

Tbilisi State Medical University

Pharmaceutical and Cosmetic Technologies

<b>Title of the program</b>	Pharmaceutical and Cosmetic Technologies
<b>Supervisor of the program</b>	A. Bakuridze
<b>Qualification</b>	Master of Pharmacy
<b>Volume in credits</b>	120 ECTS credits
<b>Language</b>	Georgian
<b>Aim of the program: developing competencies and defining field of activity</b>	<p>Master program Pharmaceutical and Cosmetic Technologies aims at equipping students with overarching and systematic knowledge/competence to:</p> <ul style="list-style-type: none"> <li>-rationally process natural and synthetic raw materials;</li> <li>prepare effective, quality and safe pharmaceutical or cosmetic and perfumery products, apply physical, chemical, biological and technological principles to serial production;</li> <li>-apply medical and biological principles to effective and safe use of cosmetic products;</li> <li>-use modern tendencies, research data and methods applied in pharmaceutical and cosmetic technologies;</li> </ul> <p>Program aims at equipping a student/master with skills to apply and manage pharmaceutical and cosmetic-perfumery technologies independently observing good manufacturing practice, GMP principles.</p>
<b>Admission requirements</b>	To be eligible to read for the master program, it is required that candidates hold Bachelor's Degree in pharmacy or chemical and food product technologies or another equivalent higher degree in professions thereof, meet minimum competency threshold requirements of unified master examinations as well as pass examinations in the foreign language and specialty set forth by the University
<b>Results</b>	<p>Graduate shall have knowledge:</p> <ul style="list-style-type: none"> <li>- to rationally process natural and synthetic raw materials, prepare effective, quality and safe pharmaceutical or cosmetic and perfumery products, apply physical, chemical, biological and technological principles to serial production and employ apparatus;</li> <li>- of the structure, functions and diseases of human skin, as well as medical and biological principles of selecting effective and safe cosmetic products for a consumer;</li> <li>- of the principles of pharmaceutical and cosmetic and perfumery business administration;</li> <li>- of the importance of critical analysis and use of research data for developing innovative and efficient technologies.</li> </ul> <p><b>Skills</b></p> <p><b>Graduate shall be able to:</b></p> <ul style="list-style-type: none"> <li>- independently process natural and synthetic raw materials rationally, prepare effective, quality and safe pharmaceutical or cosmetic and perfumery products,</li> </ul>

	<p>carry out serial production, safely employ apparatus, manage technologies observing good manufacturing practice principles GMP and render quality advice to a consumer on selecting cosmetic product;</p> <ul style="list-style-type: none"> <li>- identify complex problems in the technological process, analyze and evaluate causes, come up with original solutions; independently conduct research using latest methods and approaches;</li> <li>- in the process of production, critically analyze latest research, synthesize, evaluate information and come up with argumentative conclusions;</li> <li>- present conclusions, arguments and research data to academic and professional society in Georgian and English languages observing ethical standards and using information communication technologies;</li> <li>- evaluate and implement efficient and eco-friendly green technologies in order to preserve natural environment, raise social responsibility and public wellbeing and develop fields concerned.</li> </ul> <p><b><u>Responsibility and autonomy</u></b>  Student can objectively assess his/her knowledge, be conscious of the nature of the learning process, make strategic plan thereof and conduct it independently.</p>
<p><b>Methodology for academic achievement</b></p>	<ul style="list-style-type: none"> <li>• Discussions/debate</li> <li>• collaboration</li> <li>• Problem based learning PBL</li> <li>• Case study</li> <li>• Demonstration</li> <li>• Induction, deduction, analysis, synthesis</li> <li>• Explanation</li> <li>• Action oriented teaching</li> <li>• Practical methods</li> <li>• Verbal method</li> <li>• Written work</li> </ul>
<p><b>Knowledge assessment system</b></p>	<p>Assessment of student academic achievement encompasses:</p> <ol style="list-style-type: none"> <li>a. interim assessment (sum of the compulsory components defined by the syllabus of a teaching course/ module);</li> <li>b. final examination.</li> </ol> <p>Maximal final assessment for a teaching course/module is defined as 100 points where maximal share of the final examination shall not exceed 40 points.</p> <p>Assessment methods are as follows: written test, oral examination or combined written oral examination.</p> <p>five positive and two negative assessments are as follows:</p> <ol style="list-style-type: none"> <li>a. (A) excellent - 91-100 % of maximal assessment;</li> <li>b. (B) very good - 81-90 % of maximal assessment;</li> <li>c. (C) good - 71-80 % of maximal assessment;</li> <li>d. (D) satisfactory - 61-70 % of maximal assessment;</li> <li>e. (E) pass- 51-60 % of maximal assessment;</li> </ol> <p>a. (FX) fail - 41-50 % of maximal assessment indicates that in order to pass his/her examination student requires more work and is granted an opportunity to retake examination one more time.</p>

b. (F) no performance - 40 % of maximal assessment indicates that work undertaken by a student is unacceptable and therefore he/she must retake the subject.

Relative Share of various assessment components is defined by the syllabus of a teaching course of a given master program. In the final assessment, which is the sum of interim assessment and final examination, share of the latter shall not exceed 40 %.

Master student shall be granted an opportunity to retake examination in the same semester with the time gap of no less than 5 days between final examination and additional examination.

As defined by the program, practice, master thesis and/or other type of work is assessed by 100 point system. Members of the Qualification Commission make assessment of a master thesis by 0 – 100 point system.

Assessment of a master thesis is the arithmetic mean of the total points given by the members of the Qualification Commission.

Thesis shall be defended provided the latter earns at least 51 point by the following system:

91-100 points – excellent

81-90 points –very good

71-80 points – good

61-70 points – average

51-60 points – satisfactory

0-50 points – unsatisfactory

In case of failure to appear for the defense for respectable reasons such as illness and etc., thesis shall be presented within 1 month or at subsequent defense with the consent of the Faculty Council concerned.

Failure to earn at least 51 points for a thesis, the latter shall be presented at the subsequent defense with the consent of the Faculty Council concerned.

Thesis shall be presented for defense for no more than two times preserving studying component.