



## Batumi Teaching University

Educational program	Physical Medicine and Rehabilitation
<b>Level of Education:</b>	Bachelor
<b>Qualification to be conferred</b>	Bachelor of Physical Medicine and Rehabilitation
<b>Teaching language</b>	English
<b>Program volume</b>	240 ECTS
<b>Approved by Order</b>	№1/21, May 19th, 2018
<b>Program manager</b>	Professor Tamar Mosulishvili
<b>Preconditions for admission of the program:</b>	<p>A student with full general or equal education having the relevant document certified by the state (school leaving certificate), has the right to study on the educational program.</p> <p>The enrolment on the program based on the results of the unified national examination is possible if the person has received at least 91% in the English language examination and has overcome the limit of minimum competence in the rest of the subjects.</p> <p>Enrolment on the program, without the unified national exams, can be according to the Georgian legislation, the preconditions for admission of the present program and the rules established by the University. In this case, the person should be able to prove B2 level of English.</p> <p>Enrolment on educational program by the mobility can be according to the Georgian legislation, the preconditions for admission of the present program and the rules established by the University.</p>
<b>Program structure</b>	a) Compulsory study courses off the healthcare faculty - 25 credits b) Compulsory study course of the direction - 209 credits



	c) Selective courses of the specialty - 6 credits
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<b>Program applicability and reason of its offering</b>	<p>The increase of average life time of Georgian population, increase the number of populations, development of insurance market, economic growth and increase of registered diseases created a need for qualified human resources in healthcare field including physical medicine and rehabilitation. For the last 5 years the local student's interest toward the healthcare and social insurance educational programs and foreign students interests toward Georgian educational institutions have increased. In the previous year's number of foreign students have dramatically increased, especially in the field of healthcare educational programs that creates a base for implementing foreign educational program in healthcare field. Besides, based on different researches youth considered a medical field as a high-paid profession, having a good reputation. That is approved by the fact that doctors' salary increase year by year and the profession becomes attractive for young. The abovementioned issues result in an actuality of study.</p>
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<b>Goals of the Program:</b>	<p>The aim of the educational bachelor program is to provide a wide range of knowledge in the field of the physical medicine and rehabilitation; To teach the basic concepts, theories and methods of the field, related or other specialized disciplines; Give the complex theoretical knowledge to the student; To develop an analytical skills, obtain ability to evaluate and analyse events; To develop practical skills supported by the theoretical education that are necessary for the bachelor's degree of physical medicine and rehabilitation. To prepare student for the pursuing her/his studies on Master Level and for successful professional activities in different directions. In the framework of the bachelor's program there will be prepared the specialists of important field of medicine, whose both general and narrow-field knowledge, practical skills and general competences ensure their employment in the recreational and medical state and private institutions; Recreational therapist of sports teams; Sectoral medical and educational state and private structures.</p> <p>In the framework of the bachelor's program students will study: Basic regulations of the health formation and maintenance, restoration and strengthening of health; Preventive and therapeutic-rehabilitative measures of various diseases related to the practices with patients and healthy population;</p>
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	<p>The aim of the educational program is to make graduate ready to create individual rehabilitation program under the supervision of the doctor, implement individual rehabilitation program for the repairing functional reserve of the body, which helps the improvement quality of life of the population.</p>
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**Learning outcomes:**

The graduate of the Physical Medicine and Rehabilitation Educational Program has the following field and have general (transferable) skills:

<b>Knowledge and understanding</b>	<ul style="list-style-type: none"><li>• Gains a wide knowledge and awareness of the importance of physical medicine and rehabilitation in the field of health care. Learns basic theories and becomes capable of critical analyse. Acknowledges complex issues of the field.</li><li>• Has Ability to critically review the basic Concepts, Principles, Theories and Source of the "Physical Medicine and Rehabilitation"; Modern trends in scientific circles, rehabilitation programs, theoretical and practical aspects of the discipline.</li><li>• Has ability to use the field-specific and outstanding methods to solve problems, implement a research or practical project in accordance with the predetermined guidelines.</li><li>• Can use the theoretical knowledge gained in the field of "physical medicine and rehabilitation "; Analyse the processes, participate in critical discussions, establish professional visions; Strengthen and substantiate opinions with arguments; Apply outstanding methods to solve problems; Understand and manage to collect and describe the characteristic features of the field, as well as the analysis of the data and / or situation of the standard and draw robust conclusions.</li><li>• Can develop, formulate, analyse, and convey evidence of material and data in the field of physical medicine; Ability to define relevant decision as a result of evaluation and received information.</li></ul>
<b>Skill</b>	The graduate will be able to establish written and verbal communication in native and English languages with medical personnel, health-care professionals, patients, members of their families and other related representatives or groups of people to ensure efficiency of service; prepare detailed written report on existing problems; provide ways of their solutions and inform to people in charge. The graduates will acquire modern means of communication helping them to obtain, process and demonstrate information available in native and English languages; will be able to take active part in group discussions, undertake responsibility for performed work. Can prepare a detailed written report on ideas, current problems and solutions in the field of "physical medicine and rehabilitation". Transmit the information to specialists and non-specialists, creation of modern information and communication technologies. Make registrations and keeping a record of patient's history; provide communication with colleagues.



