

## **COURSE UNIT DESCRIPTION**

Course unit title	Code
FINAL EXAM	

Lecturer(s)	Department(s)
Coordinating:	<sup>1</sup> Clinic of Rheumatology, traumatology-orthopaedics and
Prepared by Assoc. prof. Lina Zabulienė, MD, PhD	reconstructive surgery, Institute of Clinical Medicine,
	Faculty of Medicine;
Others:	<sup>2</sup> Centre of general surgery; Clinic of gastroenterology,
Prof. Tomas Poškus, MD, PhD <sup>2</sup>	nephrourology and surgery, Institute of Clinical Medicine,
Assoc. prof. Mindaugas Šilkūnas, MD, PhD <sup>3</sup>	Faculty of Medicine;
Asist. prof. Sonata Varvuolytė, MD, PhD <sup>4</sup>	<sup>3</sup> Clinic of Obstetrics and Gynaecology, Institute of Clinical
Assoc. prof. Virginija Žilinskaitė, MD, PhD <sup>5</sup>	Medicine, Faculty of Medicine;
	<sup>4</sup> Clinic of Internal Diseases, Family Medicine and Oncology,
	Institute of Clinical Medicine, Faculty of Medicine;
	<sup>5</sup> Clinic of Children's Diseases, Institute of Clinical Medicine,
	Faculty of Medicine

Cycle	Level of the course unit	Type of the course unit
Integrated studies		Compulsory

Mode of delivery	Period of delivery	Language of instruction
Face-to-face	Year VI, semester XII	Lithuanian/English

Prerequisites and corequisites					
Prerequisites:	Corequisites (if any):				
The student must be settled for all subjects provided in	Students must have completed and defended a Master's thesis,				
the study plan.	completed an internship practice and passed an internship				
	exam.				

Number of ECTS credits	Total student's workload	Contact hours	Self-study hours
allocated to the course			
unit			
3	75	4	71

## Purpose of the course unit Programme competences to be developed

To acquire adequate knowledge and skills in medicine and to be able to apply them in practice, to know the structure, functions and behaviour of a healthy and sick person, to know the relations between the state of health and physical and social surroundings of the human being; a good understanding of the scientific methods. To develop the student's professionalism, ability and readiness to work independently and in an interdisciplinary team, to interact with people from different socio-cultural backgrounds, to follow medical ethics and deontology, health and social medicine organization requirements, to make an assessment within the scope of one's competence limits and be able to answer properly for one's actions. To develop a holistic approach to the patient, to be able to recognize acute conditions in a timely and appropriate manner and to provide medical care and life support; to know the epidemiology of diseases, to identify diseases of all ages individuals, their aetiology and major risk factors, symptoms, acute and chronic complications, evaluate the clinical status and vital signs of the patient, to know and apply basic methods of diagnostics, assign targeted examinations and, if indicated such as, to provide additional tests, interpreting the results of tests performed, performing differential diagnostics, understanding the principles of pharmacology, to be able to design a long-term patient care and observation plan, to understand the principles of treatment, and methods of preventing diseases. To be able to collect, systematize, analyse, interpret information, present conclusions and recommendations and plan their actions based on them. To pursue professional development throughout all professional career.

Learning outcomes of the course unit	Teaching and learning methods	Assessment methods
Generic competences		

After successful completion of this semester the		
student will be able:		
	Studying all course units (lectures, seminars and practise workshops in various departments, surgery or procedure rooms of health care institutions (hospitals and outpatient clinics), problematic learning, presentation delivery, analysis of clinical cases and situations, brainstorming, telling, work in small group or pairs, open discussion, creative tasks, error analysis, theoretical modelling, video demonstration of operations, simulation of surgery, summer practice, internship practice; self-study, search for information and literature analysis, analysis of law; clinical case history writing, preparation and presentation of reports); Analysis of questions of Medicine program final exam database; student self-study.	Test
environment and communicate in other foreign languages.		
<b>Subject-specific competences</b> After successful completion of this semester the student will be able:		
Students will be able to apply the achievements of biomedical sciences, principles, skills and knowledge of evidence-based medicine; will be able to consult the patient, to assess clinical signs, perform physical examination and assessment of mental state, to order tests, to interpret results obtained from medical history, physical examination, instrumental and laboratory examinations, to perform differential diagnosis, preliminary assessment of the patient's problems and formulate the diagnosis, treatment and monitoring plans; to prescribe treatment and to write detailed case history.  Students will be able to provide emergency medical aid, including first aid and resuscitation, in trauma, accident, poisoning, acute conditions and illnesses and other life-threatening situations in new-borns, infants, children, adults, at labour and all other situations where no specialist physician is available in place and	Studying all course units (lectures, seminars and practise workshops in various departments, surgery or procedure rooms of health care institutions (hospitals and outpatient clinics), problematic learning, presentation delivery, analysis of clinical cases and situations, brainstorming, telling, work in small group or pairs, open discussion, creative tasks, error analysis, theoretical modelling, video demonstration of operations, simulation of surgery, summer practice, internship practice; self-study, search for information and literature analysis, analysis of law; clinical case history writing,	Test

