

FACULTY OF HEALTH SCIENCES
DEPARTMENT OF PHYSIOTHERAPY AND REHABILITATION
COURSE CONTENT

I. FALL SEMESTER

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
AIT101	Ataturk's Principles and History of Turkish Revolution	(2,0,0)	2	2	Compulsory

This course aims to increase the historical awareness of department students. Within the scope of the course; the reasons that prepared the collapse of the Ottoman Empire and the Turkish Revolution. Disintegration of the Ottoman Empire, Tripoli War, Balkan Wars, First World War. Armistice of Mudros. The situation of the country in the face of the occupations and the reaction of Mustafa Kemal Pasha, the departure of Mustafa Kemal Pasha to Samsun. The opening of the Turkish Grand National Assembly of the National Struggle. Treaty of sevr. The Lausanne Peace Treaty. Atatürk's Principles: Republicanism, Nationalism. Populism, Statism. Secularism, Revolutionism topics are included.

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
BIL121	Information Technologies	(3,0,3)	3	3	Compulsory

The course covers the basic concepts of information technologies, software and hardware, operating systems in general, word processing programs, spreadsheet programs, data presentation, internet use in education, the effects of information technologies on social structure and its place in education, information, systems security and related ethical concepts contains.

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
FTR 111	Heat-Light	(2,0,1)	2	3	Compulsory

This course aims to provide the students of the department with theoretical and practical skills in the selection of the appropriate treatment modality, the principles of application and its application in clinical conditions. Within the scope of the course; Basic information for the use of heat agents (inflammation and healing mechanism), theories about the use of heat agents in pain, physical properties-physiological effects of heat, light sources, laws and use in physiotherapy, infrared, ultraviolet, physiological effects of laser, diseases and diseases in which laser is used. Application methods, physical and physiological effects of heliotherapy and cold application, indications and contraindications are included.

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
ING101	English I	(2,0,0)	3	4	Compulsory

This course aims to increase the level of English knowledge of department students. Within the scope of the course; introducing yourself, giving personal info, talking about objects, talking about family, describing and talking about buildings and furniture, talking about schedules, talking about routines, ability, asking for and giving directions, talking about food and quantities topics are included.

Note: This course is offered by the departments in which the medium of instruction is Turkish.

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
SBF105	Anatomy I	(3,0,2)	4	5	Compulsory

This course aims to teach department students the human anatomy in relation to body systems and functions. Within the scope of the course; introduction to anatomy, anatomical terms, general information about planes, axes and systems, topics related to lower extremity and upper extremity bones, joints and muscle structures.

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
SBF107	Physiology I	(4,0,0)	4	5	Compulsory

This course aims to make department students comprehend the parts of the organism (cell-tissue-organ-system), their functions and the relationship between these parts. Within the scope of the course; Cell physiology, blood physiology, muscle physiology, circulatory physiology, digestive system physiology, endocrine system physiology, nervous system physiology, musculoskeletal system physiology, medical physiology and cardiopulmonary system physiology are included.

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
SBF 113	Biochemistry	(2,0,0)	2	3	Compulsory

Based on the fundamentals of basic chemistry, the course deals with the ways of structure and function of carbohydrates, proteins, enzymes, lipids and nucleic acids, which are the basic principles of biochemistry. The aim of this course is to provide basic biochemistry information to be used in the field of Health Sciences and to integrate this information with the information in the related field.

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
SBF 115	Histology	(2,0,0)	2	3	Compulsory

The branch of science that studies tissues is called histology. In the course, the histological structure of cells and basic tissues in the human body, the human anatomy and physiology of these tissues are

examined. At the end of this course, the student will learn the histological structure of cells and basic tissues in the human body, and the relationship of these tissues with human anatomy and physiology.

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
SBF 123	Physics	(2,0,0)	2	2	Compulsory

This course aims to teach department students general physics rules. Within the scope of the course; measurement and units, vectors, motion with constant acceleration in one dimension, force and Newton's laws of motion, circular motion and applications of Newton's laws, work and kinetic energy, potential energy and conservation of energy, linear momentum and collisions, static equilibrium and elasticity, fluid mechanics, heat, and topics related to the zeroth and first laws of thermodynamics.

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
TUR101	Turkish I: Written Expression	(2,0,0)	2	2	Compulsory

This course aims to increase the level of Turkish grammar of department students. Within the scope of the course; reading passages related to the chapter; grammar studies; vocabulary and translation activities; listening activities; debates on current issues related to the department (Repetition of tenses, Internet history, Health and medicine, passive frameworks, Social issues, Environmental issues, Repetition of modals, Law and punishment, repetition of adjective phrases, Language and Literature, Repetition of noun phrases topics are included.

