889789100, E-mail: dpgeorgieva@uni-ruse.bg

Assoc. Prof. Daniela Konstantinova, PhD, Dept. of Health Care, GSM.: +359 888520021, E-mail: ddraganova@uni-ruse.bg

Assoc. Prof. Prof. Greta Koleva, PhD, Dept. of Health Care, tel. +359 82 888 421, E-mail: gkoleva@uni-ruse.bg

Sen. Assist. Prof. Irinka Hristova, PhD, Dept. of Health Care, tel. +359 82 888 421, E-mail: ihristova@uni-ruse.bg

Assist. Prof. Teodora Todorova, Dept. of Health Care, tel. +359 82 888 421, E-mail: tetodorova@uni-ruse.bg

**Abstract:**

Pre-graduation internship I is an organized educational process, during which students apply acquired knowledge and skills in real clinical conditions (therapeutic, surgical, pediatric, intensive and emergency department). The aim of the course is strengthening the knowledge of medico-biological, clinical and humanitarian disciplines, building and improving of professional skills and competencies.

**Course content:**

Nursing care for patients with somatic, surgical, neurological, psychic and pediatric diseases. Acquaintance with documents and specificity of work organization in corresponding departments.

**Teaching and assessment:**

Undergraduate practice is organized and supervised by an assistant. The main nurse together with the assistant makes work schedules, sets mentors – nurses with specialty of Health care. The main nurse from corresponding department controls the process of fulfilling of assigned tasks, keeping work discipline and instructions for fight with nosocomial infections. Methods include organizing a group for work by giving out common and individual tasks. Current control is carried out by an exam with preliminary determined topical plan. 100% fulfillment of schedule and working off corresponding hours is required. The final mark is based on an exam. A student is admitted to state exam session after finishing successfully the practice in all compartments.

**SB10045 State exam: Philosophy of Nursing. Theoretical and Practical Foundations of General and Special Nursing Care****ECTS credits:** 3**Weekly classes:** 0lec+0sem+0labs+0ps**Assessment:** exam**Type of exam:** written**Departments involved:**

Department of Health Care

Faculty of Public Health and Health Care

**Consultants:**

Assoc. Prof. Despina Georgieva PhD, Dept. of Health Care, tel +359 888520021;

E-mail: dpgeorgieva@uni-ruse.bg;

**Abstract:** The state exam is held before the State Examination Commission appointed by order of the Rector of the University of Ruse, which shall be comprised of no less than three habilitated professors.

The state exam is written and is conducted in two parts, theoretical and practical, on a pre-established synopsis. The synopsis is discussed and approved on a departmental meeting of the Department of Health Care.

**SB10046 State Exam: Internal Diseases and Pharmacology – Nursing Activities and Care****ECTS credits:** 3**Weekly classes:** 0lec+0sem+0labs+0ps**Assessment:** exam**Type of exam:** written**Departments involved:**

Department of Health Care

Faculty of Public Health and Health Care

**Consultants:** Assoc. Prof. Dobrin Vasilev, MD, PhD, Dept. of Health Care, tel.: +359 82 888 421,

E-mail: dobrinv@gmail.com

Assoc. Prof. Ognyan Sherbanov, MD, PhD, Dept. of Health Care, tel.: +359 82 502 430,

E-mail: osherbanov@uni-ruse.bg

**Abstract:** The state exam is held before the State Examination Commission appointed by order of the Rector of the University of Ruse, which shall be comprised of no less than three habilitated professors.

The state exam is written and is conducted in two parts, theoretical and practical, on a pre-established synopsis. The synopsis is discussed and approved at a departmental meeting of the Department of Health Care.

**SB10047 State Exam: Surgery and Anesthesiology, Resuscitation and Intensive Care – Nursing Activities and Care****ECTS credits:** 2**Weekly classes:** 0lec+0sem+0labs+0ps**Assessment:** exam**Type of exam:** written**Departments involved:**

Department of Health Care

Faculty of Public Health and Health Care

**Consultants:**

Prof. Vladimir Danov, MD, PhD, Dept. of Health Care, GSM: +359 885699622,

E-mail: dherzchirurgie@gmail.com

Assoc. Prof. Theodora Nedeva, MD, PhD, Dept. of Health Care, GSM: +359 887 468 695,

E-mail: tsherbanova@uni-ruse.bg

**Abstract:** The state exam is held before the State Examination Commission appointed by order of the Rector of the University of Ruse, which shall be comprised of no less than three habilitated professors.

The state exam is written and is conducted in two parts, theoretical and practical, on a pre-established synopsis. The synopsis is discussed and approved on a departmental meeting of the Department of Health Care.

**SB10048 State Exam: Social Medicine with Health Promotion and Social and Health legislation****ECTS credits:** 2**Weekly classes:** 0lec+0sem+0labs+0ps**Assessment:** exam**Type of exam:** written**Departments involved:**

Department of Health Care

Faculty of Public Health and Health Care

**Consultants:** Assoc. Prof. Nikola Sabev, MD, DSc, Dept. of Health Care, GSM: +359 887 356 342,

E-mail: nsabev@uni-ruse.bg

**Abstract:** The state exam is held before the State Examination Commission appointed by order of the Rector of the University of Ruse, which shall be comprised of no less than three habilitated professors.

The state exam is written and is conducted in two parts, theoretical and practical, on a pre-established synopsis. The synopsis is discussed and approved at a departmental meeting of the Department of Health Care.

# **SPECIALTY HEALTH CARE MANAGEMENT**

**SPECIALTY INFORMATION PAGE****HEALTH CARE MANAGEMENT**

Academic qualification degree: **"Master's Degree"**

Professional qualification: " **Head of Health Care and Practical Lecturer**" Period:  
**1,5 years (3 semesters)**

Specialty for Master's educational qualification degree in *Management of health care* in the field of *Public Health* is developed in accordance with the institutional strategy for development of the University of Ruse "Angel Kanchev". The mission, goals and tasks of the Faculty of Public Health and Health Care and the training in the specialty *Health Care Management* of the regulated professions are in accordance with national and European regulations. The specialty development perspectives are focused on the training of medical specialists with adequate qualification in terms with the European requirements.

The mission of the Master's educational qualification degree in Health Care Management is to provide highly qualified professionals in a changing social, economic and health environment.

The goals of the specialty are:

- ✓ training of professionals with the necessary knowledge, skills and competencies to hold managerial positions in medical institutions, nurseries, social homes and other medical and social structures. Conducting practical training for students majoring in: *Nurse and Midwife*;
- ✓ formation of skills needed for independent professional work, communication and team interaction in planning, organizing and conducting activities;
- ✓ acquisition of theoretical knowledge, practical skills and competencies for independent activities and teamwork;
- ✓ acquisition of professional competence for assessment, planning and implementation of activities in the field of health care management in medical institutions and in medical and social structures;
- ✓ formation of personal qualities, communication skills, teamwork skills needed for the profession of leader and teacher.

The duration of the training corresponds to Art. 3, item 2 and item 3. of the REGULATION on the unified state requirements for acquiring higher education in the specialty "Health Care Management" for the educational qualification degrees "Master" and "Bachelor" in the professional field "Public Health", Adopted by the Council of Ministers № 215 of 18.08.2006, promulgated, SG, no. 70 of 29.08.2006, in force from the academic year 2006 - 2007, amended, iss. 87 of 7.10.2008

In accordance with regulation, the study duration is 1.5 years, 3 semesters with a duration of 15 weeks for the first and second semester followed by 10 weeks for the third semester for full-time study, and for the part-time form - the minimum number of hours for compulsory subjects is ½ from the provided in the regular curriculum.