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in the duties of the of Lithuanian Medicine Norm -	preparation and presentation of	
Medical Doctor: Functions, Rights, Duties,	reports); Analysis of questions of	
Competence and Responsibilities MN7: 1995.	Medicine program final exam	
Students will be able to apply basic principles of	database; student self-study.	
nursing.	-	
Students will know, comply with and apply national		
and European legislation governing the operation of		
healthcare, personal care facilities and the services		
they provide. In the prescribed order will be able to		
complete medical records on results of patient		
examining, treatment and preventive work, to report		
identified or suspected acute infectious disease, food		
poisoning and occupational poisoning, to report violent		
injury to police, to prescribe medicines, death		
certificates and other medical records.		
Students will be able to address public health issues,		
identify disease prevention issues and common risk		
factors for disease prevention, promote occupational		
disease prevention, promote healthy lifestyles, disease		
prevention and health promotion and education, and		
advise individuals on healthy lifestyles and diets using		
health education methodologies, will be able to		
perform preventive vaccinations and organize the		
prevention of communicable diseases.		

	Contact work hours  Time and tasks o self-study
Topics	Lectures Consultations Seminars Practice Laboratory work Practical training  Total contact hours Self-study sys
HEALTH POLICY, PUBLIC HEALTH, ETHICS AND THE BASIS OF COMMUNICATION  Public health and mental health policy, systems of health care, indicators of health assessment and prevention of disorders; impact of water, nutrition, lifestyle, environment, noise, vibration, harmful chemicals and dust, occupational factors, psychological risk factors on individual and public health. Principles of health care organization, social medicine, health law, bioethics, evidence-based medicine, biomedical research, economic and legal aspects of health care services, principles of	3 Studies of the subject literature according to the topic. Analysis of questions of Medicine program final exam database student self-study.
professional contact, nonverbal communication and teamwork.  BASICS OF CLINICAL PHARMACOLOGY  Principles of pharmacology, major classes of medicines, therapeutic drug monitoring, medicines interactions, adverse drug reactions, principles of pharmacovigilance, rational use of medicines, clinical pharmacology of drug use in patients with renal and hepatic impairment, critically ill patients, paediatric and geriatric individuals, pregnancy and lactation, evaluation of	
clinical trials, principles of medicine prescribing.  THE CIRCULATORY (CARDIOVASCULAR SYSTEM) AND DISEASES  The anatomy, physiology, pathology and clinical examination of the circulatory system, principles and assessment of arterial blood pressure measurement and electrocardiography. Evaluation and interpretation of laboratory and instrumental examination of cardiovascular system diseases.  Acute and chronic cardiovascular failure (sudden death, cardiogenic shock, fainting, collapse, pulmonary oedema), atherosclerosis, chest pain, coronary artery disease (angina pectoris, acute coronary syndromes, myocardial infarction, post-	4

