



1990

LEFKE AVRUPA ÜNİVERSİTESİ
EUROPEAN UNIVERSITY OF LEFKE

**DEPARTMENT OF
PHYSIOTHERAPY & REHABILITATION**

PROGRAM INFORMATION

www.eul.edu.tr

PROGRAM INFORMATION

Program Name and Degree Awarded: Physiotherapy & Rehabilitation
Bachelor's degree

Duration of Studies: 4 year

Total Credits / ECTS: 157 credits hours and 240 ECTS

Language of Instruction: English

Mission and Vision

Mission:

The mission of the Physiotherapy and Rehabilitation undergraduate program is to train physiotherapists who are committed to ethical values, equipped with scientifically based knowledge and skills, who embrace lifelong learning, and who contribute to the protection and improvement of individual and community health. The program aims to equip students with critical thinking, research, and innovative solution-generating skills through a problem-based learning approach, while also contributing to national and international professional collaboration and scientific advancements.

Vision:

Our vision is to improve problem based education, to develop protective physiotherapy methods in areas affecting community health, to bring the profession of physiotherapy to the contemporary level within the health services sphere and ultimately to contribute to professional development within both national as well as international scientific topics.

Program Objectives

The mission of the Physiotherapy and Rehabilitation Department is to: to train Physiotherapists who have adopted the concept of lifelong learning, who are open to innovations and follow technological and scientific developments related with the field, who can use theoretical knowledge in the practical applications, and select and implement the most accurate evaluation and application program, who can develop projects for the benefit of the society, who are bound up with ethical values, and at the same time who portrays explorer, contemporary, knowledgeable and skilful acts with respect to human rights.

Program Learning Outcomes

Upon graduation, Physiotherapy and Rehabilitation graduates will be able to:

1. Possess communication skills.
2. Follow laws and legislations and regulations about physiotherapy and rehabilitation.
3. Evidence-based and forward thinking, maintaining the significance and relevance of physiotherapy and rehabilitation as a profession.

4. Learn and use basic medical terminology and clinical knowledge needed for physiotherapy and rehabilitation applications.
5. Apply assessments for physiotherapy and rehabilitation.
6. Identify clinical physiotherapy and rehabilitation programs with the physiotherapy and rehabilitation methods
7. Plan and apply individual physiotherapy and rehabilitation program.
8. Follow innovations about physiotherapy and rehabilitation applications.
9. Apply physiotherapy and rehabilitation applications based on occupational health and safety.
10. Adapt, plan and apply ethical issues about physiotherapy and rehabilitation applications.
11. Archive and save documents about physiotherapy and rehabilitation applications.
12. Possess life-long learning skills and follow vocational innovations.
13. Develop and follow professional knowledge and innovations by having a foreign language.
14. Possess presentation skill about physiotherapy and rehabilitation.
15. Plan, apply and present a scientific research about physiotherapy and rehabilitation applications.

