

<b>Name of the Educational Institution</b>	LEPL “Batumi Shota Rustaveli State University” Address: №35 Ninoshvili Str. Batumi 6010 Tel/Fax: (0422) 27 17 87 E-mail: <a href="mailto:info@bsu.edu.ge">info@bsu.edu.ge</a>
<b>Title of the Educational Program</b>	Mathematics
<b>Qualification conferred</b>	Bachelor of Mathematics
<b>Program Volume in Credits</b>	Educational program comprises 240 ECTS credits, including: <ol style="list-style-type: none"> <li>1. Compulsory faculty courses - 10 ECTS credits;</li> <li>2. Major compulsory courses – 90 ECTS credits;</li> <li>3. The program comprises two elective modules” module “Mathematics” and module “Financial Mathematics”. Each module comprises 80 ECTS credits. Compulsory courses of the module “Mathematics” are 65 ECTS credits, elective – 15 ECTS credits. Compulsory courses of the module “Financial Mathematics” comprises 60 ECTS credits, elective – 20 ECTS credits;</li> <li>4. Minor educational course or free elective courses - 60 ECTS credits.</li> </ol>
<b>Aim of the Educational Program</b>	<ul style="list-style-type: none"> <li>• To give students theoretical and practical education in fundamental and applied fields of mathematics;</li> <li>• Elaborate in students such skills that may be used in understanding, analysis, evaluation and solution of theoretical and /or practical tasks and problems in mathematical and non-mathematical fields;</li> <li>• To prepare highly qualified competitive specialists of high civic awareness and activeness, bearing democratic and liberal values who will be able to establish themselves in the labor market and /or continue study at the next cycle of higher education.</li> <li>• To assure satisfaction of students with high aspiration and diverse educational interests by means of elective courses and/or minor specialty within the frames of the present program.</li> </ul>
<b>Learning Outcomes</b>	<p><b>Has:</b></p> <ol style="list-style-type: none"> <li>1. The knowledge of the theories and methods of the fundamental directions of mathematics: <ul style="list-style-type: none"> <li>• Wide knowledge of basic research methods of geometric objects of Euclid and non-Euclid spaces applying linear algebra, differential accounting and topology;</li> <li>• Wide knowledge of the basic research methods of the study of real and complex variable functions by means of differential and integral accounting, differential equations solution and with their application design of probability – statistic model;</li> <li>• Wide knowledge of theoretical basics and research methods of numeric theory, mathematical logic and basic algebraic structures;</li> <li>• Wide knowledge of functions approximation, linear algebra, numerical derivation and integration, some numerical methods of non-linear equations solution.</li> </ul> </li> <li>2. Information on modern approaches and achievements in different directions of mathematics;</li> <li>3. Knowledge of program packages and programming languages necessary for solving various types of mathematical problems as well as making presentations;</li> <li>4. Thorough knowledge of elementary mathematics – algebra, geometry and basics of analysis.</li> </ol> <p><b>Is able to:</b></p> <ol style="list-style-type: none"> <li>1. Introduce formal concepts and definitions and formulate mathematical statement;</li> <li>2. Formulate and prove mathematical statements of corresponding complexity in different branches of mathematics;</li> <li>3. State, understand tasks and problems of relevant complexity, design mathematical model and study them applying mathematical models;</li> <li>4. Solve mathematical problems of relevant complexity by means of program packages and programming languages.</li> </ol>

<b>Assessment</b>	<p>In a study discipline, student's final assessment is calculated according to the sum total of academic activeness, midterm exam assessment and final exam assessment. The final assessment is defined according to the following rating: A, B, C, D, E, FX, F.</p> <p>A – Excellent <b>91-100 points</b>;  B – Very Good <b>81-90 points</b>;  C – Good <b>71-80 points</b>;  D– Satisfactory <b>61-70 points</b>;  E – Sufficient <b>51-60 points</b>;  FX – could not pass <b>41-50 points</b>. Student has the right to take the additional exam once more;  F – Fail <b>0-40 points</b>. Student has to take the course again</p>
<b>Contact Person</b>	<p><b>Program leader:</b>  <b>Vladimer Baladze</b>, Professor  Tel.: 995 593 36 96 09;  E-mail: <a href="mailto:vladimer.baladze@bsu.edu.ge">vladimer.baladze@bsu.edu.ge</a></p>