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infarction cardiosclerosis), aortic diseases, rhythm and					
conduction disorders (tachyarrhythmias, paroxysmal rhythm of					
the heart, bradyarrhythmia, Morgagni-Adams-Stokes attack,					
etc.), arterial hypertension (primary and secondary, hypertensive					
crises), dyslipidaemia, cardiomyopathies, myocarditis,					
pericardial disease, acute pulmonary embolism, pulmonary					
hypertension, chronic pulmonary heart, valvular heart disease,					
infective endocarditis, congenital heart disease, congenital heart					
disease in new-borns and infants; peripheral and visceral artery					
occlusive disease, limb artery embolism; diabetic foot,					
congenital vascular malformations, chronic venous disease, deep					
vein thrombosis, lymphatic system pathology, cardiac					
arrhythmias and other conditions requiring long-term					
antithrombotic treatment: epidemiology, major risk factors,					
aetiology, symptoms, complications, diagnostic options,					
differential diagnosis, emergency medical care, treatment					
principles, long-term observation, indications for					
hospitalization, oxygen therapy, surgical treatment and heart					
transplantation, principles of surgical treatment, methods of					
preventing cardiovascular diseases.					
Principles of first aid (cardiopulmonary resuscitation, artificial					
respiration, defibrillation and medications) in cases of					
ventricular fibrillation, cardiac asystole and electromechanical					
cardiac dissociation.					
RESPIRATORY SYSTEM AND DISEASES		$\Box$		4	
Respiratory system anatomy, physiology, pathology and clinical					
examination. Principles and assessment of lung functions					
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testing, non-apparatus oxygen therapy, pleural puncture					
(thoracocentesis), sputum examination, radiological methods of					
lungs examination. Evaluation and interpretation of other					
laboratory and instrumental examination of respiratory diseases.					
Clinical pulmonary syndromes, differential diagnosis of cough,					
bronchial obstruction and dyspnoea, smoking injury and					
treatment methods.					
Upper respiratory tract infection, acute and chronic bronchitis,					
chronic obstructive lung disease, acute pneumonia, bronchial	1 1				
chrome obstructive rung disease, acute pheumoma, bronemar					
and have the series and the series and the series and the series and					
asthma (bronchial asthma attack, asthmatic condition), dry and					
exudative pleurisy, bronchiectasis, interstitial lung diseases,					
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Benign diseases of the oesophagus, stomach and duodenum						
(reflux oesophagitis, acute and chronic gastritis, ulcer) and						
tumours, eating disorders, gallbladder and ductal diseases						
(gallstones, cholecystitis, syndrome), pancreas, liver disease,						
acute and chronic liver failure; small bowel diseases,						
appendicitis, colonic diseases, intestinal obstruction, irritable						
bowel syndrome, constipation, rectal and anal canal diseases,						
abdominal hernias, peritonitis, abdominal trauma,						
gastrointestinal bleeding: epidemiology, major risk factors,						
aetiology, symptoms, complications, diagnostic options,						
differential diagnosis, emergency medical care, principles of						
treatment, long-term follow-up, indications for hospitalization						
and surgery, principles of surgical treatment, metabolic and						
endocrine surgery and abdominal organ transplantation,						
principles of dietary treatment of patients with gastrointestinal						
diseases, and methods of preventing digestive diseases.						
CONNECTIVE TISSUE AND MUSCULOSKELETAL					4	
SYSTEM AND DISEASES						
Anatomy, physiology, pathology and clinical examination of						
connective tissue and musculoskeletal system. Geriatric						
examination of the elderly. Evaluation and interpretation of joint						
function, radiographs of joints and bones, other laboratory and						
instrumental examination of connective tissue and						
musculoskeletal disorders.						
Rheumatoid arthritis, undifferentiated arthritis,						
dermatomyositis, myopathies, rheumatoid arthritis, Sjogren's						
syndrome, rheumatic fever, arthritis associated with infections,						
microcrystalline arthritis (gout, chondrocalcinosis), systemic						
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lupus erythematosus, antiphospholipid syndrome, vasculitis,						
systemic sclerosis, ankylosing spondylitis, spondylarthritis,						
degenerative joint and spinal disorders (coxarthrosis,						
gonarthrosis, osteochondrosis), fibromyalgia, osteoporosis,						
periarthropathies of hand, elbow, shoulder, hip, knee and foot,						
(tendovaginitis, bursitis, ligamentitis), gait and balance						
disorders, wounds, bone fractures, dislocations, joint and spinal						
injuries, polytrauma, tunnel syndromes, nerve trauma and foot						
nerve pathology, bone and cartilage tumours: epidemiology,						
major risk factors, aetiology, symptoms, complications,						
diagnostic options, differential diagnosis, emergency medical						
care, treatment principles, indications for hospitalization and						
surgery, principles of surgery and methods of preventing						
connective tissue an musculoskeletal diseases.						
Principles of bleeding control, application of soft and plaster						
bandages, immobilization of hand and foot bone fractures,						
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endoprosthesis and skin plastics and their application.	$oxed{oxed}$					
GENITOURINARY SYSTEM AND DISEASES					4	
Anatomy, physiology, pathology and clinical examination of the						
urogenital system and renal function. Evaluation and						
interpretation of laboratory and instrumental examination of						
diseases of the urogenital system. Principles of bladder						
catheterization and kidney biopsy.						
Acute renal injury, glomerulopathies, nephropathies, other renal						
diseases, urogenital tract infection (cystitis, acute and chronic						
pyelonephritis, urosepsis), urinary stone disease, renal colic,						
obstructive uropathy, dysuria, female and male urinary						
incontinence, acute and chronic renal failure, chronic kidney						
disease, prostate, kidney, bladder and testicular cancer,						
urological trauma: epidemiology, major risk factors, aetiology,						
symptoms, complications, diagnostic options, differential						
diagnosis, emergency medical care, treatment principles, long-						
term monitoring, indications hospitalization, renal replacement						
therapy (haemodialysis, peritoneal dialysis), surgical treatment,						
kidney transplantation, and application principles, methods of						
preventing urogenital diseases.	1					