The regulation was adopted on the grounds of Art. 177 of the Health Act and Art. 9, para. 3, item 5 of the Higher Education Act, (last amended and supplemented, SG No. 17 of 25 February 2020)

The *Health Care Management* specialty training includes the study of managerial, pedagogical, legal, psychological, and other scientific directions. The disciplines are arranged in a logical sequence and provide the necessary input-output connections both with each other as well as with other disciplines. The study material provides a large amount

of theoretical and factual knowledge in the field of health care management. New advances in healthcare will be achieved through the introduction of appropriate electives and the regular annual holding of seminars, conferences, open days, specialty days, student research forums and competitions at a university and faculty level.

The training in *Health Care Management* provides clearly expected results in the form of knowledge, skills and competencies, according to the criteria set in the National Qualifications Framework of the Republic of Bulgaria, adopted with the decree of the Council of Ministers № 96 / 02.02.2012.

✓ **Knowledge** – after completing the training the students will have a wide range of theoretical and practical knowledge, some of which specialize in the field and build on what was achieved in the previous stage of training;

- know, understand and express theories, concepts, principles and laws;
- have highly specialized practical and theoretical knowledge, can form and implement original new ideas and solutions in the field of Health Care Management.
- can demonstrate a critical awareness of knowledge in the field as well as the relationships between the different fields studied.

✓ **Skills** - the curriculum includes a wide range of special disciplines with practical exercises. The planned hours for practical training allow the formation of practical professional skills in the specialty of *Health Care Management*. The teaching methodology stimulates the mastery of specific professional skills, as well as the formation of skills needed for solving management tasks and cases with different levels of complexity:

- has a wide range of practical and cognitive skills and approaches necessary for understanding abstract problems and developing creative solutions;
- can diagnose and solve problems based on modern research by integrating knowledge from new or interdisciplinary fields, showing the ability to generate new knowledge and procedures related to research and innovation;
- can formulate adequate judgment in situations characterized by incomplete or limited information and unpredictability;
- develops new and diverse skills in response to newly emerging knowledge and practices;
- can freely demonstrate application of innovative methods and tools in solving complex tasks and unforeseen problems in the field of healthcare and teaching of health care;
- finds and maintains arguments in solving problems of interdisciplinary nature;
- Shows initiative in their work and learning in a complex and unpredictable environment, that requires solving problems with many interacting factors.

✓ **Competences** – students majoring in this specialty have the opportunity to develop the following competencies:

• **Independence and responsibility** – the specifics of the training in *Health Care Management* create conditions for building students' skills for integration into organizational structures and teams, as well as to independently carry out activities under the control of a teacher or a representative of the clinical training bases.

- skills to build administrative organizational structures and independently manage teams for solving complex problems in unpredictable environments, with many interacting factors and variable possibilities;

- to show creativity and innovation in project development;

- to initiate processes and organize activities that require a high degree of coherence,

to formulate policies and demonstrate leadership qualities needed for their implementation.

• **Learning competencies** – during the course of the training, abilities to assess one's own qualification by assessing the knowledge and skills acquired so far and planning actions

for improving on those qualification are developed. The self-assessment on this indicator is formed mainly during and as a result of pre-diploma internship in a real-life environment. Contacts with the supposed future work environment will serve as a basis for assessment, comparison and forming of a conclusion and in the search for opportunities to develop and expand knowledge. The elective and optional disciplines offered in the curriculum for the Master's degree in *Health Care Management* are one of the ways to provide such opportunities. Another opportunity is provided by the continuation of the training in the offered courses at the Bulgarian Association of Health Care Professionals.

- systematically and thoroughly assess their knowledge and identify needs for new knowledge;

- demonstrates a high degree of independence and can easily navigate through complex learning content, applying their own approaches and methods in order to master it;

- use a variety of methods and techniques for learning complex learning content;

- have a rich conceptual knowledge and shows abilities for conceptual and abstract thinking.

- **Communicative and social competencies** are formed in the students by studying the mandatory and elective courses included in the curriculum, as well as with their active participation in extracurricular student activities. For the formation of communicative competence is essential to train in a number of disciplines included in the curriculum - Applied Psychology, Health Care Management, Methodology of practical training in specialties of the professional field "Health Care", Undergraduate Internship and others. During the training process, students will form competence for organizational communication with the work team and with students studying for a bachelor's degree. Getting students involved in various initiatives of a social nature provides an opportunity to develop communicative, social competencies and personal responsibility. In the process of training, especially when solving individual and team tasks, students develop abilities to formulate and clearly and understandably present unresolved organizational problems, to conduct training for students majoring in Bachelor of *Nursing and Midwifery*, to offer solutions to problems in front of different audiences, including those of different levels of qualification (specialists and non-specialists). Their preparation allows them to express attitude and understanding on issues by using methods based on qualitative, quantitative descriptions and evaluations. Thanks to this, they show an expanded personal worldview and show coherence with the teams in which they work.

- are able to present clearly and accessible their own formulations of problems and possible solutions to a specialized and non-specialized audience, using a wide range of techniques and approaches;

- develop and present argument-based opinions on social processes and practices and justify proposals for their improvement or change.

- **Professional competencies** - mastering the theoretical knowledge and practical skills in the compulsory and elective disciplines develop in the students the responsibility for carrying out independent activities, as well as solving specific tasks in a real situation. The study of the disciplines included in the curriculum, the conduct of an undergraduate internship, the planned joint research projects with employers' representatives, the annual scientific sessions and conferences are all conditions for the development of professional competencies. The training system motivates the building of professional competencies and the ability to express one's own opinion for solving social and moral problems related to the team process and teaching activities.

- to collect, process and interpret specialized information needed to solve complex problems in the field of *Health Care Management*;

- to integrate a wide range of knowledge and information sources in a new and relatively unknown context;

- to make sound judgments and find solutions in a complex environment of diverse



interactions;

- to demonstrate abilities for adequate behavior and interaction in a professional and / or specialized environment;
- to solve problems by integrating complex sources of knowledge, in conditions of insufficient available information, in a new unknown environment;
- to initiate changes and manage development processes in complex conditions;
- to engage in important scientific, social and moral issues arising in the course of work or study.

The educational documentation, that provides the training in the specialty *Health Care Management*, includes qualification characteristics; curriculum for full-time and part-time education; curricula in the disciplines; annual schedule of the educational process; schedule of classes for each semester; calendar plan for conducting classes in each discipline. In the regulations for the activity of University of Ruse "Angel Kanchev" and Procedural rules for approval of the study documentation.

The curriculum was developed in compliance with the Higher Education Act ORDINANCE on the uniform state requirements for acquiring higher education in the specialty *Health Care Management* for the educational qualification degrees "Master" and "Bachelor" in the professional field "Public Health". Adopted by the Council of Ministers № 215 of 18.08.2006, promulgated, SG, no. 70 of 29.08.2006, in force from the academic year 2006 - 2007, amended iss. 87 of 7.10.2008 and the National Qualifications Framework.

The curriculum is a basic document on which the training is based. The aim is to conduct a quality learning process aimed at ensuring the requirements of Art. 6 of the Ordinance on the Unified State Requirements:

- ✓ Comprehensive knowledge of the disciplines that underlie the Department of Nursing;
- ✓ Sufficient knowledge of the nature and ethics of the profession and of the general principles related to health care management and teaching;
- ✓ Appropriate practical experience;
- ✓ Experience working with other medical professionals;
- ✓ Competence for effective collaboration with other medical professionals;
- ✓ Competence for conducting practical training of students majoring in the fields of *Nurse, Midwife, Medical Assistant* and others.;
- ✓ Competence for independent quality assurance and health care assessment;
- ✓ Competence for comprehensive professional communication and cooperation with representatives of other health care system professions;
- ✓ Competence for analyzing the quality of health care in order to improve personal professional practice.

