**Course information form**

***Note to applicant: This form needs to be completed, certified and uploaded as part of your online application. Please make sure you upload this form to the online portal as one document.***

The below named applicant has applied to register with the Health and Care Professions Council (HCPC), which would enable them to practise within the UK. We need to obtain details of each applicant’s professional training. Please provide details on the content of each part of the programme that the applicant undertook at your institution.

We require content of academic and clinical training, including approximate numbers of hours within each part of the course and the assessment methods used. Any scores obtained under examination may also be useful. A list of procedures undertaken and departments attended during the course is valuable in the assessment process.

Please indicate the range and scope of clinical placements undertaken. It is likely that this will take up several pages. A syllabus is unlikely to provide sufficient applicant specific detail for registration purposes, but a copy may be provided in addition to the Course Information form. If part of the applicant’s training took place at another institution, please indicate N in the “Undertaken at this institution” box. A Curriculum Certifying Document may be submitted if the detail below is included.

*This form must bear the stamp or seal of the university or training institution and include contact details for the course administrator or another appropriate member of staff who may be contacted as part of the verification process.*

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*Please input your response into the table below. The fields will grow to accommodate your answer*

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| Course Year 1,2,3,4, | Subject, descriptive title of subject, session, theme or module name. | Content and examination method, hours studied. This may be taken from the syllabus, but must only include the components of the course undertaken by the named applicant. Optional courses not undertaken by the applicant should not be included. | **Assessment Method**.  Verbal = V  Written = W  Practical = P | Undertaken at this institution Y/N |
| 1 | BASIC MEDICAL SCIENCES-I | This course includes 4 main courses in Medicine. These are Anatomy-I, Physiology-I, Histology and Biochemistry.  **ANATOMY-I**  Duration: 14 Weeks  Total Hours: 201 Hours  Theory: 96 Hrs  Pratical: 80 Hrs  Preparations before/after weekly lectures:20 Hrs  Mid-terms: 5 Hrs  Final examination: 5 Hrs  **THEORY**  **Course Goals**  To learn basic principles relevant to the human organism's structure. Able to describe and name the component elements of each simple or complex musculoskeletal structure of the human body. Able to define the role of each musculoskeletal structure as well as the function of the musculoskeletal system as a whole. Locating the muscles and joint attachments on the human skeleton, Describing the function of the musculoskeletal system tissues and their contribution to movement accomplishment.  **Course Content**  Distinguish and name the special characteristics of the vertebrae and bones. The systemic and topographic anatomy of the locomotor system is discussed in detail. Anatomic terminology, normal anatomic positions, planes, axes, and general expressions are described. The topics of this course include the structures, names, localizations, and relationship of all bones, joints, ligaments, joint capsules and muscles types, tissues, and functions of bones, anatomic structure of a typical bone and their localization according to areas, types of joints (fibrous, cartilaginous, and synovial),the structure of the spine and intervertebral discs, joint capsules and their properties, synovial membranes and synovial fluid, structure, types, and parts of muscles(nomenclature and classification is according to localization and functions), their localization, shapes and points of adherence according to regions, origins and insertions, all fascias, all ligaments and their relations to muscles and bones, localizations properties, all bursas, localizations and properties.  **Learning Outcomes**   1. To learn the description and importance of the anatomy 2. To learn the terminology and topographical relationships of all anatomical structures, including bone, joint, muscle, and neurovascular structures, regarding the locomotor system 3. To learn specific motions for muscles 4. To learn the pathologies of the anatomical structures under different conditions.   **Weekly Topics**   1. Introduction to anatomy, terminology, and anatomy axes and planes: Anatomical positions of the body, axes, planes, and common anatomical terminologies (Groove, tuberosity, trochanters) 2. Introduction to the bones and the bones of the vertebral column: Composition and functions, classification, and types according to morphology and development 3. Upper limb bones: Clavicles, Scapula, Humerus, Radius, Ulna, Carpals, Metacarpals, and phalanges 4. Lower limb bones: Hip bone, femur, tibia, fibula, patella, tarsals, metatarsals, and phalanges. 5. Introduction to joints and vertebral column joints: Bones: Composition and functions, classification, and types according to morphology and development Joints: definition, classification, structure of fibrous and cartilaginous joints, blood supply, and nerve supply of joints.Muscles: origin, insertion, nerve supply, and actions 6. Introduction to joints and vertebral column joints 7. MID-TERM EXAM 8. Upper limb joints: Shoulder girdle, shoulder joint, elbow joints, radio ulnar joint, wrist joint, and joints of the hand. 9. Lower limb joints: Hip Joint,  Knee joint, Ankle joint, joints of the foot 10. Introduction to the muscles and body, including head and neck muscles: Mandible and bones of the skull. Soft parts: Muscles of the face and neck and their nerve and blood supply-extra ocular muscles, triangles of the neck. Basic anatomy of the eyeball, nose, ears, and tongue 11. Shoulder and arm muscles: Breast, pectoral region, axilla, front of arm, back of arm, cubital fossa 12. Forearm and hand muscles: front of forearm. Back of the forearm, palm, dorsum of hand, muscles, nerves, blood vessels, and lymphatic drainage of the upper extremity. Arches of the hand: skin of the palm and dorsum of the hand 13. Hip and thigh muscles: Gluteal region, front and back of the thigh (Femoral triangle, femoral canal, and inguinal canal), medial side of the thigh (Adductor canal), lateral side of the thigh, popliteal fossa 14. Leg and foot muscles: anterior and posterior compartments of the leg, sole of the foot, lymphatic drainage of the lower limb; venous drainage of the lower limb. Arterial supply of the lower limb, arches of the foot. 15. FINAL EXAM   **PLANNED LEARNING ACTIVITIES AND TEACHING METHODS:**  Presentations in the class**,** Discussions and Group studies in the class,Practical applications in application room on practical anotomical materials  **PRACTICAL:** Examine bones and muscles of the Upper extremity, Lower extremity, Head & Spinal cord and Neck and Brain including surface Anatomy  **ASSESSMENT CRITERIA:** 2 hand written theoretical and 2 practise exams are given. The information given in the presentations is evaluated by multiple-choice exams, and by practice exams on anatomical structures and models seen in practise courses. Mid-term exams affects total score %40, final examination affects %60.  **PHYSIOLOGY-I**  Duration: 14 Weeks  Total Hours: 180 Hours  Theory: 70 Hrs  Tutorials: 70 Hrs  Preparations before/after weekly lectures:20 Hrs  Mid-terms: 10 Hrs  Final examination: 10 Hrs  **THEORY**  **Course Goals**  The aim of human physiology class is to explain the physical and chemical factors that are responsible for the origin, development, and progression of life and the specific characteristics and mechanisms of the human body that make it a living being. Describes physiology from cell to system, cell functions, body functions, and regulations through systems.  **Course Content**  This course contains the cell and its functions, the organisation of the cell, membrane potentials and action potentials, the contractile properties of skeletal muscle, the contractile properties of heart muscle, and the contractile properties of smooth muscle. Functions of blood, blood cells, immunity, blood types, blood clotting, mechanisms of blood coagulation, physiology of circulation (cardiac cycle, blood flow, blood pressure, and vascular compliance), basics of the electrocardiogram, how to read an ECG, heart sounds, physiology of circulatory disorders, The respiratory system and regulation of the respiratory system have been processed.  **Weekly Topics**  1-2-3) The cell and its functions, organization of the cell and introduction to basic Latin terminology; Cell Morphology, Organelles: their structure and functions, transport Mechanisms across the cell membrane, Body fluids: Distribution, composition. Tissue fluid - formation. Membrane potentials and action potentials  4-5-6) Contractile properties of skeletal muscle, contractile properties of heart muscle, contractile properties of smooth muscle;  •Definition of phases of cardiac cycle Pressure and volume curves. Heart sounds - causes, character.  •ECG: Definition. Different types of leads. Waves and their causes. P-R interval heart block,  •Cardiac Output: Definition of Normal value. Determinants. Stroke volume and its regulation. Heart rate and its regulation. Their variations  •Arterial Blood Pressure: Definition. Normal values and its variations. Determinants. Peripheral resistance.Regulation of BP.  •Arterial pulse.  •Shock - Definition. Classification-causes and features  •Regional Circulation: Coronary, Cerebral and Cutaneous circulation.  •Cardiovascular changes during exercise.  7-8)Functions of blood, blood cells, immunity, blood types, blood clotting, mechanisms of blood coagulation;  •Composition and functions of blood.  •Plasma: Composition, formation, Plasma proteins.  •RBC: count and its variations. Erythropoiesis- stages, factors regulating. Reticulo-endothelial system Hemoglobin - Anemia. Blood indices, PCV, ESR.  •WBC: Classification. Morphology, functions, count, its variation of each. Immunity  •Platelets: Morphology, functions, count, its variations  •Hemostatic mechanisms: Blood coagulation-factors, mechanisms. Their disorders. Anticoagulants.  •Blood Groups: Landsteiner's law. Types, significance, determination, Erythroblastosis fetalis.  •Blood Transfusion: Cross matching.  Indications and complications.  •Lymph: Composition, formation, circulation, and functions.  9) MID-TERM EXAM  10-11-12) Physiology of circulation (cardiac cycle, blood flow, blood pressure, vascular compliance) , heart sounds, physiology of circulatory disorders  13-14) Respiratory system, regulation of respiratory system compliance and its variations.  •Respiratory system functions. Respiratory distress syndrome  •Spirometer: Lung volumes and capacities. Timed vital capacity and its clinical significance. Maximum ventilation volume. Respiratory minute volume.  •Dead Space: Types and their definition.  •Pulmonary Circulation. Ventilation-perfusion ratio and its importance.  •Transport of respiratory gases: Diffusion across the respiratory membrane. Oxygen transport - Different forms. Oxygen-hemoglobin dissociation curve.Factors affecting it. Haldane and Bohr effect. Carbon dioxide transport: Different forms, chloride shift.  •Regulation of Respiration: Neural Regulation. Hering-breuer's reflex.Voluntary control of respiration and Chemical Regulation.  •Hypoxia: Effects of hypoxia. Types of hypoxia. Hyperbaric oxygen therapy.Acclimatization Hypercapnia. Asphyxia. Cyanosis - types and features.Dysbarism  •Disorders of Respiration: Dyspnea.Orthopnea. Hyperpnea, hyperventilation, apnea, tachypnoea. periodic breathing - types  15)FINAL EXAM  **PLANNED LEARNING ACTIVITIES AND TEACHING METHODS:**  Presentations in the class**,** Discussions and Group studies in the class  **ASSESSMENT CRITERIA:** 2 hand written theoretical. The information given in the presentations is evaluated by multiple-choice exams.Mid-term exams affects total score %40, final examination affects %60.  **HISTOLOGY**  Duration: 14 Weeks  Total Hours: 56 Hours  Theory: 42 Hrs  Preparations before/after weekly lectures:10 Hrs  Mid-terms: 2 Hrs  Final examination: 2 Hrs  **THEORY**  **Course Goals**  At the end of this course, students will be able to learn and count the science of histology, embryo formation, and the development of tissues and organs.  **Course Content**  Histological structure of the cells and basic tissues in the human body, their relationship with human anatomy and physiology, embryonic development, and defects of the musculoskeletal system. The following topics are covered in this scope: Structure of cells and organelles, Cell Division, Cover and Secretion Epithelium, Connective, Blood, Cartilage, Bone, Muscle, and Nerve Tissue  **Learning Outcomes**   1. To learn the tissue features 2. To learn the tissue and organ relations 3. To learn the basic principles of histology science field   **Weekly Topics**   1. Introduction to Histology 2. Basic histology laboratory 3. Epithelial tissue-I 4. Epithelial tissue-II 5. Connective tissue-I 6. Connective tissue-II 7. Blood tissue 8. Cartilage tissue 9. MID-TERM EXAM 10. Bone tissue 11. Muscle tissue-I 12. Muscle tissue-II 13. Nervous tissue-I 14. Nervous tissue-II and Skin tissue 15. FINAL EXAM   **PLANNED LEARNING ACTIVITIES AND TEACHING METHODS:**  Presentations in the class**,** Discussions and Group studies in the class  **ASSESSMENT CRITERIA:** 2 multiple-choice theoretical exams. The information given in the presentations is evaluated by multiple-choice exams.Mid-term exams affects total score %40, final examination affects %60.  **BIOCHEMISTRY**  Total Hours: 66 Hours  Theory: 28 Hrs  Preparations before/after weekly lectures:28 Hrs  Mid-terms: 5 Hrs  Final examination: 5 Hrs  **Course Goals**  Biochemistry lesson’s goal is to teach structure and function of cell membrane and organelles; basic information on the structural properties, functions, and metabolism of proteins, carbohydrates, and lipids, the basic molecules of cells and tissues; to teach the importance, structure, sources, function, metabolism, deficiency, relationship with diseases, safe quantities, toxic properties, and safe quantities of vitamins in oil and water; the hormone mechanism of action and the roles of hormones in regulation of metabolic events; The main qualitative and quantitative methods used in the medical laboratory are aimed at teaching haematological, kidney, and liver function tests and bone production and destruction parameters.  **Course Content**  This course describes the structure and functions of cell organelles and membranes; the structure, functions, and metabolism of biological molecules; the importance and functions of vitamins; the mechanism of hormonal actions; the methods used in medical laboratories; and haematological, renal, and liver function tests.  **Learning Outcomes**   1. Recognise the area of interest of clinical biochemistry, classify biological samples. 2. Recognise the structures and functions of enzymes and their use as diagnostic criteria in the diagnosis of diseases. 3. Explain the metabolism of carbohydrates, proteins, and lipids. 4. Explain the structures, functions, and metabolism of nucleic acids and vitamins.   **Weekly Topics**   1. Definition and interests of biochemistry 2. Water, solutions and buffer solutions 3. Amino acids and proteins 4. Metabolism and deficiencies of protein metabolism 5. Structures of enzymes 6. Enzyme activity, and the enzymes using in definition of diseases 7. Structures of carbohydrates 8. Metabolism and deficiencies of carbohydrates, Lipids and their structures 9. MIDTERM EXAM 10. Metabolism and deficiencies of lipids 11. Structures of nucleic acids 12. Metabolism of nucleic acids 13. Structures of vitamins 14. Functions and deficiencies of vitamins 15. FINAL EXAM   **PLANNED LEARNING ACTIVITIES AND TEACHING METHODS:**  Presentations in the class**,** Discussions and Group studies in the class  **ASSESSMENT CRITERIA:** 2 multiple-choice theoretical exams. The information given in the presentations is evaluated by multiple-choice exams.Mid-term exams affects total score %40, final examination affects %60. | W,V,P | Y |