ENDOCRINE SYSTEM AND DISEASES Anatomy, physiology, pathology and clinical examination of the endocrine system. Evaluation and interpretation of laboratory and instrumental examination of endocrine disorders. Hormone secretion disorders of ametior pitulary, thyroid, parathyroid and adrenal glands, thyrotoxic crisis, myxedemic coma, adrenal hyperplasia, acute and chronic diabetic complications, gonadal hormones and their role in reproduction, sex chromosome diseases (Aneupoids – Turner and Klinefelter syndromes): epidemiology, major risk factors, actiology, symptoms, complications, diagnostic options, differential diagnosis, emergency medical care, treatment principles, long-term follow-up, indications for hospitalization and surgery, methods of preventing endocrine diseases.  BLOOD AND HAEMOPOETIC SYSTEM AND DISEASES Anatomy, physiology, pathology and clinical examination of the blood and hematopoicit diseases.  Iron, vitamin B12 and folic acid deficiency amaemia, lymphatic system pathology, lymphoproliferative diseases, acute leakaemia, chronic leukemia, paraproteinemia, thrombosis and blocding syndrome, haemophilia, disseminated intravascular congulation: epidemiology, major risk factors, actiology, symptoms, complications, diagnostic options, differential diagnostics, emergency medical care, treatment principles, long-term follow-up, indications for hospitalization, surgery and bone marrow transplantation, principles of treatment and clinical transfusion, membrase diseases, fungal infections, porionis, differential diagnostics, emergency medical care, treatment principles, long-term follow-up, indications for hospitalization surgery and bone marrow transplantation, principles of treatment and clinical transfusion, membrase diseases, surgial minertions, porionis, defirmatitis, photodermatoses, acne and acne related diseases, rosace, sexually transmitted infections, AIDS and skin diseases, prevancerous skin diseases and benign skin tumous, analignont skin tumours, allergic dermatitis, photodermatoses, acne and				-	_			
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nervous system. Evaluation and interpretation of laboratory, functional and instrumental examination of the nervous system							•	
functional and instrumental examination of the nervous system								
lumbar and abdominal pain.	lumbar and abdominal pain.							
Disorders of sensation and somatic sensation, central and								
peripheral paralysis, pyramidal, extrapyramidal and	peripheral paralysis, pyramidal, extrapyramidal and							

coordination disorders, seizures, cranial nerves disorders,					
cerebral cortical dysfunction, disorders of autonomic nervous					
system, peripheral nervous system disorders, cerebrovascular					
diseases, infectious diseases of nervous system, headache,					
dementia and other cognitive disorders, epilepsy, disturbances of					
consciousness, demyelinating disorders of the central nervous					
system, neuromuscular disorders, diseases of motoneuron,					
craniocerebral trauma, brain tumours, cerebrovascular					
abnormalities, pathology of carotid and vertebral arteries, spinal					
injury, degenerative disorders of spine, oncological disorders of					
spine and spinal cord, disturbances of circulation of					
cerebrospinal fluid, neurosurgical disorders in children:					
epidemiology, major risk factors, aetiology, symptoms,					
complications, diagnostic options, differential diagnosis,					
emergency medical care, treatment principles, long-term follow-					
up, indications for hospitalization surgical treatment and					
functional neurosurgery, principles of surgical treatment,					
methods of preventing of nervous system diseases.					
methods of preventing of her vous system diseases.					
PRINCIPLES OF COMMUNICABLE DISEASE AND				2	
EPIDEMIOLOGY					
Indicators and research in epidemiology, epidemiology,					
prevention and management principles of communicable					
infectious diseases, basics of immunoprophylaxis, principles of					
organization of anti-epidemic measures in case of suspicion of					
extremely dangerous infection.					
Interpretation and evaluation of microbiological, laboratory and					
instrumental examination of communicable diseases. Degrees of					
dehydration.					
Acute infectious diseases (typhoid, paratyphoids, intestinal					
salmonellosis and other food toxic infections, botulism), viral					
diarrhoea, yersiniosis (intestinal yersiniosis and					
pseudotuberculosis), protozoal diseases, shigellosis,					
respiratory infections, diphtheria, streptococcal tonsillitis,					
mycoplasma infection, chlamydial pneumonia, pneumococcal					
infection, legionellosis, rickettsiosis, infection caused by Herpes					
family viruses, bacterial and viral meningitis, meningococcal					
meningitis, extremely dangerous infections (cholera, plague,					
yellow butterfly), sepsis, infectious-toxic shock, tick-borne					
diseases, traveller diseases, zoonoses, HIV infection, AIDS and					
opportunistic infections, human papillomavirus infection, polio,					
tetanus, rabies, rose, cellulitis, skin infections following animal					
bites: epidemiology, major risk factors, aetiology, symptoms,					
complications, diagnostic options, differential diagnosis,					
emergency medical care, treatment principles, long-term follow-					
up, indications for hospitalization and methods of preventing					
communicable infectious diseases.					
MENTAL AND BEHAVIUORAL DISORDERS				3	
General psychopathology, schizophrenia, eating disorders,					
inorganic sleep disorders, depression, bipolar affective disorder,					
organic and symptomatic psychiatric disorders, personality and					
behavioural disorders, somatoform and dissociative disorders,					
anxiety and stress disorders, psychoactive substance abuse,					
autism spectrum disorders, other developmental disorders,					
behavioural disorders in children and adolescents, hyperkinetic					
· ·					
disorders, emotional disturbances in children and adolescents,					
tics, enuresis: epidemiology, major risk factors, aetiology,					
symptoms, complications, diagnostic options, differential					
diagnosis, treatment principles, long-term follow-up, indications					
for hospitalization and methods of mental and behavioural					
disorders.					
Violence against children, peculiarities of adult age-related					
mental disorders in childhood and adolescence, suicidal					