II. SPRING SEMESTER

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
AIT102	Ataturk's Principles and History of Revolution II	(2,0,0)	2	2	Compulsory

This course is a continuation of the AIT101 course and aims to increase the historical awareness of the department students. Within the scope of the course; Abolition of the Sultanate; Proclamation of the Republic; Taking the Election Decision in the First Parliament; Establishment of the People's Party; Ankara Becoming the Capital, Proclamation of the Republic and Reactions; Abolition of the Caliphate (The Emergence of the Problem of the Caliphate and the Events Preparing the Abolition of the Caliphate), Progressive Republican Party and Sheikh Said Rebellion; Law of Takrir-i Sukun; Closing the Progressive Republican Party; İzmir Assassination Attempt), Free Republican Party and

Menemen Incident; An Overview of Atatürk-Inönü Separation, Revolutions and Their Goals; Revolutions in Law; 1924 Organization-ı Esasiye Law; Adoption of the Turkish Civil Code; Adoption of Other Basic Laws; Revolutions in Women's Rights, Education and Culture; The Law of Unification of Education; Adoption of the New Turkish Alphabet; New Understanding of History and Language; From Darülfünun to Istanbul University; Fine Arts, Developments in Economics; Late Ottoman Economy; Turkish Economy Congress and Its Results; Economic Activities in the First Years of the Republic; Transition to the Practice of Statism, Revolutions Made in Social Life (Modernization in Clothing: The Law on Wearing Hats; Closure of Lodges, Zawiya and Tombs, Adoption of International Time, Calendar, Numbers, Measurements and Week Holidays; Adoption of the Law on Surnames; Developments), Turkey's Foreign Policy in Atatürk Era; Years 1919-1923; Years 1923-1930, Going to the Second World War and Turkish Foreign Policy 1931-1939, Principles of Atatürk; General Overview of Atatürk's Principles; Republicanism, Nationalism, Populism, Statism, Secularism, Revolutionism, İsmet İnönü Period (1938-1950); Domestic Policy During the Second World War; Establishment of the Democratic Party, Democratic Party Period (1950-1960); May 27 Military Intervention and National Unity Committee topics are included.

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
FTR112	Hydrotherapy and Balneotherapy	(2,0,1)	2	4	Compulsory

This course aims to teach the department students hydrotherapy and balneotherapy application methods, indications and contraindications. Within the scope of the course, introduction to hydrotherapy, brief history, dangers and complications of hydrotherapy, hydrotherapy methods; immersion baths, whirlpool application, contrast baths, butterfly bath, showers/jacuzzi, herbal baths and their effects, sauna and application methods, thalassotherapy, physical properties of aquatic pools, general characteristics of pools-dimensions-disinfection-pool chemicals, in-water exercise environment and equipment , pool safety warnings and markings, balneotherapy introduction, history, thermal waters available in nature, healing mud and healing gases, drinking, entering, applying to the body, breathing are included.

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
FTR124	Psychosocial Rehabilitation and Ethical Principles	(3,0,0)	3	4	Compulsory

This course aims to teach the department students hydrotherapy and balneotherapy application This course is designed to provide the department students with an understanding of the psychosocial picture of the individual in case of any physical, sensory or cognitive disability, disability or disorder, as well as to teach ethics, morality and deontology, to teach physiotherapy ethical rules, patient rights, rights of health workers. It aims to provide information about The course covers the definition of health and health services, the characteristics of multidisciplinary teamwork, communication with patients, communication with patients' relatives, ethical principles in health, ethical principles in physiotherapy.

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
ING102	English II	(3,0,0)	3	4	Compulsory

This course is a continuation of the ING101 course and aims to increase the level of English knowledge of the department students. Within the scope of the course; explaining a recipe, ordering food and making requests, comparing things/people/places, talking about now, making suggestions and arrangements, talking about past, giving advice, talking about the future, checking into a hotel topics are included.

Note: This course is offered by the departments in which the medium of instruction is Turkish.

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
SBF106	Anatomy II	(3,0,2)	4	5	Compulsory

This course aims to comprehend general and special information about endocrine, urogenital, nervous systems and sensory organs and to explain the structural and neighborhood relations between these organs. The course covers topics related to the respiratory system, excretory system, female and male reproductive system, endocrine system, central nervous system, peripheral nervous system, autonomic nervous system, and sensory organs.

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
SBF108	Physiology II	(4,0,0)	4	5	Compulsory

This course is a continuation of SBF107 Physiology I course and aims to comprehend the parts of the organism (cell-tissue-organ-system), their functions and the relationship between these parts. The course covers topics such as respiratory physiology, digestive physiology, sensory organs physiology, excretory physiology, endocrine system physiology.

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
SBF124	Self-Knowledge and Communication Skills	(2,0,0)	2	3	Compulsory

This course aims to teach department students the concepts related to communication. Within the scope of the course; definition of communication, communication process and elements, classification of communication, interpersonal communication: why do individuals communicate with each other, nature of interpersonal communication, factors that distinguish interpersonal communication from other types of communication; interpersonal communication: definition of interpersonal communication, communication models, elements and characteristics of interpersonal communication, effective speaking and listening, and issues related to conflict in communication.