| 1 | REHABILITATION AND ETHICAL PRINCIPLES | Duration: 14 Weeks  Total Hours: 29 Hrs  Theory: 14 Hrs  Mid-terms: 5 Hrs  Final examination: 10 Hrs  **Course Goals**   1. Students learn about the physiotherapy profession around the world and the ethical rules applicable in Turkey.Understands the importance of adherence to ethical values. 2. Gains the ability to communicate with different disciplines and to work, analyse, and synthesise in a multidisciplinary team in light of the information it acquires. 3. Gains the ability to solve the problems faced with an ethical approach and make decisions.   **Course Content**  It includes the definition of ethical principles for the physiotherapy profession. In this context, Ethics, Religion, Morality, Medical Ethics, APTA Ethical Principles, Professional Ethical Rules in Physiotherapy, ENPHE, Statements and Discussion of Current Issues are included.  **Learning Outcomes**   1. To define health concepts in physiotherapy and rehabilitation 2. To explain and discuss ethical problems in medicine and rehabilitation   **Weekly Topics**   1. History of Physiotherapy and Rehabilitation - Definition of ethics and concept of morality 2. Ethics in Physiotherapy and Rehabilitation 3. Ethics in Physiotherapy and Rehabilitation 4. International Classification of Functioning, Disability and Health and Use in Physiotherapy (ICF) 5. Basic Concepts in Health (Terminology) 6. Basic Concepts in Physiotherapy (Terminology) 7. Basic Concepts in Rehabilitation (Terminology) 8. MID-TERM EXAM 9. Fields of Study in Physiotherapy and Rehabilitation - Duties and Responsibilities of Physiotherapists in the Use of Electrophysical Agents 10. Fields of Study in Physiotherapy and Rehabilitation-Duties and Responsibilities of Physiotherapists in the Field of Neurological Rehabilitation 11. Fields of Study in Physiotherapy and Rehabilitation-Duties and Responsibilities of Physiotherapists in the Field of Orthopedic Rehabilitation 12. Fields of Study in Physiotherapy and Rehabilitation-Duties and Responsibilities of Physiotherapists in the Field of Cardiopulmonary Rehabilitation 13. Communication Concept 14. Communication with Patients, Their Relatives and Healthcare Professionals 15. FINAL EXAM   **PLANNED LEARNING ACTIVITIES AND TEACHING METHODS:**  Presentations in the class**,** Discussions and Group studies in the class  **ASSESSMENT CRITERIA:** 2 multiple-choice theoretical exams. The information given in the presentations is evaluated by multiple-choice exams.Mid-term exams affects total score %30, final examination affects %70. | W | Y |
| 1 | PHYSICS | Duration: 14 Weeks  Total Hours: 62 Hrs  Theory: 32 Hrs  Preparations before/after weekly lectures:20Hrs  Mid-terms: 5 Hrs  Final examination: 5 Hrs  **Course Goals**  Students examine medical application of basic mechanics, statics, dynamics, and electrical informations.  **Course Content**  Measurement of Single and two-dimensional motion, Vectors, Laws of Motion, Work, Potential and Kinetic Energy, Momentum and Impulse, Electric force, potential, current and resistance and DC circuits.  **Learning Outcomes**   1. Understand systems of measurements 2. Apply Fundamental rules of Physics to the mechanical systems 3. Explain characteristics of dynamic system by defining it 4. Capability of analyzing the force, electrical field etc. that are formed by charged systems 5. Capability of doing analysis on electricity current and its conduction   **Weekly Topics**   1. Measurement and Vectors 2. Motion in one dimention 3. Motion in two dimention 4. Rules of Motion 5. Circular Motion 6. Work and Kinetic Energy 7. Potantial Energy and Conservation of Energy 8. Linear Momentum and Collisions 9. MIDTERM EXAM 10. Electrical Forces 11. Electrical Fields 12. Electrical Potential 13. Current and Resistor 14. DC Cicuits and Kirchff's Law 15. FINAL EXAM   **PLANNED LEARNING ACTIVITIES AND TEACHING METHODS:**  Presentations in the class**,** Discussions and Group studies in the class  **ASSESSMENT CRITERIA:** 2 multiple-choice theoretical exams. The information given in the presentations is evaluated by multiple-choice exams.Mid-term exams affects total score %40, final examination affects %60. | W | Y |
| 1 | INTRODUCTION TO PSYCHOLOGY | Duration: 14 Weeks  Total Hours: 84 Hrs  Theory: 48 Hrs  Preparations before/after weekly lectures:16 Hrs  Mid-terms: 10 Hrs  Final examination: 10 Hrs  **Course Goals**  The aim of the course is to examine why and how people behave. In this way, it helps people better understand themselves and others..  **Course Content**  The definition, purpose, and benefits of psychology include defining the biological basis of behaviour; the study of human cognitive and personality development, and the defence mechanisms that the individual uses to protect his or her mental health.  **Learning Outcomes**   1. People get to know the various features 2. Understanding internal and external causes of human behavior 3. Itself, to recognize personality traits 4. Impellent people's motives to learn 5. Attention and perception of the impact on the law to know the behavior of 6. To know and understand the importance of intelligence to the properties of 7. To have effective communication skills   **Weekly Topics**   1. Basic concepts in psychology 2. The Biological Foundations of Behaviour 3. Human Development 4. Cognitive Development and Language Development 5. Personality Development 6. Needs, motives, and will urge 7. General Alert Status to it, the emotions and excitement 8. Attention and Perception 9. MID-TERM EXAM 10. Defense Mechanisms 11. Mental Disorders 12. Mental Disorders 13. Intelligence and Capabilities 14. The Biological Foundations of Behaviour 15. FINAL EXAM   **PLANNED LEARNING ACTIVITIES AND TEACHING METHODS:**  Presentations in the class**,** Discussions and Group studies in the class  **ASSESSMENT CRITERIA:** 2 multiple-choice theoretical exams. The information given in the presentations is evaluated by multiple-choice exams.Mid-term exams affects total score %40, final examination affects %60. | W | Y |
| 1 | ENGLISH LANGUAGE-I | Duration: 14 Weeks  Total Hours: 60 Hrs  Theory: 28 Hrs  Preparations before/after weekly lectures:14 Hrs  Assessments: 4 Hrs  Mid-terms: 4 Hrs  Final examination: 8 Hrs  **Course Goals**  This course aims to equip undergraduate students, according to the "European Language Portfolio Global Scale" of A1-A2 in English, with Basic grammar, understanding oral presentation, speaking, reading, and expressing themselves in written form.  **Course Content**  Teaching English grammar, vocabulary, reading comprehension, oral production, and writing skills in order to help students follow occupational English courses in the next few years and prepare them for learning English further after university and in professional life.  **Learning Outcomes**   1. Having attended this course, undergraduate students will have a sufficient level of English ("European Language Portfolio Global Scale", Levels A1-A2) for following their field of study and communicating with their colleagues; in other words, they can; 2. Speak and understand clear standard speech on daily life, indoors and outdoors. 3. Understand texts that consist mainly of basic level 4. Travel to an area where the language is spoken and have a conversation with native-speakers about everyday life.   **Weekly Topics**   1. UNIT ONE-Greetings/The Alphabet/Numbers 0–15/ Pronouns/ articlea-an/Family members/Possessives with's,, of/prepositions/simple sentences with am-is-are 2. Sentences with (there is-are) countries,nationalities, and colours 3. Unit Two: Cardinal-Ordinal-Even-Odd Numbers/Nouns/Time Line,To be Verbs/Simple Sentences with (was-were) 4. Sentences with (there was-were)/adjectives/Jobs 5. UNIT THREE-Have got-Has got/Quantifiers (some-any-much-a lot of-a few- a little-several) 6. Unit Four: Days-Months-Seasons/Sentences with the Group of Do-Does, Frequency Adverbs, and Question Words 7. Daily expression/Revision, Describing people/postions of time 8. UNIT FIVE-Sentences with the group of (am-is-are+ing) 9. MID-TERM EXAM 10. Modals (can-may-must-have to/has to)/Animals 11. Adjectives 12. Comparatives 13. Superlatives 14. Revision 15. FINAL EXAM   **PLANNED LEARNING ACTIVITIES AND TEACHING METHODS:**  Presentations in the class**,** Discussions and Group studies in the class  **ASSESSMENT CRITERIA:** 2 multiple-choice theoretical exams. The information given in the presentations is evaluated by multiple-choice exams.Mid-term exams affects total score %40, final examination affects %60. | W | Y |
| 1 | TURKISH LANGUAGE-I | Duration: 14 Weeks  Total Hours: 80 Hrs  Theory: 42 Hrs  Preparations before/after weekly lectures:18 Hrs  Assessments: 14 Hrs  Mid-terms: 5 Hrs  Final examination: 5 Hrs  **Course Goals**  To teach the properties of the language, to teach the historical periods of Turkish, to enable the learners to understand the vocal and structural properties of Turkish, and to use the punctuation well.  **Course Content**  Learning the properties of language, its importance in social life, historical periods of Turkish, phonetics, words by meaning and role, punctuation, presentation, poetry, essay, composition, story, article, newspaper and magazine studies, and applications..  **Learning Outcomes**   1. Gets into the habit of reading books and follows daily papers and other written media. 2. Can calculate the effects of foreign words on the language and see the effects of culture on the language. 3. Uses Turkish in an appropriate way.   **Weekly Topics**   1. Definition of Language 2. Language-Culture-Civilization Relationship 3. Position and Importance of Language in Society’s Life 4. Language families in the world from the point of view of origin and structure 5. Position of the Turkish language among the world languages 6. Historical development of the Turkish language 7. Accent Concepts 8. Atatürk and Phases of Becoming Simple in the Turkish Writing Language 9. MID-TERM EXAM 10. Turkish Sounds and Their Classification 11. Word Kinds from the Point of View of Meanings and Duties 12. Word Groups 13. Sentence Knowledge 14. Revision 15. FINAL EXAM   **PLANNED LEARNING ACTIVITIES AND TEACHING METHODS:**  Presentations in the class**,** Discussions and Group studies in the class  **ASSESSMENT CRITERIA:** 2 multiple-choice theoretical exams. The information given in the presentations is evaluated by multiple-choice exams.Mid-term exams affects total score %40, final examination affects %60. | W | Y |
| 1 | BASIC INFORMATION TECHNOLOGIES | Duration: 14 Weeks  Total Hours: 61 Hrs  Theory: 42 Hrs  Assessments: 15 Hrs  Mid-terms: 2 Hrs  Final examination: 2 Hrs  **Course Goals**  By teaching the basic concepts of computer systems, hardware, operating systems, networks, and internet usage on the concepts of knowledge and skills to teach at a basic level.  **Course Content**  Introduction to Computers, Hardware, the Windows Operating System, Networks, and the Internet  **Learning Outcomes**   1. Basic concepts of computer systems and knows the names and functions of computer hardware inside and outside. 2. Perform the Windows 7 operating system installation, use, and may make changes to settings. 3. Knowing the network and network equipment, computers on the network devices can make adjustments. 4. Recognises Internet service, uses internet browsers, can research using the Internet, and may have information about Internet security and Internet technologies.   **Weekly Topics**   1. Introduction to computers. 2. How does the computer process data? 3. Computer's components: - Internal Hardware Components 4. Computer's components: - External Hardware Components 5. Introduction to Programming, File Types, and Extensions 6. Windows Operating System-Windows 7. Installation, Desktop and Details, Computer and files Protection 8. Basics of Windows, the Desktop Setting, and System Properties-Device Manager 9. MID-TERM EXAM 10. Elements of the Control Panel and use, the adjustments required 11. Remote Operation and System Management 12. Creating a Network Connection, Web Browser, and Internet Explorer Settings 13. Internet applications, navigation, search, mail, chat, social media, and e-commerce 14. Network and Security, Virus, and Anti-Virus Software 15. FINAL EXAM   **PLANNED LEARNING ACTIVITIES AND TEACHING METHODS:**  Presentations in the class**,** Discussions and pratices in the computer laboratory  **ASSESSMENT CRITERIA:** 2 multiple-choice theoretical exams. The information given in the presentations is evaluated by multiple-choice exams.Mid-term exams affects total score %40, final examination affects %60. | W | Y |
| 1 | HISTORY OF ATATURK’S PRINCIPLES AND REVOLUTIONS-I | Duration: 14 Weeks  Total Hours: 62 Hrs  Theory: 28 Hrs  Preparations before/after weekly lectures:14 Hrs  Assessments: 10 Hrs  Mid-terms: 5 Hrs  Final examination: 5 Hrs  **Course Goals**  To teach the importance of the principles of Atatürk by explaining the fundamental principles and benefits of the republic.  **Course Content**  Examine the events, thoughts, and principles in the rise and development process of Modern Turkey.  **Learning Outcomes**   1. Acquires knowledge of the sources belonging to the Principles of Atatürk. 2. Apprehends the renovation movements in the Ottomans. 3. Understands the state structure of the Turkish Republic with all its features. 4. Understands the gains of the Republic. 5. Apprehends Atatürk’s Principles and Revolution 6. Understands the importance of the Republic.   **Weekly Topics**   1. Content and aim of history of Ataturk Principles and Revolution. 2. Concepts like reform (Revolution, evolution, rebellion, reform). 3. State structure of the Ottomans. 4. Recovery and reform efforts in the state. 5. Constitutional developments in the state. 6. Geopolitics and foreign policy of the Ottoman State. 7. CUP’s accession to power. 8. WWI and the entrance of the Ottoman Empire into the war. 9. MID-TERM EXAM 10. Mondros Armistice and occupation of the country. 11. Reactions against the occupations. 12. Mustafa Kemal’s passage to Anatolia. 13. Period of the Congress. 14. Occupation of Istanbul. 15. FINAL EXAM   **PLANNED LEARNING ACTIVITIES AND TEACHING METHODS:**  Presentations in the class**,** Discussions and Group studies in the class  **ASSESSMENT CRITERIA:** 2 multiple-choice theoretical exams. The information given in the presentations is evaluated by multiple-choice exams.Mid-term exams affects total score %40, final examination affects %60. | W | Y |