The curriculum is in line with the didactic requirements for the training of the educational qualification degree "Master" in *Health Care Management*, which provide students with: a comprehensive idea of the nature of the professional field and specialty; mastering broad profile theoretical knowledge and practical skills; formation of skills for independent professional work and team work; ability to adapt to changing conditions of professional realization; conditions for educational mobility and international comparability of the acquired knowledge and acquired skills; opportunity to participate in various forms of continuing education, as well as lifelong learning. The curriculum determines the form and duration of training for the respective educational qualification degree, the study sequence of the academic disciplines and the departments responsible for conducting the training of each discipline. The number of hours for lectures, seminars and practical exercises, active forms of education, forms for testing knowledge and the organization of the final training procedure - theoretical state exam or thesis are all specified. It includes a logical sequence of disciplines that build the curriculum. The University of Ruse "Angel Kanchev" has strived

to develop flexible curricula in accordance with the specific and dynamically changing requirements of the professional field.

### **Professional development**

Masters in Health Care Management can accomplish themselves as:

- health managers, health care quality managers and human resources managers in health and medical and social organizations;
- managers of hospices and medical and social facilities in the public and private sector;
- experts in health care in Regional Center for Health, municipal, regional and national health administration;
- experts in the National Health Insurance Fund, the Regional Health Insurance Fund and voluntary health insurance funds;
- Healthcare policy analysts and consultants at various levels in the governmental and non-governmental sector;
- consultants on specific issues in the field of health care;
- Assistant managers for programs for control of nosocomial infections in hospitals;
- hold academic positions in faculties and colleges at universities conducting training in health specialties;

Professional competence will allow Health Care masters to continue their education by: Acquisition of specialization, according to Ordinance № 1 of 22.01.2015 for acquiring a specialty in the health care system Issued by the Minister of Health, promulgated, SG, no. 7 of 27.01.2015 and Ordinance amending and supplementing Ordinance № 1 of 2015 on acquiring a specialty in the healthcare system (promulgated, SG No. 7/2015; amended and supplemented, SG No. 7/2015). 83 of 2015; suppl., Issue 88 of 2016) number: 58, dated 23.7.2019; Acquisition of a scientific and educational degree "Doctor" in "Health Care Management" at the Faculties of Public Health.

**CURRICULUM FOR THE SPECIALTY**  
**HEALTH CARE MANAGEMENT**

**First year**

<b>Code</b>	<b>First semester</b>	<b>ECTS</b>	<b>Code</b>	<b>Second semester</b>	<b>ECTS</b>
SM15398	Health care management I	5	SM15408	Health care management II	4
SM15399	Fundamentals of law and health legislation	6	SM15409	Andragogy	2
SM15400	Health economics	4	SM15410	Applied Psychology	3
SM15401	Social medicine	4	SM15411	Methodology of Clinical Practice Teaching	4
SM15402	Pedagogy	2	SM15412	Healthcare management	4
SM15403	Medical statistics	3	SM15413	Medical ethics and deontology	4
SM15404	Psychology	2	SM15414	Methodology of research work	2
SM15405	Medical pedagogy	2	SM15415	Organization and ergonomics of work in the health care institution	2
			SM15416	Management History In Healthcare	2
			SM15417	Disaster medicine	2
	<i>Elective courses:</i>			<i>Elective courses:</i>	
SM15406	Time management	2	SM15418	Quality and safety of healthcare	1
SM15407	Digital health	2	SM15419	Innovative Educational Technologies	1
<b>Semester total:</b>		<b>30</b>	<b>Semester total:</b>		<b>30</b>
	<i>Faculty disciplines</i>			<i>Faculty disciplines</i>	
SM15428	Health projects	2	SM15430	<i>Business and ethics</i>	1
SM15428	English language in the medical institution	4	SM15429	English language in the medical institution	4

**Second year**

<b>Code</b>	<b>Third semester</b>	<b>ECTS</b>
SM15420	Health care management III	5
SM15421	Hygiene and ecology of the health establishment	2
SM15422	Health epidemiology	2
SM15423	Undergraduate internship Management of health care	3
SM15424	Undergraduate internship Pedagogy	3
	<i>Faculty disciplines</i>	
SM15431	English language in the medical institution	3
<b>Graduation:</b>		
SM15425	<i>Thesis</i>	15
SM15426	<i>State Examination</i>	
<b>Semester total:</b>		<b>30</b>

**Total for the training course: 90 ECTS credits**

**SM15398 Health care management I****ECTS credits: 5****Knowledge test form: exam****Weekly classes: 3 lectures + 2 practical exercises****Type of exam: written****Methodical guide:**

Assoc. Prof. Daniela Konstantinova Draganova, PhD; Assoc. Prof. G. Koleva, PhD; Ch. Assoc. Prof. I. Hristova, PhD

Department: Health Care

Faculty: Public Health and Health Care

Academic position: Assistant Professor

E-mail: ddraganova@uni-ruse.bg

**Annotation:**

The purpose of the course Healthcare Management I is to acquire new knowledge and technologies that will guarantee the quality and effectiveness of health care and good health outcomes in dynamically changing and growing health needs;

The tasks of the course derive from its purpose and are carried out in the areas related to the specifics in healthcare management, planning and decision making, organizational structure.

**Course content:**

Nursing concept; basic principles of leadership and management in nursing; planning as the first function of management; the decision-making process; organizational structure and culture.

**Teaching and assessment:**

Training is provided in the form of lectures and practical exercises. Methods with interactive orientation are used: presentation, discussion, analysis, independent work in small groups, case studies, situational tasks. Current control is conducted in the form of talks, front-end questions, case studies, situational tasks, independent work in small groups. The final grade is formed by the current control and examination graded in the six-point system, with the minimum level of competence required being "average (3)".

**SM15399 Fundamentals of law and health legislation****ECTS credits: 6****Assessment: exam****Weekly classes: 4lec+2sem+0labs+0ps****Type of exam: written****Department involved:**

Department of Public Law Science

Faculty of Law

**Lecturers:**

Assoc. prof. Emanuil Kolarov, PhD, Dept. of Public Law Science, e-mail: ekolarov@uni-ruse.bg

Ch. Assist. Maria Radeva, PhD, Dept. of Public Law Science, e-mail: mradeva@uni-ruse.bg

**Anotation:**

The course consists of two parts. The topics included in the Fundamentals of Law section are intended to present the main legal terms - normative act, legal norms, subjects of law, legal liability. The health legislation includes concepts that are studied in Administrative Law, Labor and Social Security Law, Insurance Law, Civil Law. The subject of the health legislation are also specific legal relationships in healthcare - the rights of the patient, the establishment and functioning of medical establishments, the regulated professions in healthcare.

**Course content:**

The lecture course includes law acts regulating health insurance system, government policy in the field of health system, the structure of the health system. Course content: structure of the health care system, the legal framework of medical institutions, health information, personal data protection, legal status of the patient, informed consent, involuntary treatment,

**Teaching and assessment:**

Training is conducted in the form of lectures and practical exercises. Lectures in the conventional way, focusing on key issues and highlighting the links in the development of the basic ideas in order to get a general idea of the topic being studied. Students are required active account dialogue. Ability to participate in the discussion, argumentation analysis and making generalizations. The following methods with interactive focus: presentation, lecture, discussion, individual work in small groups, case studies. Funds for training are: multimedia, interactive boards, computers.