behaviour, basics of social psychiatry, biological methods of treatment, directions and basics of psychotherapy, principles of integrated child and family care.			
BASICS OF CLINICAL GENETICS  Genetic counselling. Bioethical and legal issues in clinical genetics. Genealogy analysis. Rare diseases. Multiple Diseases. Elements of morphology: phenotypic evaluation of head, face, ears, eyes, nose, mouth, extremities. Databases used for differential diagnosis in clinical genetics. Chromosomal diseases (sex chromosome aneupoids, autosomal trisomies, microdeletion syndromes). Clinical syndromology. Syndromes associated with craniofacial contour, affected faces, proportionally short stature, bone and connective tissue pathology, overgrowth and postnatal onset obesity, premature aging, skin and mucosa. Monogenic diseases mainly affecting the central nervous system, respiratory system, cardiovascular system, hematopoietic system, urogenital, digestive and endocrine system. Inherited peripheral nervous system and muscle disorders. Hereditary metabolic diseases (phenylketonuria, tyrosinemia, type I, urea synthesis disorders, galactosemia). Disorders of energy metabolism. Mitochondriopathies. Disorders of fatty acid oxidation. Mucopolysaccharidoses. Prenatal diagnosis and genetic counselling. Preimplantation genetic diagnostics.		3	
CHILDREN DISEASES  Stages and characteristics of the physical and mental development of healthy child, maturity and physiological development of the new-born; Paediatric anatomical and physiological peculiarities of different organ system, clinical examination of different age child. Care of a healthy and sick child, natural, formula, mixed and additional infant feeding, feeding of elder children, dentition and dental change; rickets, spasmophilia. Evaluation and interpretation of laboratory and instrumental examination in children, peculiarities of children's electrocardiogram. Immunoprophylaxis in children. Initial resuscitation of new-born and child.  Transient neonatal conditions, common neonatal disorders: haemolytic, haemorrhagic, common embryopathy and fetopathy, prenatal infection and neonatal sepsis, perinatal hypoxia.  Children congenital and acquired heart diseases, paediatric inflammatory heart diseases in children: myocarditis, infectious endocarditis, pericarditis, cardiomyopathies, acute heart failure, inherited arrhythmias, paroxysmal tachycardia.  The most common respiratory system diseases in children: acute upper respiratory tract infections, acute bronchitis, pneumonia, upper and lower airway obstruction, acute respiratory failure, bronchial asthma, respiratory system abnormalities in neonates and children, foreign bodies of respiratory tract.  The most common diseases and functional disorders of the gastrointestinal tract in children: diseases of children oesophagus and stomach, malabsorption syndrome and celiac disease, functional disorders of digestive tract and constipation.  Common urinary tract disorders and urinary disorders in children:		7	