Curriculum

PHYSIOTHERAPY & REHABILITATION							
1-3-5-7 DÖNEM				2-4-6-8 DÖNEM			
DERS KODU	DERS ADI	KREDİ	DERS TÜRÜ	DERS KODU	DERS ADI	KREDİ	DERS TÜRÜ
COMN103	PHYSIOLOGY	(3,0,0)3	Zorunlu	UHTC02	TURKISH	(2,0,0)2	Seçmeli
COMN105	ANATOMY	(3,0,0)3	Zorunlu	UHTC01	HISTORY	(2,0,0)2	Seçmeli
COMN121	PHYSICS I	(3,0,0)3	Zorunlu	UFLE02	FOREIGN LANGUAGE ELECTIVE II (ENGLISH)	(3,0,0)3	Seçmeli
UFLE01	FOREIGN LANGUAGE ELECTIVE I (ENGLISH)	(3,0,0)3	Seçmeli	HSCC206	PATHOLOGY	(2,2,0)3	Zorunlu
PTRH107	NORMAL MOTOR DEVELOPMENT	(2,0,0)2	Zorunlu	PTRH108	PSYCHOSOCIAL REHABILITATION AND ETHICS	(3,0,0)3	Zorunlu
PTRH111	HEAT - LIGHT	(2,0,0)2	Zorunlu	PTRH114	HYDROTHERAPY	(2,0,0)2	Zorunlu
UTEC01	UNIVERSITY ELECTIVE I	(3,0,0)3	Seçmeli	PTRH152	ANATOMY FOR PHYSIOTHERAPY	(3,0,0)3	Zorunlu
COMN104	PSYCHOLOGY	(3,0,0)3	Zorunlu	PTRH154	PHYSIOLOGY FOR PHYSIOTHERAPY	(2,2,0)3	Zorunlu
HSEL01	HEALTH SERVICES ELECTIVE I	(3,0,0)3	Seçmeli	PTRH202	PRINCIPLES OF TREATMENT EXERCISE	(2,2,0)3	Zorunlu
PTRH203	MEASUREMENT AND EVALUATION IN PHYSIOTHERAPY	(2,2,0)3	Zorunlu	PTRH204	MANIPULATION AND MOBILIZATION II	(2,2,0)3	Zorunlu
PTRH205	MANIPULATION AND MOBILIZATION I	(2,2,0)3	Zorunlu	PTRH208	EXERCISE PHYSIOLOGY	(2,2,0)3	Zorunlu
PTRH207	ELECTROTHERAPY I	(2,2,0)3	Zorunlu	PTRH210	ELECTROTHERAPY II	(2,2,0)3	Zorunlu

PTRH213	BIOMECHANICS	(2,0,0)2	Zorunlu	PTEL01	TECHNICAL ELECTIVE I	(3,0,0)3	Seçmeli
PTRH215	NEUROANATOMY	(2,0,0)2	Zorunlu	PTRH222	GERIATRIC PHYSIOTHERAPY AND REHABILITATION	(2,0,0)2	Zorunlu
PTRH217	NEUROPHYSIOLOGY	(2,0,0)2	Zorunlu	PTRH250	CLINICAL SCIENCES	(2,0,0)2	Zorunlu
HSEL02	HEALTH SERVICES ELECTIVE II	(3,0,0)3	Seçmeli	HSEL03	HEALTH SERVICES ELECTIVE III	(3,0,0)3	Seçmeli
PTEL02	TECHNICAL ELECTIVE II	(3,0,0)3	Seçmeli	HSEL04	HEALTH SERVICES ELECTIVE IV	(3,0,0)3	Seçmeli
PTRH300	SUMMER INTERNSHIP	(0,1,0)0	Zorunlu	PTRH302	NEUROPHYSIOLOGIC APPROACHES II	(2,2,0)3	Zorunlu
PTRH301	NEUROPHYSIOLOGIC APPROACHES I	(2,2,0)3	Zorunlu	PTRH304	KINESIOLOGY II	(2,0,0)2	Zorunlu
PTRH305	PEDIATRIC PHYSIOTHERAPY AND REHABILITATION	(3,0,0)3	Zorunlu	PTRH306	NEUROLOGIC PHYSIOTHERAPY AND REHABILITATION	(2,2,0)3	Zorunlu
PTRH307	SPORTIVE PHYSIOTHERAPY AND REHABILITATION	(2,2,0)3	Zorunlu	PTRH308	RHEUMATOLOGIC PHYSIOTHERAPY AND REHABILITATION	(2,2,0)3	Zorunlu
PTRH353	KINESIOLOGY I	(2,0,0)2	Zorunlu	PTRH316	ORTHOPAEDIC PHYSIOTHERAPY AND REHABILITATION	(2,2,0)3	Zorunlu
PTRH355	PULMONARY PHYSIOTHERAPY AND REHABILITATION	(1,2,0)2	Zorunlu	PTRH318	CARDIAC PHYSIOTHERAPY AND REHABILITATION	(2,2,0)3	Zorunlu
PTRH359	ORTHOTICS- PROSTHETICS AND REHABILITATION	(3,2,0)4	Zorunlu				
UFRC01	UNIVERSITY ELECTIVE I	(3,0,0)3	Seçmeli	UFRC02	UNIVERSITY ELECTIVE II	(3,0,0)3	Seçmeli
PTRH400	SUMMER TRAINING II	(0,1,0)0	Zorunlu	PTRH402	CLINICAL PRACTICE II	(2,8,0)6	Zorunlu
PTRH401	CLINICAL PRACTICE I	(2,8,0)6	Zorunlu	PTEL03	TECHNICAL ELECTIVE III	(3,0,0)3	Seçmeli
PTRH405	PHYSIOTHERAPY AND REHABILITATION SEMINAR	(2,0,0)2	Zorunlu	PTRH408	PROBLEM SOLVING IN CLINICAL PHYSIOTHERAPY II	(2,0,0)2	Zorunlu
PTRH407	PROBLEM SOLVING IN CLINICAL PHYSIOTHERAPY I	(2,0,0)2	Zorunlu	HSEL06	HEALTH SERVICES ELECTIVE VI	(3,0,0)3	Seçmeli
HSEL05	HEALTH SERVICES ELECTIVE V	(3,0,0)3	Seçmeli				