**SM15400 Health economics****ECTS credits: 4****Weekly classes: 3L+1s****Assessment: exam****Type of exam: written and oral****Departments involved:**

Department of Medical and clinical diagnostic activities

Faculty of PUBLIC HEALTH AND HEALTHCARE

Lecturers: Prof. Nikola Sabev, , PhD, Department: MEDICAL AND CLINICAL DIAGNOSTIC ACTIVITIES, tel.: 0878 82 32 88 E-mail: [nikola\\_sabeff@abv.bg](mailto:nikola_sabeff@abv.bg)

**Annotation:** The course on Health Economics is based on the importance of the economic theory and practice and aims to aware with the healthcare systems in the world and with the specific features of the healthcare in Bulgaria; acquisition of basic concepts and principles of the contemporary economic theory and market regulation of the healthcare systems; utilization of basic economic knowledge, applicable within the healthcare system. The course Health Economics provides theoretical and practical foundations for the formation of qualified health professionals, adequate to the modern reality, knowing the principles of operation, interaction, financing and supporting of the complex and diverse healthcare system in its various forms of ownership and management – state, municipal, private and mixed. Students acquire knowledge of basic economic formulations, applicable in healthcare; basic economic problems of the healthcare system and the ways for their identification and solving; traditionally used statistical methods in economics and orientation in planning the necessary financing for the medical and healthcare facilities.

**Course content:** Curriculum is in two theoretical sections of 45 lecture hours, as during the first section is studied basic economic concepts, categories and laws relating to the healthcare system, and during the second is covered basic principles of financing and management of healthcare and its functioning in a different social and economic systems. There are also 15 hour's seminars in two main sections (from 7 to 8 hours) logically following the theoretical lecture material.

**Teaching and assessment:** Basic forms for conducting classes are lectures and seminars. Lectures include conversations, active and interactive discussion forums and research of documents. Multimedia presentations and other visual materials are used. The methodology of the seminars include demonstration of a specific problem; solving of model and situational case studies and appropriately selected practical tasks which illustrate and specify the theoretical material. There is a control procedure through written test and interview. 100% attendance of lectures and seminars is required on the subject, successfully coping with the test procedure and participation in the discussions during the seminars. The final mark is formed after successfully passed written exam, interview on the theoretical material, taking in consideration of the results of current monitoring and participation in discussions of seminars exercises.

**SM15401 Social medicine****ECTS credits: 4****Weekly classes: 3 L + 1 s****Assessment: exam****Type of exam: written and oral****Methodical guidance:**

Department of MEDICAL AND CLINICAL DIAGNOSTIC ACTIVITIES

Faculty of PUBLIC HEALTH AND HEALTH CARE

Lecturers: Assoc. prof. Nikola Sabev, MD, DSc, Department: MEDICAL AND CLINICAL DIAGNOSTIC ACTIVITIES, tel.: 0878 82 32 88, E-mail: [nikola\\_sabeff@abv.bg](mailto:nikola_sabeff@abv.bg)

**Annotation:** The training in social medicine focuses on the basics of public health and socio-medical approach, the development of health concepts and its determinants, as well as the most commonly used health-demographic indicators. It emphasizes on the social factors of the health and the disease. It examines the main trends and tendencies in the development of the public health. Students study the organizational principles of health care, types of health systems, sociological studies and their application in the planning of health activities. The general and specific tasks of the medical specialists are trained by identifying the risk factors associated mainly with socially significant diseases.

**Course content:** The curriculum is divided into two sections – 45 lecture hours and 15 hours of seminars respectively. In the first lecture, section there are studied the methods of public health research and evaluation, organization and activity of the health service, characteristics of Health systems. The second one consists of seminars, logically following the lecture theoretical material.

**Teaching and assessment:** Basic forms for teaching are lectures and seminars as during lectures are used talks, active and interactive discussion forms and document research. Multimedia presentations and other visual materials are used. In the methodology of the seminars, the basic forms are related to the demonstration of a particular problem. Typical and situational cases, as well as appropriately selected practical assignments that illustrate and specify the theoretical material are solved. A control procedure is provided through a written test and interview. 100% attendance of lectures and seminars is required, successful management of the control procedure and participation in the discussions during the seminars.

**SM15402 Pedagogy**

**ECTS credits: 2**  
**Assessment: exam**

**Weekly classes: 1lec+0sem+0labs+1p**  
**Type of exam: written**

**Departments involved:**

Department of Pedagogy, Psychology and History  
Faculty of Natural Science and Education

**Lecturers:**

Associate Profe. Desislava Vasileva Stoyanova, MA, PhD. , e-mail: [dstoyanova@uni-ruse.bg](mailto:dstoyanova@uni-ruse.bg)

**Annotation:**

The purpose of the course is to acquaint students with the basic pedagogical, psychological and methodological aspects of characteristics and innovative strategies in the field of pedagogy. The content selection is aimed at the systematic presentation and scientific clarification of theoretical and methodological issues related to the basic parameters of the didactic process and the nature of the main educational phenomena as part of the content of general pedagogy.

**Course content:**

Scientific status of pedagogical science; Modern approaches to training and upbringing; Categorical apparatus of pedagogy; Didactics in the system of scientific knowledge; Actual aspects of the implementation of training principles; Determinants of teaching methods; Basic organizational training forms; Methodological requirements for planning, organizing and carrying out control and evaluation in the learning process; Nature, structure, content and stages of the educational process; Purpose of education; Educational factors - types, specificity and focus of educational influences; Classical principles of education; Contemporary dimensions of upbringing principles; Methods of education - pedagogical conditions for effectiveness; The classic components of content education.

**Teaching and assessment:**

The training is conducted in the form of lectures and practical exercises. The following interactive methods are used: presentation, conversation, discussion, demonstration, independent work in small groups, case studies, situational tasks, role-playing games. The training tools are multimedia, interactive whiteboard, computers.

**SM15403 Medical statistics**

**ECTS credits: 3**  
**Assessment: exam**

**Weekly classes: 2lec+0sem+0labs+1ps**  
**Type of exam: written**

**Departments involved:**

Applied Mathematics and Statistics  
Faculty of Public Health and Health Care.

**Lecturers:**

Prof. Velizar Todorov Pavlov, MSc, PhD, Dept. of Applied Mathematics and Statistics,  
tel.: 888 466, E-mail: [vpavlov@uni-ruse.bg](mailto:vpavlov@uni-ruse.bg)

Pr. Assist. Prof. Maya Markova Stoyanova, MSc, PhD, Dept. of Applied Mathematics and Statistics,  
tel.: 888 424, E-mail: [mmarkova@uni-ruse.bg](mailto:mmarkova@uni-ruse.bg)

**Annotation:**

The discipline aims to provide students with skills in basic statistical methods (descriptive statistics, parametric and non-parametric methods for testing statistical hypotheses, dependency analysis, etc.), which are applied in medicine and health care and to introduce students to medical informatics.

**Course content:**

The course includes elements from probability theory, applied statistics, regression and correlation analysis and introduction in medical informatics.

**Teaching and assessment:**

The training process is organized in lectures and practical classes. During lectures, theoretical issues are presented and illustrated with appropriate exemplary problems derived from the medical practice. During practical classes, students solve problems connected with the practice and requiring application of the mathematical apparatus of the probability theory, as well as mathematical statistics and medical informatics.

**SM15404 Psychology****ECTS credits: 2****Assessment: exam****Department involved:**

Department of Pedagogic, Psychology and History

Faculty of Public Health and Health Care

**Lecturers:**

Assoc. Prof. Silvia Krushkova, PhD, Dept. of Public Health and Social Work, tel. +359 882517554,

e-mail: [krovshkova@mail.bg](mailto:krovshkova@mail.bg)**Annotation:**

The course aims to acquaint students with the contemporary state of medical psychology, its methodological basis and basic directions: neuropsychology, pathopsychology, psychological basis of the psychotherapy, psychological problems of psychosomatic relations, psychoprofilactics, psychohygiene. Special attention is devoted to anomalies in different processes, principles and methods of medical and psychological research and the practical work of the medical psychologist.

