

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 – English

Date of accreditation - 2020

Program Directors –

Lela Maskhulia, Professor

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 | English |
| 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 Higher Education 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 |

| | |
|---|---|
| | <p>Medicine 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"> • 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; • provide rehabilitation services in both in-patient and out-patient settings, based on the multi/interdisciplinary team approach, utilizing appropriate interpersonal skills; • conduct in professional and ethical manner, with responsible approach to societal needs; • develop independent learning skills/activities and foster continuing professional growth and life-long learning. |
| <p>Requirements/Prerequisites to the Program</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 education abroad and the last 2 years of full general education have been taught in a foreign country • 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, |

| | |
|---|--|
| | <p style="text-align: center;">Science and Youth of Georgia.</p> <p>Abovementioned individuals with corresponding documentation should apply (send the documents) to the Ministry of Education, Science and Youth of Georgia. After approval from the Ministry and proof of proficiency in English at least at B1 level they have right to start the undergraduate program.</p> <ul style="list-style-type: none"> The Georgian citizen 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, and overcame barrier in English $\geq 75\%$ can be enrolled to the educational program of Physical Medicine and Rehabilitation. ??? |
| <p style="text-align: center;">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 style="text-align: center;">Areas of Employment</p> | <p>The graduates – Bachelors of Physical Medicine and Rehabilitation will 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</p> |

| | |
|-------------------------------|--|
| | rehabilitation clinics/centers, in different level of educational organization, schools, also in community-based rehabilitation programs/services. |
| Postgraduate Education | The graduates – Bachelors of Physical Medicine and Rehabilitation can proceed to studies at Master’s level – second cycle of higher education. |

Curriculum Courses Referring to Student Workload for Academic Year 2023-2024

| N | Course | ECTS | Number of Hours | | | Course and ECTS Distribution In Semesters | | | | | | | |
|---------------------|---|------|-----------------|------------------|-------|---|--------------|--------------|---------------|------------|-------------|--------------|---------------|
| | | | Contact | Independent Work | Total | I Semester | I I Semester | III Semester | IV ¼ Semester | V Semester | VI Semester | VII Semester | VIII Semester |
| Core Courses | | | | | | | | | | | | | |
| 1 | Introduction to Specialty 1 | 2 | 29 | 31 | 60 | 2 | | | | | | | |
| 2 | Medical Physics, Biophysics | 4 | 76 | 44 | 120 | 4 | | | | | | | |
| 3 | Medical Chemistry | 3 | 42 | 48 | 90 | 3 | | | | | | | |
| 4 | Medical Biology, Genetics | 3 | 42 | 48 | 90 | 3 | | | | | | | |
| 5 | Anatomy 1 | 7 | 102 | 108 | 210 | 7 | | | | | | | |
| 6 | Cytology, General Histology, Embriology | 3 | 42 | 48 | 90 | 3 | | | | | | | |
| 7 | Professional Latin Language | 2 | 32 | 28 | 60 | 2 | | | | | | | |
| 8 | Georgian Language 1 | 4 | 32 | 88 | 120 | 4 | | | | | | | |
| 9 | Public Health and Sociology | 2 | 32 | 28 | 60 | 2 | | | | | | | |
| 10 | Introduction to Specialty 2 | 2 | 31 | 29 | 60 | | 2 | | | | | | |
| 11 | Medical Biochemistry | 2 | 46 | 14 | 60 | | 2 | | | | | | |
| 12 | Histology | 3 | 42 | 48 | 90 | | 3 | | | | | | |
| 13 | Anatomy 2 | 5 | 72 | 78 | 150 | | 5 | | | | | | |
| 14 | Physiology 1 | 4 | 61 | 59 | 120 | | 4 | | | | | | |
| 15 | Medical Parazitology | 2 | 42 | 18 | 60 | | 2 | | | | | | |
| 16 | Informational Technologies | 2 | 42 | 18 | 60 | | 2 | | | | | | |
| 17 | Basics of Psychology | 2 | 32 | 28 | 60 | | 2 | | | | | | |

