**DEPARTMENT OF PHYSICAL THERAPY AND REHABILITATION**

**COURSE CONTENTS**

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| **1. Year – Fall Semester** |
|  **COURSE CODE** | **COURSE NAME** | **National Credits** | **ECTS** | **ECTS-Hour Transformation** | **Practical Hours (per week)** | **Theoretical Hours****(per week)** | **Course Duration (week)** |
| **FTR-101** | **Anatomy I** | 4 | 6 | 150 | 3 |  2  | 14 |
| Introduction to anatomy, Terminology, Human organism, Movement system, General information about bones, joints and muscles, Circulatory system, Digestive system, Respiratory system, Urine system |
| **FTR-103** | **PHYSIOLOGY I** | 3 | 4 | 100 | 0 | 3  | 14 |
| Introduction to Physiology, Homeostasis, Cell and structure, Cell potentials, Skeletal muscle physiology, Smooth muscle physiology, Blood physiology, Heart muscle physiology, Coronary and peripheral circulation, Peripheral nervous system, Sympathetic nervous system, Parasympathetic nervous system, Head pairs |
| **FIZ-101** |  **PHYSICS** | 2 | 4 | 100 | 0 | 2  | 14 |
| Physics and Measurement. Vectors. One Dimensional Motion. Two Dimensional Motion. Laws of Motion. Circular Motion. Static Balance and Flexibility. Work and Energy. Conservation of Energy. Linear Momentum and Collisions. Rotation of Rigid Objects Around an Axis. Rolling Movement. Angular Momentum and Conservation of Angular Momentum. |
| **ATA-101** |  **ATATURK'S PRINCIPLES AND HISTORY OF TURKISH REVOLUTION I,** | 2 | 2 | 50 | 0 | 2  | 14 |
| . Basic concepts of Atatürk’s Principles and Revolution History. The Industrial Revolution and the French Revolution, the distribution of the Ottoman Empire (XIX. Century), Tanzimat and İslahat Fermans, I. And II. Constitutional Monarchy, Tripoli and Balkan Wars, World War I, Mondros Armistice Treaty, Wilson Principles, Paris Conference, M. Kemal’s exit to Samsun and the situation in Anatolia, Amasya Circular, National Congresses, Opening of the Mebusan Assembly, TBMM Establishment and Internal Revolts, Organization Law, Establishment of Regular Army, First Battle of İnönü, II. Battle of İnönü Square, Kütahya – Eskişehir Square Battle, Sakarya Square Battle, Great AttacC, Treaties during the War of Independence, Lausanne Treaty, Abolition of the Sultanate |
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|  **COURSE CODE** | **COURSE NAME** | National Credits | ECTS | ECTS-Hour Transformation | Practical Hours (per week) | Theoretical Hours(per week) | Course Duration (week) |
| **ATA-102** |  **ATATURK'S PRINCIPLES AND HISTORY OF TURKISH REVOLUTION II,** | 2 | 2 | 50 | 0 | 2  | 14 |
| . Basic concepts of Atatürk’s Principles and Revolution History. The Industrial Revolution and the French Revolution, the distribution of the Ottoman Empire (XIX. Century), Tanzimat and İslahat Fermans, I. And II. Constitutional Monarchy, Tripoli and Balkan Wars, World War I, Mondros Armistice Treaty, Wilson Principles, Paris Conference, M. Kemal’s exit to Samsun and the situation in Anatolia, Amasya Circular, National Congresses, Opening of the Mebusan Assembly, TBMM Establishment and Internal Revolts, Organization Law, Establishment of Regular Army, First Battle of İnönü, II. Battle of İnönü Square, Kütahya – Eskişehir Square Battle, Sakarya Square Battle, Great AttacC, Treaties during the War of Independence, Lausanne Treaty, Abolition of the Sultanate |