Laboratory and Equipment Capacity (if applicable)

Laboratories Used in Applied Courses:

- Anatomy Laboratory
- Manipulation and Mobilization Laboratory
- Electrotherapy Laboratory
- Neurological Rehabilitation Laboratory
- Hydrotherapy Laboratory

Inventories not included in the laboratories:

Laboratory	Inventories
Manipulation and Mobilization Laboratory	4 fixed stretchers 9 mobile stretchers 1 shoulder wheel 2 finger ladders 1 bar 2 cabinets
Electrotherapy Laboratory	13 stretchers 1 traction device and bed 7 enraf devices 1 short-wave diathermy device 1 microwave diathermy device 2 cabinets
Hydrotherapy Laboratory	8 thermostatic whirlpool bathtubs 2 infrared devices 1 hot pack boiler 1 cold pack boiler 1 paraffin boiler 1 stretcher 1 cabinet
Neurological Rehabilitation Laboratory	2 Bobath beds 2 Pneumatic compression devices 1 verticalization bed 4 cabinets with doors 1 parallel bar 1 corner ladder 1 wheelchair

Career Opportunities

Occupational Areas of Graduates;

- Therapy Centres (University Hospitals, Training and Research Hospitals, State Hospitals etc.),
- Special education Centres
- Rehabilitation Centres
- Fitness Centres
- Vocational rehabilitation Centres
- Sport Clubs and National Teams
- Nursing Homes
- Industries (factories etc...)

Fields of Study

- Orthopedic Physiotherapy and Rehabilitation
- Neurological Physiotherapy and Rehabilitation
- Cardiopulmonary Physiotherapy and Rehabilitation
- Sports Physiotherapy
- Geriatric Physiotherapy and Rehabilitation
- Pediatrics Physiotherapy and Rehabilitation
- Musculoskeletal Physiotherapy and Rehabilitation
- Women's Health Physiotherapy
- Prosthetics-orthotics Physiotherapy and Rehabilitation
- Hand rehabilitation
- Sports Recreation Activities in Disabilities
- Physiotherapy and Rehabilitation in Public Health
- Occupational Therapy
- Vestibular Physiotherapy

Career Advancement;

For the academic progress of the graduates of our department within the scope of the study areas, our University offers master's degree opportunity. In this respect, our graduate students can get the title of "Expert". Apart from Physiotherapy and Rehabilitation, there is a possibility to receive a master's degree in different fields such as Neurological Rehabilitation, Cardiopulmonary Rehabilitation, Exercise Physiology, and Athlete Health.

If there are more than one physiotherapist in the hospitals, there is the opportunity of receiving the titles of "Responsible Physiotherapist" in "Head Physiotherapist" from the chief of medicine.

Contact Information

Head of Department

Prof. Dr. Serpil Ünyayar (V)

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COURSE CATALOGUE DESCRIPTIONS

1st Semester

COMN103 Physiology

The aim of the course is to describe the structures and understand the functional mechanisms which enable the human body to maintain a stable internal environment at rest, but which also allow the body to react to change. The subjects of the course includes the potential challenges to homeostasis in the human body and the general adaptations used to overcome them, the function of neurones, brain and spinal cord in controlling the afferent and efferent divisions of the peripheral nervous system, the contraction mechanism of the muscles, the control of the circulation – cardiac output, the defense mechanisms of the body, the delivery of oxygen to the tissue and the elimination of carbon dioxide from the body, digestion and absorption of food, the control of the production of the urine how fuel utilization and growth are regulated by the hormones and the principles of the reproduction.