| | | | | | | | | | | | | |
|----|---|---|----|----|-----|--|---|---|---|---|---|--|
| 18 | Georgian Language 2 | 2 | 32 | 28 | 60 | | 2 | | | | | |
| 19 | Bioethics | 2 | 17 | 43 | 60 | | 2 | | | | | |
| 20 | Basics of Scientific Research | 2 | 22 | 38 | 60 | | 2 | | | | | |
| 21 | Pathologic Anatomy | 3 | 42 | 48 | 90 | | | 3 | | | | |
| 22 | Pathophysiology | 3 | 57 | 33 | 90 | | | 3 | | | | |
| 23 | Basics of Pharmacology | 3 | 42 | 48 | 90 | | | 3 | | | | |
| 24 | Biomechanics & Kinesiology 1 | 5 | 72 | 78 | 150 | | | 5 | | | | |
| 25 | Dynamic Anatomy1 | 4 | 57 | 63 | 120 | | | 4 | | | | |
| 26 | Physiology 2 | 4 | 61 | 59 | 120 | | | 4 | | | | |
| 27 | Microbiology | 2 | 42 | 18 | 60 | | | 2 | | | | |
| 28 | Communication Skills | 2 | 12 | 48 | 60 | | | 2 | | | | |
| 29 | Georgian Language 3 | 2 | 32 | 28 | 60 | | | 2 | | | | |
| 30 | Biomechanics & Kinesiology 2 | 3 | 57 | 33 | 90 | | | | 3 | | | |
| 31 | Exercise Physiology & Biochemistry | 2 | 42 | 18 | 60 | | | | 2 | | | |
| 32 | Dynamic Anatomy2 | 3 | 57 | 63 | 90 | | | | 3 | | | |
| 33 | Fundamentals of Diagnostics | 4 | 57 | 63 | 120 | | | | 4 | | | |
| 34 | Basics of Radiology | 2 | 32 | 28 | 60 | | | | 2 | | | |
| 35 | Laboratory Medicine | 2 | 42 | 18 | 60 | | | | 2 | | | |
| 36 | Fundamentals of Evidence-Based Medicine | 2 | 32 | 28 | 60 | | | | 2 | | | |
| 37 | Hygiene | 2 | 32 | 28 | 60 | | | | 2 | | | |
| 38 | History of Medicine | 2 | 32 | 28 | 60 | | | | 2 | | | |
| 39 | Emergency Medicine | 2 | 22 | 38 | 60 | | | | 2 | | | |
| 40 | Policy and Strategic Planning of the Physical Rehabilitation | 4 | 70 | 50 | 120 | | | | 4 | | | |
| 41 | Internal Medicine | 5 | 72 | 78 | 150 | | | | | 5 | | |
| 42 | General Surgery | 3 | 42 | 48 | 90 | | | | | 3 | | |
| 43 | Neurology | 5 | 78 | 72 | 150 | | | | | 5 | | |
| 44 | Oncology | 3 | 34 | 56 | 90 | | | | | 3 | | |
| 45 | Dermatology | 2 | 23 | 37 | 60 | | | | | 2 | | |
| 46 | Physiotherapy and Balneology 1 | 4 | 57 | 63 | 120 | | | | | 4 | | |
| 47 | Clinical and Functional Assessment in Physical Medicine 1 | 4 | 48 | 72 | 120 | | | | | 4 | | |
| 48 | Essentials of Massage | 2 | 34 | 26 | 60 | | | | | 2 | | |
| 49 | Pediatrics | 2 | 26 | 34 | 60 | | | | | | 2 | |
| 50 | Pediatric Neurology | 2 | 34 | 26 | 60 | | | | | | 2 | |
| 51 | Rheumatology | 3 | 42 | 48 | 90 | | | | | | 3 | |
| 52 | Traumatology, Orthopedics | 3 | 46 | 44 | 90 | | | | | | 3 | |