disease, acute adrenal disorders, congenital adrenogenital	
syndrome, disorders of growth and puberty.	
Children's seizures, epilepsy, non-epileptic seizures, children	
developmental disorders, cerebral palsy, congenital	
neuromuscular diseases.	
The most common allergic diseases in children: skin allergies,	
digestive allergies, allergic rhinitis and conjunctivitis, feeding of	
allergic child, toxic epidermal necrosis.	
Bacterial gastrointestinal infections (salmonellosis, shigellosis,	
esherichiosis, campylobacteriosis, yersiniosis,	
pseudotuberculosis), viral gastrointestinal infections. Viral	
infections: measles, rubella, chickenpox, shingles, <i>Herpes</i>	
<i>simplex</i> infection, sudden exanthema, infectious mononucleosis,	
mumps, parvovirus infection. Bacterial infections: scarlet fever,	
pertussis, parapertussis, <i>Haemophilus influenzae</i> infection,	
meningococcal infection, streptococcal infection, diphtheria in	
children; helminthiasis.	
Urgent pediatric surgical diseases of abdominal organs: acute	
appendicitis, acquired and congenital bowel obstruction, trauma	
of abdominal and retroperitoneal organs, gastrointestinal foreign	
bodies of gastrointestinal tract. Benign tumours (hemangiomas,	
lymphangiomas, teratomas), and malignant tumours	
(neuroblastoma, hepatoblastoma, teratoblastoma). Purulent	
diseases of children: acute hematogenous osteomyelitis, dermal	
and subdermal infections, destructive pneumonia and its	
complications. Congenital malformations of the urinary and	
urogenital systems, urinary tract stone disease,	
nephroboblastoma. The most common paediatric orthopaedic	
abnormalities, paediatric traumas and accidents: bone fractures,	
neurotrauma, burns, chilblains.	
Epidemiology, major risk factors, aetiology, symptoms,	
complications, diagnostic options, differential diagnosis,	
emergency medical treatment, principles of treatment, long-term	
follow-up, indications for hospitalization and surgery, principles	
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emergency medical care, principles of treatment, indications for						
hospitalization and surgery, methods of preventing eye diseases.						
EARS, NOSE AND THROAT DISEASES				2		
Ear, nose, throat anatomy, physiology, pathology and clinical						
examination. Evaluation and interpretation of laboratory and						
instrumental examination.						
Otitis, mastoiditis, tympanofibrosis, labyrinthitis, dizziness,						
intracranial otogenic complications, Meniere's disease,						
sensorineural hearing loss, otosclerosis, nose obstruction,						
rhinitis, nasal furuncle, haematoma and abscess of the nasal						
septum, deviated septum of the nose, epistaxis, sinusitis,						
intraorbital and intracranial complications, tumours of the nose,						
pharyngitis, paratonzillar, parapharyngeal and retropharyngeal						
abscesses, tonsillitis, laryngitis, stenosing laryngitis, voice						
diseases, benign and malignant larynx tumours: epidemiology,						
major risk factors, aetiology, symptoms, complications,						
diagnostic options, emergency medical care, principles of						
treatment, indications for hearing aids, hospitalization and						
surgical treatment, methods of preventing ear, nose and throat						
diseases.						
MALIGNANT TUMOURS			$\dashv$	1		
Epidemiology of malignant tumours, major risk factors,						
aetiology, symptoms, progression, acute conditions,						
complications, lymphadenopathies, paraneoplastic syndromes,						
diagnostic options, evaluation and interpretation of laboratory						
and instrumental examination, differential diagnosis, principles						
of treatment and palliative care, indications for radiation,						
chemotherapy, surgical and other specific treatments, bone						
marrow transplantation, and prevention of oncological diseases.						
marrow transplantation, and prevention of oncological diseases.						
CRITICAL CONDITIONS, POISONING AND BASICS OF				6		
ANAESTHESIA				0		
Basic and advanced life support (external cardiac massage and						
Basic and advanced life support (external cardiac massage and artificial respiration, oral and nasopharyngeal cleansing,						
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body, antidote therapy), forms of prevention measures and information management.  Types, principles and complications of anaesthesia, principles of infusion and transfusion therapy, pharmacotherapy of critical illness, basics of homeostasis correction, electrolyte disbalance, metabolic control, acid-base balance disorders, pain physiology and pharmacology; Enteral and parenteral nutrition: evaluating the deterioration of and individual needs for nutrition, setting the nutrition-plan, and its specifics in different critical states of patients.					
PHYSIOLOGY AND PATHOLOGY OF PREGNANCY Physiology of pregnancy, multiple pregnancy, adolescent pregnancy, development of foetus, physiology of labour, antenatal assessment of foetal wellbeing and foetal wellbeing assessment in labour, evaluation of new-born health, physiology of puerperium, peculiarities of breastfeeding. Chronic illnesses and medication use during pregnancy planning, pregnancy and feeding. Prenatal diagnosis of hereditary diseases and congenital defects, evaluation and interpretation of laboratory and instrumental examination of the pregnant women and foetus. Antenatal care in outpatient clinic, peculiarities of care of labour in term, preterm and postterm labour, care and treatment of healthy and preterm new-born, transitive new-born conditions. Principles of normal labour mechanisms, first neonatal toilet, maternal care during the placental period, labour induction and stimulation, obstetrical operations.  Hypertension disorders in pregnancy, preeclampsia, eclampsia, HELLP syndrome, haemorrhage in pregnancy, labour and postpartum, perinatal infection, multiple pregnancy: complications in pregnancy and labour, labour distortion, malpresentations and malpositions of foetus, Rh isoimmunization: epidemiology, major risk factors, aetiology, symptoms, complications, diagnostic options, differential diagnosis, emergency medical care, principles of treatment, indications for hospitalization, indications for surgery.				2,5	
GYNECOLOGICAL DISEASES  Age related anatomy, physiology, pathology, and clinical examination of the women reproductive system. Peculiarities of normal and pathological puberty, perimenopausal and postmenopausal period. Family planning and infertility issues. Evaluation and interpretation of laboratory and instrumental examinations important to diagnose gynaecological disease. Gynaecologic problems in girls, menstrual cycle disorders, benign and malignant lesions of external genitalia, benign and malignant cervical lesions, polycystic ovary syndrome, hyperandrogenaemia, ovarian benign and malignant tumours, endometrium hyperplasia, polyps and cancer, uterine leiomyomas, endometriosis, chronic pelvic pain, gynaecological diseases and disorders of urinating, urgent situations in gynaecology: epidemiology, major risk factors, aetiology, symptoms, complications, diagnostic options, differential diagnosis, emergency medical care, first aid in uterine bleeding, principles of treatment, indications for hospitalization and surgical treatment, principles of surgical treatment and methods of preventing gynaecological diseases.				2,5	
BASICS OF NURSING Nursing classification, types, infection control in health care institutions and asepsis, work safety and hygiene, hands and medical devices' hygiene, safe environment. Patient's personal hygiene, environment and mobility issues, eating and drinking, body temperature control issues and nursing, hyperthermia, hypothermia, urinary and defecation issues and nursing, drug administration.				2	