COMN105 Anatomy

Introduction to anatomy, anatomical terminology, movements that occur in the body. Anatomy of the musculoskeletal system (skeletal system, including bones, ligaments and joints, and muscular system), nervous system (central nervous system and peripheral nervous system), circulatory system (cardiovascular system and lymphatic system), respiratory system, digestive system, reproductive system, urinary system, endocrine system and sense organs. Anatomical structures of the organs that are part of these systems, their functions, innervations, and locations discussed in the lecture.

COMN121 Physics I

This course aims to introduce the fundamental concepts of motion necessary for students of different disciplines and to provide essential background for their profession. The course provides deep understanding about kinematics and dynamics of one dimensional, two dimensional, circular and rotational motion. Also, the course aims to show the students applications of course material to different fields.

UFLE01 FOREIGN LANGUAGE ELECTIVE I (ENGLISH)

This course is intended for academically oriented students and it aims to bridge the gap between general and academic English. The course aims at developing the skills required for academic study, including note-taking, essay writing, as well as teaching strategies for undertaking research and dealing with unfamiliar academic vocabulary. The course also aims at teaching the features of guided writing, reading strategies such as predicting, skimming, and scanning. At the end of this course the students are expected to be able to; develop strategies, to improve the ability to comprehend complex academic texts, to develop strategies to produce more coherent writing and, make clear, appropriate, relevant notes from academic texts, and to adopt various approaches to deal with new or unknown vocabulary by practising effective use of dictionaries, and through making effective vocabulary records.

PTRH107 Normal Motor Development

Movement and Functional Development: To understand movement and function development from the fetus period to the childhood, and to transfer the functions of movement and function to paediatric physiotherapy and rehabilitation applications. Development Theories, Development of normal and abnormal motion and function, Reflex and sensory development, Learning motor development steps.

PTRH111 Heat-Light

The basic principles of the heat-light therapy aimed to gain understanding about effects of the inflammation, healing mechanism and pain. Historical development, physical foundations, physiological effects and clinical applications of the heat waves and electromagnetic spectrum will be discussed. In addition, heat and light agents will be shown practically.

COMN104 Psychology

This course is a broad introduction to the field of psychology. Aim of this course is give the foundation of 'what is psychology' and 'what are the main issues and topics' in psychology to the students. With this aim student will cover schools in psychology, biological basis of behaviour, sensation and perception, states of consciousness, learning, memory, cognition, psychological disorders, health and stress, life span development and personality development. Students explore the key figures, diverse theoretical perspectives, and research findings that have shaped some of the major areas of contemporary psychology. This course also examines the research methods used by psychologists across these areas to study the origins and variations in human behaviour.

2nd Semester

UHTC02 TURKISH

To show the characteristics and rules of operation of Turkish language with examples; to give the students the ability and habit to express their feelings and thoughts accurately and effectively; developing vocabulary through written and oral texts; The aim of this course is to teach the rules of reading texts or the programs they listen to correctly. COM 106 course aims to provide basic Turkish reading, speaking and writing skills for international students.

UHTC01 HISTORY

The course provides a detailed exposure on the history of the construction of the Turkish Republic under the light of Kemal Atatürk's principles this course is designed for Turkish speaking students. COM108 is designed for non-Turkish speaking foreign students. The aim of the course is to introduce a brief history of Turkish Republic and Cyprus. Social, economic and political aspects and effects of Western Civilization on Turkey and Cyprus. Relations with Middle East.

UFLE02 FOREIGN LANGUAGE ELECTIVE II (ENGLISH)

This course is the continuation of the COM101 English I course. Similar issues are focused on as in the former course with a higher tone of language. This course integrates all four language skills and teaches students how to integrate skills and content in real-world academic contexts. High-interest and intellectually-simulating authentic materials are used to familiarize students with academic content. The course also aims at developing the ability to participate in exchanges of

information and opinions in the context of the specific field, and to write instructions, descriptions and explanations about topics in the related field. Extra importance is put on teaching student's terminology related to the specific field. (pre-requisite: COM101)

HSCC206 Pathology

Definition of Pathology, with learning bone and joint diseases, congenital disorders, osteomyelitis, fracture healing, neurology, genetic diseases, muscle diseases, metabolic disorders, laboratory diagnosis, bone tumours, respiratory system, diseases of cardiovascular system, diseases of nervous system. Pathological processes in cell and tissue, tissue repair, acute and chronic inflammation musculoskeletal, pathology of neurological and immune system diseases, pathology of genetic diseases.

