



COURSE UNIT (MODULE) DESCRIPTION

Course unit (module) title	Code
Internship	

Lecturer(s)	Department(s)
Coordinator: Assoc. Prof. Dr A. Klimašauskas Other(s): Prof. T. Poškus; Prof. D. Ramašauskaitė; Prof. Čerkauskienė; Prof. Šapoka; Jr. Asst. P. Uksas	Vilnius University, Faculty of Medicine, Institute of Clinical Medicine

Study cycle	Type of the course unit (module)
Integrated studies (first and second cycle)	Compulsory

Mode of delivery	Period when the course unit (module) is delivered	Language(s) of instruction
Gaining practical skills in internal diseases, surgery and traumatology, obstetrics and gynaecology, children's diseases, and working in emergency units and ambulances.	Semesters 11 and 12	Lithuanian, English

Requirements for students	
Prerequisites: Have completed the previous course subjects	Additional requirements (if any):

Course (module) volume in credits	Total student's workload	Contact hours	Self-study hours
53	1431	1375	56

Purpose of the course unit (module): programme competencies to be developed		
To improve the practical knowledge and skills acquired while studying in the medical study programme. To gain additional skills and abilities required for independent work according to the Lithuanian Medical Standard 'Medical Doctor'. To get prepared for the Medical Doctor's professional life and residency training.		
Learning outcomes of the course unit (module)	Teaching and learning methods	Assessment methods
General Competencies Upon successful completion of this module, students will be able to:		
Act with integrity; think critically and self-critically; be empathetic, creative, initiative, and follow ethical commitments.	Developing knowledge, clinical skills and attitudes by working with the Internship supervisor or their dedicated doctor or paramedic in pre-designated healthcare institutions and ambulances. Each cycle starts with an introduction: a discussion of expectations, goals and objectives with the cycle supervisors. Work using simulators. Presentation of clinical cases.	Each cycle ends with an evaluation of the cycle in the presence of interns.
Act independently, organise and plan one's activities, assess the limits of one's competencies, and ask for help when needed; solve problems and take decisions, especially in unfamiliar situations; communicate and cooperate within a		

<p>team.</p>		
<p>Show respect, open-mindedness and interest in other cultures and subcultures; analyse and critically evaluate different cultural contexts; work in an international and multicultural environment; and develop a general knowledge of non-medical sciences.</p>		
<p>Share, and encourage others to share all the information they need to work effectively as a team.</p>		
<p>Proactively care for one’s emotional, mental and physical health and well-being.</p>		
<p>Identify complex work and social problems; strive for the most appropriate solutions to problems.</p>		
<p>Demonstrate open-mindedness towards various ideas and perspectives; be able to see new opportunities in change; and strive to acquire the competencies needed for future transitions.</p>		
<p>Continue with further studies, informal learning and lifelong learning, apply the gained knowledge and skills in practice, and teach others.</p>		
<p>Specific Competencies Upon successful completion of this module, students will be able to:</p>		
<p>Use the information and IT effectively, and maintain proper documentation and electronic databases.</p>	<p>Learning while working with the Internship supervisor or their dedicated doctor or paramedic in pre-designated healthcare institutions and ambulances.</p> <p>Each cycle starts with a discussion with the cycle supervisors and interns.</p>	<p>Each cycle ends with an evaluation of the cycle in the presence of interns.</p>
<p>Communicate and collaborate professionally and effectively with patients or the parents/guardians of a patient (infant or child):</p> <ul style="list-style-type: none"> • to clarify and describe the reason for the patient’s admission; explain to the patient or their parents/guardians the understanding of the reason for the patient’s admission; • to understand the patient’s perspective and listen to the patient’s or their parents’/guardians’ concerns about their ailments; • to explain the diagnosis and further tests and treatment, and discuss and plan such treatment and tests with the patient or their parents/guardians; • to encourage the patient or their parents/guardians to cooperate during the consultation and become involved in the treatment; • at the end of the consultation to ensure that 	<p>Learning while working with the Internship supervisor or their dedicated doctor or paramedic in pre-designated hospitals, clinics and ambulances. The supervisors and institutions are selected from a list drawn by the coordinators. The priority for selecting the supervisor and the institution is the average grade. Each cycle starts with a discussion with the cycle supervisors and interns. Each cycle ends with an evaluation of the cycle in the presence of interns.</p>	<p>Each cycle ends with an evaluation of the cycle in the presence of interns.</p>