BASICS TO PHYSICAL MEDICINE AND				1	
REHABILITATION					
Principles of rehabilitation, physical therapy and occupational					
therapy, principles of social, psychological and professional					
rehabilitation, teamwork in rehabilitation, biopsychosocial					
functions, physical and functional capacity, health promoting					
physical activity, determination of disability and working					
capacity, speech and swallowing disorders and their correction.					
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BASICS OF FORENSIC MEDICINE				1	
Principles of thanatology and forensic psychiatry; deontology					
and ethics of forensic medicine; influence of external factors to					
the human body, hypothermia, frostbite, overheating, burn,					
asphyxia and its types, drowning, sexual crimes, gunshot					
wounds, stab-wounds, cut-wounds, bone fracture mechanisms,					
injuries caused by physical and chemical factors, effects of					
electricity on human body, injuries caused by mechanical					
factors, health impairment level evaluation.					
Total	4			71	

Assessment	Weight	Assessment	Assessment criteria
strategy	(%)	period	
Examination	100 %	After XII semester	Knowledge of course is evaluated by 10 points system:  10 point — excellent knowledge and skills, synthesis and understanding, knowledge application level, the student mastered the studied material well, is able to analyse and summarize, accurately uses the concepts and terms, detailed and correct answers to all questions, approximate percentage of required knowledge 93–100 % of questions answered correctly;  9 point — strong, good knowledge and abilities, approximate percentage of required knowledge 83,7–92,9 % of questions answered correctly;  8 point — better than average knowledge and abilities, understanding and knowledge application level, the student ably mastered the studied material, is able to organize and summarize, and uses correctly the concepts and terms, might be some minor isolated non-essential errors, approximate percentage of required knowledge 75,3–83,6 % of questions answered correctly;  7 point — average knowledge and abilities, understanding and knowledge application level, nonessential mistakes, no more than two significant error responses, approximate percentage of required knowledge 66,9–75,2 % of questions answered correctly;  6 point — knowledge and abilities worse than average, approximate percentage of required knowledge and abilities, adequate to minimal requirements, understanding and knowledge application level, lots of errors, approximate percentage of required knowledge application level, lots of errors, approximate percentage of required knowledge application level, lots of errors, approximate percentage of required knowledge 50,1–58,4 % of questions answered correctly;  4 point and less — minimal requirements not fulfilled, student's knowledge is
			insufficient, terms and concepts used incorrectly:  4 point – approximate percentage of required knowledge 40–50,0 % of questions answered correctly;
			3 point – approximate percentage of required knowledge 30–39,9 % of questions answered correctly;
			2 point – approximate percentage of required knowledge 20–29,9 % of questions answered correctly; 1 point – approximate percentage of required knowledge < 20 % of questions
			answered correctly.