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
-------------	-------------	---------	--------	------	----------------------------

TUR102	Turkish II: Oral Expression	(2,0,0)	2	2	Compulsory
--------	-----------------------------------	---------	---	---	------------

This course is a continuation of the TUR101 course and aims to increase the level of Turkish grammar of department students. Within the scope of the course; spelling, punctuation and composition (punctuation marks, other signs), Spelling, spelling rules (capital letters, spelling of numbers, spelling of abbreviations, spelling of quoted words), Composition (purpose of composition, method of writing composition), plan in composition, introduction, development, result, Expression features, clarity in expression, simplicity in expression, clarity and sincerity in expression, Expression disorders (using synonyms in sentences), Misuse of idioms, Expression styles (explanation, story, concise expression, description, satire, portrait, proof, speech, Verbal expression types (daily and impromptu speech, prepared speech, panel discussion, debate, panel), Written expression types (letter, telegram, greeting, invitation, literary letter), business letters, official letter, petition, report, report, decision, advertisement, conversation, criticism, memoir, travel writing, interview, survey, autobiography, biography, novel, story, fairy tale, fable, theatre, tragedy,drama ,scenario) topics are included.

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
BDN102	Physical Education	(2,0,0)	2	2	Elective

This course aims to teach the department students the effects of physical education and sports on the human organism. The course covers topics such as approaches for a healthy body and healthy life, adequate and balanced nutrition, the main purpose and main tasks of training, the relationship between load and rest in training, the effects of physical education and sports on the human organism, conditional and motoric characteristics and application competencies.

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
BSD101	Digital Game Design	(2,0,0)	2	2	Elective Course

The course covers the history of game design, its basic concepts, graphic realism and pedagogical aspects in games, types and effects of digital games, and digital game design process.

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
GSE101	Fine Arts Education: Music	(2,0,0)	2	2	Elective Course

The course includes Classical Western Music, Turkish Music, Jazz, Pop Music, Rock Music.

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
KAP110	Career Planning	(2,0,0)	2	2	Elective

Career planning course enables students to get acquainted with the business world, different sectors and the requirements of these sectors; It touches on the point of raising awareness among students about the importance of career planning in the preparation process for the business world.

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
SBF102	Drama and Education	(2,0,0)	2	2	Elective

This course aims to teach the department students the effectiveness of drama and educational features. Within the scope of the course; communication-interaction studies, theoretical study (basic concepts in creative drama: creativity, drama, creative drama, play and theater pedagogy, communication-interaction, role playing, improvisation, action, dramatic play, children's theater etc.), trust-harmony studies, theoretical work (stages and elements of creative drama), role playing and introduction to improvisation, role playing and improvisation theoretical work (history of creative drama), literary genres and creative drama.

III. FALL SEMESTER

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
FTR203	Basic Measurement and Evaluation in Physiotherapy	(2,0,3)	3	5	Compulsory

This course aims to provide department students with a general perspective on the basic concepts of musculoskeletal evaluation and the ability to evaluate healthy individuals or patients by specializing in their problems. Within the scope of the course, posture analysis, anthropometric measurements, circumference-length-diameter and fat tissue measurements, shortness tests, evaluation of flexibility, evaluation of normal joint movements, goniometric measurements, muscle testing (dynamometer, tensiometer, 1 maximum repetition, measurement with computer-assisted instruments, manual muscle testing) and practical applications are included.

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
FTR205	Manipulative Therapy I	(2,0,2)	3	5	Compulsory

This course aims to teach the department students the ability to define therapeutic massage, to explain the basic theory about the reflex, psychological and clinical effects of massage methods and techniques, to state the basic pathology of massage and situations that may be contraindicated to massage, and to apply therapeutic massage and connective tissue massage with the help of practical knowledge. aims. The scope of the course covers the mechanical, physiological, psychological and

reflex effects of specific soft tissue massage techniques and their practical applications, the subjects and practical applications of connective tissue massage and transverse friction massage.

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
FTR207	Electrotherapy I	(2,0,2)	3	5	Compulsory

This course aims to teach the department students the basic physiological principles and application methods of electrodiagnostic tests, low frequency currents and medium frequency currents. Within the scope of the course, the subjects of obtaining straight galvanic current, iontophoresis, medical and surgical galvanizing, modified galvanic current, electrodiagnosis, low frequency currents, diadynamic currents, interference currents, electric shock, surgers, functional electrical stimulation, Ultra-Reiz and Russian currents and practical applications.

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
FTR209	Kinesiology and Biomechanics I	(3,0,0)	3	4	Compulsory

This course aims to teach the department students the functions of the supporting body structures and their responses to loading, the body structures that create the movement, the basic mechanical properties of the movement and the functions of other body structures that play a role in the formation of the movement. Within the scope of the course, the definition of kinesiology, movement and movement types, mechanical principles, normal features of bone and functional adaptation of bone to normal/pathological stresses, collagen tissue, structure of muscle and cartilage, mechanical properties and pathokinetics, properties of synovial joints, movements in joints according to planes, joint shaking and sliding motion, balance, orientation planes and coordinates are included.

