



DESCRIPTION OF THE SUBJECT

Name of the subject	Code
Hospital pharmacy	

Lecturer(s)	Subdivision(s)
Coordinator: Assoc. Prof. Dr. Kristina Garuolienė	Medicine Faculty, Institute of Biomedical Sciences, Centre for Pharmacy and Pharmacology, Geležinio Vilko str.29 a, Vilnius

The Study of Tier	Subject (module) level	Subject (module) type
Integral studios (Tiers I and II)	-	Elective

Form of implementation	Execution period	Language(s) of execution
Lectures and seminars in the auditorium, workshops in the hospital	Autumn/Spring semester	Lithuanian/English

Requirements for the studier	
Preliminary requirements: students must have studied the basics of pharmacology, clinical medicine, subjects of social pharmacy	Related requirements (if any): none

Scope of the subject (module) in credits	Full student workload	Get in touch with the hours	Savarankish working hours
5	135 hours	64	71


Purpose of the subject (module): competencies developed in the study programme		
<p>The goal is to develop the knowledge of the student of the pharmacy specialty about the professional competencies of the hospital pharmacist; hospital process, the functions of the hospital pharmacy, the functions of the hospital pharmacist as a health care professional (assistance, consultations for specialists and patients), to acquire and assimilate and be able to apply knowledge about the latest basics of the organization of the work of hospital pharmacies, the pharmacy process, the management of the activities of the hospital pharmacy, the requirements of good pharmacy practice. To analyze and evaluate various aspects of the provision of high-quality pharmaceutical service in hospital.</p>		
Subject (module) study objectives	A study of the method	Let's change the method.
Will be able to use the available information and critically evaluate and interpret information about the activities of hospital pharmacy, the process of drug management in the hospital, the management of data on the administration of medicines	Lectures, exercises (in the hospital), analysis of legal documents, situation during seminars	Continuous evaluation of works, colloquiums, cumulative crediting at the end of the semester
They will be able to communicate with health care professionals, patients, check, evaluate drug appointments, use the hospital's information system (drug	Lectures, exercises (in the hospital), analysis of legal documents, situation	Continuous evaluation of works, colloquiums, cumulative crediting at the end of the semester.

administration subsystem) to check the dosage of medicines, provide pharmaceutical service		
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Themes	Get in touch with the hours						Time and tasks of independent studies		
	Lectures	Consultation	Seminars	Exercises in the hospital	Laboratory work	Practice	Full contact work	Self-employment	Tasks
1. Mission, competences and importance of a hospital pharmacist/clinical pharmacist in a patient-centred health system	1		1				2	2	Read the literature on topic 1.
2. Digital health: registries, hospital information systems, interoperability of digital health information systems, protection of personal data, reuse of health data	1		1				2	4	Read the literature on topic 2.
3. Inpatient medicines and their purchase (lists of hospital medicines, rules for their compilation, use of reimbursable medicines in the hospital, pricing, quality assurance), wholesale trade of medicines, <u>management of disruptions in the supply of medicines (pandemics, seasonal diseases)</u> , quality assurance of storage of medicines, dispensing	2		2	4			8	7	Read the literature on topic 3. Prepare for seminars and exercises in the hospital.
4. Hospital production pharmacy: production of extemporaric medicinal products, preparation of sterile drugs, cytotox/cytostatic drugs, antibiotics, etc. for use in individual patients, parenteral nutrition	1		1	6			8	9	Read the literature on topic 4. Prepare for exercises in the hospital.
5. Preclinical drug studies. Clinical trials of drugs. Registration of medicinal products, legal aspects, rules on bioethics	2		2	4			8	9	Read the literature on topic 5. Prepare for seminars and exercises in the hospital.
6. Management of adverse events (adverse drug reactions) in the hospital.	2		2	4			8	9	Read the literature on topic 6.

Registration of drug-induced adverse reactions.								Prepare for seminars and exercises in the hospital
7. The process of prescribing drugs. Drug registers. Guidelines and algorithms for treatment. Electronic drug administration and management systems	2	2				4	6	Read the literature on topic 7. Seminars.
8. The functions of the hospital pharmacist in ensuring the quality of prescribing medicines, monitoring of the drug concentration, cooperation with doctors and other health care professionals. Review of chemotherapy schemes, unification of appointments constant resume, double control	2	2	6			10	11	Read the literature on topic 8. Prepare for exercises in the hospital.
9. Functions of a hospital pharmacist in the care of polyglot patients: compatibility of drugs, preparation of information materials on medicines, patient education on the rational use of medicines	1	1	6			8	8	Read the literature on topic 9. Prepare for exercises in the hospital.
10. The functions of the hospital pharmacist and the management of the monitoring of new drugs, patient support programs.	1	1	2			4	4	Read the literature on topic 10. Prepare for exercises in the hospital.
11. The hospital's pharmacist's leadership in ensuring the rational use of antibiotics and the control of nosocomial infections.	1	1				2	2	Read the literature on topic 11.
High:	16	24	32			64	71	

Let's Evaluate Strategy	Weight in percent.	Time	Let's take a look at the criteria
Work during seminars and exercises	30	Semester	The task plan is provided during the first session and in the VLH. Evaluation criteria are placed next to each task, placed in the VLH. Let's take a look at the students who are looking forward to the semester
Test 1 and Test 2	30	Semester	Answers to submitted questions of a closed or open type are evaluated. Questions require elective answers. Let's take a look at the students who are looking forward to the semester
Exam	40	Session	Three open-ended questions (open book exam). Let's take a look at the criteria for the semester.
	100		Sum of estimates for all parts

Author	Let's get away with it	Title	Periodical No. AR Publication Volume	Place of publication and publishing house On the Internet, the Link
Compulsory literature				
Cate Whittlesea Karen Hodson	2018	Clinical Pharmacy and Therapeutics	6th edition	Elsevier
Homer's Rivas Katarzyna Wac	2018	Digital Health		
Dixon Thomas	2018	Clinical Pharmacy Education, Practice and Research : Clinical Pharmacy, Drug Information, Pharmacovigilance, Pharmacoeconomics and Clinical Research		Elsevier
André , Arthur (Ed.)	2019	Digital Medicine		