PTRH108 Psychosocial Rehabilitation and Ethics

Definition of physiotherapy and rehabilitation, understandings of multidisciplinary work in rehabilitation, occupational identity of physiotherapist, authority and responsibilities of physiotherapist, principles to be followed in deontology, behaviour forms, and communication with patients. Learning the concepts of health and psychosocial health, with learning different psychosocial rehabilitation approaches in different disability groups.

PTRH114 Hydrotherapy

Introduction the hydrotherapy, history, complications in hydrotherapy, hydrotherapy methods, hydrotherapy baths, whirlpool, contrast baths, Hubbard tank, hydrotherapy methods-showers, Jacuzzi, balneology treatments and effects, sauna and application forms, thalassotherapy, physical features of aquatic pools (size, disadvantages, pool chemicals), pool exercises environment and equipment's, pool safety warnings and symbols, hydrotherapy techniques and practices.

PTRH152 Anatomy for Physiotherapy

Urogenital system, Endocrine system, Nervous system (CNS gross anatomy, medulla spinalis, brain stem, medulla oblongata, pons, mesencephalon, brain, cerebrum, diencephalon, cranial nerves, spinal nerves and their plexuses, autonomic nervous system, sympathetic system, parasympathetic system, sensory organs and receptors, skin), Smell organ and ways, Taste organ and ways, Hearing organ and ways, Reflex and reflex arc.

PTRH154 Physiology for Physiotherapy

The general content of the course, the physiological functioning of the immune system, homeostasis, immune system relationship, active-passive immunity, vaccines, sensory organs, their effects in human life, skin physiology, skin diseases, pain and physiology, eye and vision physiology, ear-hearing physiology, balance physiology, respiratory physiology, oxygenation and factors that prevent breathing, movement system physiology, sports physiology.

3rd Semester

PTRH203 Measurement and Evaluation in Physiotherapy

Patient story and general physiotherapy evaluations, basic principles of movement, posture analysis (anterior, lateral, posterior), shortness and flexibility tests, anthropometric measurements

(circumference, length, diameter and fat measurements), normal joint motion and muscle strength assessments.

PTRH205 Manipulation and Mobilization I

The mechanical, physiological, psychological and reflex effects of specific massage techniques, the evaluation methods used in determining the effectiveness after application, practical applications, indications and contraindications of these methods.

PTRH 207 Electrotherapy I

Electrophysiological mechanisms, physiological responses of muscles and nerves, healthy and non-invasive muscular stimulation characteristics will be discussed; basic characteristics of low frequency and medium frequency currents and application principles will be discussed.

PTRH213 Biomechanics

Basic concepts and research areas of the biomechanics, forces, lever systems, stability states, applications and clinical examples.

PTRH215 Neuroanatomy

The clinical features of the peripheral nervous system, the clinical features of the muscles and pathologies of the affected muscles, the macro anatomic features of the medulla spinalis, brainstem, diencephalon and telencephalon, the clinical features of the functions, the clinical features of the autonomic nervous system and pathologies, the interactive presentation with the lecturer and the student.

PTRH217 Neurophysiology

Introduction to neurophysiology, organisation of the C. N. S., Sleep physiology, Cerebrospinal fluid, Blood brain barrier, Thalamus, Hypothalamus, Reticular formation, Basal ganglia, Cerebellum, Sensory processing, Motor cortex, Control of voluntary movement, Speech, Learning, Memory, Pain.

4th Semester

PTRH202 Principles of Treatment Exercise

Planning the exercise program, active assistive, passive and resistance exercises, posture exercises for lordosis-kyphosis-scoliosis-round back-shoulder and lower limbs, stretching exercises, progressive resistance exercises, relaxation exercises, special exercises, planning the home program, traction, practice areas and methods.

