

Tbilisi State Medical University



Faculty of Physical Medicine and Rehabilitation

The First Cycle of Academic Higher Education Program

Physical Medicine and Rehabilitation

Language of the study – Georgian

Date of accreditation - 28/11/2019

Program Director - Marine Matiashvili, Associated Professor

Title of the Educational Program	Physical Medicine and Rehabilitation
Level of the Higher Academic Education	The First Cycle of Academic Higher Education
Qualification to be awarded	Bachelor of Physical Medicine and Rehabilitation
Program Volume/Credits	240 ECTS Credits (1 ECTS credit – 30 hours)
Duration of the Program	4 Academic Years (8 Semesters)
Language of the Study	Georgian
The Structure and Content of the Program (Short description)	<p>The program is designed using the methodology of planning and developing educational programs at TSMU. The program's content fully covers the requirements for admission and learning outcomes.</p> <p>The educational program includes teaching plan and appropriate Syllabuses. The learning outcomes of the educational program are in line with the National Qualifications Framework. The program sets learning objectives, learning outcomes and the qualification. The program is developed in accordance with the European Credit Transfer System (ECTS). Educational program is focused on student and learning outcomes.</p> <p>Each course in the curriculum is corresponding to the appropriate stage of learning, and it is based on the knowledge and skills acquired by the student, and is itself a prerequisite for mastering the inherited component. Program is multi-component and structured as sequential order of blocks within preclinical, clinical and consolidation stages of the curriculum.</p> <p>The educational program includes:</p> <ul style="list-style-type: none"> • Preclinical Stage: Biomedical Sciences; Humanities, Behavioral and Social Sciences; Pathology; The Fundamentals of Physical Medicine and Rehabilitation; Basics of Diagnostics. • Clinical Stage: Clinical Sciences; Functional Diagnosis in Physical Medicine and Rehabilitation; Therapies in Physical Medicine

	<p>and Rehabilitation.</p> <ul style="list-style-type: none"> • Consolidation Stage: Pulmonary Rehabilitation; Cardiovascular Rehabilitation; Physical Rehabilitation in Neurology; Physical Rehabilitation in Pediatrics; Physical Rehabilitation in Geriatrics; Physical Rehabilitation in Traumatology & Orthopedics.
<p>Aims of the Educational Program</p>	<p>Aim of the program is to prepare competitive and competent bachelor of Physical Medicine and Rehabilitation through outcome-based teaching approach and development of clinical/practical skills relevant to the learning outcomes, able to:</p> <ul style="list-style-type: none"> • to apply basic biomedical research methods and evidence-based practice to the process of physical therapy examination, evaluation, intervention, and rehabilitation management, based on biopsychosocial approach, to prevent or remediate impairments, functional limitations and disabilities as related to movement and health across all ages, to improve functional movement potential and quality of life; • to provide rehabilitation services in both in-patient and out-patient settings, based on the multi/interdisciplinary team approach, utilizing appropriate interpersonal skills; • to conduct in professional and ethical manner, with responsible approach to societal needs; • to develop independent learning skills/activities and foster continuing professional growth and life-long learning.
<p>Requirements/Prerequisites to the Program</p>	<p>A student of the educational program of Physical Medicine and Rehabilitation can become a person with a full general or its equal education, having an appropriate document, who has passed the unified national exams and holds a certificate of compliance. Also, the prerequisites for admission to the program include the results obtained at the unified national exams, taking into account the priorities set by the University and their respective coefficients.</p> <p>The right to study on the program without the unified national exams is defined by the Georgian Law on “Higher Education” (Article 52). In this case applicant may be:</p> <ul style="list-style-type: none"> • a foreign citizen or stateless person with full general or its equal education received in another country; • Citizen of Georgia, who received full general or its equal

	<p>education abroad and the last 2 years of full general education have been taught in a foreign country</p> <ul style="list-style-type: none"> • Applicant who was/is studying and receiving credits in a foreign higher education institution recognized in accordance with the law of that country. Admission to the educational program through mobility is allowed after the end of one academic year of study. Mobility is available twice a year, within the deadline set by the Ministry of Education, Science, and Youth of Georgia.
<p>Learning Outcomes</p>	<p><u>Knowledge and Understanding:</u> LO-1. Demonstrate knowledge of the field of physical medicine and rehabilitation involving a critical understanding of theories and principles.</p> <p><u>Skills:</u> LO-2. Conduct a patient examination, evaluation and critically interpret the relevant information, implement planned physical therapy intervention; LO-3. Apply management skills in practice setting; LO-4. Integrate data and make conclusions; LO-5. Demonstrate proficiency in verbal, nonverbal, and written communications; LO-6. Cooperate in multidisciplinary and interdisciplinary professional environment.</p> <p><u>Responsibility and autonomy:</u> LO-7. Engage in education and lifelong learning activities; LO-8. Act professionally in the ethical and legal context.</p>
<p>Areas of Employment</p>	<p>The graduates – Bachelors of Physical Medicine and Rehabilitation can be employed in the rehabilitation departments of multi-profile hospitals and specialized clinics, in multi-profile and specialized rehabilitation clinics/centers, in ambulatory settings, resorts and wellness centers, private clinics, sports clubs and sports rehabilitation clinics/centers, in different level of educational organization, schools, also in community-based rehabilitation programs/services.</p>
<p>Postgraduate Education</p>	<p>The graduates – Bachelors of Physical Medicine and Rehabilitation can proceed to studies at Master’s level – second cycle of higher education.</p>