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| **FTR-112** | **Anatomy II** | 4 | 6 | 150 | 2 |  3  | 14 |
| Urogenital system, Endocrine system, Nervous system (Central Nervous System anatomy, medulla spinalis, brain stem, medulla oblangata, pons, mesencephalon, cerebrum, cerebellum, diencephalon, cranial nerves, spinal nerves and their plexuses, autonomic nervous system, sympathetic system, parasympathetic system, sensory organs and receptors, skin), Scent organs and ways, Taste organs and ways, Hearing organ and ways, Reflex and reflex arc |
| **FTR-104** | **PHYSIOLOGY II** | 3 | 4 | 100 | 0 |  3  | 14 |
| Kidney and its functions, Respiratory system, Endocrine system, Liver and functions, Metabolism, Gastrointestinal system, Skin physiology, Structure of the eye and ways of seeing, Hearing physiology, Odor physiology |
| **ENG111** | **ENGLISH I** | 3 | 4 | 100 | 2 |  2  | 14 |
| Throughout its four-year education, it is to train physiotherapists who understand the importance of the English language in their professional development, follow basic professional English publications, and use the basic principles required to be able to translate in Turkish, English and Turkish. |

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| **ENG112** | **ENGLISH II** | 3 | 4 | 100 | 2 |  2  | 14 |
| Throughout its four-year education, it is to train physiotherapists who understand the importance of the English language in their professional development, follow basic professional English publications, and use the basic principles required to be able to translate in Turkish, English and Turkish. |
|  **COURSE CODE** | **COURSE NAME** | National Credits | ECTS | ECTS-Hour Transformation | Practical Hours (per week) | Theoretical Hours(per week) | Course Duration (week) |
| **TRD101** | **TURKISH LANGUAGE-I** | 2 | 2 | 50 | 0 | 2  | 14 |
| Language, expression, paragraph information, written expression styles, types of written expression, verbal expression, expression sentence disorders and their correction. |
| **TRD102** | **TURKISH LANGUAGE-II** | 2 | 2 | 50 | 0 | 2  | 14 |
| Language, expression, paragraph information, written expression styles, types of written expression, verbal expression, expression sentence disorders and their correction. |

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| **FTR106** | **HEAT- LIGHT- HYDOTHERAPY** | 2 | 2 | 50 | 2 |  1  | 14 |
| Basic information for the use of heat agents (inflammation and healing mechanism), theories related to the use of heat agents in pain, physical properties of heat-physiological effects, light sources, laws and use in physiotherapy, infrared, ultraviolet, physiological effects of laser, laser diseases and application methods, heliotherapy. Definitions used in hydrotherapy, physiological concepts in hydrotherapy, application methods in hydrotherapy, whirlpool baths, butterfly baths, showers and sprays, fluidotherapy, humid temperature applications, hot-pack-paraffin and saunas, pool therapy and in-water exercises, tests used in hydrotherapy, spas. |
| **FTR106** | **PHYSIOTHERAPY-REHABILITATION AND ETHICAL PRINCIPLES** | 2 | 4 | 100 | 0 |  2  | 14 |
| History of physiotherapy, physiotherapy and rehabilitation, definitions of physiotherapist, duties and responsibilities of physiotherapist, multidisciplinary approach, ethics in the field of health, principles, healthcare personnel-patient-patient relatives, patient rights, ethics in the clinic, research ethics |
| **FTR114** | **PSYCHOSOCIAL REHABILITATION** | 2 | 2 | 50 | 0 |  2  | 14 |
| International classification of functioning, biopsychosocial approach, community based rehabilitation, disability, disabilities classification, obesity, psychosocial problems faced by disabled people and projects to fight with obesity, psychosocial process and accommodation period after traumatic injuries and accidents, Psychosocial process and coping strategies for progessive chronic illnesses, psychosocial rehabilitation for children and psychosocial problems on adults with disabled child, aging and psychosical problems on geriatric population, auditory, speech and visual disabilities and psychosocial rehabilitatonparalimpic sports, succesful athletes with disabilities, physical activity for health, evaluation of Turkey's physical activity guide, psychosocial rehabilitation for neurological conditions

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| **2. Year – Fall Semester** |

