

Name of the Educational Institution	LEPL "Batumi Shota Rustaveli State University" Address: №35 Ninoshvili Str. Batumi 6010 Tel/Fax: (0422) 27 17 87 E-mail: info@bsu.edu.ge
Title of the Educational Program	Pharmacy Educational program (Bachelor) of the first cycle of academic higher education
Qualification conferred	Bachelor of Pharmacy
Program Volume in Credits	240 credits: including – major courses – 220 credits, major elective courses – 20 credits (1 ECTS credit comprises 25 hours).
Aim of the Educational Program	The aim of the program is to give Bachelors broad knowledge of theoretical basics and tools, methods and modern technologies of the practical application in preparation of pharmaceutical raw materials, processing, preparation of drugs, pharmaceutical analysis, standardization, rational pharmacotherapy, organizational principles of pharmaceutical enterprises and establishments, management and market economy. The aim of the program is also is to foster formation of a free personality with high civic awareness and activity, bearing humanistic and democratic values.
Learning Outcomes	<p>Knowledge</p> <p>Knows: form and structure of human organism, its parts, organs, organic systems. Cell integration and tissue formation, structural and functional organization of different tissues, their origin. Has the basics of physiological knowledge; regularity of molecular mechanisms, heredity and variability of live processes during the normal as well as disordered processes; composition of the basic classes of compounds in life organism, exchange of carbohydrates, lipids and other compounds, pathological processes; all the pharmacological groups, their action mechanisms, pharmacological effects, ways of input, biotransformation and elimination;</p> <p>Morphological, physiological, biochemical peculiarities of microorganisms (bacteria, fungi, viruses) and the interaction of the microscopy with humans. Basis for creating a safe environment for human health. Principles of pharmaceutical institutions and enterprise organization, basics of management and market economy; physical, mechanical, chemical and biological basis of pharmaceutical raw materials and products, their manufacture, processing and analysis; methods of preparation and analysis of pharmaceutical products and the principles of working of apparatus and equipment used; basic fundamental issues of mathematics.</p> <p>Understands: Physiological, biochemical and pathological processes of the organism, the role and purpose of biologically active substances in live systems. Preparation and storage of pharmaceutical raw material as well as effective, qualitative and safe pharmaceutical production in the conditions of chemist's and pharmaceutical enterprises. Importance of pharmaceutical raw materials and products analysis, standardization and rational pharmacotherapy; The necessity of fulfillment of the requirements of international standards in pharmaceutical practice. Organizational structure of pharmaceutical institutions, management principles, basics of market economy.</p> <p>Skills.</p> <p>Is able to: obtain substances with standard methods and practical implementation of their chemical analysis. Design a mathematical model; production and storage of natural (vegetable, animal and mineral) raw materials. Extemporaneous preparation of drugs (in accordance with the recipe) and serial production of pharmaceutical products (in accordance with regulations). Quality control of raw material, substance and pharmaceutical products in accordance with normative documentation. Chemical, biological and toxicological analysis of pharmaceutical products using standard methods. Safely exploitation of equipment and equipment. Rational pharmacotherapy production; management of structural units of pharmaceutical institutions. Initial medical assistance to emergency cases; use international, state standards and normative-technical documentation. Determination of stability of pharmaceutical products with predetermined instructions and determination of validity periods. Implementation of research and practical nature with predetermined directions in pharmaceutical technology, analysis and social pharmacy: reading, writing, listening and speaking in Georgian and foreign languages.</p> <p>Is able to: collect, understand, analyze and provide a reasonable conclusion based on logical reasoning that results in problems in the process of pharmaceutical activity. To conclude on the benchmarking of pharmaceutical products using the distinctive</p>

	<p>(biopharmaceutical research) methods. Discussion and debate with professional colleagues.</p> <p>Is able of in the field of pharmacy: determining the need for learning and determining its necessity in accordance with the priorities;</p> <p>Has: ability to adapt and work in a new situation. Ability to learn professional and career growth; Ability to continue learning at the next level. Ability to select and study learning components.</p> <p>Competences.</p> <p>Has the competence of the protection and use of ethics and legal principles in pharmaceutical practice. Competence for finding and processing new professional material for colleagues and consumers in oral or written form both in Georgian and in foreign languages. Competence to use effectively and creatively in practice pharmaceutical information and communication technologies. Is responsible for the performance of the performance imposed on it. Participates and promotes drug efficiency, quality and safety values; has a sense of environmental and security obligations. Protects customers' interests. Respects the history, culture and traditions of the native country.</p>
Assessment	<p>The final assessment is defined according to the following rating: A, B, C, D, E, FX, F.</p> <p>A – Excellent 91-100 points;</p> <p>B – Very Good 81-90 points;</p> <p>C – Good 71-80 points;</p> <p>D– Satisfactory 61-70 points;</p> <p>E – Sufficient 51-60 points;</p> <p>FX – could not pass 41-50 points. Student has the right to take the additional exam once more;</p> <p>F – Fail 0-40 points. Student has to take the course again.</p> <p>Nato Didmanidze, Associate Professor</p>
Contact Person	<p>Program leaders:</p> <p>Nato Didmanidze, Associate Professor Telephone: (+99599) 42 55 22 E-mail: Didmanidze_nato@bsu.edu.ge</p> <p>Sopio Beridze, Professor Telephone: (+99593) 30 01 70 E-mail: sophio.beridze@bsu.edu.ge</p>