<p>the patient, their representative, and parents/guardians have understood all the information provided.</p>		
<p>Accurately collect the necessary information about the patient and their illness, and perform a general examination of the patient:</p> <ul style="list-style-type: none"> • to collect medical, lifestyle, social and family case history; • to perform a physical examination of the patient; • to perform a basic neurological assessment of the patient (assessing the patient’s state of consciousness, pupils, speech, motor skills and senses); • to assess primary psychiatric condition; • to draft a provisional diagnosis; • to assess the patient’s condition and provide first aid for respiratory, circulatory and consciousness issues; • to assume, based on clinical evidence, whether the person is under the influence of alcohol or psychoactive substances; • to monitor and assess the indicators and dynamics of vital functions; • to recognise and document the signs of death. 	<p>Learning while working with the Internship supervisor or their dedicated doctor or paramedic in pre-designated hospitals, clinics and ambulances. The supervisors and institutions are selected from a list drawn by the coordinators. The priority for selecting the supervisor and the institution is the average grade. Each cycle starts with a discussion with the cycle supervisors and interns. Each cycle ends with an evaluation of the cycle in the presence of interns.</p>	<p>Each cycle ends with an evaluation of the cycle in the presence of interns.</p>
<p>Administer the tests needed to diagnose diseases, conditions and disorders within the scope of the doctor’s competence, and assess and interpret the results of:</p> <ul style="list-style-type: none"> • general urine test; • general blood test; • biochemical blood and urine tests; • coagulation tests; • ABO and Rh (D) blood group tests; • infectious marker tests; • faecal tests (faecal occult blood test, coprogram); • ECG; • pulse oximetry; • radiological examination based on the location of the suspected pathological condition; • ultrasound examination based on the location of the suspected pathological condition; • endoscopic examination of the alimentary tract—oesophagogastroduodenoscopy and colonoscopy. 	<p>Learning while working with the Internship supervisor or their dedicated doctor or paramedic in pre-designated healthcare institutions and ambulances. The supervisors and institutions are selected from a list drawn by the coordinators. The priority for selecting the supervisor and the institution is the average grade. Each cycle starts with a discussion with the cycle supervisors and interns. Each cycle ends with an evaluation of the cycle in the presence of interns.</p>	<p>Each cycle ends with an evaluation of the cycle in the presence of interns.</p>
<p>Perform procedures needed to diagnose and treat diseases, conditions and disorders within the scope of the doctor’s competence:</p> <ul style="list-style-type: none"> • to record the 12-lead and 3-lead ECG and 	<p>Learning while working with the Internship supervisor or their dedicated doctor or paramedic in pre-designated healthcare</p>	<p>Each cycle ends with an evaluation of the cycle in the presence of interns.</p>