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
FTR217	Normal Motor Development	(2,0,0)	2	3	Compulsory

This course aims to provide department students with information about the normal development process in terms of postpartum, reflex and motor development stages. The course covers topics such as normal development terminology, embryonic development, factors affecting movement development, musculoskeletal factors, cardiopulmonary factors, oromotor factors, components of movement, postural reactions, and cornerstones in movement development.

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
FTR251	Neuroanatomy	(2,0,0)	2	3	Compulsory

This course aims to provide department students with the ability to understand the functions and features of the peripheral, central and autonomic nervous systems, and to distinguish dysfunctions that develop in neuroanatomical structures. Within the scope of the course, peripheral nervous system, autonomic nervous system, meninges, hemispheres and cerebrospinal fluid circulation, cerebral artery, vein and its pathologies, functional areas of the brain, cranial nerves and their pathologies, ascending and descending pathways, diencephalon and its pathologies, brain stem, cerebellum. and pathologies and theoretical teaching of the limbic system.

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
SBF203	Nutrition Principles	(2,0,0)	2	3	Compulsory

This course aims to provide department students with information about the principles and characteristics of nutrition. Within the scope of the course; definition and importance of nutrition, nutritional elements and functions, nutrition in special situations (pregnant-breastfeeding, 0-1 year old baby, school age, adolescent, elderly, etc.).

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
FTR213	Superficial Anatomy and Palpation	(2,0,0)	2	2	Elective

This course aims to teach the department students the basics of structural and functional anatomy, which is frequently used in manual therapy, to define the relevant anatomical structures and to localize and palpate the superficial anatomical structures. The course covers the features of palpation techniques, palpation aids, palpation techniques of bone, muscle, tendon and ligament structures in the upper and lower extremities.

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
FTR215	Pain Management in Physiotherapy	(2,0,0)	2	2	Elective

This course aims to teach the department students the physiological mechanisms of pain physiology and the methods used in the field of physiotherapy on pain management, the physiological mechanisms and the effect of the chosen physiotherapy technique and application for the problem on pain, the reasons for the need for physiotherapy and rehabilitation in pain management and the treatment features. The course covers topics such as introduction to pain, concepts and classification, pathophysiology of pain, pain assessment in physiotherapy, inflammation and pain, physiotherapy approaches and electrotherapy agents used in pain management, manual techniques and exercise in pain management, cognitive processes in pain management, and biopsychosocial approaches in pain.

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
SBF205	English for Health Sciences	(2,0,0)	2	2	Elective

This course is designed to help medical students develop listening, speaking, reading and vocabulary skills in English. Patient –physician interactions, usage of English in medical contexts.

IV. SPRING SEMESTER

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
FTR200	Professional Practice I	(0,8,0)	4	4	Compulsory

The internship, which is carried out in order to prepare students for institutional and hospital physiotherapists practically, is carried out in 3 weeks under the supervision of institutional and hospital physiotherapists and academic staff.

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
FTR204	Principles of Treatment Movements	(2,0,2)	3	5	Compulsory

This course aims to teach the department students the basic principles of evaluation for exercise, classification of exercises, preparation of exercise prescription, stretching exercises, flexibility exercises, strengthening exercises, relaxation exercises and other exercise practices. Within the scope of the course, planning of the exercise program, active-passive-active assistive and resistant exercises, stretching exercises, lordosis-kyphosis-scoliosis-round back-shoulder and lower extremities posture exercises, progressive resistance exercises, regional isometric exercises, relaxation exercises, home program topics such as planning, traction, usage areas and methods are included.

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
FTR206	Manipulative Therapy II	(2,0,2)	3	4	Compulsory

This course aims to enable students to have knowledge about joint-based manipulative therapy and to have the ability to apply basic manipulative techniques. Within the scope of this course; Features of passive joint mobilization techniques, Kalterborn peripheral joint mobilization techniques, spine-specific soft tissue mobilization applications, neuromobilization, Mulligan concept, Cyriax concept are included.

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
FTR208	Electrotherapy II	(2,0,2)	3	4	Compulsory

This course aims to teach the students of the department the basic physiological principles and application methods of high frequency currents. The course covers subjects such as generation of high frequency currents, short wave diathermy, microwave diathermy, ultrasound, transcutaneous electrical nerve stimulation, biofeedback, magnetotherapy, high voltage pulsed galvanic stimulation and electric shock.

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
FTR210	Kinesiology and Biomechanics II	(3,0,0)	3	4	Compulsory

This course aims to teach the department students the components of normal gait, its kinetic and kin values, pathological gait, as well as the pathomechanics and pathological conditions of the cervical vertebrae. The course covers topics such as normal gait kinesiology, gait kinesiology by age, border gait assessment, head-neck trunk and spinal region kinesiology.