	<p>Graduates have ability of critical evaluation of complex, incomplete and contradictory information, to analyse results, to use and convey data in an understandable manner. Critical approach to new information, analysing a variety of data, summarizing, integrating, and drawing conclusions; obtaining results of the case and / or providing arguments during analysis.</p> <p>Graduate is able to collect case history, identify and evaluate medical conditions, make a physical examination. Identify the condition and needs of a particular patient, draw appropriate, argumentative conclusions, assess patient in dynamics, his/her adaptive capabilities, correct and enhance them. Determine the diagnosis based on data, interpret results based on the relevant examinations and to draw up individual preventive and rehabilitation program (with consideration of indications and contraindications); Prepare individualized plan of physical therapy with preformed physical factors and using basic kinesiotherapy techniques. The graduate will be able to select duration and intensity of rehabilitation measures and accomplish physical rehabilitation in practice, which ultimately improves the quality of life of the patient.</p> <p>Ability to use the latest electronic resources in the field of modern information and communication technologies during learning and research process; provide critical approach to new information, analyse variety of data, summarize, integrate, and draw conclusions. Define deficiency, necessities and priorities of own knowledge; Graduate takes opportunity to gain knowledge with the purpose of increasing qualification and career development: Work with textbooks, make notes, apply problem-oriented teaching methods, prepare projects; the graduate will be able to make use of educational and information resources. Able to assess consistency and multilateral assessment during learning process, and to plan and implement further studies independently. The students will be able to implement research and practical projects according to predefined guidelines.</p>
<b>Responsibility and autonomy</b>	<p>Graduates can independently participate in the formation of values and seek to establish them. Responsible for adhering to the ethical principles of their work, implementation of the research or practical projects in accordance with predetermined instructions. Have a feeling of respect for intellectual property, responsibility to maintain professional and ethical norms and academic honesty; Guided by ethical standards. The graduate has ability to participate in the formation of existing values at the international as well as national level and to pursue them. Graduates are able to respect the doctor's moral and ethical values and apply it in relation with patient; protect patients' interests, rights, dignity and confidentiality of related information, within the professional ethics.</p>



<b>Teaching and learning methods</b>	<p><b>In teaching and learning process, taking into account of specificity of the program component there are applied means of transferring of knowledge to a student such as:</b></p> <ul style="list-style-type: none"><li>• Discussion-debates. This is the most widely spread method of interactive teaching. This method increases the level of student engagement and activity. A discussion may turn into an argument and this process is not merely confined to the questions posed by the teacher. It develops students' skills of reasoning and substantiating their own ideas;</li><li>• Collaborative work; using this method implies dividing students into separate groups and giving each group its own task. The group members work at their issues individually and at the same time share their opinions with the rest of the group. According to the problem araised, it is possible to shift the functions among the group members in this process. This strategy ensures the students maximum involvement in the learning process;</li><li>• Cooperative teaching, that is a teaching strategy in the process of which each member of a group not only learn the subject, but also help his/her fellow-student to learn it better. Each member of the group works at the problem until all of them master the issue.</li><li>• Case study– This method implies to discuss concrete cases together with the students, for more visible and thorough presentation of theoretical material;</li><li>• Demonstration method implies presenting information with the help of visual aids. It is frequently advisable to present the material simultaneously through audio and visual means. The material can be presented both by a professor and a student;</li><li>• Practical methods unite all the teaching methods that stimulate developing practical skills in students. In this case a student independently performs different kinds of activity on the basis of the knowledge acquired e.g. field study, teaching practice, field work, etc.</li><li>• Induction, deduction, analysis and synthesis<ul style="list-style-type: none"><li>- The induction method of learning defines the form of transmitting any subject knowledge when the process is processed from concrete to general.</li><li>- The deduction method of learning determines the form of transmission of any subject</li></ul></li></ul>
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knowledge when the process is transmitted from the general to concrete.

- The process of synthesis of teaching implies the creation of one whole group by grouping individual issues.

- Explanatory method is based on discussing a given issue. In the process of explaining the material the professor brings concrete examples the detailed analysis of which is made in the framework of the given topic;
- Activity-oriented teaching implies professor and student's active involvement in the teaching process, when practical interpretation of the theoretical material takes place;
- Brainstorming –this method implies forming and presenting as many radically different ideas and opinions within the concrete topic/problem.
- Learning by teaching - in this case, the teacher is a coordinator, less an instructor. Students teach themselves independently which is considered as a part of communicative teaching;
- Audio-visual method- only a foreign language is required. During lectures and practical work information technology, slides, presentations are used. Students respond to questions. The same process repeats. The lecturer directs his/her attention to key words, using the demonstration method they are written on the board;
- Role-playing games and simulations –games played according to a previously prepared scenario enable students to estimate the problem from different points of view. This helps students to form alternative points of view.
- The Grammar Translation Method, the main purpose of which is to study the written translation and reading. Special texts are applied for the use of certain grammatical rules and work on these texts-memorable words, studying orthography and grammar.
- The direct method - learning the language from the very first day. Use of native language is prohibited. The idea lies within the natural study of material;
- Heuristic method is based on the step-by-step solving of a given problem. It is realized by means of independent fixing of the facts in the teaching process and determining the ties among them;
- Problem-based learning(PBL) is a method which uses a concrete problem as the initial stage both for acquiring new knowledge and integration process.