| 1 | BASIC MEDICAL SCIENCES-II | This course includes 4 main courses in Medicine. These are Anatomy-II, Physiology-II, Embrology and Biophysics.  **ANATOMY-II**  Duration: 14 Weeks  Total Hours: 201 Hours  Theory: 100 Hrs  Pratical: 96 Hrs  Mid-terms: 4 Hrs  Final examination: 1 Hrs  **Course Goals**  To teach the anatomic terminology and the structure, elements, and functions of the systems in the body, to develop the ability to use relevant resources and educational materials.  **Course Content**  It involves examining the shape and structure of the normal body, and the relationships between organs in terms of shape, structure, function, and each other. In this context, the following topics are included:   1. Central Nervous System (Medulla Spinalis, Bulbus, Pons, Cerebellum, Mesencephalon, Cerebrum, Basal Ganglia, Tracts, Limbic System, Head Pairs 1-12) 2. Peripheral Nervous System (Plexus Brachialis, Thoracic and Spinal Nerves) 3. Circulatory System (Conduction System of the Heart, Innervation, Pericardium, Truncus, Pulmonalis, Arcus Aorta, Head-Neck and Lower Side Arteries, Veins and Lymphatic System) 4. Respiratory System (Larynx, Trachea And Bronchus Pleura And Mediastinum) 5. Urogenital System (Kidneys, Ureters, Vesica Urinaria and Urethra, Female and Male Genital Organs)   **Learning Outcomes:**   1. To learn the topographical relationship of anatomical structures, including bone, joint, muscle, and neurovascular structures, regarding the locomotor system 2. To learn specific motions for muscle exercises 3. To learn the respiration, circulation, digestion, genital, and urinary systems of the human body 4. To learn the pathologies of the anatomical structures under different conditions.   **Weekly Topics**:   1. The anatomy of the respiratory system 2. The anatomy of the circulatory system 3. The peripheral vessels 4. Anatomy practise 5. The anatomy of the digestive system, part 1 6. The anatomy of the digestive system, part-2 7. The anatomy of the urinary system 8. The anatomy of the male genital system 9. MID TERM EXAM 10. The anatomy of the female genital system 11. Anatomy practise 12. The anatomy of the endocrine system 13. The anatomy of sensory organs 14. Anatomy practise 15. FINAL EXAMS   **PLANNED LEARNING ACTIVITIES AND TEACHING METHODS:**  Presentations in the class**,** Discussions and Group studies in the class,Practical applications in application room on practical anotomical materials  **PRACTICAL:** Examine the respiratory, circulatory, digestive, urinary,male genital system and female genital system  **ASSESSMENT CRITERIA:** 2 hand written theoretical and 2 practise exams are given. The information given in the presentations is evaluated by multiple-choice exams, and by practice exams on anatomical structures, cadavers, and models seen in practise courses. Mid-term exams affects total score %40, final examination affects %60.  **PHYSIOLOGY-II**  Duration: 14 Weeks  Total Hours: 106 Hours  Theory: 52 Hrs  Preparing presentations: 26 Hrs  Preparations before/after weekly lectures:26 Hrs  Mid-terms: 1 Hrs  Final examination: 1 Hrs  **Course Goals**  The goal of physiology is to explain the physical and chemical factors that are responsible for the origin, development, and progression of life.  The aim of human physiology is to explain the specific characteristics and mechanisms of the human body that make it a living being.  **Course Content**  The central and peripheral nervous systems, endocrine, digestive, urinary, and reproductive systems are covered within the scope of medical education.   1. Gastrointestinal physiology, functions of the stomach, small intestine, and large intestine, and physiology of gastrointestinal disorders 2. The body fluids and kidneys (glomerular filtration, tubular processing of glomerular filtration), regulate acid-base balance. 3. Endocrinology, functions of hormones 4. Urogenital system, reproductive hormones, pregnancy, and lactation 5. Nervous system (structure of nerve, function of nerve, synaptic transmission). central nervous system, autonomic nervous system, 6. The special senses (eye and the sense of hearing)   **Learning Outcomes:**   1. Learning about endocrine system physiology 2. Learning about urogenital system physiology 3. Learning about the nervous system 4. Learning about sensory physiology 5. Learning about metabolism and energy cycles   **Weekly Topics**  1 & 2) Gastrointestinal physiology, functions of stomach, small intestine, large intestine, physiology of gastrointestinal disorders, protein, carbohydrate and lipid metabolism, the liver as an organ, metabolism and temperature regulation;  •Physiological anatomy and nerve supply of alimentary canal. Enteric nervous system.  •Saliva: Composition.Functions. Regulation. Mastication (in brief)  •Swallowing: Definition. Different stages.Its functions.  •Stomach: Functions. Gastric juice: Gland, composition, function, regulation.Gastrin: Production, function, and regulation. Peptic ulcer. Gastric motility. Gastric emptying. Vomiting.  •Pancreatic Secretion: Composition, production, function. Regulation.  •Liver: Functions of liver. Bile secretion:  Composition, functions, and regulation.  Gall bladder: Its Functions.  •Intestine: Succus entericus: Composition, function, and regulation of secretion. Intestinal motility and its function and regulation.  •Mechanism of Defecation.  3&4) The body fluids and kidney (glomerular filtration, tubular processing of glomerular filtration), regulation of acid-base balance, kidney diseases; Physiological anatomy of the area, Nephrons - cortical and juxtamedullary. Juxtaglomerular apparatus. Glomerular membrane. Renal blood flow and its regulation. Functions of kidneys.  •Mechanism of Urine Formation: Glomerular Filtration: Mechanism of glomerular filtration. GFR - normal value and factors affecting. Renal clearance. Inulin clearance. Creatinine clearance.  •Tubular Reabsorption:  •Micturition: Mechanism of micturition, Cystometrogram. Atonic bladder, automatic bladder.  •Acid-Base balance  •Artificial Kidney: Principle of hemodialysis. Skin and temperature regulation.  5&6) Endocrine system, function of hormones;  •Major endocrine glands hormone: classification, mechanism of action. Functions of hormones  •Pituitary Gland: Anterior Pituitary and Posterior Pituitary hormones: Secretory cells, action on target cells, regulation of secretion of each hormone. Disorders: Gigantism, Acromegaly, Dwarfism, Diabetes insipidus.  •Pituitary-Hypothalamic Relationship.  •Thyroid Gland: Thyroid hormone and calcitonin: secretory cells, synthesis, storage, action, and regulation of secretion. Disorders: Myxedema, Cretinism, Grave's disease.  •Parathyroid hormones: secretory cell, action.Disorders: Hypoparathyroidism.Hyperthyroidism. Calcium metabolism and its regulation.  •Adrenal Gland: Adrenal Cortex:  Secretory cells, synthesis, action, regulation of secretion of Aldosterone, Cortisol, and Androgens. Disorders: Addison's disease, Cushing's syndrome, Conn’s syndrome, Adrenogenital syndrome. Adrenal Medulla: Secretory cells, action, regulation of secretion of adrenaline and noradrenaline. Disorders: Pheochromocytoma.  •Endocrine Pancreas: Secretory cells, action, regulation of secretion of insulin and glucagon. Glucose metabolism and its regulation. Disorder: Diabetes mellitus.  7&8) Urogenital system and reproductive hormones;  •Male Reproductive System: Functions of testes. Pubertal changes in males.Spermatogenesis. Testosterone hormone  •Female Reproductive System: Function of ovaries, Pubertal changes in females and its hormones.  9)MID-TERM EXAM  10&11)Nervous system (structure of nerve, function of nerve, types of nerve, synaptic transmission) ;  •Resting membrane potential, Action potential - ionic basis and properties. Nerve: Structure and functions of neurons.Classification, Properties and impulse transmission of nerve fibers. Nerve injury - degeneration and regeneration.  •Neuroglia: Types and functions.  •Structure. Neuromuscular junction  •Structure. Neuromuscular transmission, myasthenia gravis.  •Excitation-Contraction coupling. Rigor mortis. Motor unit Properties of skeletal.  12&13) Central nervous system, autonomic nervous system,  14)The special senses (eye and the sense of hearing) ;  •Functions of cornea, iris, pupil, aqueous humor - glaucoma, lens - cataract, vitreous humor, rods and cones. Photopic vision. Scotopic vision.  •Visual Pathway and the effects of lesions.  •Refractive Errors: myopia, hypermetropia, presbyopia and astigmatism.  •Visual Reflexes: Accommodation, Pupillary and Light. Visual acuity and Visual field. Light adaptation. Dark adaptation. Color vision - color blindness. Nyctalopia.  •Audition: Physiological anatomy of the ear. Functions of external ear, middle ear and inner ear. Structure of Cochlea.  •Auditory pathway. Types of Deafness.Tests for hearing. Audiometry.  •Taste: Taste buds. Primary tastes.Gustatory pathway.  •Smell: Olfactory membrane. Olfactory pathway.  •Vestibular Apparatus: Crista guapullaris and macula. Functions. Disorders  15)FINAL EXAMS  **PLANNED LEARNING ACTIVITIES AND TEACHING METHODS:**  Presentations in the class**,** Discussions and Group studies in the class,preparing presentations  **ASSESSMENT CRITERIA:** 2 hand written theoretical are given. The information given in the presentations is evaluated by hand written exams, Mid-term exams affects total score %40, final examination affects %60.  **BIOPHYSICS**  Duration: 14 Weeks  Total Hours: 58 Hours  Theory: 28 Hrs  Preparing presentations: 14 Hrs  Preparations before/after weekly lectures:14 Hrs  Mid-terms: 1 Hrs  Final examination: 1 Hrs  **Course Goals**  The mechanisms of disease formation at the molecular-level are aimed at being learned in Biophysics.Understanding life from cells to humans, biophysics principles of energy transfer systems, energy and matter flow, and bioenergetic mechanisms as a result of disruptions in emerging diseases in diagnosis and treatment in order to gain new approaches, knowledge, skills, and behaviours.  **Course Content**  In biophysics courses, it is aimed at gaining further insights into biological events through physical approaches such as energetics and knowledge. In the basic biophysics part, structure of the atom and molecule, biomolecules, bioenergetics, knowledge, kibernetics, and kinetics (enzymes) are the main topics. In the second part of the Biophysics courses, the target is to give the notion of transition from unicellular to multicellular organisms (higher organisms), embryonic development, cell proliferation, differentiation, and the mechanisms of regulation and supervision in matters of cancer.  **Learning Outcomes**   1. Basic principles of biophysics and learning biophysical applications 2. Biophysical events in cells learn. 3. Action potentials and synaptic transmission learn. 4. The EEG and ECG learn. 5. Skeletal muscle learns. 6. The biophysics of vision and hearing 7. The respiratory system learns.   **Weekly Topics**   1. The aim of the course, the introduction of textbooks, and the general introduction, 2. Cell and the cell membrane, transition paths through the cell membrane,transport of substances 3. Action potential 4. Synaptic transmission and volumetric transmission 5. EEG, EMG, and ECG 6. Skeletal muscle and contraction mechanism 7. Midterm exam 8. Respiratory biophysics 9. MID-TERM EXAMS 10. Visual biophysics, hearing biophysics 11. Radiation biophysics 12. Biological effects of radiation. 13. Medical imaging methods 14. Medical imaging methods 15. FINAL EXAMS   **PLANNED LEARNING ACTIVITIES AND TEACHING METHODS:**  Presentations in the class**,** Discussions and Group studies in the class  **ASSESSMENT CRITERIA:** 2 multiple-choice theoretical exams. The information given in the presentations is evaluated by multiple-choice exams.Mid-term exams affects total score %40, final examination affects %60.  **EMBRYOLOGY**  Duration: 14 Weeks  Total Hours: 58 Hours  Theory: 28 Hrs  Preparing presentations: 10 Hrs  Preparations before/after weekly lectures: 8Hrs  Mid-terms: 1 Hrs  Final examination: 1 Hrs  **Course Goals**  To learn the intrauterine embryonic and foetal stages of human development, from the zygote to the delivery period.  **Course Content**  General Embryology Subjects (Introduction to Embryology, Gametogenesis, Fertilisation, Embryonic and Foetal Periods, Placenta and Foetal Membranes, Developmental Abnormalities and Disorders)  **Learning Outcomes**   1. To learn about embryonic and foetal development 2. To learn the embryonic origins of the human anatomical structures 3. To learn the reasons and embryonic background of birth abnormalities   **Weekly Topics**   1. Introduction to general embryology 2. Embryological terminology 3. Gametogenesis 4. Female Reproductive System 5. Ovarian and Menstrual Cycles 6. Fertilisation 7. Embryonic Week-I 8. Embryonic Week-II/ III 9. MID-TERM EXAMS 10. Embryonic Weeks Between 4 and 8 11. Fetal Period 12. Placenta and Fetal Membranes 13. Birth Abnormalities - I 14. Birth Abnormalities – II 15. FINAL EXAMS   **PLANNED LEARNING ACTIVITIES AND TEACHING METHODS:**  Presentations in the class**,** Discussions and Group studies in the class  **ASSESSMENT CRITERIA:** 2 multiple-choice theoretical exams. The information given in the presentations is evaluated by multiple-choice exams.Mid-term exams affects total score %40, final examination affects %60. | W,V,P | Y |
| 1 | PSYCHOSOCIAL REHABILITATION | Duration: 14 Weeks  Total Hours: 34 Hours  Theory: 14 Hrs  Preparing presentations: 9 Hrs  Preparations before/after weekly lectures:9 Hrs  Mid-terms: 1 Hrs  Final examination: 1 Hrs  **Course Goals:**  The main purpose of the psychosocial physiotherapy course is to direct students' clinical experiences to the rehabilitation programme by taking into account the psychosocial conditions of disabled individuals.  **Course Content:**  Teaching the terms disability and invalidity. To learn Causes of disability, The family's approach to children with disabilities, Disability acceptance circuits, Persons with disabilities in child development, Psychosocial approaches for the visually impaired.  **Learning Outcomes**  To recognise the concepts of handicap and disability groups. To be able to develop appropriate approaches and to provide their competence in their daily lives with effective methods.  **Weekly Topics**   * + 1. Disability, disability concepts     2. Causes of disability     3. Causes of disability     4. The first reaction of the family     5. Family Attitudes     6. Apology Integration Circuits     7. Personality Development in Children with disabilities     8. Hearing-impaired Psychosocial Approaches in     9. MID-TERM EXAMS     10. Psychosocial Approaches for Visually Handicapped     11. Mentally Disabled Psychosocial Approaches in     12. Psychosocial Approaches in neuromuscular Disorders     13. Post-trauma Stress Disorder     14. Psychosocial Approaches for Traumatic Disorder     15. FINAL EXAMS   **PLANNED LEARNING ACTIVITIES AND TEACHING METHODS:**  Presentations in the class**,** Discussions and Group studies in the class  **ASSESSMENT CRITERIA:** 2 multiple-choice theoretical exams. The information given in the presentations is evaluated by multiple-choice exams.Mid-term exams affects total score %40, final examination affects %60. | W | Y |