**Course content:**

Introduction to medical psychology. Methods of enquiry. Body, spirit and spirituality. Psychic. Psychic relation between body and illness. Somatogenics, psychogenics, yatrogenics. Psychiatry, pathopsychology, illness and mental disorder. Personality and illness. Medical ethics and medical deontology. Psychology of patient – medical personnel relationship. Scientific research, psychometrics, evaluation, diagnostics and psychodiagnostics. Psychological evaluation and assessment. Didactic tests. Specific developmental disorders. Cognitive dysfunction in children. Psychotherapy as a basic method in medical psychology.

**Teaching and assessment:**

Lectures are carried out mostly frontally using various interactive methods. Continuous assessment is based on self-study for the seminars and participation in discussions. Regular attendance at lectures is required. Final grade is based on written answer on questions.

**SM15405 Medical pedagogy****ECTS credits: 2****Assessment: exam****Departments involved:**

Department of Health Care

Faculty of Public Health and Health Care

**Lecturers:**Prof. Ivanichka Serbezova, PhD, dept. of Health Care, GSM: +359 888731063, E-mail: [iserbezova@uni-ruse.bg](mailto:iserbezova@uni-ruse.bg)Sen. Assist. Prof. Yoana Lukanova, PhD, dept. of Health Care, GSM.: +359 885047644, E-mail: [ylukanova@uni-ruse.bg](mailto:ylukanova@uni-ruse.bg)Sen. Assist. Prof. Tsveta Hristova, PhD, dept. of Health Care, GSM.: +359 878389793, E-mail: [tshristova@uni-ruse.bg](mailto:tshristova@uni-ruse.bg)**Annotation:**

The educational course in Medical Pedagogy aims to widen students' knowledge and focus their attention on specific problems of the educational process in universities, specialised in training future health care leaders and teachers. Thus, they would acquire competences in organizing a contemporary educational process in the field of health care.

**Course content:**

It is based on the status of Medical Pedagogy within the pedagogical science system; normative conditionality of higher education in Health Care in the Republic of Bulgaria is outlined; current approaches within the educational process in higher education institutions; the structural and substantive features of the educational process of health care professionals are thoroughly and particularly disclosed, with an emphasis on goal setting, content, methods, principles, educational forms, and control; didactic systems' notions, techniques and ideas are acquired, which integrate innovative didactic concepts - problematics, computer basing and digitalization of health care education.

**Teaching and assessment:** The educational course is taught in the form of lectures and practical exercises. The methodology is formulated according to the specifics of students' education. Practical exercises are conducted in groups. Interactive techniques are employed. The up-to-date evaluation of students is performed taking students' progress on each lecture and each seminar topic into account. The grade of the up-to-date evaluation is formed by combining the student's engagement during lectures and the fulfillment of specific pedagogical tasks. The final assessment of the student is calculated based on the grades from the frequent up-to-date evaluations and passing a semester exam – in both written and oral form.

**SM15406 Time management****ECTS credits:**2**Assessment:** exam**Weekly classes:** 1ec+2sem+0labs+0ps+0,5**Type of exam:** written**Departments involved:**

Health Care Department; Faculty: Faculty of Public Health and Health Care

**Lecturers:**Chief Assist. Prof. Irinka. Hristova; E-mail: [ihristova@uni-ruse.bg](mailto:ihristova@uni-ruse.bg)**Annotation:**

The aim of the course Time Management is to familiarize students with time as a key factor in health care management, to develop skills for self-organization, planning and efficient use of working time.

**Course content:**

Time as a resource. Time optimization and management. Time management - goals and strategies. Time budget. Effective time management - methods and approaches. Mismanagement of Time - Thieves of Time. Time Schedule for time management. Resources and time management tools.

**Teaching and assessment:**

The training is carried out in the form of lectures and seminars. The following interactive methods are used: presentation, conversation, discussion, demonstration, independent work in small groups, case studies, situational tasks, role-playing games. Attending lectures and practical exercises in accordance with the regulations of the University of Rouse is required for certification of the discipline. The final grade is formed after passing the examination - theoretical and practical part.

**M15407 Digital health****ECTS credits:** 2**Assessment:** exam**Weekly classes:** 1ec+2sem+0labs+0ps+0,5**Type of exam:** written**Departments involved:**Informatics and Information Technologies Department  
Faculty of Natural Sciences and Education**Lecturers:**Assoc. Prof. Rumen Rusev, PhD, Dept. of Informatics and Information Technologies tel.: 888 754,  
e-mail: [rir@uni-ruse.bg](mailto:rir@uni-ruse.bg)Pr. Assist. Prof, Kameliq Shoylekova, PhD, Dept. of Informatics and Information Technologies, tel.: 888 214, e-mail: [kshoylekova@uni-ruse.bg](mailto:kshoylekova@uni-ruse.bg)**Annotation:**

The course aims to deepen students' knowledge in order to acquire key competences and skills that are paramount to their future professional career.

**Course content:**

Electronic health information - basic requirements; Stages of generating and/ or acquiring health information; Epochs of eHealth - historical analysis and characteristics; Electronic Health File - standard for eHealth; EHealth methods and technologies; Difficulties and obstacles to eHealth; Approaches for integrating medical devices for the automatic transfer of diagnostic information into hospital information systems; Methods for statistical processing and visualization of medical results; Information systems in medicine and healthcare - hospital information systems and systems for general practitioners and specialists; Familiarity with the most common hospital information systems and systems for general practitioners and specialists in the region.

**Teaching and assessment:**

The training is carried out in the form of lectures and seminars. The following interactive methods are used: presentation, discussion, discussion, demonstration, independent work in small groups, case studies, reader's theater, situational tasks, role-playing games, virtual laboratory. The training tools are: multimedia, interactive whiteboard, backgammon, simulated hospital environment, computers.



**SM15428 Health projects****ECTS credits: 1****Weekly classes: 1 lectures + 0 practical exercises****Knowledge test form: exam****Type of exam: written****Methodical guide:**

Assoc. Prof. Daniela Konstantinova Draganova, PhD

**Department:** Health Care**Faculty:** Public Health and Health Care**Academic position:** Assistant Professor**E-mail:** ddraganova@uni-ruse.bg**Annotation:**

**The purpose** of the course **Health Projects I** is to acquire new knowledge and technologies that will guarantee the quality and effectiveness of health care in dynamically changing and growing health needs; to reveal the specifics of change management through the organizing of health projects. **The tasks** of the course derive from its purpose and are carried out in the thematic areas: Characteristic features of health projects, analysis of the existing situation, priorities and mission of the organization, implementation and evaluation.

**Course content:**

Characteristic features of health projects; Methodology for elaboration of health projects; Analysis and diagnosis of the existing situation; Sources of information; Defining the mission of the organization; Outlining priorities; Setting goals; Evaluation indicators; Project implementation strategy; Evaluation of the project.

**Teaching and assessment:**

Training is provided in the form of lectures. Methods with interactive orientation are used: presentation, discussion, analysis, independent work in small groups, case studies, situational tasks. Current control is conducted in the form of talks, front-end questions, case studies, situational tasks, independent work in small groups. The final grade is formed by the current control and examination graded in the six-point system, with the minimum level of competence required being "average (3)".

**SM15408 Health care management II****ECTS credits: 5****Weekly classes: 2 lectures + 2 practical exercises****Knowledge test form: exam****Type of exam: written****Methodical guide:**

Assoc. Prof. Daniela Konstantinova Draganova, PhD

**Department:** Health Care**Faculty:** Public Health and Health Care**Academic position:** Assistant Professor**E-mail:** ddraganova@uni-ruse.bg**Annotation:**

The purpose of the course **Healthcare Management II** is to acquire new knowledge and technologies that will guarantee the quality and effectiveness of health care and good health outcomes in dynamically changing and growing health needs; The tasks of the course derive from its purpose and are carried out in the areas related to the specifics in healthcare management, planning and decision making, organizational structure.

**Course content:**

Management of working groups, Phases in development of the group and team, Communication in management, Conflict management, Leadership and power.

