

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	Chemistry Educational program (Bachelor) of the first cycle of academic higher education
Qualification conferred	<i>Bachelor of Chemistry</i>
Program Volume in Credits	240 credits : major courses - 180 credits including compulsory courses – 165 credits, major elective courses – 15 credits (from V semester) and 60 credits –minor specialty courses (1 ECTS credit - 25 hours) or block of major elective courses (V – VIII semesters).
Aim of the Educational Program	The program goal comes in line with the university mission and implies preparation of a qualified, competitive chemist-specialist with general education, easily adaptable in changeable professional environment, who understands the essence and social importance of the future profession. Rendering theoretical and practical education in fundamental disciplines of chemistry – inorganic, organic, analytical, physical chemistry, also colloid chemistry, supra-molecular compounds, chemical technology, ecological chemistry and other significant chemical disciplines; mastering experimental methods in chemistry; elaboration of subject-specific competences in chemistry: knowledge understanding skills, unity of possibilities and values, elaboration of independent and group-work skills in relevant profile. The program provides the study of the basics of traditional disciplines in chemistry that will give graduates wide possibilities at labor market employment (research and industrial institution: chemical-pharmaceutical, food industrial, oil-chemical, environmental protection as well as laboratories subjected to the Ministry of Agriculture, spheres of service) or the next second level of education. The aim of the program is also to form graduates as free citizens of high civic consciousness and activity, humanism, democracy, with principles of liberal values.
Learning Outcomes	<i>Upon completion of the program the graduate knows:</i> <ul style="list-style-type: none"> ➤ Theoretical basics and principles of chemical sciences; ➤ Composition, structure, properties of inorganic, organic, coordinate, natural and high-molecular compounds and substances, conditions and mechanisms of chemical processes, basic methods of analysis and research; ➤ Modern theories of chemical bond, molecular and atomic structure; <i>Understands:</i> <ul style="list-style-type: none"> ➤ Complex issues in chemistry, principles of chemical reactions, physical-chemical systems and their division methods; ➤ Regularities of major chemical-technological processes and problems related to chemical pollution of the environment; ➤ Ongoing chemical processes in living matter and mechanisms of natural compound transformations. <i>Is able to:</i> <ul style="list-style-type: none"> ➤ Obtain substance with standard methods and practically accomplish its chemical analysis; ➤ Make practical application of chemistry-related standard (chemical, physical, physical-chemical) and some specific (compound division) methods; ➤ Conduct chemical calculation, transformations and problem solutions based on the theoretical knowledge; ➤ Implement chemical experimental projects through preliminary instructions; ➤ Prepare laboratorial tools for utilization and make their safe exploitation; ➤ Work in safety with chemicals; ➤ Apply the basic knowledge of mathematics and computer technologies in

	<p>chemistry;</p> <ul style="list-style-type: none"> ➤ Conduct observations on chemical experiments, collect data and make mathematical processing, analyze outcomes and make logical conclusions; ➤ Perform abstract thinking, logical judgment, analysis and synthesis of knowledge; ➤ Prepare projects, essays and tasks on problem solution ways in chemical experiments in written or oral form and present the information to the audience of specialists and non-specialists; ➤ Conduct group/team work; ➤ Make effective application of information technologies in chemistry; ➤ Conduct discussions, disputes and argumentation of own opinions; ➤ Determine necessities of further learning in the direction of chemistry based of the acquired knowledge; ➤ Update and innovate knowledge; ➤ Evaluates perspectives of chemistry field development, significance and values for the economic growth of the country; ➤ Undertakes obligations of environmental protection and safety; ➤ Respects history, culture and traditions of the native country.
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>
Contact Person	<p>Program leader:</p> <p>Irina Bezhanidze, Professor</p> <p>Tel.: 593361738</p> <p>E-mail: irina.bejanidze@bsu.edu.ge</p>