| 1 | HEALTH SOCIOLOGY | Duration: 14 Weeks  Total Hours: 90 Hours  Theory: 28 Hrs  Preparations before/after weekly lectures:32  Hrs  Presentation preparation:20 Hrs  Mid-terms: 5 Hrs  Final examination: 5 Hrs  **Course Goals**  The aim of this course is to give individuals the ability to plan occupational skills and find modern approaches for patient health care requirements and population health.  **Course Content**  This course includes an introduction to sociology, sociology definitions, person and society, relationship between culture-health and illness, elementary health sociology and study areas, health and illness, relationship between patients and health employees, and factors affecting  **Learning Outcomes**  Students who completed this course have knowledge about health, illness, health professionals, and patient relationships.  **Weekly Topics**   1. What is sociology? Sociological method principles. Relationship between sociology and other sciences 2. Person and society. Social institutions 3. Relationship between culture-health, culture-society and illness 4. Elementary of health sociology 5. Relationship between medicine and sociology. Elementary of health sociology and study areas 6. Social structure effects on health and disease 7. Health and illness as a social system 8. Medical applications of sociocultural stage, folk medicine, modern medicine 9. MID-TERM EXAMS 10. Socio-cultural aspects of illness and the official establishment of relations, relationship between patient, midwife, doctor and hospital 11. Social organizations and health-illness system 12. Health-disease affecting the direction of socio-cultural elements 13. Health-disease affecting the direction of socio-cultural elements 14. Health illness and sociological exchange 15. FINAL EXAMS   **PLANNED LEARNING ACTIVITIES AND TEACHING METHODS:**  Presentations in the class**,** Discussions and Group studies in the class  **ASSESSMENT CRITERIA:** 2 multiple-choice theoretical exams. The information given in the presentations is evaluated by multiple-choice exams.Mid-term exams affects total score %40, final examination affects %60. | W | Y |
| 1 | BASIC COMPUTING SCIENCES | Total Hours: 60 Hours  Theory: 28 Hrs  Pratical: 80 Hrs  Preparations before/after weekly lectures:14 Hrs  Assignments: 6Hrs  Mid-terms: 6 Hrs  Final examination: 6 Hrs  **Course Goals**  Students who are able to use office application programmes like MS Word, MS Excel and MS PowerPoint have the ability to use advanced level programmes.  **Course Content**  To reach an advanced level of using MS Word, MS Excel and MS Powerpoint.  **Learning Outcomes**   1. MS Word document created by the application programme can set the page layout in any way, listing processes, applications, and students can format text as desired. 2. MS Excel workbook created by the application programme, you can create advanced level formulas, these formulas can be designed, and students can sort and filter data by doing the work with graphics..   **Weekly Topics**   1. MS Word-Looking Word, Working with Text, Document Save and Print, Advanced Text 2. MS-Word-Combining Graphics and Text, use the Long Documents, Data and Text Combine, Edit / Revise / Merge 3. MS Word-Customizing and Automating, Track Changes, creating an equation, add auditing 4. MS Excel -Preparation and Printing of documents of the worksheet, the formula Usage And Field Logic 5. MS Excel-Logical Comparisons, FunctionS 6. MS Excel -Working with Data, Data Processing and Subtotals 7. MS Excel -Searching and filtering of data, Data Entry Form in its structure 8. MS Excel -The Goal Seek, Working with Graphics, Graphics Operations 9. MID-TERM EXAMS 10. MS Excel -New Worksheets, Data and Information Transfer Between Pages 11. MS Excel -Summary Table, Integration with Other Office Programs 12. Getting to Know PowerPoint, create a new presentation, Working with Text, Working with Graphics 13. Working with Tables and Charts, Figure Drawing, Creating a Custom Themes and Quick Styles 14. Working with Multimedia, Transitions and Animations implement, deliver your presentation 15. FINAL EXAMS   **PLANNED LEARNING ACTIVITIES AND TEACHING METHODS:**  Presentations in the class**,** Discussions and Group studies in the class  **ASSESSMENT CRITERIA:** 2 multiple-choice theoretical exams. The information given in the presentations is evaluated by multiple-choice exams.Mid-term exams affects total score %40, final examination affects %60. | W | Y |
| 1 | ENGLISH LANGUAGE-II | Duration: 14 Weeks  Total Hours: 56 Hours  Theory: 28 Hrs  Preparations before/after weekly lectures:14 Hrs  Assignments:10 Hrs  Mid-terms: 2 Hrs  Final examination:2 Hrs  **Course Goals**  This course aims to equip undergraduate students, "European Language Portfolio Global Scale" B1, in English with the following: Basic grammar, Understanding oral production, Speaking interactively, Reading, and expressing themselves in written form.  **Course Content**  English grammar, vocabulary, reading comprehension, oral production, and writing skills in order to help students follow occupational English courses in the next few years and prepare them for learning English further after university and in professional life.  **Learning Outcomes**   1. .Having attended this course, undergraduate students will have a sufficient level of English (“European Language Portfolio Global Scale”, Level B1) for following their field of study and communicating with their colleagues; in other words, they can; 2. Understand clear standard speech on familiar matters regularly encountered at work, school, leisure, etc. 3. Understand texts that consist mainly of high frequency every day or job-related language, 4. Able to travel in an area where the language is spoken, have a conversation with native-speakers on everyday life.   **Weekly Topics**   1. Sentences with the group of(shall-will) 2. Sentences with the group of(am-is-are going to)/ Taq questions 3. Comparisons of adjectives 4. Sentences withe the group of (have-has) 5. Sentences with the group of (was-were +ing) 6. Some conjunctions(while-when-both...and-either...or-neither...nor) 7. Some conjunctions(while-when-both...and-either...or-neither...nor) 8. Infinitive gerund, Sentences with the group of (have-has been) 9. MID-TERM EXAMS 10. Sentences with the group of (had)/Conjunctions (after-as soon as-before-when-by the time) 11. Be able to/Such a-an adj.-noun that/ So adj.-adv. that /So much-many-few-little noun 12. Conditional clauses(If-clauses)Type 1-2-3 13. Too, enough / Revision 14. Too, enough / Revision 15. FINAL EXAMS   **PLANNED LEARNING ACTIVITIES AND TEACHING METHODS:**  Presentations in the class**,** Discussions and Group studies in the class  **ASSESSMENT CRITERIA:** 2 multiple-choice theoretical exams. The information given in the presentations is evaluated by multiple-choice exams.Mid-term exams affects total score %40, final examination affects %60. | W | Y |
| 1 | TURKISH LANGUAGE-II | Duration: 14 Weeks  Total Hours: 52 Hours  Theory: 28 Hrs  Preparations before/after weekly lectures:14 Hrs  Mid-terms: 5 Hrs  Final examination: 5 Hrs  **Course Goals**  Turkish Language-II class aims to teach the basic rules of written and oral expression to the students.  **Course Content**  Spelling rules and punctuation, expression and expression disorder, composition works, and practise.  **Learning Outcomes**   1. Comes to terms with the structure of the Turkish language and uses punctuation properly. 2. Gets into the habit of reading books, follows the newspapers and magazines. 3. Speaks Turkish in an appropriate way, has the ability to express himself well. 4. Becomes capable of making presentations, can express his ideas and knowledge comprehensibly.   **Weekly Topics**   1. Spelling Rules 2. Punctuation Marks 3. Expressions and Expression Defeats 4. General Knowledge about Composition 5. How to Write Petition 6. How to Write Report 7. How to Write Official Letter 8. How to Write Revision 9. How to Write Business Letter 10. MID-TERM EXAMS 11. How to Write 12. How to Write E-mail and Article 13. How to Write Curriculum 14. Rules for Preparing Scientific Paper 15. FINAL EXAM   **PLANNED LEARNING ACTIVITIES AND TEACHING METHODS:**  Presentations in the class**,** Discussions and Group studies in the class  **ASSESSMENT CRITERIA:** 2 multiple-choice theoretical exams. The information given in the presentations is evaluated by multiple-choice exams.Mid-term exams affects total score %40, final examination affects %60. | W | Y |
| 1 | HISTORY OF ATATURK’S PRINCIPLES AND REVOLUTIONS-II | Duration: 14 Weeks  Total Hours: 62 Hours  Theory: 28 Hrs  Preparations before/after weekly lectures:14 Hrs  Assignments:16 Hrs  Mid-terms: 2 Hrs  Final examination: 2 Hrs  **Course Goals**  To summarise political developments in the completed phase of the Turkish Revolution and the establishment process of the new state, Ataturk Revolutions in the political and social fields.  **Course Content**  Events, thoughts, and principles in the rise and development process of Modern Turkey.  **Learning Outcomes**   1. To be able to identify the historical roots of the Turkish Revolution and to consciously claim Ataturk’s revolutions 2. To be able to interpret the energy taken from Turkish history and the Turkish National Struggle, the student claims his state and nation. 3. To be able to recognise internal and external threats towards the Republic, secularism, and Turkish Nation, he is on alert. 4. To be able to recognise his country, homeland, and nation, he has a consciousness that produces policies to them. 5. To be able to know the difficulties in the establishment of the Turkish Grand National Assembly (TGNA) 6. To be able to learn the National Struggle’s difficulties 7. Analyse what the Treaty of Sèvres brought.   **Weekly Topics**   1. Opening Turkish Grand National Assembly (TGNA) and its features First activities of the TGNA and first codes 2. Reactions to TGNA, internal rebellions, opposite groups, the press in the National Struggle 3. National Struggle Fronts (south and southeast) 4. National Struggle Fronts (east) and the Armenian Question 5. National Struggle Fronts (west), first occupations and national army 6. Establishment of regular army and financial sources of the National Struggle 7. Treaty of Sevres and its impact on Turkish Nation 8. Fronts in the National Struggle, Inonu I and Inonu II, Sakarya and Great Attack 9. MID-TERM EXAM 10. Political aspect of National Struggle, Mudanya Armistice, Lozan Peace Conference, Foreign policy in the Ataturk period 11. Revolutions in the political, educational, cultural jurisprudence and social field 12. Republicanism, Nationalism, Populism 13. Secularism, Etatism, revolutionism 14. FINAL EXAM   **PLANNED LEARNING ACTIVITIES AND TEACHING METHODS:**  Presentations in the class**,** Discussions and Group studies in the class  **ASSESSMENT CRITERIA:** 2 multiple-choice theoretical exams. The information given in the presentations is evaluated by multiple-choice exams.Mid-term exams affects total score %40, final examination affects %60. | W | Y |
| 2 | MANUAL THERAPY TECHNIQUES-I | Duration: 14 Weeks  Total Hours: 142 Hours  Theory: 84 Hrs  Pratical: 44 Hrs  Preparations before/after weekly lectures:10 Hrs  Mid-terms: 2 Hrs  Final examination: 2 Hrs  **Course Goals**  The goal of this course is to teach muscle and bone palpation, to provide the student with basic theoretical and practical knowledge of massage techniques, to provide knowledge of the effects of connective tissue massage and techniques, and to provide learning of the basic concepts of evaluation and application of different situations in which massage can be used to improve the ability to apply and to develop problem-solving skills in these issues in the field of physiotherapy and rehabilitation.  **Course Content**  Effect mechanism of classic massage, classic massage techniques, contraindications and indications, classic massage techniques for face, neck, abdomen, back, upper and lower extremities, the effect mechanism of connective tissue massage and techniques for body parts, assessment methods used in determining the effectiveness of post-application, the practical applications, indications, and contraindications of these methods.  **Learning Outcomes**   1. Learn palpation, classic massage and Learn palpation, classic massage, and connective tissue massage principles, Learns to make the necessary evaluation and plan as a treatment option in cases indicated in massage. 2. Learns about pathologies that may be contraindicated to massage 3. Learn muscle and bone palpation. 4. Learn classic massage applications, Learns about basic information about the reflex, mechanical, physiological, and clinical effects of massage methods and techniques, 5. Learn connective tissue massage, and apply the decision-making process for the use of massage in clinical practise.   **Weekly Topics**   1. General principles of palpation: how to palpate the body, head, and extremities; knowing anatomical landmarks Knows how to palpate bone and soft tissue and how to evaluate tone. Can differentiate tissues with palpation 2. Upper limb palpation 3. Lower limb palpation 4. Spine palpation 5. Therapeutic effects of classic massage, techniques, dosage of massage, decide effective dosage, indications and contraindications of massage, preparation of the environment, therapist, and patient for massage. 6. Massage techniques for the cervical and upper thoracic 7. MID-TERM EXAM 8. Massage techniques for the upper limbs and face 9. Massage techniques for the lower back and lower limbs 10. General principles, dosage, techniques, indications, and contraindications of deep friction 11. History of connective tissue massage, influence mechanism of CTM, reflex zones, composed reactions, indications, and contraindications 12. Base, upper and lower thoracal, scapular, interscapular, cervical, and occipital regions CTM application 13. Upper limb, thorax, and face regions: CTM application 14. Lower limb, pelvis, and abdominal regions: CTM application 15. FINAL EXAM   **PLANNED LEARNING ACTIVITIES AND TEACHING METHODS:**  Presentations in the class**,** Discussions and Group studies in the class**.** Once Students observe the technique of massage, they practise with each other.  **ASSESSMENT CRITERIA:** 2 multiple-choice theoretical exams and 2 practical exams. The information given in the presentations is evaluated by multiple-choice exams.Students should be able to apply the techniques taught in the classroom on the practical exam.There are questions that include anatomy questions in practical exams. Students who fail a certain number of these questions are deemed to have failed the practical exam. Practical exams Mid-term exams affects total score %30, practial exam %20, final examination affects %50. | W,V,P | Y |
| 2 | BIOMECHANIC AND KINESIOLOGY-I | Duration: 14 Weeks  Total Hours: 86 Hours  Theory: 42 Hrs  Preparations before/after weekly lectures:14 Hrs  Assignments:20 Hrs  Mid-terms: 5 Hrs  Final examination: 5 Hrs  **Course Goals**  To define the basic terms and principles of kinesiology biomechanics, present a biomechanical point of view to physiotherapists for clinical situations, and discuss examples from the clinic and everyday life.  **Course Content:**  Basic terms of biomechanics and kinesiology, research field of biomechanics, force, equilibrium, levers and pulleys, applications and human body examples, movement, bone-muscle-ligament, and joints, anatomical and physiologic components, pathologic processes, assessment, and measurement in kinesiology.  **Learning Outcomes**   1. To describe the fundamentals of biomechanics, to define the correlation between body structures and movement. 2. To explain bone-muscle and joint biomechanics and learn how to apply biomechanical principles to human movement, posture, and locomotion. 3. To have an integrated approach to pathological conditions, to understand the force, its application, mechanisms of injury, and prevention strategies.   **Weekly Topics**   1. Basic Biomechanics and Kinesiology I- Axes and Planes 2. Basic Biomechanics and Kinesiology II- Key Components of Movement 3. Basic Biomechanics and Kinesiology III- Force systems 4. Hip Joint Biomechanics and Kinesiology I Inclination angle of the femur 5. Hip Joint Biomechanics and Kinesiology II-Torsion angle of the femur 6. Biomechanics and Kinesiology of the Hip Joint III- Osteokinematics/ arthrokinematics of the hip joint 7. Hip Joint Biomechanics and Kinesiology IV- Lumbopelvic rhythm 8. Knee Joint Biomechanics and Kinesiology Lower Extremity alignment 9. MID-TERM EXAM 10. Osteokinematic/ arthrokinematics, Knee Joint Biomechanics and Kinesiology III- Knee joint osteokinematic/ arthrokinematic 11. Knee Joint Biomechanics and Kinesiology IV- Knee joint osteokinematic/ arthrokinematic 12. Ankle-Ankle Joint Biomechanics and Kinesiology I -Ankle joint osteokinematics/ arthrokinematics 13. Ankle-Ankle Joint Biomechanics and Kinesiology II -Ankle joint osteokinematics/ arthrokinematics 14. Ankle-Ankle Joint Biomechanics and Kinesiology III -Ankle joint osteokinematics/ arthrokinematics 15. FINAL EXAM   **PLANNED LEARNING ACTIVITIES AND TEACHING METHODS:**  Presentations in the class**,** Discussions and Group studies in the class  **ASSESSMENT CRITERIA:** 2 multiple-choice theoretical exams. The information given in the presentations is evaluated by multiple-choice exams.Mid-term exams affects total score %40, final examination affects %60. | W | Y |