Curriculum

№	Course	ECTS credits
Preclinical Stage		
Semester I		30
1	Introduction to Specialty 1	2
2	Medical Physics, Biophysics	4
3	Medical Chemistry	3
4	Medical Biology, Genetics	3
5	Cytology, General Histology, Embriology	3
6	Anatomy 1	7
7	Professional Latin Language	2
8	Foreign Language 1	2
9	Public Health and Sociology	2
10	Academic Writing	2
Semester II		30
1	Introduction to Specialty 2	2
2	Medical Biochemistry	2
3	Histology	3
4	Anatomy 2	5
5	Physiology 1	4
6	Medical Parazitology	2
7	Informational Technologies	2
8	Basics of Psychology	2
9	Bioethics	2
10	Basics of Scientific Research	2
11	Foreign Language 2	2
12	Elective course: <ul style="list-style-type: none"> ○ <i>Biophysics of Electromagnetic Radiation</i> ○ <i>Valeology</i> ○ <i>Health Care Services, Health Indicators</i> ○ <i>German Language 1</i> 	2
Semester III		30
1	Pathologic Anatomy	3
2	Pathophysiology	3

3	Basics of Pharmacology	3
4	Biomechanics & Kinesiology 1	5
5	Dynamic Anatomy1	4
7	Physiology 2	4
8	Microbiology	2
9	Communication Skills	2
10	Foreign Language 3	2
11	Elective Course: <ul style="list-style-type: none"> ○ <i>Basics of Health Care Management and Leadership</i> ○ <i>Special course of Nutriciology</i> ○ <i>Basics of Pedagogy</i> ○ <i>German Language 2</i> 	2
Semester IV		30
1	Biomechanics & Kinesiology 2	3
2	Dynamic Anatomy2	3
3	Exercise Physiology & Biochemistry	2
4	Fundamentals of Diagnostics	4
5	Laboratory Medicine	2
6	Basics of Radiology	2
7	Fundamentals of Evidence-Based Medicine	2
8	Hygiene	2
10	Emergency Medicine	2
11	History of Medicine	2
12	Policy and Strategic Planning of the Physical Rehabilitation	4
13	Elective Course: <ul style="list-style-type: none"> ○ <i>Biomechanical Basics of SPA</i> ○ <i>Chemical, bacteriologic, radiologic, and nuclear safety</i> 	2
<i>Overcome barrier</i>		
Clinical Stage		
Semester V		30
1	Internal Medicine	5
2	General Surgery	3
3	Neurology	5
4	Oncology	3
5	Dermatology	2

6	Physiotherapy and Balneology 1	4
7	Clinical and Functional Assessment in Physical Medicine 1	4
8	Essentials of Massage	2
9	Elective Course: <ul style="list-style-type: none"> ○ <i>Otorhynolaringology</i> ○ <i>Occupational Medicine</i> ○ <i>Ophthalmology</i> ○ <i>Obstetrics/Gynecology</i> 	2
Semester VI		30
1	Pediatrics	2
2	Pediatric Neurology	2
3	Rheumatology	3
4	Traumatology, Orthopedics	3
5	Geriatrics	2
6	Manual Therapy	3
7	Prosthetics and Orthotics in Rehabilitation	3
8	Physiotherapy and Balneology 2	3
9	Clinical and Functional Assessment in Physical Medicine 2	4
10	Speech-Language Therapy	3
11	Elective Course: <ul style="list-style-type: none"> ○ <i>Medical Tourism</i> ○ <i>Rehabilitation Principles of Cerebral Palsy in children</i> ○ <i>Legislation and Regulation in Health Care</i> 	2
Semester VII		30
1	Clinical Principles of Physical Medicine and Rehabilitation	10
2	Therapeutic Exercise	7
3	Sports Medicine	3
4	Therapeutic Massage	4
5	Adapted Physical Education	3
6	Elective Course: <ul style="list-style-type: none"> ○ <i>Dry Needling Technique</i> ○ <i>Sports Massage</i> ○ <i>Tolerance and Diversity</i> 	3
<i>Overcome barrier</i>		
Consolidation Stage		
Semester VIII		30

1	Pulmonary Rehabilitation	4
2	Cardiovascular Rehabilitation	5
3	Physical Rehabilitation in Neurology	5
4	Physical Rehabilitation in Pediatrics	4
5	Physical Rehabilitation in Geriatrics	4
6	Physical Rehabilitation in Traumatology & Orthopedics	5
7	Elective Course: <ul style="list-style-type: none"> ○ <i>Resort Management</i> ○ <i>Essentials of Occupational Therapy</i> ○ <i>Manual Lymphatic Drainage</i> 	3
Total		240