Used methods provide achievement of field and/or general competencies planned in accordance



	<p>with program component. Combination of methods, used in all components of the program–formation of field and general (transfer) competence of alumni, are planned in accordance with the program.</p> <p><b>Note:</b> The methods of achieving learning outcomes (choices of the above-mentioned components) are presented in each syllabus of each course, which is selected by each lecturer individually based on the topics.</p>
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<b>Student knowledge assessment system</b>	<p>A credit can be obtained by the students after achievement of learning outcomes envisaged by the syllabus earning one of the positive assessments (according to the grading system approved by the order № 3, January 5, 2007 of the Minister of Education and Science of Georgia – On the Approval of the Procedure of Calculation of higher education programs in credits).</p> <p>It is unacceptable to evaluate the results of the student's achievement on a single basis only by final exam. Student's knowledge assessment includes:</p> <ul style="list-style-type: none"><li>• Assessment of activity;</li><li>• Assessments of Mid-term exam / exams;</li><li>• Assessment of final exam.</li></ul> <p>Maximum assessment of the course is equal to 100 points.</p> <p><b>The Grading system shall allow:</b></p> <p>a) Five types of positive assessment:</p> <p>a.a) (A) Excellent – maximum assessment 91-100 points;</p> <p>a.b) (B) Very good - maximum assessment 81 90 points; a. c) (C) Good – maximum assessment 71-80 points;</p> <p>a.d) (D) Satisfactory – maximum assessment 61-70points;</p> <p>a.e) (E) Acceptable – maximum assessment 51-60 points;</p> <p>b) Two types of negative assessments:</p> <p>b.a) (FX) Failure - maximum assessment 41-50 points, which means that student requires some more work before passing and is given a chance to participate an additional examination after independent work;</p>
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b.b) (F) Failure - maximum assessment 40 points and less for maximum assessment which means that the work of student is not acceptable and he/she has to study the course anew.

In case of receiving FX, the faculty is obliged to appoint an additional exam not less than 5 days after the announcement of the final assessment results and shall be reflected on the exam table. The number of points received in the final assessment is not added to the assessment received by the student. The additional assessment is the final assessment and will be reflected in the final assessment of the educational component of the educational program. If the student at additional examination obtains from 0 to 50 points, (F)-0 assessment is issued to the student in the final examination sheet.

Total assessment of the student in the study course is the sum of the evaluations and final exam assessments. Evaluation components:

- Mid-term assessment - 60 points;
- Final exam - 40 points.

The student has a right to pass the final exam if he / she earns at least 40% (24 points) of the maximum score points. The final exam is considered to be passed if the student has accumulated less than 50% (20 points) in the final exam.

The syllabuses of the courses envisaged by the educational program curriculum describe detailly the mechanisms and components according to which the student accumulates the points for the activity; Mid-term exams / exams are conducted in a written / verbal / testing form;

The final exam is conducted in a written / oral /testing form depending on the specificity of the discipline.

Assessment methods used in the assessment of students' knowledge are in full compliance with the entire program and the learning outcomes defined by its individual component / training course, with relevant field and general (transferable) skills. Assessment forms and criteria for training courses are given in the relevant syllabuses.

**Note:** The topics of the lecture course and training in the working group are the same. After hearing the lecture course, the work on the same topic has practical results and students can easily understand and acquire the study material.



<b>The possibility to continue learning</b>	Graduates can continue their studies based on the prerequisites for admission to the Master Program.
<b>Fields of employment</b>	Objectives and Outcomes of "Physical Medicine and Rehabilitation" Program is focused on the requirements of modern labour and employment. The field of employment program is diverse. Graduate can be employed in any state or private institution or NGO, in any international or local organization and organization's structural unit that needs "physical medicine and rehabilitation" bachelor's degree.
<b>Material-technical base of the program:</b>	The program is implemented at the Training Base of Batumi Teaching University Ltd, which is equipped with the necessary material-technical resources for the implementation of the program. The university has: university library (where mandatory literature and electronic resources defined by the program syllabus is available), Computer Resource Centre (Access to computers and free access to Internet for students), Conference hall, properly equipped auditoriums and simulation space, working rooms for academic and administrative personnel. In order to realize the practical component of the program, relevant memorandums have been concluded with medical clinics and rehabilitation centres.
<b>Human resources of the program:</b>	The academic staff of the University and the invited lecturers (with relevant qualifications, who have the necessary competence to develop learning outcomes) ensure the implementation of educational program of "Physical medicine and rehabilitation". Program implementation entities are indicated in the syllabus of the relevant course.