PTRH204 Manipulation and Mobilization II

Basic features of joint and soft tissue functional anatomy, biomechanics and pathomechanics, manipulation, mobilization and transverse friction techniques, basic measurement, evaluation and manual treatment applications in joints and soft tissue pathologies, clinical decision making and case examples.

PTRH208 Exercise Physiology

Cardiovascular system and exercise, cardiovascular regulation and integration, assessment of functional capacity of the cardiovascular system, measurement of individual differences and energy capacity, exercise tests, energy usage during the rest and the physical activity, aerobic and anaerobic training, factors affecting maximal aerobic power, recovery pulmonary system and exercise respiration, exercise and hormonal system, ergogenic aids, thermoregulation and exercise, exercise control, acid-base balance muscle physiology, musculoskeletal and exercise, nerve physiology, synaptic transmission, excitation-inhibition neural control, position sense and kinaesthesia, underwater and high altitude physiology, body composition.

PTRH210 Electrotherapy II

Information's about high frequency currents, Short wave diathermy, Microwave diathermy, Ultrasound, Transcutaneous electrical nerve stimulation, Biofeedback, Magneto therapy, High voltage stimulation.

PTRH250 Clinical Sciences

Internal Medicine, Hematology, Infectious Diseases, Endocrinology, Geriatrics, Cardiology, Chest Diseases, Laboratory Tests / Autoantibodies in Rheumatology, Approach to Arthritis Patient, Gastrointestinal and Renal Diseases, Patient with Low Back Pain, Connective Tissue Diseases and Drugs Used in Rheumatology, Anesthesia and Reanimation, General Surgery , Oncology, Thoracic surgery, Cardiovascular surgery, Plastic surgery, Urology, Emergency aid, radiology, ear-nose-throat diseases are reviewed.

PTRH222 Geriatric Physiotherapy and Rehabilitation

Anatomical and physiological structure of geriatric individuals, Aging process, Protective Rehabilitation, Elderly Exercise and Rehabilitation practices.

5th Semester

PTRH 300 Summer Internship

Appropriate electrotherapy and physical heat agents are applied on patients and patient follow-ups are performed.

PTRH 301 Neurophysiologic Approaches I

To determine the appropriate neurophysiological treatment approaches for hemiplegic patients during clinical trials, to establish and implement a program. Apply neurophysiological approaches such as Brunnstrom, Bobath, Johnstone in the rehabilitation program of hemiplegic patients.

PTRH305 Pediatric Physiotherapy and Rehabilitation

Congenital and acquired neurological problems in the childhood; Theoretical and practical teaching of physiotherapy and rehabilitation applications of spina bifida, cerebral palsy, epilepsy, central nervous system tumours, cerebral palsy, mental motor retardation, congenital brachial plexus injuries, congenital torticollis and neuromuscular diseases.

PTRH307 Sportive Physiotherapy and Rehabilitation

Explaining who the sport physiotherapist, with understanding the job and responsibilities. Explaining sports injuries (tendon, ligament, muscle, bone, cartilage, peripheral nerve) and classification, prevention of sports injuries physiotherapy and rehabilitation after sports injuries (first aid, in-field evaluation and treatment). Physiotherapy and rehabilitation after sports injuries, bandage and banding techniques, functional rehabilitation, returning back to the sport and principles, sports organizations in disability, physiotherapy and rehabilitation of disabled athletes

PTRH353 Kinesiology I

Principles of the Kinesiology, joint biomechanics, connective tissue biomechanics, bone biomechanics, cartilage biomechanics, shoulder, elbow, wrist biomechanics and kinesiology principles, columna vertebralis and Principles of the Kinesiology, knee, hip, ankle biomechanical principles, gait biomechanics, artificial joint biomechanics, explaining the fracture based on biomechanics, explaining the mechanism of the movement and active muscles, bones, joints, ligaments and tendons during the movement, understanding the daily stresses to these structures, effects of the stresses, different pathological situations.

