Tbilisi State Medical University

Faculty	Pharmacy
Educational Program Title	Master's program "Clinical Pharmacy"
Awarded academic qualification/degree	Master of "Clinical Pharmacy"
Program Director	Associate Professor Tamaz Chumburidze Assistant Professor Nino Nemsitsveridze
Credit Value of the Program	120 ECTS credits
Language of Instruction	Georgian
Program Objectives	The objective of the program is to train clinical pharmacists who workalongside doctors to: - Implement rational pharmacotherapy - Select effective, safe, and easy-to-use drugs - Consider the pharmacokinetic and pharmacodynamic factors of medicinal products.
Prerequisite(s) /Requirements for admission to the program	Admission to the master's degree program is governed by regulations approved by the university's Academic Council, as well as rules established by Georgia's legislation. The Academic Council of TSMU has made relevant decisions # 24/5 from May 7, 2012, and # 24/3 from May 15, 2017.
	-To be eligible for a master's degree, an individual must possess a bachelor'sdegree or an equivalent qualification. - To continue with the master's program, an individual must pass the general master's exam (A test) and the exams specified by Tbilisi State Medical University in the relevant field and English language with a score ofover 50%+1. - Candidates who have passed the minimum competency limit established by Georgia's legislation in the general master's examination have the right to participate in the examination/examinations established by the higher educational institution. -Enrollment in the master's program is subject to the pre-announced admission quota and competition according to the rules. Mobility access follows Georgian legislation and TSMU regulations.

Program short description

The Clinical Pharmacy Master's program is designed to integrate medical and pharmaceutical subjects. The program curriculum includes modules covering basic, pharmaceutical and medical disciplines, as well as a practicum where postgraduates acquire pharmaceutical and medical skills, paying attention to OSCE elements. The curriculum is developed with reference to the experience of master's programs at foreign universities. At the second step of education - the master's program, students are required to defend their master's diploma thesis before being awarded the academic degree of master of clinical pharmacy.

The Clinical Pharmacy Master's Program is 2 -year, 4 -semester course that provides 120 ECTS credits of performance.

These credits are distributed across several modules, including:

- Basic training courses (15 credits)
- General profiling module (14 credits)
- Private profiling module (8 credits)
- Clinical skills module (15 credits)
- Profile training courses (21 credits)
- Non-professional training courses (13 credits)
- Research component (30 credits)
- Optional training courses (4 credits)

Student Knowledge Assessment System

Assessment of the MA student achievements is carried out in accordance with the order #3 of January 5, 2007, issued by Minister of Education and Student Knowledge Science of Georgia.

The University works according to the European Credit Transfer and Accumulation System (ECTS), based on learning outcomes, transparency of the educational process and a student-oriented system.

Its purpose is to facilitate planning, implementation, evaluation/recognition of study components, as well as student mobility. Assessment components comprise midterm assessment and final assessment, their sum determines the student's final assessment. Maximum assessment of the study course is 100 points, which is the sum of the intermediate evaluations (minimum competence threshold - 31 points) and the final grade.

A Master's (MA) student who can get a score of at least 51 points summarizing the intermediate assessment and the minimum positive assessment of the final exam is allowed to take the final exam. The evaluation of the activity performed by the master's student includes: Mid-term assessment of the student determined by 0-60 points, represents the sum of the points obtained according to the knowledge assessment methods/components (academic activity - colloquium, presentation, etc.) envisaged by the syllabus of the study course/module.

Final exam grade. Maximum assessment of the study course/ module is 100 points, with a portion of 0-40 points designated for the final exam evaluation Evaluation system allows: Five types of and two types of negative grades Positive Grades (A) Excellent – 91 - 100 points; (B) Very good – 81-90 points; (C) Good – 71-80 points; (D) Satisfactory – 61-70 points; (E) Acceptable – 51-60 points. Negative Grades Two types of negative grades (FX) Fail – 41-50 points, meaning that a student requires some more work before passing and is given a chance to sit an additional examination after independent work; (F) Fail – 40 points, meaning that student's work is not acceptable, and they will have to study the subject again. The additional requirements established for the assessment of student achievements in a separate study course/module are detailed in the relevant syllabus and are known to students. Knowledge and Understanding **Learning Outcomes** Possesses the knowledge and professional skills required to work as a pharmacist in a pharmacy or clinic. Skills Able to adhere to ethical codes and deontological norms and communicate securely with patients, customers, colleagues, doctors, and society. Responsibility and autonomy Establishing international standards in clinical pharmacy and taking responsibility for patient care in public is crucial for harmonious patient relations between pharmacists and doctors. Fields of Graduate Employment The Master of Clinical Pharmacy can work in various settings such as pharmacies, pharmaceutical companies, clinics, and the Ministry of Health, based on the scope of competence.

Curriculum Master's program in "Clinical Pharmacy"

			Hours							Allocation of credits by semesters				
N			Among them											
	Components	Credits	contact	lecture	practice	practice	Seminar	Independent work	I sem	II sem	ms III	IV sem		
1	120 Credits	3	4	5	6	7	8	9	10	11	12	13		
1	Basic Module 1: (Physiology, Biochemistry, Pathological Physiology)	15	180					270	15					
2	Pharmacology	5	60					90	5					
3	Pharmacotherapy	10	120					180	10					
4	Private Purpose Module 2: Biopharmacy, pharmacokinetical analysis	8	96					144		8				
5	Regulation of pharmaceutical activities	4	48					72		4				
6	Pharmacoeconomics	2	24					36		2				
7	General Profile Module -3 Basics of Clinical pharmacy; Clinical pharmacokinetics; Applied Clinical pharmacy	14	170					250		14				

	Elective Subjects:	2	24			36				
8	1. Polypharmacy									
	Organizational behavior and human resource management in pharmaceutical organizations	2	24			36		2		
	3. Principles of Ethics and Bioethics in the Management of the Pharmaceutical activity	2	24			36	1		3	
9	Clinical Psychology	4	48			72			4	
10	Professional English language	4	48			72			4	
11	Module 4. Clinical skills with OSCE elements (practice)	5	180		15	270			15	
12	Information technologies in science (IT in Science)	2	24						2	
13	Statistics, quantitative and qualitative characteristics of a research	3	36						3	
14	Elective: Communication skills in the clinic	2	24			90				
	Elective: pharmaceutical market policy	2	24						2	
	Elective: Basic English Terminology	2	24				2	2		
	Master Thesis	30	360			540				30