|  | CLINICAL SCIENCES-I | Duration: 14 Weeks  Total Hours: 150 Hours  Theory: 96 Hrs  Assignments: 14 Hrs  Preparations before/after weekly lectures:14 Hrs  Preparing Presentations:14 Hrs  Mid-terms: 5 Hrs  Final examination: 5 Hrs  **Course Goals**  The aims of these courses are to introduce students to basic orthopaedic problems, their pathologies, and traumas, along with the basic principles of physiotherapy and rehabilitation.  **Course Content**  Introduction to musculoskeletal system,trauma,skeletal disorders,congenital hip dislocation, bone and joint infections, foot deformities, neuromuscular disorders, sports injuries, spinal deformities,benign and malign tumours of bone, fractures and fracture treatment principles, osteoporosis and osteoarthritis,paediatric fractures,upper extremity trauma, and lower extremity trauma.  **Learning Outcomes**   1. Student completed this course successfully should have basic knowledge about orthopedic disease 2. Student completed this course successfully should have basic knowledge about pathologic sciences 3. Student completed this course successfully should have basic knowledge about rheumatic diseases   **Weekly Topics**   1. Definition of pathology, laboratory glance, Cell injury 2. Inflammation, inflammation responses 3. Wound Healing, Blood Flow Disorders, Shock 4. Radiology Introduction, History and Terminology System Organ and Tissue Effects of the radiation, 5. Radiological Imaging Methods, they use Medical Conditions 6. Basic radiographic analysis 7. Fracture Healing 8. MID-TERM EXAM 9. Bone Joint Disease,osteomyelitis 10. Fracture Healing, Bone Tumors 11. The disc herniation, rheumatic diseases 12. Family Planning, Process pregnancy, antenatal care 13. Birth Stages, Delivery Methods 14. Prenatal and postnatal exercises, Urogynechology Rehabilitation and Osteoporosis 15. FINAL EXAM   **PLANNED LEARNING ACTIVITIES AND TEACHING METHODS:**  Presentations in the class**,** Discussions and Group studies in the class  **ASSESSMENT CRITERIA:** 2 multiple-choice theoretical exams. The information given in the presentations is evaluated by multiple-choice exams.Mid-term exams affects total score %40, final examination affects %60. | W | Y |
| 2 | BASIC MEASUREMENT AND EVALUATION IN PHSIOTHERAPY | Duration: 14 Weeks  Total Hours: 142 Hours  Theory: 84 Hrs  Pratical: 28 Hrs  Preparations before/after weekly lectures:20 Hrs  Mid-terms: 5 Hrs  Final examination: 5 Hrs  **Course Goal**  Introduction to measurement and evaluation methods used in physiotherapy, posture analysis, anthropometric measurements, flexibility tests, goniometric measurements, measurement of the normal range of motion, and muscle testing.  **Course Content**  The aim of the course is to acquire skills and knowledge to record the history and evaluation of the patient, with basic principles of movement, posture analysis (anterior, lateral, and posterior posture analysis), shortness and flexibility tests and evaluation, anthropometric measurements (circumference, length, diameter, and skinfold measurements), measurement of normal range of motion with a goniometer, muscle strength, and evaluation methods on a theoretical and practical basis.  **Learning Outcomes:**   1. The ability to gain knowledge of basic assessment methods specific to the field of physiotherapy and rehabilitation, 2. To plan and organize the measurement and evaluation process, 3. To gain the capacity to choose and apply assessment and evaluation methods and tools, 4. Students will gain the ability and attitude to interpret the evaluation results with a view of clinical problem solving, 5. To carry out the evaluation process in accordance with ethical principles and patient rights.   **Weekly Topics**   1. The basic principles of motion, Introduction to evaluation 2. Posture Analysis- anterior-posterior-lateral 3. Shortness and Flexibility Evaluation 4. Antropometric measurements - circumference and length measurements 5. Antropometric measurements - diameter and adipose tissue measurements 6. Range of motion evaluation- upper extremity 7. Range of motion evaluation- upper extremity 8. Range of motion evaluation- cervical and lumbal region 9. MID-TERM EXAMS 10. Muscle strength evaluation methods - body and lower extremity 11. Muscle strength evaluation methods - body and lower extremity 12. Muscle strength evaluation methods -upper extremity 13. Muscle strength evaluation methods -upper extremity 14. Muscle strength evaluation methods - face muscles and gross muscle strength evaluation 15. FINAL EXAM   **PLANNED LEARNING ACTIVITIES AND TEACHING METHODS:**  Presentations in the class**,** Discussions and Group studies in the class**.**  Practical assessments have been done by students, supervised by a tutor.  **ASSESSMENT CRITERIA:** 2 multiple-choice theoretical exams and 2 practical exams. The information given in the presentations is evaluated by multiple-choice exams. Students should be able to apply the assessment techniques taught in the classroom on the practical exam.Mid-term exams affects total score %30, pratical exam %30, final examination affects %40. | W,V,P | Y |
| 2 | NEUROANATOMY AND NEUROPHYSIOLOGY | Duration: 14 Weeks  Total Hours: 96 Hours  Theory: 42 Hrs  Pratical: 16 Hrs  Preparations before/after weekly lectures:28 Hrs  Mid-terms: 5 Hrs  Final examination: 5 Hrs  **Course Goal**  To ensure for understanding functions and features of the central, periphreal and autonomic nervous systems, and to gain competence for differences in these neuroanatomic structures as a result of dysfunctions.  **Course Content**  Basic features of the peripheral nervous system, innervated the muscles, and the clinical features of the pathologies. The macro anatomy, functions and clinical features of the pathologies in the spinal cord, brainstem, diencephalon and telencephalon.Clinical features and pathology of the autonomic nervous system  Interactive processing of the roles of neuroanatomic structures with examples from daily life.  **Learning Outcomes**   1. Recall the nervous system structures. 2. Recognize the relation between the structures of the nervous system. 3. Explain the functions of the nervous system structures. 4. Define the clinical conditions that may be seen in the lesions of the nervous system structures.   **Weekly Topics**   1. Introduction to Nervous System 2. Membranes of the Brain and Spinal Cord/Ventricular System, and Circulation of Cerebrovascular Fluid 3. Spinal Cord -Medulla Oblongata 4. Pons -Mesencephalon 5. Cerebellum 6. Diencephalon 7. Reticular Formation -Basal Ganglion 8. Mid-term Exam and Telencephalon 9. MID-TERM EXAM 10. Descending Nerve Tracts 11. Ascending Nerve Tracts 12. Cranial Nerves 1 (1-6 cranial nerves) 13. Cranial Nerves 2 (7-12 cranial nerves) 14. Autonomic Nervous System -Limbic System, Vessels of Central Nervous System 15. FINAL EXAM   **PLANNED LEARNING ACTIVITIES AND TEACHING METHODS:**  Presentations in the class**,** Discussions and Group studies in the class  **ASSESSMENT CRITERIA:** 2 multiple-choice theoretical exams. The information given in the presentations is evaluated by multiple-choice exams.Mid-term exams affects total score %40, final examination affects %60. | W | Y |
| 2 | PRINCIPLES OF NUTRITION | Duration: 14 Weeks  Total Hours: 71 Hours  Theory: 28 Hrs  Preparations before/after weekly lectures:28 Hrs  Assignments:5 Hrs  Mid-terms: 5 Hrs  Final examination: 5 Hrs  **Course Goals**  Students of Physiotherapy and Rehabilitation will learn about the principles of nutrition in health and illness and their roles and responsibilities in this field.  **Course Content**  This course covers the basic properties, biological importance, and metabolism of carbohydrates, lipids, proteins, enzymes, vitamins, minerals, nucleic acids, and hormones.  **Learning Outcomes**   1. Perceive what is obtained from the metabolic entirety, functions, and metabolisms, between carbohydrates, proteins, and lipids. 2. Perceive structures, functions of enzymes and operate us diagnosis criteria. 3. Have qualified wisdom about progressive disease dependent breaks in the metabolic pathway 4. Understanding energy metabolism, energy intake, and consumption   **Weekly Topics**   1. Preamble of biochemistry, comprehension and identification of biochemistry, and base knowledge about biomolecules and metabolism. 2. Structures, classifications, functions, digestions, and absorption of carbohydrates 3. Metabolic pathway of carbohydrate metabolism and disruption of carbohydrate metabolism. 4. Structures, classifications, functions, digestions, and absorption of lipids. 5. Phospholipid, glycolipid, cholesterol, and steroid metabolism. Disruption in connection with lipid metabolism. 6. Structures, classifications, properties, and metabolism of amino acids. deterioration of amino acid metabolism. 7. Structures, classifications, functions, digestions, and absorption of proteins 8. Property, classification, and action of enzymes. Regulation of enzyme activation. The importance of enzymes in the diagnosis of disease, Nucleotide metabolism. Disruption with nucleotide metabolism. 9. MID-TERM EXAM 10. Structure, proportion, function, and replication of DNA. Structure, proportion of RNA. Synthesis of proteins 11. Classification, functions, and biological importance of minerals. 12. Water and mineral metabolism 13. Structure, function, and classification of hormones 14. Structure, function, and classification of hormones 15. FINAL EXAM   **PLANNED LEARNING ACTIVITIES AND TEACHING METHODS:**  Presentations in the class**,** Discussions and Group studies in the class  **ASSESSMENT CRITERIA:** 2 multiple-choice theoretical exams. The information given in the presentations is evaluated by multiple-choice exams.Mid-term exams affects total score %40, final examination affects %60. | W | Y |
| 2 | PROFESSIONAL ENGLISH-I | Duration: 14 Weeks  Total Hours: 66 Hours  Theory: 28 Hrs  Preparations before/after weekly lectures:18 Hrs  Assignments:10 Hrs  Mid-terms: 5 Hrs  Final examination: 5 Hrs  **Course Goals**  It is aimed at students to have technical vocabulary knowledge, comprehend what they listen to, make dialogues, comprehend what they read, and express their vocational knowledge in writing in English at the A1-A2 level of the Common European Framework.  **Course Content**  Knowledge of English grammar, vocabulary, reading comprehension, oral expression, and writing skills that can be needed in their profession.  **Learning Outcomes**  Each student who has completed the course successfully should use the terminology in specific contexts. They should also have an adequate grammatical background through which they utilise the terminology.  **Weekly Topics**   1. Simple present tense: verb to be, body parts, 2. Subject./object pronouns / organs and systems 3. Simple present tense: negative and questions - instruments used in physiotherapy 4. Simple future tense - duties of a physiotherapist 5. Be going to - emergency expressions 6. Making comparisons with adjectives - radiology terms 7. Prepositions of time and place - medical terms with have and get 8. Countable/uncountable nouns - tooth anatomy 9. MID-TERM EXAM 10. Extra materials 11. Present cont. tense - dental care 12. Expressing ability and possibility - diet vocabulary 13. Conditionals type 0/1 - adjectives describing illnesses 14. Giving advice should/ shouldn't - symptoms and illnesses 15. FINAL EXAM   **PLANNED LEARNING ACTIVITIES AND TEACHING METHODS:**  Presentations in the class**,** Discussions and Group studies in the class  **ASSESSMENT CRITERIA:** 2 multiple-choice theoretical exams. The information given in the presentations is evaluated by multiple-choice exams.Mid-term exams affects total score %40, final examination affects %60. | W | Y |
| 2 | ELECTROPHYSICAL AGENTS-I | Duration: 14 Weeks  Total Hours: 152 Hours  Theory: 84 Hrs  Pratical: 30 Hrs  Preparations before/after weekly lectures:28 Hrs  Mid-terms: 5 Hrs  Final examination: 5 Hrs  **Course Goals**  To provide knowledge of electrophysical principles of electrotherapy modalities and mechanisms and application techniques of low and medium-frequency currents. Understanding electrotherapy agents like heat, light, and water agent in physiotherapy and learning how to use them properly in clinics.  **Course Content**  The electrophysical mechanisms, physiological responses of nerve and muscle to electrical stimulation, excitability properties of innervated and denervated muscle, and basic properties and applications of low and medium frequency currents. Inflammation, heat, light sources, electrophysical agents like hotpacks, infrareds, UV, fluidotherapy, etc.  **Learning Outcomes**   1. Describes the basic concepts and principles of electrotherapy methods. 2. Knows the electrical properties of tissues 3. Improves their understanding of the excipient properties of nerve and muscle 4. Understands the properties of low and medium frequency currents, gains knowledge and skills about application principles.   **Weekly Topics**   1. The history of electrotherapy and electreophysical principles 2. Heat agents in physiotherapy, Light agents in physiotherapy, Infrared, laser, Ultraviolet, heliotherapy 3. Hydrotherapy, Whirlpool, Hubbard Tank, Fluidotherapy, Hot-packs, paraffin aqua therapy, spa 4. Electrical properties of tissues, Direct currents and modification ways 5. Effects of stimulation on inervated and denervated muscle,Low-frequency currents 6. Electrodiagnosis 7. High Voltage Pulsed Galvanic Current 8. MID-TERM EXAM 9. Physiology of Pain, Mechanisms of TENS and its application 10. Physiology of Pain, Mechanisms of TENS and its application 11. Diadinamic currents 12. Interferential currents 13. Microcurrent, Ultra-reiz and Russian Currents 14. Neuromuscular Electrical Stimulation and Functional Electrical Stimulation 15. FINAL EXAM   **PLANNED LEARNING ACTIVITIES AND TEACHING METHODS:**  Presentations in the class**,** Discussions and Group studies in the class.A tutor demonstrates the equipmentsand students are able to try them.  **ASSESSMENT CRITERIA:** 2 multiple-choice theoretical exams. The information given in the presentations is evaluated by multiple-choice exams.Mid-term exams affects total score %40, final examination affects %60. | W,P | Y |