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
FTR212	Exercise Physiology	(3,0,0)	3	3	Compulsory

This course aims to make department students comprehend the physiological effects of exercise and changes at the level of systems that occur accordingly. Within the scope of the course, cardiovascular system and exercise, cardiovascular regulation and integration, evaluation of the functional capacity of the cardiovascular system, personal differences and measurement of energy capacity, energy expenditure and physical activity, aerobic and anaerobic training, factors affecting maximal aerobic power, respiratory system and exercise, respiratory control, acid-base balance, muscle physiology, musculoskeletal system and exercise, nervous system physiology, position sense and kinesthesia, measurement of development of muscle strength, exercise and hormonal system, thermoregulation and exercise, undersea and high altitude physiology, body topics such as composition.

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
FTR216	Pharmacology	(2,0,0)	2	3	Compulsory

This course aims to provide students with information about drugs and their classification, active ingredients, mechanisms of action, dosage, bioavailability, and side effects. The course covers basic concepts in pharmacology, drug sources, drug development steps, drug administration routes, pharmacokinetics, and drug use in the elderly.

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
SBF208	Pathology	(2,0,0)	2	3	Compulsory

This course aims to provide department students with the ability to define pathological conditions and comprehend their symptoms. Within the scope of the course, muscle diseases, soft tissue tumors, peripheral nervous system diseases, bone tumors, infectious diseases of bone and fractures, cartilage tumors, pathology of arthritic diseases, central nervous system diseases, childhood diseases, connective tissue diseases, pathology of environmental and metabolic diseases. related topics are included.

V. FALL SEMESTER

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
FTR301	Internal Medicine	(3,0,0)	3	5	Compulsory

Within the scope of this course, the main branches of basic medical sciences are internal medicine (Diabetes mellitus, Gastrointestinal system diseases and chronic kidney failure and hematological diseases), cardiology (Hypertension, Coronary artery diseases, hypertensive heart diseases, valve diseases, cardiomyopathy, endocarditis, pericarditis), chest diseases. (restrictive and obstructive pulmonary diseases), neurology (Cerebrovascular Diseases, extrapyramidal system diseases, cerebellar system diseases, Medulla Spinalis Diseases and Spinal Cord tumors, Polyneuropathies and entrapment neuropathies, muscle diseases, demyelinating diseases), pediatric neurology (neurological evaluation in children, Cerebral Palsy and risk baby), rheumatological diseases and infectious diseases.

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
FTR303	Neurophysiological Approaches I	(2,0,2)	3	5	Compulsory

This course aims to teach the department students the basic neurophysiological approaches and application techniques used in physiotherapy. Within the scope of the course, the basic operations of the Proprioceptive Neuromuscular Facilitation (PNF) method, upper and lower extremity PNF patterns, neck and upper body PNF patterns, lower body PNF patterns, basic techniques used in PNF-focus, antagonist of antagonist, relaxation techniques- PNF and proximal vital functions, cushion activities, turning, crawling, walking and ladder activities and practical applications are included.

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
FTR305	Rehabilitation in Orthopedic and Rheumatic Diseases	(2,0,2)	3	5	Compulsory

This course aims to teach the department students the early or late rehabilitation principles of all orthopedic diseases that require surgery or not, and surgical or conservative treatment approaches to orthopedic problems. Within the scope of the course, the general principles of orthopedic rehabilitation, the importance of teamwork, bone and joint pathologies, wound healing and treatment, rehabilitation approaches following trauma, physiotherapy rehabilitation approaches applied after orthopedic and reconstructive surgery in traumatic, infectious and degenerative pathologies of the musculoskeletal system, collagen tissue diseases, bandage. Topics such as application techniques and practical applications are included.

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
FTR307	Pediatric Rehabilitation	(3,0,2)	3	5	Compulsory

This course aims to provide the department students with information about the chronological process of the neuromuscular system and motor development characteristics in children, and to have information about various neurological disorders that negatively affect motor development at birth and after birth, determining appropriate assessment approaches in terms of physiotherapy and rehabilitation and creating the necessary treatment programs. The course covers subjects such as cerebral palsy, mental motor retardation, congenital brachial plexus injuries, physiotherapy and rehabilitation applications of congenital torticollis and neuromuscular diseases and their practical applications.

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
FTR315	Cardiopulmonary Rehabilitation	(2,0,2)	3	5	Compulsory

This course aims to teach the department students the basic principles of cardiopulmonary rehabilitation. Within the scope of the course, the definition and principles of pulmonary rehabilitation, aims of chest physiotherapy, application techniques, evaluation of pulmonary diseases in terms of physiotherapy and rehabilitation, planning of treatment program, aims and application methods of rehabilitation before and after pulmonary surgery, physiotherapy-rehabilitation approaches in intensive care, postural drainage, respiratory control, neonatal physiotherapy approaches, history of cardiac rehabilitation, coronary artery diseases, myocardial infarction, early rehabilitation in infarction, risk factors and education, exercise training in late infarction and coronary artery disease, effort tests, exercise in diabetes mellitus, rehabilitation in cardiac surgery.