| | | | | | | | | | | | | | |
|------------------|---|----|-----|-----|-----|--|---|---|---|---|---|----|---|
| 53 | Manual Therapy | 3 | 47 | 43 | 90 | | | | | | 3 | | |
| 54 | Prosthetics and Orthotics in Rehabilitation | 3 | 38 | 52 | 90 | | | | | | 3 | | |
| 55 | Geriatrics | 2 | 26 | 34 | 60 | | | | | | 2 | | |
| 56 | Physiotherapy and Balneology 2 | 3 | 57 | 33 | 90 | | | | | | 3 | | |
| 57 | Clinical and Functional Assessment in Physical Medicine 2 | 4 | 48 | 72 | 120 | | | | | | 4 | | |
| 58 | Speech-Language Therapy | 3 | 38 | 52 | 90 | | | | | | 3 | | |
| 59 | Clinical Principles of Physical Medicine and Rehabilitation | 10 | 106 | 194 | 300 | | | | | | | 10 | |
| 60 | Therapeutic Exercise | 7 | 82 | 128 | 210 | | | | | | | 7 | |
| 61 | Sports Medicine | 3 | 38 | 52 | 90 | | | | | | | 3 | |
| 62 | Therapeutic Massage | 4 | 66 | 54 | 120 | | | | | | | 4 | |
| 63 | Adapted Physical Education | 3 | 42 | 48 | 90 | | | | | | | 3 | |
| 64 | Pulmonary Rehabilitation | 4 | 50 | 70 | 120 | | | | | | | | 4 |
| 65 | Cardiovascular Rehabilitation | 5 | 70 | 80 | 150 | | | | | | | | 5 |
| 66 | Physical Rehabilitation in Neurology | 5 | 70 | 80 | 150 | | | | | | | | 5 |
| 67 | Physical Rehabilitation in Pediatrics | 4 | 50 | 70 | 120 | | | | | | | | 4 |
| 68 | Physical Rehabilitation in Geriatrics | 4 | 58 | 62 | 120 | | | | | | | | 4 |
| 69 | Physical Rehabilitation in Traumatology & Orthopedics | 5 | 70 | 80 | 150 | | | | | | | | 5 |
| Elective Courses | | | | | | | | | | | | | |
| 1 | Biophysics of Electromagnetic Radiation | 2 | 18 | 42 | 60 | | 2 | | | | | | |
| 2 | Valeology | 2 | 18 | 42 | 60 | | 2 | | | | | | |
| 3 | Health Care Services, Health Indicators | 2 | 22 | 38 | 60 | | 2 | | | | | | |
| 4 | Basics of Health Care Management and Leadership | 2 | 22 | 38 | 60 | | | 2 | | | | | |
| 5 | Special course of Nutriciology | 2 | 22 | 38 | 60 | | | 2 | | | | | |
| 6 | Basics of Pedagogy | 2 | 22 | 38 | 60 | | | 2 | | | | | |
| 7 | Chemical, bacteriologic, radiologic, and nuclear safety | 2 | 32 | 28 | 60 | | | | 2 | | | | |
| 8 | Biomechanical Basics of SPA | 2 | 32 | 28 | 60 | | | | 2 | | | | |
| 9 | Otorrhynolaringology | 2 | 26 | 34 | 60 | | | | | 2 | | | |
| 10 | Occupational Medicine | 2 | 32 | 28 | 60 | | | | | | 2 | | |
| 11 | Ophthalmology | 2 | 14 | 46 | 60 | | | | | | 2 | | |
| 12 | Obstetrics/Gynecology | 2 | 26 | 34 | 60 | | | | | | 2 | | |

| | | | | | | | | | | | | | |
|----|---|---|----|----|----|--|--|--|--|--|---|---|---|
| 13 | Rehabilitation Principles of Cerebral Palsy in children | 2 | 23 | 37 | 60 | | | | | | 2 | | |
| 14 | Medical Tourism | 2 | 34 | 26 | 60 | | | | | | 2 | | |
| 15 | Legislation and Regulation in Health Care | 2 | 26 | 34 | 60 | | | | | | 2 | | |
| 16 | Sports Massage | 3 | 42 | 48 | 90 | | | | | | | 3 | |
| 17 | Dry Needling Technique | 3 | 42 | 48 | 90 | | | | | | | 3 | |
| 18 | Tolerance and Diversity | 3 | 32 | 58 | 90 | | | | | | | 3 | |
| 19 | Introductory Course to Occupational Therapy | 3 | 32 | 58 | 90 | | | | | | | | 3 |
| 20 | Manual Lymphatic Drainage | 3 | 42 | 48 | 90 | | | | | | | | 3 |
| 21 | Resort Management | 3 | 22 | 68 | 90 | | | | | | | | 3 |