Author  Coordinating lecturer	Year of publica tion	Title  Name of module, where required and recommended readings are recorded	No of periodic al or vol. of publicat ion	Publication place and publisher or Internet link
Required reading				

R. S. Ašoklis	2017	Eye diseases	-	https://is.vu.lt/pls/klevas/logon
V. Paliulytė	2017	Obstetrics	-	https://is.vu.lt/pls/klevas/logon
J. Šipylaitė	2017	Anaesthesiology and Reanimathology	-	https://is.vu.lt/pls/klevas/logon
E. Lesinskas	2017	Ear, nose, throat diseases	-	https://is.vu.lt/pls/klevas/logon
S. Petraitienė	2017	General Paediatrics and Neonatology	-	https://is.vu.lt/pls/klevas/logon
A. Gintautas	2017	Pharmacology		https://is.vu.lt/pls/klevas/logon
G. Sadauskaite	2017	Gastroenterology and abdominal	_	https://is.vu.lt/pls/klevas/logon
o. Buduuskuite	2017	surgery		https://is.va.it/pis/kievas/iogon
Ž. Bumbulienė	2017	Gynaecology	_	https://is.vu.lt/pls/klevas/logon
S. Glaveckaitė	2017	Cardiology and cardiovascular	_	https://is.vu.lt/pls/klevas/logon
~		surgery		
J. Gulbinovič	2017	Clinical pharmacology, drug approval	-	https://is.vu.lt/pls/klevas/logon
		and safety		
B. Tumienė	2017	Clinical genetics	_	https://is.vu.lt/pls/klevas/logon
A. E. Tamošiūnas	2017	Clinical radiology	_	https://is.vu.lt/pls/klevas/logon
J. Šipylaitė	2017	Critical Care Medicine,	-	https://is.vu.lt/pls/klevas/logon
1 3		Transfusiology and Toxicology		
D. Karčiauskaitė	2017	Laboratory medicine	_	https://is.vu.lt/pls/klevas/logon
E. Gefenas	2017	Medical ethics	-	https://is.vu.lt/pls/klevas/logon
J. Dadonienė	2017	Research methods and biostatistics	_	https://is.vu.lt/pls/klevas/logon
L. Rimševičius	2017	Nephrology and Urology	_	https://is.vu.lt/pls/klevas/logon
D. Jatužis	2017	Neurology and Neurosurgery	_	https://is.vu.lt/pls/klevas/logon
S. Lesinskienė	2017	Psychology, professional		https://is.vu.lt/pls/klevas/logon
5. Lesinskiene	2017	Communication and Psychosomatic		11ttps://13.vu.1t/p15/kievus/10g0ff
		Medicine Medicine		
S. Lesinskienė	2017	Psychiatry, child and adolescent	_	https://is.vu.lt/pls/klevas/logon
b. Lesinskiene	2017	psychiatry, psychotherapy		11ttps://13.vu.1t/p15/kievus/10g0ff
E. Danila	2017	Pulmonology, phthisiology and	_	https://is.vu.lt/pls/klevas/logon
E. Danna	2017	thoracic surgery, clinical		11ttps://13.vu.10.pis/kievus/10g0ii
		immunology		
I. Butrimienė	2017	Rheumatology, gerontology,	_	https://is.vu.lt/pls/klevas/logon
1. 2 w	2017	endocrinology		https://isivania/pis/inic/vas/isgon
A. Beržanskytė	2017	Social medicine. Health Law and	_	https://is.vu.lt/pls/klevas/logon
11. 2 012	2017	Economics		littps://isivania.pis/init/vas/iogon
J. Stasiūnienė	2017	Forensic medicine	-	https://is.vu.lt/pls/klevas/logon
N. Porvaneckas	2017	Traumatology, orthopaedics, plastic	-	https://is.vu.lt/pls/klevas/logon
111 1 01 / 4110011415	2017	and reconstructive surgery		littps://isivania/pis/init/vas/isgon
L. Jančorienė	2017	Infectious diseases and epidemiology	_	https://is.vu.lt/pls/klevas/logon
R. Kemežys	2017	Children diseases, paediatric surgery	-	https://is.vu.lt/pls/klevas/logon
V. Šapoka	2017	Differential diagnosis of internal	_	https://is.vu.lt/pls/klevas/logon
v. Supoku	2017	medicine, haematology and family		https://is.va.it/pis/kievas/iogon
		medicine		
V. Ožeraitienė	2017	Fundamentals of Internal Medicine	_	https://is.vu.lt/pls/klevas/logon
v v o zerwinene	2017	and Nursing		licepon, io. valua pio, inie vao, iogon
M. Jakubauskienė	2017	Public health	-	https://is.vu.lt/pls/klevas/logon
Ministry of health	2022	Dėl Lietuvos medicinos normos MN	_	Available from: V-930 Dėl
ivinition of incurren		7:2022 "Medicinos gydytojas"		Lietuvos medicinos normos
		patvirtinimo" 2022 m. gegužės 9 d.		MN 7:2022 "Medicinos
		Isakymas Nr. V-930 [angl. – Order		gydytojas" patvirtinimo (e-
		"On the approval of the Lithuanian		tar.lt)
		medical norm "Medical doctor" MN		<u></u>
		7:2022, adopted in 2022 May 9]		
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