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
FTR309	Terminology in Physiotherapy	(2,0,0)	2	3	Elective

The aim of this course is to develop and reinforce students' familiarity with terms and concepts specific to the field of physiotherapy and rehabilitation. Within the scope of this course, the basic terminology specific to the musculoskeletal, neurological, cardiopulmonary rehabilitation main and sub-branches of physiotherapy and rehabilitation will be given in detail with examples.

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
FTR314	Academic Search in Physiotherapy	(2,0,2)	2	3	Elective

This course aims to develop the ability of the department students to read and understand the researches in the field of physiotherapy and rehabilitation, to discuss and to plan an exemplary research. Within the scope of the course, in the field of physiotherapy and rehabilitation, the importance of keyword selection, teaching and practice, teaching and practicing important databases to reach projects, teaching and practicing the ways of reaching projects by using various sources, examining the introduction sections of the projects, examining the method sections of the projects, the results sections of the projects. and the examination of the expression of the results, the examination of the results sections of the projects and the expression of the results, and the planning of a project at the theoretical level.

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
FTR319	Sports for the Disabled	(2,0,0)	2	2	Elective

This course aims to inform the students of the department about the meaning and importance of sports for the disabled, the types and classifications of disabilities, the effects of sports on the disabled, and the legal regulations regarding sports for the disabled. Within the scope of the course, the history of sports for the disabled, the general rules of the paralympic games, the paralympic sports facilities, the definition and classification of the disabled, the effects of exercise training for the disabled, appropriate physical fitness programs for the disabled, appropriate physical fitness programs for the disabled, athletic activities for the disabled, appropriate sports activities for different disability groups. , swimming activities for the disabled, doping for the disabled athletes and special Olympics.

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
FTR351	Hearing and Speech Treatment	(2,0,2)	2	3	Elective

This course aims to teach department students the anatomy, mechanics and pathologies of hearing and speech, to comprehend the limitations and inadequacies of oral motor functions, to gain the ability to evaluate these functions, and to comprehend physiotherapy methods related to oral motor education. The course covers topics such as anatomical and physiological features of the hearing and speech system and general features of the vestibular system, voice disorders and rehabilitation, speech disorders and rehabilitation approaches.

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
SBF303	Health Sciences English I	(2,0,0)	2	3	Elective

This course is designed to help medical students develop listening, speaking, reading and vocabulary skills in English. Patient –physician interactions, usage of English in medical contexts.

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
SBF305	First aid	(2,0,0)	2	2	Elective

This course aims to provide the department students with knowledge about basic first aid practices. Within the scope of the course, introduction to first aid and its general characteristics, evaluation of basic life functions, respiratory and circulatory system, first aid in injuries, first aid in bleeding, first aid in shock and first aid, burns and first aid, poisoning and first aid, first aid in fractures, dislocations and sprains. , basic life support, carbon monoxide poisoning and patient/injured transport techniques.

VI. SPRING SEMESTER

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
FTR300	Professional Practice II	(0,8,0)	4	4	Compulsory

The internship, which is carried out in order to prepare students for institutional and hospital physiotherapists practically, is carried out in 3 weeks under the supervision of institutional and hospital physiotherapists and academic staff.

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
FTR302	Surgical Medicine	(3,0,0)	3	5	Compulsory

Within the scope of this course, general surgery of basic medical sciences (Post-op patient follow-up, medication, equipment used in the Surgical Intensive Care Unit), obstetrics (genital organ anatomy, pelvic organ prolapses and prolapse surgeries overview, incontinence and incontinence surgeries overview and pregnancy), basic topics in orthopedic surgery, cardiovascular surgery, neurosurgery, and basic radiology knowledge topics for physiotherapists are included.

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
FTR304	Neurophysiological Approaches II	(2,0,2)	3	5	Compulsory

This course aims to teach the department students the neurophysiological principles, differences and application techniques of Bobath, Brunnstrom and Johnstone methods, which are the basic neurophysiological approaches used in physiotherapy. Practical applications of related topics are also included in the course.

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
FTR306	Special Topics in Physiotherapy	(2,0,0)	2	2	Compulsory

This course aims to provide the students of the department with more detailed information about the subjects determined during the semester and not covered by other courses. Within the scope of the course, there are subjects related to defining pathology in special subjects such as diabetes and chronic renal failure, and determining appropriate evaluation and treatment methods.