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| **COURSE CODE** | **COURSE NAME** | National Credits | ECTS | ECTS-Hour Transformation | Practical Hours (per week) | Theoretical Hours(per week) | Course Duration (week) |
| **FTR201** |  **BIOMECHANICS AND KINESIOLOGY I** | 3 | 4 | 100 | 0 | 3  | 14 |
| Definition of kinesiology, subjects covered by kinesiology, movement and movement types, general mechanical principles, development of bone tissue-nutrition-bone cells, physiological features and laws, stresses on bone, functional adaptation of bone in pathological conditions, bone diseases, structure and properties of cartilage tissue mechanics, pathokinetics; mechanics and pathomechanics of muscle function; mechanical properties and pathomechanics of collagen tissue, classification of body joints, synovial joints and their properties, joint cohesion, movements in relation to the planes in the joints, sliding and swinging movements, levers, balance, orientation planes and coordinates. |
| **FTR202** |  **BIOMECHANICS AND KINESIOLOGY II** | 3 | 4 | 100 | 0 |  3  | 14 |
| Normal and pathological gait, Mechanics and pathomechanics of Columna vertebralis; scoliosis, pelvis-hip-knee-ankle and mechanics and pathomechanics of the foot; shoulder-arm complex, elbow, wrist and mechanics and pathomechanics of the hand. |
| **FTR204** |  **PRINCIPLES OF TREATMENT OF MOVEMENTS** | 3 | 4 | 100 | 2 | 2  | 14 |
| Planning of the exercise program, active-passive-active assistive and resistant exercises, stretching exercises, lordosis-kyphosis-scoliosis-round back-shoulders and posture exercises for the lower extremities, progressive resistant exercises, regional isometric exercises, relaxation exercises, home program planning, traction , usage areas and methods. |
| **FTR205** |  **ELECTROTHERAPY I** | 3 | 4 | 100 | 2 |  2  | 14 |
| Acquisition of flat galvanic current, iontophoresis, medical and surgical galvanism, modified galvanic current, electrodiagnosis, low frequency currents, diadynamic currents, interferential currents, electric shock, surgers, functional electrical stimulation, Ultra-Reiz and Russian currents. |
| **FTR206** |  **ELECTROTHERAPY II** | 3 | 4 | 100 | 2 |  2  | 14 |
| Thermal and non-thermal effects, generation of high frequency currents,properties and classification of high frequency currents, properties of short wave diathermyapplication of short wave diathermy, properties of pulsed short wave diathermy, properties of micro current diathermy, properties of ultrasound waves, applications of ultrasound, magnetotherapy, extracorporeal shock wave therapy (eswt), biofeedback, environmental electro pollution. |
| **FTR207** |  **MANIPULATIVE TREATMENT TECHNIQUES I** | 3 | 4 | 100 | 2 |  2  | 14 |
| Mechanism of action, techniques, dosage, indices and contraindications of classical massage, correct positioning and regional applications (face, necC, bacC, waist region, abdominal massage, thigh, leg, foot, arm-forearm and hand massage), deep friction massage and its application, the history of connective tissue manipulation, the mechanism of action, reflex zones of KDM, reactions caused by KDM, the diseases to which it was applied, initial thyroids, basic site manipulation, lower thoracic-scapular-interscapular, cervical and occipital, arm-forearm-hand, thigh- KDM on the leg-foot, pelvic and abdominal, chest and face area application methods. |

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| **FTR208** |  **MANIPULATIVE TREATMENT TECHNIQUES II** | 3 | 4 | 100 | 2 | 2  | 14 |
| Definition of manipulation, historical development and general information, definition of mobilization, types of manipulation and mobilization, situations where manipulation and mobilization are used and not, application methods. |
| **FTR209** | **FTR209 FUNCTIONAL NEUROANATOMY** | 2 | 3 | 100 | 0 |  2  | 14 |
| Introduction to Central Nervous System, gross anatomy of M.spinalis, internal structure of M.spinalis, descending paths, exiting paths, pathologies of peripheral system, M. Oblangata gross anatomy and internal structure, Pons gross anatomy and internal structure, Mesencephalon, Cerebellum, Diencephalon, Basal ganglia, Cerebral cortex, Cranial nerves, Circulation of the Central Nervous System, Membranes, Hemispheres, Cerebrospinal Fluid |
| **FTR210** |  **EXERCISE PHYSIOLOGY** | 3 | 5 | 125 | 0 |  3  | 14 |
| Skeleton muscle and exercise, movement control, energy, effect of exercise on cardiovascular system, effect of exercise on respiratory system, effect of exercise on endocrin system and fatigue, definition of physical fitness and cardiorespiratuar fitness, assessment of cardiorespiratuar fitness and forming of exercise prescriptions, assessment of cardiorespiratuar fitness (practical work), assessment of power, strength and muscle fitness (practical work), forming exercise programmes concerning the power, strength and muscle endurance (practical work), planning of resistant training prgrammes, assessment of flexibility anforming of flexibility programmes (practical work), forming and interpretation of exercise prescriptions (practical work). |
| **FTR211** |  **NEUROPHYSIOLOGY,** | 2 | 3 | 75 | 0 |  2  | 14 |
| Introduction to Neurophysiology, Organization of Central Nervous System, 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 |
| **FTR212** |  **INTERNAL MEDICINE AND RHEUMATOLOGY** | 2 | 3 | 75 | 0 |  2  | 14 |
| Respiratory and circulatory system diseases, hematological, nephrological-endocrinological, gastroenterological diseases, infectious diseases, oncology |
| **FTR213** |  **ORTHOPEDICS** | 2 | 3 | 75 | 0 | 2  | 14 |
| Fractures, dislocations and orthopedic treatments, endoprostheses, bone tumors, congenital anomalies of upper and lower extremities, poliomyelitis, cerebral paralysis, sports injuries, amputations, scoliosis, hand injuries, osteomyelitis and inflammatory arthropathies, compartment syndromes and Wolkman ischemic contracture. |