<p>interpret the ECG results;</p> <ul style="list-style-type: none"> • to measure capillary blood glucose levels; • to perform peripheral venous puncture and catheterisation; • to take venous blood or a blood culture for testing; • to perform subcutaneous and intramuscular injections; • to perform intravenous therapy and use infusion equipment; • to determine the blood group and perform intravenous blood transfusion; • to administer medicines (intramuscular, intravenous, intranasal, oral, subcutaneous, rectal, adhesive, using vaporiser, auto-pump or auto-injector); • to relieve pain using non-pharmacological and pharmacological means; • to take samples of blood, wounds, white matter, ears, eyes, upper respiratory tract, genital tract, urine, and faeces for microbiological examination in standard media; • to perform pulse oximetry; • to cleanse the alimentary tract; • to insert a nasogastric tube; • to perform an eye wash; • to remove non-stuck superficial inclusion bodies from the eyes, ears and nose; • to remove a tick with the head embedded; • to perform bladder catheterisation; • to assess diuresis; • to apply bandages on various body parts; • to prepare an uncomplicated wound for surgical repair and repair the wound using primary surgery methods; • to perform an incision of the skin or a subcutaneous abscess; • to use physical restraint on patients with mental and behavioural disorders and monitor the use of physical restraint under the statutory procedures; • to use a neck splint; • to immobilise spinal or pelvic fractures; • to immobilise the fractured and/or dislocated limb with a splint; • to assess temporary incapacity for work according to the assessment rules of temporary incapacity for work and issue a certificate of incapacity for work and/or a certificate of absence from work. 	<p>institutions and ambulances. The supervisors and institutions are selected from a list drawn by the coordinators. The priority for selecting the supervisor and the institution is the average grade. Each cycle starts with a discussion with the cycle supervisors and interns. Each cycle ends with an evaluation of the cycle in the presence of interns.</p>	
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<p>Suspect, recognise and provide first aid to patients of all ages in cases of diseases, injuries and accidents, exposure to hazardous environmental factors and natural childbirth, initiate treatment of these conditions and diseases, and, if necessary, involve other personal health care professionals and/or transport and/or forward the patient for further consultation in the cases of:</p> <ul style="list-style-type: none"> • coma; • shock; • heavy traumatic and non-traumatic bleeding; • hyperthermia and hypothermia; • dehydration; • convulsive syndrome; • choking or inclusion bodies (present or suspected) in tissues or natural body orifices and cavities; • acute allergic reactions and anaphylactic shock; • an injury; • an injury when congenital or acquired coagulation disorders are present; • a head injury and short-term loss of consciousness; • complex regional pain syndrome; • acute burns and frostbite; • paralysis; • speech impairment; • severe headaches; • cardiac arrest; • acute cardiovascular diseases; • syncope; • cyanosis; • limb oedema; • acute abdominal pain; • jaundice; • nausea and vomiting; • vomiting blood; • melena and fresh blood in faeces; • diarrhoea; • constipation; • ascites; • hyperglycaemia and diabetic ketoacidosis; • hypoglycaemia; • swollen joints; • itching; • skin and mucous membrane rashes; • visual impairment; • hearing impairment; • dysphagia; • hiccups; • acute renal and urological diseases; • dysuria; • haematuria; 	<p>Learning while working with the Internship supervisor or their dedicated doctor or paramedic in pre-designated healthcare institutions and ambulances.</p> <p>The supervisors and institutions are selected from a list drawn by the coordinators. The priority for selecting the supervisor and the institution is the average grade. Each cycle starts with a discussion with the cycle supervisors and interns. Each cycle ends with an evaluation of the cycle in the presence of interns.</p>	<p>Each cycle ends with an evaluation of the cycle in the presence of interns.</p>
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<ul style="list-style-type: none"> • urinary retention; • acute obstetric and gynaecological conditions; • childbirth; • a restless baby; • a crying child/infant; • eating disorders; • acute mental and behavioural disorders; • suicidal or violent behaviour; • poisoning (or suspected poisoning) with dangerous or highly hazardous substances, gases, an overdose of psychoactive substances or medicines, where antidotes are indicated; • bite by a venom-secreting animal; • bites, scratches and lacerations by rabid or potentially rabid animals; • tick infestation; • suspicion of a perilous infection, where a patient needs to be isolated; • complications caused by catheters, tubes and other devices; • disruption of an artificial stoma (when it needs to be replaced or opened). 		
<p>Be able to apply scientific (evidence-based medicine) principles, methods and knowledge in medical practice</p>	<p>Learning while working with the Internship supervisor or their dedicated doctor or paramedic in pre-designated healthcare institutions and ambulances. The supervisors and institutions are selected from a list drawn by the coordinators. The priority for selecting the supervisor and the institution is the average grade. Each cycle starts with a discussion with the cycle supervisors and interns. Each cycle ends with an evaluation of the cycle in the presence of interns.</p>	<p>Each cycle ends with an evaluation of the cycle in the presence of interns.</p>
<p>Promote healthy lifestyles, address public health issues, and work effectively in the health care system by applying knowledge of disease prevention</p>	<p>Learning while working with the Internship supervisor or their dedicated doctor or paramedic in pre-designated healthcare institutions and ambulances. The supervisors and institutions are selected from a list drawn by the coordinators. The priority for selecting the supervisor and the institution is the average grade. Each cycle starts with a discussion with the cycle supervisors and interns. Each cycle ends with an evaluation of the cycle in the presence of interns.</p>	<p>Each cycle ends with an evaluation of the cycle in the presence of interns.</p>