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
FTR308	Neurological Rehabilitation	(2,0,2)	3	5	Compulsory

This course aims to lay the groundwork for the students of the department on the methods to be used for evaluation in patients with neurological problems, planning the treatment program according to the results of the evaluation and determining the appropriate physiotherapy approaches. The course includes physiotherapy and rehabilitation evaluation specific to the diagnosis of spinal cord injuries, cerebrovascular attack, Parkinson's disease, Multiple Sclerosis Disease, lumbar and cervical radiculopathies, peripheral nerve entrapment neuropathies, neuromuscular junction diseases and lumbar spinal stenosis, and a treatment plan with appropriate targets.

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
FTR310	Sports Physiotherapy and Rehabilitation	(2,0,2)	3	4	Compulsory

This course aims to teach department students the principles of assessment and rehabilitation in sports injuries. The course covers topics such as general principles in the prevention of sports injuries, first aid, pretreatment, taping, definitive treatment, physiotherapy-rehabilitation in upper extremity sports injuries, physiotherapy-rehabilitation in lower extremity injuries.

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
FTR316	Orthotics and Prosthetic Rehabilitation	(3,0,0)	3	3	Compulsory

This course aims to teach the department students the purpose of using prostheses and orthoses and to make them comprehend the role of the physiotherapist in prosthesis and orthotic rehabilitation. Within the scope of the course, amputation causes, levels, partial foot prostheses, under-knee prostheses, above-knee prostheses, hip disarticulation prostheses, stump-socket compatibility in prostheses, adjustment and control, under-elbow-elbow prostheses, wrist-elbow and shoulder disarticulation prostheses, ligaments systems, myoelectric prostheses, amputee rehabilitation, functional foot orthoses, orthoses in neuromuscular diseases, orthoses in musculoskeletal disorders, orthoses in orthopedic problems, upper extremity orthoses and spinal region orthoses.

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
FTR312	Occupational Therapy	(2,0,1)	2	2	Elective

This course aims to provide the department students with information about the methods of defining and evaluating general performance in occupational therapy. Within the scope of the course, assessment methods in occupational and occupational therapy, functional movement analysis, daily living activities tests and training, self-help tools, biomechanical principles in transfer activities, transfer activities training, home rehabilitation, architectural barriers and environmental regulations for the disabled, hand training, work-related training in hemiplegia. subjects such as occupational therapy, occupational therapy in cerebral palsy, sensory-perception-motor integration tests and training, lower motor neuron lesions and occupational therapy in specific cases.

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
FTR318	Sensory Integration	(2,0,0)	2	2	Elective

This course aims to equip department students with the ability to evaluate individuals with sensory impairment in accordance with appropriate scales and to apply treatments based on sensory integration. Within the scope of the course, the neurophysiological adaptation of the sensory experiences of the children and how to reveal the adaptive response of the child according to the situation, its positive reflection on the social, emotional and physical interaction of the child with the environment, the sensory information received from the body and the environment of the person, through the processes of comprehending, interpreting and integrating the information in the brain. topics such as eliciting an organized response using sensory information.

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
FTR320	Radiology for Physiotherapists	(2,0,0)	2	2	Elective

This course aims to teach the department students the general principles of radiological methods. Within the scope of the course, radiological anatomy, radiological pathology, regional pathologies and evaluation will be examined in detail.

VII. FALL SEMESTER

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
FTR403	Clinical Problem Solving in Physiotherapy I	(4,0,0)	4	6	Compulsory

This course, following the presentation of the patients with different clinical diagnoses selected in the field of physiotherapy rehabilitation and in connection with the clinical study modules, within the scope of group work, literature review, evaluation of the case, listing the problems related to the case under the concepts of inadequacy, disability and disability, clinical reasoning and It includes discussing and determining the solution proposals related to physiotherapy-rehabilitation and the appropriate physiotherapy and rehabilitation program by using physiotherapy skills.

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
FTR405	Professional Practice III	(0,18,0)	9	12	Compulsory

The internship, which is carried out in order to prepare students for institutional and hospital physiotherapists practically, is carried out during the relevant semester under the supervision of institutional and hospital physiotherapists and academic staff.

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
FTR407	Research Methods in Physiotherapy I	(2,0,0)	2	6	Compulsory

This course, in the field of Physiotherapy and Rehabilitation, on the basis of evidence-based practices, creating a clinical problem and examining the literature sources by determining its keywords; It includes the creation of a research hypothesis and teaching how to write an ethics committee application file by detailing its plan.

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
SBF401	Biostatistics	(2,0,2)	2	3	Compulsory

Biostatistics is a branch of science that includes the applications of mathematical-statistical techniques in medicine and health sciences, makes adaptations specific to this field, and produces new techniques. It is used extensively in the planning of all health-related research, statistical evaluation and interpretation of findings. Biostatistics course provides basic information about these techniques.