| 2 | BIOMECHANIC AND KINESIOLOGY-II (ERASMUS: BIOMECHANICS AND KINESIOLOGY) | Duration: 14 Weeks  Total Hours: 116 Hours  Theory: 56 Hrs  Preparations before/after weekly lectures:40  Assignments:10 Hrs  Mid-terms: 5 Hrs  Final examination: 5 Hrs  **Course Goals**  To present the integration of science and technology with anatomy, physiology, and biomechanics, to focus on the kinetics and kinematics of human movement, and to describe motion analysis techniques.  **Course Content**  To describe human movement science, muscle/joint mechanics and measurement techniques, kinematic and kinetic analysis, motion analysis, applications, and human body examples.  **Learning Outcomes**   1. To define normal and pathological body structures 2. To explain the correlation of body parts 3. To have an integrated approach to diseases, injuries, and disabilities 4. To solve problems related to posture, gait, and joints   **Weekly Topics**   1. Explanation of gait and analyses 2. Gait charecteristics 3. Gait kinetic and kinematic analysis 4. Gait analysis-practical 5. Pathological gait 6. Pathological gait, kinetic, and kinematic analysis 7. Pathological gait analysis-practical 8. Columna vertebralis, kinesiology and biomechanics, and pathomechanics of the columna vertebralis 9. MID-TERM EXAM 10. Pelvis, kinesiology, and biomechanics 11. Knee, ankle, kinesiology, and biomechanics 12. Shoulder kinesiology and biomechanics 13. Elbow-hand kinesiology and biomechanics 14. Measurement methods 15. FINAL EXAM   **PLANNED LEARNING ACTIVITIES AND TEACHING METHODS:**  Presentations in the class**,** Discussions and Group studies in the class  **ASSESSMENT CRITERIA:** 2 multiple-choice theoretical exams. The information given in the presentations is evaluated by multiple-choice exams.Mid-term exams affects total score %40, final examination affects %60. | W | N |
| 2 | CLINICAL SCIENCES-II (ERASMUS: PHYSICAL THERAPY) | Duration: 14 Weeks  Total Hours: 152 Hours  Theory: 98 Hrs  Preparations before/after weekly lectures:24 Hrs  Assignments:20  Mid-terms: 5 Hrs  Final examination: 5 Hrs  **Course Goals**  The subject programme introduced knowledge from range of different kind of energy used in physical therapy.  **Course Content**  The aim of this course is to teach theoritical and practical knowledge about pysical principals of the electrophysical agents, physiological effects, application methods, indications and contraindications and hazards of the agents and enhance the application methods of students.  **Learning Outcomes**   1. Students can define basic notions and principles about electrotherapy methods. 2. Student knows physical principles, physiological effects and application methods related to electrotherapy modalities. 3. Student defines the indications, contraindications and hazards of the electrotherapy agents. 4. Student can define proper pysical agents to patient and disease. 5. Student knows basic assessment and measurement methods and applies electrophysical agents. 6. Student can provide the security of the patient and him/herself.   **Weekly Topics**   1. Introduction to lesson 2. High frequency currents 3. Shortwave diatermy 4. Microwave diatermy 5. Interferential current 6. Extrasorporeal shock wawe therapy ESWT 7. Micro currents 8. MID-TERM EXAM 9. Biofeedback 10. Biofeedback 11. Magnetotherapy 12. Russian current 13. Ultrasound 14. Ultrasound 15. FINAL EXAM   **PLANNED LEARNING ACTIVITIES AND TEACHING METHODS:**  Presentations in the class**,** Discussions and Group studies in the class. Demonstrates the equipmentsand students are able to try them.  **ASSESSMENT CRITERIA:** 2 multiple-choice theoretical exams. The information given in the presentations is evaluated by multiple-choice exams.Mid-term exams affects total score %40, final examination affects %60. | W,P | N |
| 2 | ELECTROPHYSICAL AGENTS-II (ERASMUS:METHODOLOGY AND DIDACTICS OF PHYSICAL EDUCATION) | Duration: 14 Weeks  Total Hours: 112 Hours  Theory: 84 Hrs  Pratical: 10 Hrs  Preparations before/after weekly lectures:14 Hrs  Mid-terms: 5 Hrs  Final examination: 5 Hrs  **Course Goals**  The aim of the course to acquaint students with principles, range and tasks of physical activities in schools and qualify them to become a competent proffessionals.Students will gain the competencies in methodology, organization and planning of educational process as well as the creativity and skills to link up an indicidual research development with pedagogical pratice.  **Course Content**  Students' developmental characteristics being in mind that they should be physically strong and healthy, gaining physical education habits of playing sports, basketball / badminton / volleyball / soccer / table tennis branches level of play and be acquainted with the general aim of the sports branches.  **Learning Outcomes**   1. Strengthening the functions and systems of body. 2. Devolopment of nerve and muscle coordination. 3. Gaining habits related with Physical education and sports. 4. For being healthy, be aware of the benefits of physical education and sports. Enthusiasm for sports activities 5. Volleyball; ability to perform fundamental actions and developing Volleyball skills 6. Soccer; ability to perform fundamental actions and developing Soccer skills 7. Be informed about Basketball , Badminton & Table tennis 8. Knowledge of sports equipments and use them as required.   **Weekly Topics**   1. Course Description (Aims and operation plan) 2. Objectives of physical education and sport 3. History of Sports and Olympism 4. Introduction to Sports branches 5. Volleyball; game rules 6. Volleyball; Fundamentals and practises 7. Volleyball; defense principles and practices 8. Volleyball; offence/fast attack principles and practices 9. MID-TERM EXAM 10. Soccer; game rules 11. Soccer; Fundamentals and practises 12. Soccer; defense principles and practices 13. Soccer; Ofence principles and practices 14. Table Tennis; game rules 15. Table Tennis; Fundamentals and practises 16. FINAL EXAM   **PLANNED LEARNING ACTIVITIES AND TEACHING METHODS:**  Presentations in the class**,** Discussions and Group studies in the class**.** Practice sports in the field.  **ASSESSMENT CRITERIA:** 2 multiple-choice theoretical exams. The information given in the presentations is evaluated by multiple-choice exams.Mid-term exams affects total score %40, final examination affects %60. | W | N |
| 2 | PRINCIPLES OF THERAPEUTIC EXERCISES (ERASMUS: HUMAN KINETICS & FUNCTIONAL DIAGNOSTICS AND REHABILITATION PROGRAMMING IN ORTOPEDICS AND TRAUMATOLOGY | Duration: 14 Weeks  Total Hours: 201 Hours  Theory: 96 Hrs  Pratical: 80 Hrs  Preparations before/after weekly lectures:20 Hrs  Mid-terms: 5 Hrs  Final examination: 5 Hrs  **Course Goals**  The aim of this course is to explain to the students about orthopaedic problems and musculoskeletal system injuries, providing an understanding of the mechanism of these injuries and their connection to human kinetics, as well as the situations and activities that can cause injuries, degeneration, and disability.  **Course Content**  The basic descriptions and mechanisms of orthopaedic problems and musculoskeletal system injuries; etiologic factors that cause musculoskeletal system injuries and early degeneration; the importance of orthopaedic rehabilitation in orthopaedic problems.  **Learning Outcomes**   1. The student can define the importance of the assessment for the orthopaedic problems. 2. The student can explain the assessment methods used for musculoskeletal system injuries. 3. The student realises the noteworthy points for the assessment. 4. The student can define musculoskeletal system injuries and the mechanisms of their early degeneration.   **Weekly Topics**   1. The description of the orthopedic rehabilitation 2. The importance of the assessment in the orthopedic rehabilitation 3. Use of the SOAP formula 4. The purposes of the orthopedic rehabilitation for the early periods 5. The purposes of the orthopedic rehabilitation for the late periods 6. The assessment methods use for orthopedic rehabilitation 7. The subjective assessment methods use for orthopedic rehabilitation 8. MID-TERM EXAM 9. Kinematic Assessments use for the muscle, tendons, other soft tissues and joints 10. Special assessment methods for the orthopedic pathologies 11. Assessment of the assistive devices, orthotics and shoes, their effect on kinematics 12. Assessment of the assistive devices, orthotics and shoes, their effect on kinematics 13. Examine the posture and deformities 14. Assessment of the functional level and rating systems 15. FINAL EXAM   **PLANNED LEARNING ACTIVITIES AND TEACHING METHODS:**  Presentations in the class**,** Discussions and Group studies in the class. Practical applications have been done by students, supervised by a tutor.  **ASSESSMENT CRITERIA:** 2 multiple-choice theoretical exams. The information given in the presentations is evaluated by multiple-choice exams.Mid-term exams affects total score %40, final examination affects %60. | W,P | N |
| 2 | MANUAL THERAPY TECNIQUES-II (ERASMUS: THERAPEUTIC MASSAGE) | Duration: 14 Weeks  Total Hours: 138 Hours  Theory: 84 Hrs  Pratical: 34 Hrs  Preparations before/after weekly lectures:10 Hrs  Mid-terms: 5 Hrs  Final examination: 5 Hrs  **Course Goals:**  To introduce the conditions that produce pain, inflammation, and limited motion in joints and soft tissue structures; to provide acknowledgement of basic evaluation methods; and to acquire the skills of basic massage, mobilisation, and manipulation application techniques for the treatment of these conditions.  **Course Content**  Students will be able to learn the definition and clinical applications of therapeutic massage, myofascial release, manipulation, mobilisation, traction, and other manual therapy methods in shoulder, scapula, and sternocbiucular joints, elbow and wrist joints, hip, knee, and ankle joints, cervical, thoracic, and lumbar regions. They will acquire the skills to interpret the scientifically proven data using their knowledge and skills in the field of manual therapy.  **Learning Outcomes**   1. Learn how to apply therapeutic massage and Become familiar with indications and contraindications 2. Learn extremities manuplation-mobilization principles and applications 3. Learn columna vertebrales manuplation-mobilization principles and applications   **Weekly Topics**   1. Biomechanical and kinematic features of anatomic structures 2. Definition and general principles of massage 3. Definition and general principles manipulation and mobilisation 4. Innovative Approaches in Manual Therapy 5. Neuromobilisation Techniques 6. Massage and mobilisation techniques for shoulder zone and elbow 7. Manipulation and mobilisation techniques for hand and wrist 8. Massage and mobilisation techniques for coxae 9. MID-TERM EXAM 10. Massage and mobilisation techniques for knee and  ankle 11. Manipulation and mobilisation techniques for cervical spine 12. Massage and mobilisation techniques for thoracal spine 13. Manipulation and mobilisation techniques for lumbar spine 14. Massage and mobilisation techniques for sacral spine 15. FINAL EXAM   **PLANNED LEARNING ACTIVITIES AND TEACHING METHODS:**  Presentations in the class**,** Discussions and Group studies in the class**.** Practical assessments have been done by students, supervised by a tutor.  **ASSESSMENT CRITERIA:** 2 multiple-choice theoretical exams. The information given in the presentations is evaluated by multiple-choice exams.Mid-term exams affects total score %40, final examination affects %60. | W,P | N |
| 2 | APPLIED EXERCISE PHYSIOLOGY (ERASMUS: THEORY AND METHODOLOGY OF INDIVIDUAL SPORTS) | Duration: 14 Weeks  Total Hours: 100 Hours  Theory: 42 Hrs  Preparations before/after weekly lectures:42 Hrs  Assignments: 6 Hrs  Mid-terms: 5 Hrs  Final examination: 5 Hrs  **Course Goals**  The tasks of the physical therapist who specialises in sports and the prevention of sports injuries, the basics of sports  **Course Content**  In this course, Sports Methodology, Sports Injuries, Monitoring and Evaluation of Sports Injuries, Nontraumatic Injuries in Sports, Sports-related Shoulder Injuries, Sports-related Shoulder Injuries, and Differences between Athletes and Non-athletes in Healing Process, Endurance Exercise for Athletes, Sports-related Knee Injuries, Sports-related Knee Injuries, and Sports-related Ankle Injuries will be explained.  **Learning Outcomes**   1. .Learning pathophysiology of diseases and discuss with his/her colleagues logically 2. Analysing diseases and make his/her own way to rehabilitate patient   **Weekly Topics**   1. Sports phsiotherapy, measurement and evaluation techniques in sports 2. Description of physical fitness, physical fitness tests for athletes, adults, and children. 3. Women and sport; Children and sports. 4. Soft tissue injuries in athletes and healing process 5. First aid and preliminary treatment in sports injuries 6. Treatment principles in sports injuries and accurate treatment 7. Upper extremity injuries in athletes and planning physiotherapy and rehabilitation programs 8. MID-TERM EXAM 9. Upper extremity injuries in athletes and planning physiotherapy and rehabilitation programs 10. Lower extremity injuries in athletes and planning physiotherapy and rehabilitation programs 11. Lower extremity injuries in athletes and planning physiotherapy and rehabilitation programs 12. Orthosis and taping in sports 13. Disabled sports; Training knowledge and sports pschology; Sports nutrition 14. Criteries for return to sport activities after sports injuries, organizing and applying functional rehabilitation program-student presentations 15. FINAL EXAM   **PLANNED LEARNING ACTIVITIES AND TEACHING METHODS:**  Presentations in the class**,** Discussions and Group studies in the class  **ASSESSMENT CRITERIA:** 2 multiple-choice theoretical exams. The information given in the presentations is evaluated by multiple-choice exams.Mid-term exams affects total score %40, final examination affects %60. | W | N |
| 2 | PROFESSIONAL ENGLISH-II (ERASMUS:TOURISM GEOGRAPHY) | Duration: 14 Weeks  Total Hours: 94 Hours  Theory: 28 Hrs  Preparations before/after weekly lectures:56 Hrs  Mid-terms: 4 Hrs  Final examination: 6 Hrs  **Course Goals**  The course aims to approach the geographical knowledge of the world with the essential aim of helping students understand the context where tourism occurs.  **Course Content**  First, an introduction to the geography of the planet Earth is made, working with maps as a basic tool of geographic science. Second, the current situation of tourism worldwide is explained, analysing the different regions of the world with a perspective that combines geography and tourism. The contents of this course will enable future graduates in tourism have basic knowledge and tools to develop their professional activity, as in the field of tourism, territory and destinations play an important role.  **Learning Outcomes**   1. Behave responsibly towards the environment. 2. Develop a capacity for independent learning. 3. Identify elements of world geography, together with the main regional tourism resources. 4. Identify the basic principles of tourism from a geographic perspective. 5. Plan, organise and coordinate a work team, creating synergies and showing empathy. Use communication techniques at all levels. Work in a team.   **Weekly Topics**   1. General geography 1.1. 2. Introduction to Geography 1.2. 3. The Earth 1.3. 4. Maps and cartography 1.4. 5. General physical geography 1.5. 6. General human geography 2. 7. Global tourism geography 2.1. 8. MID-TERM EXAM 9. Physical and political geography of Europe 10. Tourism geography of Europe 2.4. 11. Physical and political geography of America 12. Tourism geography of America. 13. Physical and political geography of Africa 14. Physical and political geography of Asia and the Pacific 15. FINAL EXAM   **PLANNED LEARNING ACTIVITIES AND TEACHING METHODS:** Presentations in the class**,** Discussions and Group studies in the class  **ASSESSMENT CRITERIA:** 2 multiple-choice theoretical exams. The information given in the presentations is evaluated by multiple-choice exams.Mid-term exams affects total score %40, final examination affects %60. | W | N |