Topics		Contact hours							Self-study work: time and assignments	
		Lectures	Tutorials	Seminars	Exercises	Laboratory work	Internship	Total contact hours	Self-study hours	Assignments
Course:										
Introduction to the Internship				7				7		
Exercises in simulation rooms					10			10	14	In simulation rooms, independently perform procedures needed to diagnose and treat diseases, conditions and disorders within the scope of the doctor's competence
Obstetrics and gynaecology				2			192	194	6	Prepare for the seminar and practical sessions in obstetrics and gynaecology using the material received during the Introduction to the Internship
Surgery and traumatology				2			192	194	6	Prepare for the seminar and practical sessions in surgery and traumatology using the material received during the Introduction to the Internship
Children's diseases				2			192	194	6	Prepare for the seminar and practical sessions on children's diseases, using the material received during the Introduction to the Internship
Internal diseases				2			192	194	6	Prepare for the seminar and practical sessions in internal diseases, using the material received during the Introduction to the Internship
Accident and emergency medicine	Accident and emergency medicine in a hospital			2			192	194	6	Prepare for the seminar and practical sessions in emergency medical assistance using the material received during the Introduction to the Internship
	Accident and emergency medicine in an ambulance			2			192	194	6	Prepare for the seminar and practical sessions in emergency medical treatment in ambulances, using the

										material received during the Introduction to Internship
Optional cycle			2			192	194	6		Prepare for the seminar and practical sessions in the optional cycle, using the material received during the Introduction to Internship
Total			21	10		1344	1375	56		

Assessment strategy	Weight, %	Deadline	Assessment criteria
Course: Internship			
Examination in a computer room	50 %	Within a week after the end of the Internship in May	<p>The examination is held in the computer room of the Information Technology Services Centre.</p> <p>A student is given a series of clinical cases in obstetrics and gynaecology, surgery and traumatology, children's diseases, and internal diseases during the examination. Each clinical case consists of six sections.</p> <p>A student:</p> <ul style="list-style-type: none"> in Section 1, refines a medical history; in Section 2, describes the clinical examination of the patient; in Section 3, administers the laboratory tests needed to make a diagnosis; in Section 4, asks for instrumental test results; in Section 5, makes a clinical diagnosis; in Section 6, prescribes treatment. <p>The assessment is as follows:</p> <ul style="list-style-type: none"> 10 (excellent): excellent, exceptional knowledge and skills; 9 (very good): robust and good knowledge and skills; 8 (good): above-average knowledge and skills; 7 (average): average knowledge and skills, with some minor errors; 6 (satisfactory): knowledge and skills are below average, with errors; 5 (weak): knowledge and skills meet the minimum requirements; 4 (unsatisfactory): minimum requirements are not met.
Examination in simulation rooms	50 %	Within a week after the end of the Internship in May	<p>The examination is held in simulation rooms.</p> <p>During the examination, a student solves clinical assignments and performs practical exercises in the clinical cases of obstetrics and gynaecology, surgery and traumatology, children's diseases, internal diseases, and emergency medicine.</p> <p>The assessment is as follows:</p> <ul style="list-style-type: none"> 10 (excellent): excellent practical skills; 9 (very good): good practical skills; 8 (good): above-average practical skills; 7 (average): average skills, with some minor errors; 6 (satisfactory): skills are below average, with errors; 5 (weak): skills meet the minimum requirements; 4 (unsatisfactory): minimum requirements for the skills are not met.
Final assessment	100 %		The mean average of the examinations held in computer and simulation rooms