**Teaching and assessment:**

Training is provided in the form of lectures and practical exercises. Methods with interactive orientation are used: presentation, discussion, analysis, independent work in small groups, case studies, situational tasks. Current control is conducted in the form of talks, front-end questions, case studies, situational tasks, independent work in small groups. The final grade is formed by the current control and examination graded in the six-point system, with the minimum level of competence required being "average (3)".

**SM15410 Applied Psychology****ECTS credits: 3****Examination form: examination****Weekly hours: 2l + 1pu****Type of Examination: written theoretical exam****Lecturers:**

Assoc. Prof. Despina Georgieva, PhD

**Department:** Health Care, Faculty: Public Health and Health Care**Academic position** Assoc. Professor

Email: dpgeorgieva@uni-ruse.bg

**Annotation:**

The purpose of the course is to familiarize students with the major in Health Care Management with key topics in the field of Applied Psychology. The content of the program is determined by the profile of the master's program. The purpose of the training is to provide skills and competences that will enable the graduates to identify, analyze and solve psychological problems in management. The contents of this program include topics in Medical Psychology, Organizational, Social and Applied Psychology. An important aspect is the formation of competencies for ongoing group processes, the motivation of staff and the resolution of conflicts in the organization. Familiarity with the principles of a holistic approach to health and illness. Acquiring knowledge about the specifics of the psychological aspects of health care and organizational peculiarities in their management.

**Course content:**

The content of the topics covered in the course is aimed at developing knowledge and skills to identify, analyze and solve problems related to health care management. Acquiring competence to manage group processes in the organization, resolve interpersonal and group conflicts. Workplace stress topics and coping strategies are included. Topics related to making changes and overcoming resistance within the group. The practical training is intended for the study and application of group work trainings and techniques, as well as for stimulating creativity in the group. Different types of psychological assessments and studies are planned.

**Teaching and assessment:**

Training is provided through lectures and hands-on exercises. The following interactive methods are used: presentation, conversation, discussion, small group work, case studies, situational tasks and role-playing games. The final mark is from 1 to 6, as minimal wanted level of competence (MWLC) is "middle (3)". It is formed after an exam with preliminarily made synopsis, including whole studied material.

**SM15411 Methodology of Clinical Practice Teaching****ECTS credits: 4****Assessment: exam****Weekly classes: 2ec+0sem+0labs+2ps****Type of exam: written, oral****Departments involved:**

Department of Health Care; Faculty of Public Health and Health Care

Lecturers: Prof. Ivanichka Serbezova, PhD, dept. of Health Care, GSM: +359 888 731 063, E-mail: [iserbezova@uni-ruse.bg](mailto:iserbezova@uni-ruse.bg)Sen. Assist. Prof. Yoana Lukanova, PhD, dept. of Health Care, GSM.: +359 885047644, E-mail: [ylukanova@uni-ruse.bg](mailto:ylukanova@uni-ruse.bg)Sen. Assist. Prof. Tsveta Hristova, PhD, dept. of Health Care, GSM.: +359 878389793, E-mail: [tshristova@uni-ruse.bg](mailto:tshristova@uni-ruse.bg)**Annotation:**

The goal of the educational course "Methodology of Clinical Practice Teaching" is to contribute to the development of general theoretical and specific training of the future "health care manager and professor of practice" by studying the patterns, the path, forms, methods and means of training, schooling and development in the process of studying the discipline. This way, future experts will be facilitated in carrying out the overall planning, organization and conduct of practical classes and pre-graduate internships.

**Course content:**

The methodical requirements for planning, organizing and delivering practical training at the higher educational institution for health care experts training are considered a wholesome process by paying attention to each of its components: learning objectives; selection and structuring of the educational content; development and application of different methods and techniques; planning, organizing and conducting the main organizational forms for practical training; types of evaluation control; organizing students' independent tasks.

**Teaching and assessment:**

The training course is carried out in the form of lectures and practical exercises. The following interactive methods are employed: presentation, conversation, discussion, and demonstration, independent tasks in small groups, case studies, reading theater, situational tasks, role-play, and virtual laboratory. The discipline is concluded with a written exam and an oral presentation of methodical elaboration of a practical class.

**SM 15412 Healthcare management**

**ECTS credits: 4**  
**Assessment: exam**

**Weekly classes: 1lec+2sem+0labs+0ps+0,5**  
**Type of exam: written**

**Departments involved:**

Dept. of Management and Business Development, Faculty of Business and Management

Lecturers: Assoc. Prof. Svilena Ruskova, PhD, Department of Management and Business Development, tel: +359 888-617

E-mail: [sruskova@uni-ruse.bg](mailto:sruskova@uni-ruse.bg)

**Annotation:**

The course aims to provide students with some basic managerial skills and expertise. The teaching material is designed in accordance with the students' aspirations of getting theoretical knowledge in the field of management. Theories and methods for planning, organizing, leading, management control, management of conflicts, stress and the change are introduced in the course. Students acquire practical approach to decision making. They analyze and review case studies to develop practical skills for their future career.

**Course content:**

The course includes the following topics: Organizational concept; Management effects and Subject of management; Management decision, Management of conflicts, stress and the change.

**Teaching and assessment:**

The teaching process of the course, along with the classic lecture forms, provides for the use of visual aids. During the seminars are used tests, discussions, debates, situation games are used. Most of the submitted material is supported by appropriate examples. The overall evaluation is built on exam grade and the student's activity during the learning process.

**SM15413 Medical ethics and deontology**

**ECTS credits: 4**  
**Knowledge test form: exam**

**Weekly classes: 2 lectures + 2 practical exercises**  
**Type of exam: written**

**Methodical guide:**

**Department:** Health Care

**Faculty:** Public Health and Health Care

Lecturer: Assistant PhD Professor Nikolina Angelova – **department** Health Care, phone: +359888747347,

E-mail: [nangelova@uni-ruse.bg](mailto:nangelova@uni-ruse.bg)

**Annotation:**

The course in **Medical Ethics and Deontology** is to familiarize students with the main problems in medical ethics and deontology, to help develop ethical sensitivity in the process of their activity and to prepare them for taking management decisions in accordance with legal rules.

**Course content:**

Knowing the essence and mastering the principles of medical ethics and medical deontology; Mastering the principles of medical ethics; Knowing the patient's rights and identifying violations of their rights; Defining responsibility for professional medical activity and medical offenses; Knowing ethical and deontological issues related to reproductive behavior and new reproductive technologies; Developing ethical sensitivity to problems in the care of terminally ill patients; Discussion of health resource allocation issues.

**Teaching and assessment:**

Training is provided in the form of lectures and practical exercises. The methodology of work is in accordance with the specifics of students' training. Practical exercises are conducted in groups. Interactive techniques are used. Current control is carried out on the student's work on each of the lecture and seminar topics. The assessment from the current control is formed by the student's work in the classes and the fulfillment of specific pedagogical tasks. The final grade of the student is formed on the basis of the grades from the current control and the passed semester exam - written and oral.

**SM15414 Methodology of research work**

**ECTS credits:**2  
**Assessment:** exam

**Weekly classes:** 1ec+2sem+0labs+0ps+0,5  
**Type of exam:** written

**Departments involved:**

Department: Health Care

Faculty: Public Health and Health Care

**Lecturers:**

Assoc. Prof. G. Koleva, PhD; Ch. Assoc. Prof. I. Hristova, PhD

E-mail: [gkoleva@uni-ruse.bg](mailto:gkoleva@uni-ruse.bg); [ihristova@uni-ruse.bg](mailto:ihristova@uni-ruse.bg)

**Annotation:**

The course aims to provide students with knowledge of the nature, content, stages and forms of research, the methodology for pursuing them in the field of health care, and research attitudes.