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| **FTR214** |  **NEUROLOGY AND NEUROSURGERY** | 2 | 3 | 75 | 0 | 2  | 14 |
| Definition of cerebrovascular diseases, the cause of cerebrovascular diseases, causes of medulla spinalis injuries, medulla spinalis injury assessment scales, neurological losses, diagnostic criteria, evaluation scales, reflex examination, extrapyramidal system functions, brain, spinal cord structure, motor nerves, nerve muscle junction disease symptoms, extrapyramidal system diseases, neuromuscular diseases, motor end plate diseases, neurological examination-symptoms and findings, polyneuropathies, trap neuropathies, medulla spinalis injuries, intracranial pressure increase syndrome, focal injuries, myopathies, evaluation, lesions, cerebral cortex, brainstem, cerebral cortex, brainstem diagnostic approaches to diseases, metabolic-genetic diseases affecting neurological system in pediatrics, children with learning difficulties, lower motor neuron diseases in pediatrics, upper motor neuron diseases in pediatrics, peripheral nerve injuries, muscle diseases, cranial traumas. |
| **FTR215** |  **BASIC MEASUREMENT AND EVALUATION IN PHYSIOTHERAPY,** | 3 | 5 | 75 | 2 | 2  | 14 |
| Posture analysis, anthropometric measurements, perimeter-length-diameter and adipose tissue measurements, shortness tests, evaluation of flexibility, evaluation of normal joint movements, goniometric measurements, muscle testing |
| **FTR216** |  **CHILD HEALTH AND DISEASES** | 2 | 3 | 75 | 0 |  2  | 14 |
| Identification of newborn, identification of newborn motor development, definition and characteristics of a healthy child, examination of the structure and function of breast milk, identification of normal mental motor development, evaluation of neonatal motor development, examination of the components of the newborn screening program, the importance of scanning program, the vaccinations administered to children and newborns, pregnancy and history of vaccination, newborn features, robust child monitoring, beastfeeding, nutrition, mental motor development, vaccines, infection control principles, common causes of infection in children and newborn, infection indications, influence of normal development of infection, definition of hyperbilirubinemia, causes and indications, definition, causes and indications of hypoxic ischemic encephalopathy, definition and description of respiratory distress syndrome, causes and manifestations of chronic lung disease, definition and classification of hereditary muscle diseases, symptoms and development of the disease, cerebral palsy definition and causes, cerebral palsy classification, the development of cp and expected complications, definition and reasons of autism. |