PTRH355 Pulmonary Physiotherapy and Rehabilitation

History of the pulmonary rehabilitation, definition, principles, program applications, pathophysiology and rehabilitation of respiratory diseases, evaluation methods used in pulmonary rehabilitation, treatment methods used in pulmonary rehabilitation-respiratory exercises, huffing cough, dyspnoea positions, treatment methods used in pulmonary rehabilitation-postural drainage, percussion, shaking, vibration, active respiration techniques, physiotherapy and rehabilitation after pulmonary surgery, respiratory aids, oxygen therapy, aspiration, physiotherapy and rehabilitation in neonates with respiratory problems, energy consumption in daily activities in COPD.

PTRH359 Orthotics-Prosthetics and Rehabilitation

Biomechanical principles of orthoses; assessment before and after orthosis practice; Orthosis use for various segments such as upper, lower extremity and spinal region; Various injuries, musculoskeletal and nervous system diseases; Orthotic rehabilitation. Reasons of the amputations and levels of the amputation, congenital amputation, partial hand and foot prostheses, prosthesis used according to upper and lower limb amputation levels, static and dynamic adjustment of prosthesis and stump - socket compliance, control mechanisms, myoelectric prosthesis and amputee rehabilitation.

6th Semester

PTRH302 Neurophysiologic Approaches II

The role of neurophysiological mechanisms in motion control, the theoretical basis of Proprioceptive Neuromuscular Facilitation (PNF) techniques, the application of PNF techniques, upper and lower extremity patterns, neck and upper body patterns, bilateral symmetric, asymmetric and reciprocal patterns, repetitive contractions, antagonist opposition techniques, relaxation techniques, PNF and proximal vital functions, cushion activities, rotation, crawling, walking and ladder activities.

PTRH304 Kinesiology II

Interpretation of the equilibrium, gravity centre, weight bearing concepts and relations of motion of mechanical principles, creating and questioning examples; To explain normal walking characteristics and analyses, to improve the ability to list and distinguish changes observed in pathological walking.

PTRH306 Neurologic Physiotherapy and Rehabilitation

Clinical features of common neurological diseases such as movement disorders, demyelinating diseases, neuromuscular diseases, clinical features of the upper and lower motor neuron influences in terms of physiotherapy programs, special measurement and evaluation of diseases and neurophysiologically based on the therapies, project preparation.

PTRH308 Rheumatologic Physiotherapy and Rehabilitation

Rheumatic disease pathophysiology, evaluation and treatment approaches, preventive services in rehabilitation, disease process management and coping theories, recognition of different rheumatic diseases and necessary treatment approaches.

PTRH 316 Orthopaedic Physiotherapy and Rehabilitation

To understand and reflect the basic methods used in the evaluation of the orthopedic problems and musculoskeletal injuries that are necessary or unnecessary in surgery and to develop the ability to select and apply physiotherapy rehabilitation approaches which are most suitable for pathology and applied surgical special and situation.

PTRH318 Cardiac Physiotherapy and Rehabilitation

History, philosophy of cardiac rehabilitation programs, team approach in the cardiac rehabilitation, definitions, basic approaches in cardiac rehabilitation, cardiovascular endurance, exercise and physical fitness, coronary artery disease risk factors, equipment, therapeutic and rehabilitation phases, functional classification guide in inpatient activities, and dyspnoea scales, outcome measurement methods specific to the cardiac rehabilitation, exercise testing and training, rehabilitation in cardiovascular surgery, healthy individual.

7th Semester

PTRH400 Summer Training II

Practical application of physiotherapy evaluation and treatment approaches on cardiopulmonary, neurological and orthopaedic patients and practical applications of electrotherapy and physical heat agents on patients are performed.

PTRH401 Clinical Practice I

The treatment of the students is to enable the theoretical knowledge and skills to be applied in various clinical settings.

PTRH405 Physiotherapy and Rehabilitation Seminar

Preparation of seminars on physiotherapy evaluation and treatment for different diseases in the fields of neurological, orthopaedic, cardiopulmonary, obstetric and pediatric rehabilitation,

rheumatic diseases and muscular diseases, athletic health, public health and vocational rehabilitation by the students under the supervision of the instructor.

PTRH407 Problem Solving in Clinical Physiotherapy I

Students should prepare a care report to their supervisors and discuss this report in the class. Report should include; clinical assessment of the case report with group study, building a problem list according to the biopsychosocial model and with the evidence based treatment model.