**Course content:**

Choosing a research topic. Structure of research and publications. Collection of data for literature review. Types of studies - descriptive and analytical. Reporting the results of scientific studies. Quotations. Types of citation systems. Design of bibliography

Quotations. Ethical requirements for studies.

**Teaching and assessment:**

The training is conducted in the form of lectures. The following interactive methods are used: presentation, conversation, discussion, demonstration, case studies, situational tasks.

**SM15415 Organization and ergonomics of work in the health care institution**

**ECTS credits:**  
**Assessment:** exam

**Weekly classes:** 2 lectures  
**Type of exam:** written

**Departments involved:**

Management and Business Development Dept., Faculty: Business and Management

Lecturers: Sen. assist. I. Kostadinova, PhD, MBR Dept., Business and Management Faculty, contacts 00359 878 102269, E-mail: [ikostadinova@uni-ruse.bg](mailto:ikostadinova@uni-ruse.bg)

**Annotation:**

The goal of the course "Organization and ergonomics of work in a health care institution" is to give students training in occupational health and safety by adapting working conditions to the individual and improving the organization in the health care facility. The main task of the discipline is related to the complex optimization of the universal ergonomic system (man – equipment - environment).

**Course content:**

The course covers some of the most important issues of ergonomics and organization in a health care facility; upon its successful completion, students should be familiar with classical and contemporary concepts of the importance of medical work, different methods and organization of work to improve the efficiency of the health care facility; methods that make a person's work highly productive and, at the same time, provide comfort and safety to the worker, preserve his health, support his personal, professional and physical development.

**Teaching and assessment:**

The course is taught through lectures and supervised extracurricular work. Semester certification requires 100% attendance of lectures and active participation during their duration. A successful cooperation between students and a lecturer, which consists in utilizing the previously announced consulting hours, individual work with distinguished students.

**SM15416 Management History In Healthcare****ECTS credits: 2****Knowledge test form: exam****Methodical guide:**

Assoc. Prof .Nikolina Angelova, Phd

Assoc. Prof .Daniela Konstantinova Draganova, Phd

Department: Health Care

Faculty: Public Health and Health Care

Academic position: Assistant Professor

E-mail: [nangelova@uni-ruse.bg](mailto:nangelova@uni-ruse.bg) [ddraganova@uni-ruse.bg](mailto:ddraganova@uni-ruse.bg)**Weekly classes: 2 lectures****Type of exam: written****Annotation:**

The purpose of the course is to give an overview of the development of the health care professions, based on the understanding that history must be studied in order to better understand any science. The history of health care studies ancient medicine, the accumulation of new knowledge. The objectives of the course derive from its purpose and are implemented in the thematic areas Health and Health Care through the Ages, Schools in Antiquity, the Middle Ages and the Renaissance, European Health and Health Care in the XX Century - Scientific Discoveries, Nursing Development in Bulgaria and management theory and health care management in the context of different healthcare systems.

**Course content:**

Sources of historical knowledge. Health care over the centuries. In ancient times it was a health and disease. Health care in Ancient Greece. Health care in Ancient Rome, Middle Ages in China, Byzantium and the Arab Caliphates; in Western Europe and Bulgaria. Nursing and health care development in Bulgaria. Management development in healthcare. Occurrence and historical development of professional healthcare organizations in the world. The role of professional organizations in health care management.

**Teaching and assessment:**

Training is provided in the form of lectures. Methods with interactive orientation are used: presentation, discussion, analysis, independent work in small groups, case studies, situational tasks. Current control is conducted in the form of talks, front-end questions, case studies, situational tasks, independent work in small groups. The final grade is formed by the current control and examination graded in the six-point system, with the minimum level of competence required being "average (3)".

**SM15417 Disaster medicine****ECTS credits:2****Assessment: exam****Departments involved:**

Department: Health Care

Faculty: Public Health and Health Care

Lecturers:

Prof. Dr. Hr. Bozov, dm

E-mail: [hr\\_bozov@yahoo.com](mailto:hr_bozov@yahoo.com)**Weekly classes: 1ec+2sem+0labs+0ps+0,5****Type of exam: written****Annotation:**

The discipline "Medicine of Disaster Situations" studies issues related to the specificity of the problems of mass medicine in cases of natural and man-made disasters, accidents and catastrophes in clinical, therapeutic and organizational terms. The purpose of the training is to build knowledge and skills for students' professional attitude towards their duties in the event of any of the above events.

**Course content:**

General characteristics of disasters. Radioactivity. Limit values for radioactive contamination. Radioactive background. Acute radiation syndrome, radiation sickness, radiation burns, Toxic substances with neuro-paralytic activity. Poisonous substances with suffocating action. Sanitary-chemical treatment and expertise of food and drinking water. Basic principles and organization of medical support in emergency situations. Events eradication of biological contamination.

**Teaching and assessment:**

The lectures are conducted according to the classical scheme with visualization by means of multimedia audio-visual means. They use educational films, incentive programs and specialized equipment from the nomenclature of civil protection.

**SM 15418 Quality and safety of healthcare****ECTS credits: 1****Weekly hours: 11****Examination form: examination****Type of Examination: written theoretical exam****Lecturers:**

Assoc. Prof. Despina Georgieva, PhD

**Department:**

Health Care, Faculty: Public Health and Health Care

**Academic position** Assoc. Professor

Email: dpgeorgieva@uni-ruse.bg

**Annotation:**

The purpose of the course is to introduce students to from specialty Healthcare Management with basic trends in the quality and safety of health care. The main goal of medical establishments is to constantly improve the quality of healthcare. Worldwide discussion of patient safety issues is related to the organization of appointments, the adoption of declarations, laws, programs, guidelines and safety practice protocols. Patient safety involves various aspects at three levels: health policy, organizational and clinical practice.

**Course content:**

The content of the program is determined by the profile of the master's program. The purpose of the training is to provide skills and competences that will enable graduates to identify, analyze and solve problems related to the safety and quality of healthcare. Acquiring knowledge and skills to apply different approaches to improving the quality and safety of healthcare. Familiarity with safety regulations, standards, and ISO reduction. Defining the significant role of the health care manager in improving the quality and safety of patients.

**Teaching and assessment:**

The training is conducted through lectures. The following interactive methods are used: presentation, conversation, discussion, small group work, case studies, situational tasks and role-playing games.

**SM 15419 Innovative Educational Technologies****ECTS credits: 1****Weekly classes: 1ec+2sem+0labs+0ps+0,5****Assessment: exam****Type of exam: written**

Departments involved:

Department of Health Care

Faculty of Public Health and Health Care

Lecturers:

Prof. Ivanichka Serbezova, PhD, dept. of Health Care, GSM: +359 888731063, E-mail: iserbezova@uni-ruse.bg

**Annotation:**

The purpose of the Innovative Educational Technologies course is to go beyond the concept of traditionally employed pedagogical methods and to draw attention towards new, modern health care teaching practices which have enormous potential. Tasks include: Stimulating the teacher – student interaction; Provoking students' interest in actual knowledge and overcoming the formal approach in teaching; Clarifying terms and basic concepts used in the educational process of health care professionals, related to digital resources.

**Course content:**

A general idea of educational technology. Characteristic features of innovative educational technologies; Characteristics of the digital generation. The education system and the digital generation; National and European programs and projects for innovative educational technologies; Traditional education; Virtual learning environments; E-learning, mobile and ubiquitous education; Ontodidactic characteristics for educational content selection; Perspectives in educational innovations; Obstacles to innovations.

**Teaching and assessment:**

The training is conducted in the form of lectures. The following interactive methods are employed: presentation, conversation, discussion, demonstration, independent tasks in small groups, case studies, situational tasks, role-play, virtual laboratory. The exam is in written form, followed by oral presentation of a set topic.