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| **FTR218** |  **RADIOLOGY** | 2 | 2 | 50 | 0 | 2  | 14 |
| Physics for radiology, Radiological anatomy: extremities, pelvis, Radiological anatomy: spine, thorax, Radiological pathology: fractures, subluxation, dislocation, neoplasm, atrophy, sclerosis, infection, implants, peripheral nerve lesions, Radiology in thorax pathologies and related special conditions, Regional pathologies and evaluation: cervical and lumbar spine, Regional pathologies and evaluation: pelvis and hip, Regional pathologies and evaluation: knee, ankle, foot, Regional pathologies and evaluation: shoulder, elbow, wrist, hand, Different tissue pathologies: bone, cartilage, Different tissue pathologies: nerve, Different tissue pathologies: muscle, Different tissue pathologies: tendon, ligament. |
| **FTR221** |  **SUMMER APPLICATIONS** | 0 | 5 | 180 | 40 |  0  | 4 |
| Clinical experiences in physiotherapy and rehabilitation |
| **SBF201** |  **PATHOLOGY** | 2 | 2 | 50 | 0 | 2  | 14 |
| Definition of pathology and general information; Pathology laboratory; Hospital; Cell injury; Necrosis and its types; Cellular Adaptation I; Cellular Adaptation II .; Fluid balance disorders and edema; Congestion, hyperemia and cannabis; Thrombosis, Embolism, Infact and Shock; Metabolic disorders I; Metabolic disorders II; Inflammation; Acute and Chronic Fire; Gronulomatous Fire; Wound healing; General fire of the immune system; Pathology Laboratory; Tumors; Nomenclature in tumors; Tumor etiopathogenesis; Special Tumors; Pathology Laboratory; Pathology of Infectious Diseases |
| **SBF203** |  **PHARMACOLOGY** | 3 | 4 | 100 | 0 | 2  | 14 |
| Pharmacokinetic principles, pharmacodynamic principles, drug dosage and mechanism of action, cardiovascular system drugs, respiratory system drugs, autonomic nervous system drugs, central nervous system drugs, digestive and endocrine system drugs, drugs used in oncology, antibiotics, pharmacovigilance and rational drug use, drug use during pregnancy and lactation. |

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| **3. Year – Fall Semester** |
|  **COURSE CODE** | **COURSE NAME** | **National Credits** | **ECTS** | **ECTS-Hour Transformation** | **Practical Hours (per week)** | **Theoretical Hours****(per week)** | **Course Duration (week)** |
| **FTR304** |  **NEUROPHYSIOLOGICAL APPROACHES II** | 3 | 6 | 150 | 2 | 2  | 14 |
| Basic procedures in proprioceptive neuromuscular facilitation, upper and lower extremity patterns, neck and upper trunk patterns, lower trunk patterns, bilateral symmetrical, asymmetric and reciprocal patterns, repeated contractions, rhythmic initiation, antagonist's opposite techniques, relaxation techniques, PNF and proximal vital functions, cushion activities, turning, crawling, walking and stair activities**.** |
| **FTR305** |  **NEUROPHYSIOLOGICAL APPROACHES I** | 3 | 6 | 150 | 2 |  2  | 14 |
| Basic neurophysiological approaches used in physiotherapy The neurophysiological principles, differences and application techniques of Bobath, Brunnstrom, Johnstone and Todd-Davies methods. |
| **FTR306** |  **SPECIAL TOPICS IN PHYSIOTHERAPY** | 3 | 6 | 150 | 2 | 2  | 14 |
| Genital organ anatomy, pelvic structure, menstruation, birth physiology and mechanism, operative delivery, family planning and gynecological oncology. Audiology and hearing, hearing disorders, lung capacities and functions, voice disorders and rehabilitation, speech disorders and rehabilitation, vestibular system rehabilitation |
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| **FTR307** |  **PEDIATRIC REHABILITATION** | 3 | 5 | 125 | 2 |  2  | 14 |
| Rehabilitation approaches in cerebral paralysis and rehabilitation of other congenital and genetic neuromuscular system diseases in childhood. |
| **FTR308** |  **NEUROLOGICAL REHABILITATION** | 3 | 5 | 125 | 2 |  2  | 14 |
| Physiotherapy rehabilitation approaches in infectious, vascular, traumatic, degenerative and idiopathic diseases of the central and peripheral nervous systems. |