8th Semester

PTRH 402 Clinical Practice II

The treatment of the students is to enable the theoretical knowledge and skills to be applied in various clinical settings.

PTRH 408 Problem Solving in Clinical Physiotherapy II

Physiotherapists frequently encounter neurological, paediatric, and amputee cases during clinical trials; To improve patient-centred clinical problem-solving skills by enabling students to identify problems at the level of disability, activity, and participation, and to contribute to the identification of appropriate physiotherapy and rehabilitation approaches in the light of evidence-based scientific evidence and to help students discuss personal and environmental factors that affect treatment approaches in the classroom environment.

ELECTIVE COURSES

HTE452 Management in Healthcare

The course introduces the healthcare and healthcare organizations; definitions of management; the functions in management; the roles of managers in delivery of healthcare services; the behavioural theories in organization of healthcare services; the importance of quality management in healthcare organizations; the role of technology in management; the future of management in healthcare services; financing healthcare services and the measures taken for reducing the disparities in health and access to healthcare services.

HTE451 Health and Technology

Within the scope of this course, technological developments in the field of health or science from the past to the present and what are the contributions of these developments to humanity will be covered. This course aims to learn the use of technological developments in the field of health.

PTRH 419 Communication in Health Services

In the course, information will be given about communication, health communication and public relations in health institutions and effective communication methods needed to prevent possible conflicts in health services.

CTE401 Occupational Safety and Health

This course provided information on the theory and history of occupational health and safety, and enforcement of laws that address occupational safety and health globally. It also aims to guide students in understanding the roles and responsibilities of workers, unions and employers. This

course also reviews other safety related issues and aspects of recognizing, evaluating, and understanding control of safety and health hazards in the workplace.

COM100 Introduction to Computers

This course is an introductory course to computers and their application; the basic components of computers; Random Access Memory (RAM), Read Only Memory (ROM), Central Processing Unit (CPU) and relationship between these hardware are introduced. Operating systems, application software (word processor, power point), Utility Software are introduced. Internet, network connections and the types, digital security and ethics are covered. Social networks and other web-based applications are introduced.

COM201 Public Health

This course aims to provide students an understanding of the definition of health, the importance of public health, the determinants of health, the health status measures; the role of epidemiology in public health, the epidemiology of chronic and infectious diseases, the promotion of public health, the protection of health, the levels of diseases prevention, the global health, the environmental health and the occupational health.

PTRH214 Surgical Sciences

Anaesthesia and reanimation, General surgery, Oncology, Chest surgery, Cardiovascular surgery, Plastic surgery, Urology, Emergency aids, Radiology, Otorhinolaryngology.

HSC301 Biostatistics

This course is designed to teach basic statistical knowledge and its use in health sciences. Students are expected to learn commonly used biostatistical techniques and use them in study design, data collection and interpretation of the findings.

COM351 Research Methods

This course aims to provide students with conceptual and theoretical framework in research methods. The course tends to develop student skills in research and the ability to choose research topic, make critical literature review, decide on research approach, and select proper sample by using different aspects of qualitative and quantitative research methods.

PTRH 404 Management and Organization in Physiotherapy

To gain knowledge about the management and the organization structures in the health sector, hospitals and rehabilitation centres and different models in physiotherapy and rehabilitation services, to gain the ability to analyse various structures and to improve the analysis and synthesis skills by providing different organizations in the classroom environment.

CFE201 Leadership and Management

In this course, an analysis of theoretical and practical knowledge is made. In this context, basic social and psychological factors associated with the concept of leadership and current theories will be explained and how theoretical knowledge can be applied in terms of leadership and management functions in organizations will be emphasized. The aim of the course is to provide students with a deep understanding of leadership and management concepts and to develop their own leadership skills.

CFE202 Environment and Sustainable Development

This course provides information on nature and environment along with sustainability concept, as well as guides students to gain awareness about environmental problems. It aims to inform students about the daily practices that will lead to a more sustainable living. Additionally, knowledge about the global and social effects of all practices on health, environment, safety, and current issues related to the field of their area of study and awareness of the legal consequences of their specific area of practices to solutions are covered.