**SM15420 Health care management III****ECTS credits: 5****Knowledge test form: exam****Weekly classes: 4 lectures + 3.5 practical exercises****Type of exam: written****Methodical guide:**

Assoc. prof. Daniela Konstantinova Draganova, PhD; Assoc. prof. G. Koleva, PhD; Ch. Assoc. prof. I. Hristova, PhD

Department: Health Care

Faculty: Public Health and Health Care

Academic position: Assistant Professor

E-mail: ddraganova@uni-ruse.bg

**Annotation:**

The purpose of the course Healthcare Management II is to acquire new knowledge and technologies that will guarantee the quality and effectiveness of health care and good health outcomes in dynamically changing and growing health needs; The tasks of the course derive from its purpose and are carried out in the areas related to the specifics in healthcare management, planning and decision making, organizational structure.

**Course content:**

Human Resource Management, Motivation as a Nursing Management Process, Effective Material Management, Control as a Function of Nursing Management, Approaches to Ensuring Quality and Continuing Nursing Care, Staff Performance Evaluation, Health Policy, development of health projects.

**Teaching and assessment:**

Training is provided in the form of lectures and practical exercises. Methods with interactive orientation are used: presentation, discussion, analysis, independent work in small groups, case studies, situational tasks. Current control is conducted in the form of talks, front-end questions, case studies, situational tasks, independent work in small groups. The final grade is formed by the current control and examination graded in the six-point system, with the minimum level of competence required being "average (3)".

**SM15421 Hygiene and ecology of the health establishment****ECTS credits: 2****Assessment: exam****Weekly classes: 2 lec+1sem****Type of exam: written****Departments involved:**

Heat, hydraulics and environmental engineering

Faculty:

Agrarian and Industrial

Lecturers: Assoc. Prof. PhD. Margaritka Filipova, Agrarian-industrial faculty Tel: 082888418, e-mail: mfilipova@uni-ruse.bg

**Annotation:**

The main objective of the training in the discipline Hygiene and ecology of the medical establishment is to acquire theoretical and practical knowledge on the hygiene requirements related to the influence of environmental factors on human health, health of health workers and especially the specific environment in medical establishments.

**Course content:**

The content of the curriculum includes the following modules: Hygiene and environmental standardization of environmental factors; health prevention and hygiene; Pollution characteristics of environmental components; Health norms and requirements for medical establishments; medical waste management; disinfection and sterilization in medical establishments; hygienic and environmental assessment and analysis of physical and chemical factors in medical establishments.

**Teaching and assessment:**

The main forms for conducting the classes are lectures and seminars.

The lectures are held in an audience equipped with visualization tools. The seminars are held immediately after the relevant lecture topic. Tests are conducted to verify and evaluate the teaching content of the lectures. The test and the students' participation in the seminars form an assessment of the current control. The final grade in the discipline is formed after passing the written exam.

**SM15422 Health epidemiology****ECTS credits: 2****Assessment: exam****Weekly classes: 3L****Type of exam: written and oral****Methodical guidance:**

Department of HEALTH CARE, Faculty of PUBLIC HEALTH AND HEALTH CARE

**Lecturers:**Assoc. prof. Mircho Vukov, MD, tel: 028738239, E-mail: [mivukov@gmail.com](mailto:mivukov@gmail.com)**Annotation:**

The course in Health Epidemiology is related to the growing role and importance of the contemporary epidemiology for public health and medicine in the context of evidence-based approaches. The epidemiology and biostatistics are considered the scientific basis of the public health and the evidence-based approaches against the background of the tendency of medical sciences and medical practice to increasingly use quantitative methods to generate data from current high-tech medical equipment. The course introduces to the students the concepts of the subject area and methodology of epidemiological studies, their specific plans, the measurement of epidemiological events, the concepts and methods of biostatistics necessary for processing epidemiological data, interpretation of the results and their presentation to a wider audience and put them into practice. It provides the necessary knowledge and skills for a good understanding of the publications in the medical journals and of the educational and applied medical literature.

**Course content:**

The curriculum includes 15 topics an average of 2 hours per topic.

**Teaching and assessment:**

The main forms for conducting the classes are lectures, they also consider appropriate practical examples, seminars using adequate quantitative methods, and interpretation of the results. Mainly, multimedia presentations are used.

**SM15423 Undergraduateinternship Management ofhealth care****ECTS credits:3****Assessment:exam****Weekly classes: 0 ec+0sem+0labs+0ps+6 p ex****Type of exam:practically****Departments involved:**

Department: Health Care

Faculty: Public Health and Health Care

**Lecturers:**

Asoc. Prof. Despina Georgieva, PhD; Assoc. Prof. Daniela Konstantinova, PhD; Assist. Prof.Greta Koleva, PhD;

Assist. Prof Irinka HristovaPhD;

E-mail: [dpgeorgieva@uni-ruse.bg](mailto:dpgeorgieva@uni-ruse.bg); [ddraganova@uni-ruse.bg](mailto:ddraganova@uni-ruse.bg); [gkoleva@uni-ruse.bg](mailto:gkoleva@uni-ruse.bg); [ihristova@uni-ruse.bg](mailto:ihristova@uni-ruse.bg)**Annotation:**

The pre-diploma internship aims to provide high professional training of students in the field of the studied specialty, to strengthen the acquired practical knowledge and skills during the training, to contribute to the development of practical training and competences for independent solving of organizational and managerial professional tasks that are essential for the exercise of the position of Head of Health Care.

**Course content:**

Acquaintance with the normative documents of the medical establishment. Familiarize yourself with approaches to controlling and motivating nursing staff - developing a system of incentives and penalties. Familiarity with models, techniques and approaches to conflict resolution. Development of nursing documentation. Acquainted with approaches and methods for staff performance evaluation, ward / clinic activity planning. Choosing a problem and proposing a solution by developing: Health care file, Technical datasheet, Care protocol, Timing and more funds.

**Teaching and assessment:**

The trainee is acquainted with the base, staff and organization of work. Introduces himself to the work team and clarifies his specific task. In the next stage of training, the trainee acquires managerial skills and competence to plan and organize health care under the guidance of the senior nurse. The planned activities also include 6 hours work with the head nurse of the medical establishment.



**SM15424 Undergraduate internship Pedagogy****ECTS credits:**3

Assessment: exam

**Departments involved:**

Department: Health Care

Faculty: Public Health and Health Care

**Lecturers:**

Prof. Ivanichka Serbezova, PhD; Asoc. Prof. Despina Georgieva, PhD;

Email: [iserbezova@uni-ruse.bg](mailto:iserbezova@uni-ruse.bg); [dpgeorgieva@uni-ruse.bg](mailto:dpgeorgieva@uni-ruse.bg)

Weekly classes: 0 ec+0sem+0labs+0ps+6 p ex

Type of exam: practically

**Annotation:**

The aim of the undergraduate internship is to provide high professional training of students in the field of the studied specialty, to consolidate the practical knowledge and skills acquired during the training, to contribute to the development of practical training and competences for independent lectures, practical exercises and clinical practice of the Nursing and Midwifery majors. The objectives of the discipline are derived from the objective and are aimed at developing professional pedagogical skills and competences in the field of medical pedagogy and methodology of health care training.

**Course content:**

Familiarity with the basic training documentation for organizing, conducting and controlling the learning process. Regulatory documents concerning the teaching of the Nursing / Midwife specialties. Development of methodological development for conducting Clinical practice and training practical training for the specialties Nurse / Midwife. Getting acquainted with the organization and conducting of a pre-graduate internship. Development of dosimological tools for assessment of knowledge, skills and competences - didactic tests, protocols for assessment of skills, case studies.

**Teaching and assessment:**

Students work in a real-world learning environment under the tutelage of a healthcare teacher. They keep a Trainee's Diary. It reflects the activities they have to perform, a qualitative clinical mentor assessment and a practical exam. The training ends with a practical.

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