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| **FTR311** |  **PULMONER REHABILITATION** | 2 | 3 | 75 | 0 | 2  | 14 |
| Definition of pulmonary rehabilitation, principles, aims of chest physiotherapy, application techniques, evaluation of pulmonary diseases in terms of physiotherapy-rehabilitation, planning of the treatment program, objectives and application methods of rehabilitation before and after pulmonary surgery, physiotherapy-rehabilitation approaches in intensive care, postural resistance, respiratory control, neonatal physiotherapy approaches. |
| **FTR312** |  **CARDİAC REHABILITATION** | 2 | 3 | 75 | 0 | 2  | 14 |
| History of cardiac rehabilitation, coronary artery diseases, myocardial infarction, early rehabilitation in infarction, risk factors and training, exercise training in late infarction and coronary artery disease, exercise tests, rehabilitation in diabetus mellitus, rehabilitation in cardiac surgery |
| **FTR314** |  **OCCUPATIONAL THERAPY** | 2 | 2 | 50 | 21 |  1  | 14 |
| Basic information and application examples on the role of occupational therapy (ergotherapy) in rehabilitation teamworC, basic job and occupational assessment methods in performance areas, developing appropriate job and occupational approaches. |
| **FTR317** |  **HEARING AND SPEECH DISORDERS AND TREATMENTS** | 1 | 1 | 25 | 0 | 1  | 14 |
| Basic anatomy, physiology and pathologies of hearing, voice, speech and language functions, diagnosis and habilitative / rehabilitative methods of their pathologies, sound production, sound waves (sinusoidal, complex, periodic, aperiodic), frequency, intensity, resonans concepts, ear (external,middle and inner), larynx, vocal tract, respiratory system, oral and nasal cavity, articulators, psychoacoustics, subjective / objective evaluation of hearing problems, conventional and digital amplification in rehabilitation and cochlear implantation, total rehabilitation methods in children and adults. |
| **FTR318** |  **WOMEN'S HEALTH AND OBSTETRICS,** | 1 | 1 | 25 | 0 |  1  | 14 |
| pelvic floor, continence mechanism, physiotherapy and rehabilitation in urinary incontinence, prolapsus, causes of prolapsus, treatment of prolapsus, fecal incontinence classification, fecal incontinence diagnosis, fecal incontinence treatment, fecal incontinence physiotherapy and rehabilitation, pelvic congestion, disorders of the uterus, endometriosis, interstitial cystitis, physiotherapy and rehabilitation of pelvic pain, LSH, FSH, prolactin hormones, diagnosis of sexual dysfunction, causes of sexual dysfunction, treatment of sexual dysfunction, physiotherapy and rehabilitation in sexual dysfunction, lymphatic fluid, lymphatic channels, lymph movement, lymphedema stages, lymphedema diagnosis, lymphedema and evaluation, manual lymphatic drainage, pressure dressing, compression therapy, physiotherapy and rehabilitation in lymphedema, pregnancy periods, groin, back, back pain, approaches to pain, problems encountered during pregnancy and physiotherapy rehabilitation, home exercises, activities to be avoided, aeroic exercises, relaxation exercises, pregnancy and exercise, exercise training, birth training, specific exercise programs, postnatal physiotherapy and rehabilitation, postnatal physiotherapy and rehabilitation, menopause periods, special exercise program for menopause, climacterium and physiotherapy and rehabilitation, cysts, infections, physiotherapy approaches, physiotherapy and rehabilitation in gynecological problems |

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| **FTR321** |  **ORTHOSIS AND REHABILITATION** | 2 | 3 | 75 | 0 |  2  | 14 |
| Biomechanical principles in orthosis, pre- and post-orthotic evaluation, foot deformity and orthoses, walking orthoses, orthoses in hip pathologies (Perthes-congenital hip dislocation), orthoses in sports injuries, knee orthoses, spinal orthoses, scoliosis orthoses, hand and wrist orthoses, elbow orthoses , shoulder orthoses, orthoses in brachial plexus injuries, contracture orthoses, postoperative orthoses, burn orthoses, orthosis control, rehabilitation of the patient with orthosis |
| **FTR321** |  **PROSTHETİCS AND REHABILITATION** | 2 | 3 | 75 | 0 |  2  | 14 |
| Causes of amputation, levels, congenital malformations, partial foot prostheses, below-knee prostheses, above-knee prostheses, hip disarticulation prostheses, stump-socket fit, adjustment and control, below-elbow-above-elbow prostheses, wrist-elbow and shoulder disarticulation prostheses systems, myoelectric prostheses, amputee rehabilitation |
| **FTR331** |  **PHYSIOTHERAPY AND EVALUATION IN SPORTS** | 2 | 4 | 100 | 0 |  2  | 14 |
| Definition of sportphysıotherapıstin the world and the situation in Turkey, physiotherapists athlete role in health and tasks, children and sports, women and sport, sport in healthy adults, geriatric in sports, fitness and disabled, sports psychology, sports nutrition, performance, performance testing, physical fitness and tests, sportsman assessment |
| **FTR332** |  **SUMMER APPLICATIONS** | 0 | 5 | 180 | 40 |  0  | 4 |
| Clinical experiences in physiotherapy and rehabilitation |
| **FTR333** |  **ORTHOPEDIC REHABILITATION** | 3 | 5 | 125 | 2 | 2  | 14 |
| Physiotherapy rehabilitation approaches, bandage application techniques applied in traumatic, infectious and degenerative pathologies of the musculoskeletal system, collagen tissue diseases after orthopedic and reconstructive surgery. |
| **SBF302** |  **BIOSTATISTICS** | 2 | 4 | 100 | 0 | 2  | 14 |
| Definition of statistics and biostatistics, usage of statistics in health sciences and studies on this subject, data collection, descriptive statistics, tables and graphics, probability and probabilistic distributions, sampling, hypothesis tests, regression and correlation analysis |