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
FTR409	Industrial Physiotherapy and Rehabilitation	(2,0,0)	2	3	Elective

The aim of this course is to teach the principles of physiotherapy in the field of industry and to transfer protective applications to the students of the department. Within the scope of the course, the development of physiotherapy in industry in the world and in Turkey, current issues of physiotherapy in industry, current legislation on this subject, teamwork in protecting the health of employees and the place of the physiotherapist, protection and development of physical fitness of people working in different business lines, work-related musculoskeletal disorders and topics such as injury prevention, physiotherapy evaluations and job analysis, ergonomic approaches, and preventive training.

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
FTR413	Management and Organization in Physiotherapy	(2,0,0)	2	3	Elective

This course aims to provide the department students with information about the management and organizational structures in the health sector, hospitals and rehabilitation centers, and different models in physiotherapy and rehabilitation services, to gain the ability to analyze various structures, to enable them to discuss different organizations in the classroom environment and to gain analysis and synthesis skills. Within the scope of the course, there are subjects such as the characteristics of Management activity, Management functions: planning, execution, decision making, coordination, organization, management and organization in Physiotherapy and rehabilitation in the world and in Turkey, SWOT analysis study and discussion of SWOT analysis results in the classroom environment.

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
FTR417	Research Plannig in Physiotherapy I	(2,0,0)	2	3	Elective

This course aims to teach the students of the department to be able to conduct scientific research and practice on current issues in the field of Physiotherapy and Rehabilitation.

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
FTR419	Sign Language Education	(2,0,0)	2	3	Elective

The aim of this course is to teach Turkish Sign Language (TSL) at the basic level, to inform the students about the cultural structure of the hearing impaired and to provide the students with the skills to communicate with the hearing impaired in daily life by transferring the TSL alphabet, basic words and grammatical structure.

VIII. SPRING SEMESTER

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
FTR404	Clinical Problem Solving in Physiotherapy II	(4,0,0)	4	6	Compulsory

This course is a continuation of the FTR403 Clinical Problem Solving in Physiotherapy I course, and after the students of the department are given the cases with different clinical diagnoses selected in the field of physiotherapy rehabilitation and in connection with the clinical study modules, within the scope of group work, the literature review, the evaluation of the case, the inadequacy of the case-related problems, listing under the concepts of disability and disability, using clinical reasoning and physiotherapy skills, and discussing and determining the appropriate physiotherapy and rehabilitation program related to physiotherapy-rehabilitation.

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
FTR406	Professional Practice IV	(0,18,0)	9	12	Compulsory

The internship, which is carried out in order to prepare students for institutional and hospital physiotherapists practically, is carried out during the relevant semester under the supervision of institutional and hospital physiotherapists and academic staff.

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
FTR408	Research Methods in Physiotherapy II	(2,0,0)	2	6	Compulsory

This course is a continuation of the FTR407 Research Methods in Physiotherapy I course and includes the topics of obtaining and interpreting the findings in accordance with the data collection tools, discussing the results in the light of current literature, preparing an academic presentation, of a research hypothesized in the field of Physiotherapy and Rehabilitation and approved by the ethics committee.

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
FTR410	Community Based Physiotherapy and Rehabilitation	(2,0,0)	2	3	Elective

This course aims to teach the students of the department about community-based rehabilitation, its application areas, the ways of reaching both individuals and authorities in need of rehabilitation, and the evaluation and intervention methods by taking part in the rehabilitation practices. Within the scope of the course, what is community-based rehabilitation and who is the rehabilitation team?, presenting different community-based rehabilitation projects, organizing the training package of the team, analyzing the activity performance of individuals with environment-home and person evaluations, environment and field work-sidewalks, stair height, environment and field work-government buildings, environment and fieldwork-hospital entrances, the role of the physiotherapist in the prevention of disability, and evaluation of the community-based rehabilitation program.

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
FTR412	Geriatric Rehabilitation	(2,0,0)	2	3	Elective

This course aims to enable the students of the department to learn about the changes and deteriorations that occur with aging and to have knowledge about physiotherapy applications within the scope of geriatric rehabilitation. The course covers topics such as introduction to geriatric rehabilitation, healthy aging, musculoskeletal changes, cardiopulmonary changes, neurological changes, balance and gait disorders, falling problems, sensory changes, psychosocial changes in the elderly, therapeutic exercises, group exercises, exercise practices (practice).

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
FTR418	Research Planning in Physiotherapy II	(2,0,0)	2	3	Elective

This course is a continuation of FTR417 Research and Planning in Physiotherapy I course and aims to teach the department students to conduct scientific research and practice on current issues in the field of Physiotherapy and Rehabilitation.

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
FTR420	Alternative Exercise Approaches	(2,0,0)	2	3	Elective

This course aims to provide department students with information about evaluation and appropriate physiotherapy approaches in women's health. The course covers topics such as physiological changes in pregnancy, postnatal and prenatal exercise practices, physiotherapy and rehabilitation in

menopausal period, physiotherapy and rehabilitation in dysmenorrhea, physiotherapy and rehabilitation in urinary incontinence.