| 3 | PULMONARY REHABILITATION | Duration: 14 Weeks  Total Hours: 148 Hours  Theory: 56 Hrs  Preparations before/after weekly lectures:42 Hrs  Assignments: 20 Hrs  Mid-terms: 10 Hrs  Final examination: 20 Hrs  **Course Goals**  Recognition of pulmonary problems in patients with respiratory disease, evaluation of patients with proper assessment methods, planning and application of appropriate treatment protocols, and selection of techniques.  **Course Content**  In this course, history, definition, principles, and components of pulmonary rehabilitation, pathophysiology and rehabilitation of respiratory diseases, assessment methods used in pulmonary rehabilitation, treatment methods used in pulmonary rehabilitation- breathing exercises, huffing coughing, dyspnea positions, postural drainage, manual techniques, active cycle of breathing techniques, physiotherapy and rehabilitation after thoracic surgery and upper abdominal surgery, assistive devices for breathing, physiotherapy in intensive care, physiotherapy and rehabilitation for neonates with breathing problems, energy conversation in daily activities, exercise testing and training will be explained.    **Learning Outcomes**   1. Planning specific evaluating methods for pulmonary diseases 2. Planning specific treatment methods for pulmonary diseases 3. Applying the planned evaluation and treatment methods 4. To have the necessary theoretical and practical knowledge to perform preventive rehabilitation and patient education.   **Weekly Topics**   1. Diagnostic tests for pulmonary system (Radiography Imaging methods, pulmonary function test) 2. Diagnostic tests for pulmonary system (Ventilation-perfusion ratio, blood gas analysis, imaging and life support systems) 3. Pulmonary Examination (Inspection, palpation, percussion, auscultation 4. Introduction of Pulmonary Rehabilitation 5. Evaluation methods for pulmonary rehabilitation 6. Component of the exercises program 7. Chest physiotherapy techniques 8. MID-TERM EXAM 9. COPD and rehabilitation 10. Asthma, Bronchiectasis, Emphysema 11. Restrictive pulmonary diseases ( musculoskeletal system, cor pulmonare) 12. Restrictive pulmonary diseases ( Obesite, pregnancy, lung parancimea) 13. Chest physiotherapy after thorax surgery 14. Cardiopulmonary rehabilitation for specific diseases (neonatal rehabilitation, lung transplatation) 15. FINAL EXAM   **PLANNED LEARNING ACTIVITIES AND TEACHING METHODS:**  Presentations in the class**,** Discussions and Group studies in the class  **ASSESSMENT CRITERIA:** 2 multiple-choice theoretical exams. The information given in the presentations is evaluated by multiple-choice exams.Mid-term exams affects total score %40, final examination affects %60. | W | N |
| 3 | ORTHOTICS REHABILITATION | Duration: 14 Weeks  Total Hours: 146 Hours  Theory: 72 Hrs  Preparations before/after weekly lectures:56 Hrs  Assignments:10 Hrs  Mid-terms: 5 Hrs  Final examination: 5 Hrs  **Course Goals**  To acquaint physiotherapy students with orthoses, their indications, applications, necessary modifications, and possible complications. To teach physiotherapy students to plan and apply the appropriate treatment programmes with the aim of increasing the effectiveness of orthoses and rehabilitation.  **Course Content**  Pathomechanical states that necessitate orthotic usage, purposes of orthoses, lower and upper extremity orthoses and rehabilitation, trunk orthoses and rehabilitation, solutions for the prevention and elimination of problems and complications that may be encountered with the use of orthoses, and technical and biomechanical control of the orthosis.  **Learning Outcomes**   1. Learn the basic concepts of orthoses, their definitions, classifications, and basic usage indications. 2. Know the types of orthoses that can be used for different pathologies and symptoms, compare the application characteristics. 3. Make decisions about the continuation, termination, modification, or modification of the orthosis requirement in accordance with the changes and developments in the patient's condition.   **Weekly Topics**   1. Introduction, explanation of the purpose, program, and operation of the course 2. Orthoses: Purposes, Terminology, Selection, and Prescribing Material Information Used in Orthosis Production Basic Techniques and Principles in Orthosis Production 3. Basic Principles and Components of Lower Extremity Orthoses Evaluation and Design Principles for Upper Extremity Orthoses Basic Principles and Components of Spinal Orthoses 4. Foot, Ankle Biomechanics and Pathomechanics Foot Orthoses Shoe Modifications 5. Spinal Deformity Orthoses Spinal Pathology Orthoses Protective Orthoses in the Spinal Region 6. Neurodevelopmentally Based Orthotic Approaches in Cerebral Paralysis Orthoses in Neuromuscular Diseases Orthoses in Myelomeningocele 7. Pediatric Orthopedic Problems (Torticollis, AGMC, Hand Anomalies, PEV, DÇ, PFFD, Perthes) 8. Lower Extremity Orthoses in Adult Neurological Diseases Robotic Orthoses in Spinal Cord Injuries Upper Extremity Orthoses in Adult Neurological Diseases 9. MID-TERM EXAM 10. Orthoses for the Prevention and Treatment of Sports Injuries of the Lower Extremity Orthoses for the Prevention and Treatment of Sports Injuries of the Upper Extremity 11. Functional Orthoses for Lower and Upper Extremity Fractures Orthoses After Total Joint Arthroplasty 12. Orthoses for Upper Extremity Overuse Injuries Upper and Lower Extremity Orthoses in Rheumatological Diseases Orthoses for Upper Extremity Burns 13. Orthoses After Hand Tendon Injuries Orthoses for Wrist and Hand Special Conditions 14. Orthoses in Peripheral Nerve Injuries Orthoses in Brachial Plexus Injuries 15. FINAL EXAM   **PLANNED LEARNING ACTIVITIES AND TEACHING METHODS:**  Presentations in the class**,** Discussions and Group studies in the class  **ASSESSMENT CRITERIA:** 2 multiple-choice theoretical exams. The information given in the presentations is evaluated by multiple-choice exams.Mid-term exams affects total score %40, final examination affects %60. | W | N |
| 3 | OCCUPATIONAL THERAPY | Duration: 14 Weeks  Total Hours: 118 Hours  Theory: 56 Hrs  Preparations before/after weekly lectures:42 Hrs  Assignments: 10 Hrs  Mid-terms: 5 Hrs  Final examination: 5 Hrs  **Course Goals**  In order to explain the role of occupational therapy in teamwork in rehabilitation, and to identify basic occupational therapy assessment methods with occupational performance evaluation methods. It is necessary to acquire basic information about the development of appropriate occupational therapy approaches.  **Course Content**  Principles of the occupational therapy approach, Teamwork in occupational therapy, Evaluation and training activities of daily living, Principles and practises of transfer activities, sensory integration evaluations and treatments  **Learning Outcomes**   1. To define occupational therapy and understand its importance in physiotherapy 2. Evaluating the patient's daily living activities 3. Learning to make arrangements for daily living activities to increase patient independence 4. Learning sense perception, motor assessment, and training 5. Learning ambulation activities   **Weekly Topics**   1. Introduction to occupational therapy 2. Assessment in the occupational therapy 3. Functional assessment 4. Assessment of daily living activities 5. Daily Life Activities Training 6. Self-help tools 7. Mobility aids for Daily Living Activities 8. MID-TERM EXAM 9. Innovative approaches in occupational therapy and Sensorimotor integration 10. Occupational therapy in neurological disorders 11. Occupational therapy in hemiplegia 12. Occupational therapy in pediatry 13. Occupational therapy in orthopedic disorders 14. Therapeutic exercise and games in occupational therapy 15. FINAL EXAM   **PLANNED LEARNING ACTIVITIES AND TEACHING METHODS:**  Presentations in the class**,** Discussions and Group studies in the class  **ASSESSMENT CRITERIA:** 2 multiple-choice theoretical exams. The information given in the presentations is evaluated by multiple-choice exams.Mid-term exams affects total score %40, final examination affects %60. | W | Y |
| 3 | NEUROPHYSIOLOGICAL APPROACHES-I | Duration: 14 Weeks  Total Hours: 142 Hours  Theory: 70 Hrs  Pratical: 20 Hrs  Preparations before/after weekly lectures:42 Hrs  Mid-terms: 5 Hrs  Final examination: 5 Hrs  **Course Goals**  The course aims to give the student basic theoretical and practical knowledge about PNF techniques and the application of these techniques.  **Course Content**  The role of neurophysiologic mechanisms in the control of motion, the theoretical and practical basics of PNF, types of application of PNF techniques, and examples of cases.  **Learning Outcomes**   1. Defines neurophysiologic mechanisms of PNF techniques. 2. States the aims of usage and the importance of PNF in other therapeutic exercises. 3. Solves the problems with facilitation or inhibition techniques in various neuromuscular disorders.Applies PNF techniques in different clinical conditions 4. Combines PNF techniques with different physiotherapy methods   **Weekly Topics**   1. Basic principles of PNF techniques 2. Basic procedures in PNF techniques 3. Scapula and Pelvis patterns 4. Upper extremity patterns 5. Lower extremity patterns 6. Bilateral extremity patterns 7. Head, neck and trunk patterns 8. MID-TERM EXAM 9. Special techniques in PNF (facilitation) 10. Special techniques in PNF (inhibition) 11. Mat activities 12. Gait training 13. Facilitation of the proximal vital functions 14. Different uses of PNF techniques and assistant agents 15. FINAL EXAM   **PLANNED LEARNING ACTIVITIES AND TEACHING METHODS:** Presentations in the class**,** Discussions and Group studies in the class. Once Students observe the technique of PNF, they practise with each other.    **ASSESSMENT CRITERIA:** 2 multiple-choice theoretical exams and o-1 practical exams. The information given in the presentations is evaluated by multiple-choice exams. Students should be able to apply the techniques taught in the classroom on the practical exam. Students who fail a certain number of questions in are deemed to have failed the practical exam. Mid-term exams affects total score %30, practical exams affects %30, final examination affects %40. | W,V,P | Y |
| 3 | ORTHOPEDIC REHABILITATION | Duration: 14 Weeks  Total Hours: 188 Hours  Theory: 42 Hrs  Practical: 25 Hrs  Preparations before/after weekly lectures:56 Hrs  Assignments:20 Hrs  Mid-terms: 15 Hrs  Final examination: 30 Hrs  **Course Goals**  Providing for the comprehension and transfer of basic procedures in the evaluation methods of musculoskeletal system injuries and orthopaedic problems that need surgical intervention or not; developing competence and skills to select and apply techniques.  **Course Content**  General treatment principles for fractures and physiotherapy and rehabilitation interventions after various fractures; conservative treatment of rheumatoid arthritis, osteoarthritis, and ankylosing spondylitis as the pathologies that lead to joint degeneration This course includes rehabilitation principles after joint replacement surgery as endoprosthesis; rehabilitation of pathologies like rotator cuff tendinitis and ruptures, bursitis, and periarthritis in the shoulder joint; rehabilitation principles of patellofemoral pain syndrome, ligament and meniscal injuries in the knee joint, cervical and low pain, and their physiotherapy and rehabilitation concepts; bandage applications and taping methods in musculoskeletal injuries, and other orthopaedic problems.  **Learning Outcomes**  After completing this course, the student:   1. Will be able to describe general orthopaedic problems. 2. Can explain musculoskeletal system injuries and degenerative joint diseases and know related complications of these problems. 3. Is know basic concepts about surgical procedures in cases where patients may need surgical intervention, and be aware of critical points that should be taken into account. 4. Comprehends and applies general and pathology-specific evaluation and measurement methods to orthopaedic problems. 5. Knows general treatment principles about musculoskeletal system injuries and degenerative diseases in orthopaedics and can identify the cases that need physical therapy and rehabilitation. 6. Determines and applies the most appropriate physiotherapy and rehabilitation programme dependent upon the pathology and situation of the patient, whether they have undergone surgical interventions or not.   **Weekly Topics**   1. General principles of assessment and evaluation methods in orthopaedic rehabilitation 2. Fractures, classification of the fractures, fracture healing, and complications 3. Treatment of the fractures and general principles of fracture rehabilitation 4. Rehabilitation of upper and lower extremity fractures 5. Physiotherapy and rehabilitation of rheumatoid arthritis and osteoarthritis 6. Physiotherapy and rehabilitation of ankylosing spondylitis and non-articular rheumatic diseases 7. MID-TERM EXAM 8. Endoprosthesis of the articulation and rehabilitation principles 9. Rehabilitation of shoulder rotator cuff pathologies, bursitis, and periarthritis 10. Patellofemoral pain syndrome and physiotherapy and rehabilitation principles 11. Rehabilitation of knee ligaments and meniscal injuries of the knee 12. Rehabilitation of common diseases of the ankle, wrist, and elbow 13. Mechanical low back pain and its rehabilitation 14. Bandaging methods for orthopaedic problems 15. FINAL EXAM   **PLANNED LEARNING ACTIVITIES AND TEACHING METHODS:**  Presentations in the class**,** Discussions and Group studies in the class  **ASSESSMENT CRITERIA:** 2 multiple-choice theoretical exams. The information given in the presentations is evaluated by multiple-choice exams.Mid-term exams affects total score %40, final examination affects %60. | W | Y |