**COURSE CONTENTS**

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| **4. Year – Fall Semester** |
|  **COURSE CODE** | **COURSE NAME** | **National Credits** | **ECTS** | **ECTS-Hour Transformation** | **Practical Hours (per week)** | **Theoretical Hours****(per week)** | **Course Duration (week)** |
| **FTR403** |  **CLINICAL PROBLEM SOLVING I** | 2 | 3 | 75 | 0 | 2  | 14 |
| Giving cases with different clinical diagnoses to students, guiding them as group worC, literature review, evaluation, listing the problems related to the case under insufficiency, disability and meaning concepts, physiotherapy-rehabilitation solution suggestions, determining appropriate physiotherapy-rehabilitation programs by discussing |
| **FTR404** |  **CLINICAL PROBLEM SOLVING II** | 2 | 3 | 75 | 0 |  2  | 14 |
| Giving cases with different clinical diagnoses to students, guiding them as group worC, literature review, evaluation, listing the problems related to the case under insufficiency, disability and meaning concepts, physiotherapy-rehabilitation solution suggestions, determining appropriate physiotherapy-rehabilitation programs by discussing |
| **FTR405** |  **REHABILITATION SEMINARS I** | 2 | 3 | 75 | 0 | 2  | 14 |
| Seminar presentation techniques, seminars in different fields of physiotherapy and rehabilitation. |
| **FTR406** |  **REHABILITATION SEMINARS II** | 2 | 3 | 75 | 2 | 1  | 14 |
| Seminar presentation techniques, seminars in different fields of physiotherapy and rehabilitation. |
| **FTR411** |  **PHYSIOTHERAPY REHABILITATION IN INDUSTRY** | 1 | 2 | 50 | 0 | 1  | 14 |
| Information and practices including physiotherapy evaluations and work analysis, ergonomics, exercise approach, body mechanics knowledge, workplace arrangement and adaptations, which are important in terms of maintaining physical fitness of individuals working in private and public workplaces such as factories, banks, preventing industrial injuries and solving existing problems. assessment and vocational training in vocational rehabilitation |
| **FTR413** |  **CLINICAL PRACTICE I** | 12 | 18 | 336 | 24 | 0  | 14 |
| Prosthesis-orthotics and biomechanics, neuromuscular diseases, children with brain disabilities, occupational and occupational therapy, connective tissue manipulation, athlete's health and physiotherapy, orthopedic rehabilitation; neurological rehabilitation, cardiac rehabilitation, pulmonary rehabilitation, rehabilitation in neurosurgery, obstetric and gynecological rehabilitation, vocational rehabilitation units, and internship practices for 4 weeks in the physical therapy rehabilitation department. |

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| **FTR410** |  **CLINICAL PRACTICE II** | 14 | 20 | 392 | 28 |  0  | 14 |
| Prosthesis-orthotics and biomechanics, neuromuscular diseases, children with brain disabilities, occupational and occupational therapy, connective tissue manipulation, athlete's health and physiotherapy, orthopedic rehabilitation; neurological rehabilitation, cardiac rehabilitation, pulmonary rehabilitation, rehabilitation in neurosurgery, obstetric and gynecological rehabilitation, vocational rehabilitation units, and internship practices for 4 weeks in the physical therapy rehabilitation department. |
| **SAG403** |  **EPIDEMIOLOGY,** | 3 | 6 | 150 | 0 | 3  | 14 |
| Research planning, planning, creating appropriate study and control groups, accessing information and data sources, research design, using computer, measurement of variables |

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