Author	Year of publication	Title	Issue of a periodical or volume of a publication	Publishing place and house or weblink
Required reading				
Zane RD	2019	Pocket Emergency Medicine	4th Edition	https://www.medicosrepublic.com/pocket-emergency-medicine-4th-edition-pdf-free-download/
Cameron P, Little M, Biswadev M, Conor D	2019	“Textbook of Pediatric Emergency Medicine“	5th Edition	Elsevier
Vaitkaitis D, Pranckūnas A.	2017	<i>Pirmoji medicinos pagalba</i>		Kaunas
	2020	Law of the Republic of Lithuania on the Registration of Death of a Human Being, and on Critical Conditions		https://e-seimas.lrs.lt/portal/legalAct/lt/TAID/TAIS.37504/BPFIAGLGpJ (translation into English: https://e-seimas.lrs.lt/portal/legalAct/lt/TAID/TAIS.326187?jfwid=186o6guvr9)
	2022	LITHUANIAN MEDICAL STANDARD MN 7:2022. MEDICAL DOCTOR		Order No V-930 approving the Lithuanian Medical Standard MN 7:2022 ‘Medical doctor’ (e-tar.lt)
	2021	The European Resuscitation Council Guidelines for Resuscitation		https://cprguidelines.eu/
	2021	Surviving Sepsis Campaign Guidelines 2021		https://www.sccm.org/Clinical-Resources/Guidelines/Guidelines/Surviving-Sepsis-Guidelines-2021
Ed. Šapoka V.	2020	<i>Internistas. Praktinis vadovas</i>	1-598	Vilnius
Ed. Scharschmidt BF	2007	Internal Medicine	1st edition	Cambridge Pocket Clinicians. https://booktree.ng/cambridge-pocket-clinicians-internal-medicine-1st-edition/
Ed. Budrys V.	2011	<i>Urgentinė neurologija.</i>		VU Library: Vilnius: UAB Vaistų žinios
Ed. Steven L, Busl KM	October 2021	Continuum - Lifelong Learning in Neurology. Neurocritical Care.	Vol.27, No.5.	https://journals.lww.com/continuum/toc/2021/10000
LaHue S, Levin M.	2021	Emergency Neurology (2 ed.).	2nd edition	
Žaliūnas R. at al.	2020	<i>Kardiologijos pagrindai studentams</i>		http://ebooks.vitaelitera.lt/eb/2303/kardiologijos-pagrindai-studentams/
Griffin BP	2018	Manual of Cardiovascular Medicine		https://ebookcentral.proquest.com/lib/viluniv-ebooks/detail.action?docID=6023334
Brugha R, Marlais M, Abrahamson E.	2015	<i>Vaių klinikinio ištyrimo vadovas.</i>		VU Library: Vilnius: UAB Vaistų žinios
Kliegman RM.	2020	Nelson Textbook of Pediatrics, 21st Edition		https://www.clinicalkey.com#!/browse/book/3-s2.0-C20161017121?indexOverride=GLOBAL
Lissauer T, Carroll W.	2022	Illustrated Textbook of Paediatrics,	6th edition	https://www.clinicalkey.com#!/browse/book/3-s2.0-C20190011636
Ed. Pundzius J.	2012	<i>Chirurgija. Bendroji dalis</i>	Volume I	Vitae litera

Ed. Pundzius J.	2012	<i>Chirurgija. Specialioji dalis</i>	Volume II	Vitae litera
Williams NS, O'Connell PR, McCaskie A	2018	Bailey & Love's Short Practice of Surgery	27th edition	CRC Press
Kocius, M, Porvaneckas, N et al.	2016	<i>Ortopedija traumatologija</i>		Vilnius University Press. (https://virtualbiblioteka.vu.lt/primo-explore/fulldisplay?docid=VUB01000827245&context=L&vid=VU&lang=lt_LT&search_scope=VU_IG_ALL&adaptor=Local%20Search%20Engine&tab=default_tab&query=any,contains,Ortopedija%20traumatologija)
Solomon L, Warwick DJ, Nayagam S.	2014	Apley and Solomon's concise system of orthopaedics and trauma		Crc Press. (https://virtualbiblioteka.vu.lt/primo-explore/fulldisplay?vid=VU&docid=VUB01000718918)
	2019	<i>Akušerijos ir neonatologijos diagnostikos ir gydymo metodikos</i>		sam.lrv.lt/lt/veiklos-sritys/programos-ir-projektai/sveicarijos-paramos-programa/akuserijos-ir-neonatologijos-diagnostikos-ir-gydymo-metodikos/akuserijos-diagnostikos-ir-gydymo-metodikos
Magowan BA	2019	Clinical Obstetrics and Gynaecology	4th edition	https://www.clinicalkey.com#!/browse/book/3-s2.0-C2016003512X
Smith RP	2017	Netter's Obstetrics and Gynecology	3rd edition	https://www.clinicalkey.com#!/browse/book/3-s2.0-C20150058695