| 3 | PEDIATRIC REHABILITATION | Duration: 14 Weeks  Total Hours: 156 Hours  Theory: 70 Hrs  Preparations before/after weekly lectures:56 Hrs  Mid-terms: 15 Hrs  Final examination: 15 Hrs  **Course Goals**   1. To enable children aged between zero and eighteen who are healthy and in need of physiotherapy and rehabilitation to comprehend the structure and importance of assessment in the field of paediatric physiotherapy and rehabilitation. 2. To enable them to develop their conceptual and clinical knowledge and skills about choosing appropriate physiotherapy assessments and analysing and interpreting assessment results in order to identify problems that lead to limitations in quality of life, body structure and functions, activity, participation, and functional mobility. 3. To ensure that they have information about the necessary, current, evidence-based paediatric physiotherapy and rehabilitation practises in infants and children and the clinical decision-making behind these practises.   **Course Content**  The content of the course consists of appropriate assessment, physiotherapy, and rehabilitation applications for diseases within the area of paediatric rehabilitation. In this context, the following topics are included:   * 1. Introduction to paediatric rehabilitation   2. Normal development in children,   3. History, observation, physical examination, and neurological examination in children. Family education in paediatric rehabilitation,   4. Physiotherapy and rehabilitation in premature infants,Physiotherapy and rehabilitation for cerebral palsy, obstetric brachial plexus injuries, Down syndrome, paediatric neuromuscular diseases, neural tube defects, spina bifida, and torticollis.   **Learning Outcomes**   1. Defines the concept and scope of paediatric rehabilitation 2. Uses physiotherapy assessments in at-risk infants and children with cerebral palsy. 3. Gets information about the implementation of physiotherapy and rehabilitation programmes in infants at risk and children with cerebral palsy 4. Gains the ability to evaluate paediatric patient groups within the framework of ICF. 5. Appropriate assessments are used in other common childhood conditions such as torticollis, congenital problems, brachial plexus injuries, metabolic and genetically caused childhood diseases, and pervasive developmental disorders, and they have knowledge of physiotherapy rehabilitation programme applications, family education, and necessary auxiliary tools and equipment. 6. Defines the clinical features of paediatric neuromuscular diseases. 7. Knows the conditions that cause functional impairment, limitation, and disability in children with paediatric neuromuscular diseases 8. Selects and uses physiotherapy assessments in children with paediatric neuromuscular diseases and has knowledge about clinical problem solving. 9. Plans the physiotherapy rehabilitation programme and home programme for children with paediatric neuromuscular diseases, has information about family education.   **Weekly Topics**   1. Meeting, introduction of the course and course team, introduction of the course books Definition and scope of paediatric rehabilitation courses 2. Typical motor development, developmental reflexes and reactions, and postural development The concept of infants at risk, early physiotherapy, and rehabilitation principles 3. Introduction to cerebral palsy, causes, and types of cerebral palsy 4. Evaluation methods in cerebral palsy (gross motor, fine motor, reflex and reaction evaluation, posture, walking, muscle tone, etc.) 5. Physiotherapy and rehabilitation methods in cerebral palsy, application principles, case examples 6. General principles of physiotherapy for other developmental and neurological problems of childhood Functional use of adaptive equipment and assistive devices in paediatric rehabilitation (orthotics, walking aids, technological supports, adaptive equipment, etc.) 7. Obstetric brachial plexus lesions, spina bifida, torticollis, transverse myelitis, developmental delays, developmental coordination disorders, neuro-genetic syndromes 8. MID-TERM EXAM 9. Classification and genetic features of paediatric neuromuscular diseases 10. Clinical features of Muscular Dystrophy-1 11. Evaluation in paediatric neuromuscular diseases 12. Treatment methods for paediatric neuromuscular diseases 13. Spinal Muscular Atrophies and Rehabilitation 14. Hereditary motor-sensory neuropathies and their rehabilitation 15. FINAL EXAM   **PLANNED LEARNING ACTIVITIES AND TEACHING METHODS:**  Presentations in the class**,** Discussions and Group studies in the class  **ASSESSMENT CRITERIA:** 2 multiple-choice theoretical exams. The information given in the presentations is evaluated by multiple-choice exams.Mid-term exams affects total score %40, final examination affects %60. | W | Y |
| 3 | CLINICAL STUDY-I | Duration: 4 Weeks  Total Hours: 100 Hours  Pratical: 100 Hrs  **Course Goals**  This clinical study/internship aims to give the students the opportunity to apply their theoretical knowledge and practical skills in a clinic setting  **Course Content**  Planning a physiotherapy and rehabilitation programme and applying theoretical knowledge and practical skills in an outpatient physical therapy clinic for a four-week full-time period under the supervision of a physiotherapist in a clinical setting. Students gain experience in how to assess posture, range of motion movements, manual muscle tests, flexibility exercises, vertebral assessments, and scoliosis in the physical therapy clinic. Students learn how to do electrotherapy, muscle strength exercises, stretching exercises, scoliosis exercises, and manual therapy in orthopaedic Services.  **Learning Outcomes**   1. Theoretical and practical knowledge of this course gives the students a chance to apply their knowledge and expertise to patients in the clinic. 2. At the end of the clinical study, students fill up the course of training notebook.   **Weekly Topics**   1. Trainee make physical therapy assesment and treatment on the patients with different disorders under supervisor physical therapist 2. Patient observation, assessment and treatment application 3. Patient observation, assessment and treatment application 4. Internship final assesment   **PLANNED LEARNING ACTIVITIES AND TEACHING METHODS:** Problem solving and Brain storming with supervisor, Experience clinical studies  **ASSESSMENT CRITERIA:** At the end of the internship, students are evaluated using the training notebook, in which they write patient evaluations and treatment scales. If, as a result of the evaluation, it is determined that the student has not completed a sufficient internship period, student cannot pass the course. | W,V,P |  |
| 3 | NEUROLOGICAL REHABILITATION | Duration: 14 Weeks  Total Hours: 124 Hours  Theory: 56 Hrs  Preparations before/after weekly lectures:28 Hrs  Mid-terms: 20 Hrs  Final examination: 20 Hrs  **Course Goals**  To ensure comprehending of, clinical characteristics of neurological diseases, mechanism formations of symptoms and signs that reveal in human body, measurement and assessment methods that used in neurological rehabilitation, application of neurophysiologic based techniques according to the case characteristics, to improve clinical decision making and problem solving skills in neurologic rehabilitation.  **Course Content**  Clinical features of common neurological diseases such as motion diseases, demyelinating diseases, neuromuscular diseases, clinical features of upper and lower motor neuron effects in terms of physiotherapy programs, disease-specific assessment and evaluation and neurophysiological based treatment practices, project preparation  **Learning Outcomes**   1. Defines the clinical features of neurological diseases. 2. Classify the diseases according to the characteristics of central and peripheral nervous system involvement and define the clinical features of lower and upper motor neuron involvement. 3. Understands basic and neurophysiological measurement and evaluation methods for evaluating lower and upper motor neuron effects. 4. Describes the effects of neurological disease on body functions, activity and participation and plans the treatment program in the clinical decision-making process. 5. Selects an appropriate neuro-physiologically based treatment program for the disease and applies it at a basic level.   **Weekly Topics**   1. Characteristics and mechanism formation of spinal cord injuries. 2. Pathophysiology of spasticity, assessment and inhibitory methods. 3. Clinical characteristics of complete and incomplete spinal cord injuries according to the levels and treatment methods. 4. Components of normal movements and description, pathophysiology, assessment methods of ataxia. 5. Neurophysiologic based treatment methods and applications specific for ataxia type. 6. Clinical characteristics of multiple sclerosis, measurement- assessment methods and rehabilitation of multiple sclerosis. 7. Clinical characteristics and measurement -assessment methods of Parkinson Disease 8. MID-TERM EXAM 9. Rehabilitation methods in Parkinson disease. 10. Peripheral neuropathies and rehabilitation 11. Neuromuscular diseases and rehabilitation. 12. Spina bifida and rehabilitation. 13. Disc herniation and rehabilitation 14. Subarachnoid hemorrhage, spinal and intracranial tumors and rehabilitation. 15. FINAL EXAM   **PLANNED LEARNING ACTIVITIES AND TEACHING METHODS:** Presentations in the class**,** Discussions and Group studies in the class  **ASSESSMENT CRITERIA:** 2 multiple-choice theoretical exams. The information given in the presentations is evaluated by multiple-choice exams.Mid-term exams affects total score %40, final examination affects %60. | W | Y |
| 3 | CARDIAC REHABILITATION | Duration: 14 Weeks  Total Hours: 109 Hours  Theory: 56 Hrs  Preparations before/after weekly lectures:28 Hrs  Mid-terms: 10 Hrs  Final examination: 15 Hrs  **Course Goals**  Recognition of cardiovascular problems in patients with cardiovascular disorders, evaluation of patients with appropriate assessment methods, planning and application of appropriate intervention protocols, and selection of cardiac rehabilitation techniques.  **Course Content**  History of cardiac rehabilitation, definition, components, interventions in programme, pathophysiology and rehabilitation of cardiovascular disorders, assessment methods in cardiovascular rehabilitation, intervention methods in cardiovascular rehabilitation, programme planning in cardiovascular rehabilitation, modifiable risk factors (obesity, diabetes mellitus, hypertension, cigarette smoking, dyslipidemia) and treatment, exercise testing and treatment in cardiovascular diseases, physical activity increasing approaches, cardiac rehabilitation in special conditions (pregnant women, peripheral artery diseases, pacemaker).  **Learning Outcomes**   1. Explains basic concepts of cardiac rehabilitation. 2. Defines clinical features of cardiovascular disorders. 3. Assesses cardiovascular disorders in physical, physiologic, and functional respects. 4. Plans and applies physiotherapy and rehabilitation interventions for cardiovascular disorders. 5. Assesses quality of life and psychosocial status of cardiovascular disorders and gives a home programme. 6. Analyses risk factors in individuals with cardiovascular disease risk. 7. Carries out patient education and behaviour modification in individuals with cardiovascular disease risk.   **Weekly Topics**   1. Course outline and notes, History of cardiac rehabilitation, definition, and components 2. Definition and clinical features of major cardiac diseases 3. Cardiovascular assessment and electrocardiography 4. Early cardiac rehabilitation programme Practical application 5. Modifiable risk factors and treatment I-II 6. Modifiable risk factors and treatment III 7. Exercise tests used in cardiovascular diseases 8. MID-TERM EXAM 9. Outpatient cardiac rehabilitation programme Exercise training 10. Different exercise training models in cardiovascular diseases 11. Patient education and physical activity counselling in cardiac rehabilitation 12. Cardiac rehabilitation after revascularization and cardiac surgery (valve, transplant) 13. Cardiac rehabilitation in pacemaker and left ventricular assist device applications 14. Special topics in cardiac rehabilitation: Elderly, Women, pregnancy, and cardiovascular involvement 15. FINAL EXAM   **PLANNED LEARNING ACTIVITIES AND TEACHING METHODS:**  Presentations in the class**,** Discussions and Group studies in the class  **ASSESSMENT CRITERIA:** 2 multiple-choice theoretical exams. The information given in the presentations is evaluated by multiple-choice exams.Mid-term exams affects total score %40, final examination affects %60. | W | Y |
| 3 | CLINICAL STUDY-II | Duration: 14 Weeks  Total Hours: 201 Hours  Theory: 96 Hrs  Pratical: 80 Hrs  Preparations before/after weekly lectures:20 Hrs  Mid-terms: 5 Hrs  Final examination: 5 Hrs  **Course Goals**  To give the students the opportunity to apply their theoretical knowledge and practical skills in a clinic setting. Acknowledge basic level applications related to physiotherapy and rehabilitation of neurological diseases that are followed up as outpatients and/or inpatients. This course is organised as a 4-week clinical study/internship by the relevant unit.  **Course Content**  In hospitals and outpatient clinics with acute and chronic neurological diseases, to contribute to the transfer of previous theoretical knowledge and skills to the clinical study of students. To develop case-specific clinical problem solving and decision-making skills and to contribute to the development of attitudes in the interdisciplinary field of neurological rehabilitation..  **Learning Outcomes**   1. Under the observation of a clinical trial consultant or supervisor, in neurological diseases affecting the central and peripheral nervous systems, select the appropriate case-specific assessment and evaluation methods, apply them, and analyse the evaluation results. 2. With the data obtained from neurological physiotherapy and rehabilitation field-specific assessment approaches, identify and report problems at the level of disorder, activity, and participation in cases. 3. Identifies short-and long-term goals, improves basic level neurological physiotherapy and rehabilitation programmes, and applies and reports the results. 4. Applies principles of group work and interdisciplinary work in the field of neurological physiotherapy and rehabilitation. 5. Through the theoretical and practical knowledge of this course, the students have a chance to apply their knowledge and expertise to patients in clinic. At the end of the clinical study, students fill up the course of training notebook.   **Weekly Topics**   1. Informing students about the content, aims, expectations of students, learning outcomes, evaluation of the student, equipment, record keeping, unit operation, and principles of clinical study in neurological rehabilitation 2. Application of evaluation methods specific to neurological diseases and implementation of physiotherapy and rehabilitation programmes to cases 3. Controlling and discussing the applied physiotherapy and rehabilitation programme, evaluating the clinical performances of the students 4. Monitoring of applied physiotherapy and rehabilitation programmes - evaluation about monitoring the effectiveness of treatment programmes.   **PLANNED LEARNING ACTIVITIES AND TEACHING METHODS:** Problem solving and Brain storming with supervisor, Experience clinical studies  **ASSESSMENT CRITERIA:** At the end of the internship, students are evaluated using the training notebook, in which they write patient evaluations and treatment scales. If, as a result of the evaluation, it is determined that the student has not completed a sufficient internship period, student cannot pass the course. | W,V,P | Y |
| 3 | SPECIAL ISSUES IN PHYSIOTHERAPY | Duration: 14 Weeks  Total Hours: 110 Hours  Theory: 56 Hrs  Preparations before/after weekly lectures:28 Hrs  Mid-terms: 10 Hrs  Final examination: 16 Hrs  **Course Goals**  This lesson aims to teach physiotherapy assessment and rehabilitation for special diagnoses and diseases in subjects, placed in the field of physiotherapy and rehabilitation.  **Course Content**  Students will be able to demonstrate an understanding of the basics of physiotherapy and rehabilitation on different and specific topics. This course provides the student with information related to special topics such as obstetrical, gynaecological, cancer, and burn physiotherapy and rehabilitation.  **Learning Outcomes**  Students will acquire the following skills.   1. To learn assessment in physiotherapy; in Neuro-Rehabilitation, orthopaedic Rehabilitation, paediatric neurology, and psychiatric physiotherapy. 2. To teach the innovations in Physiotherapy and alternative methods of treatment; to teach clinical assessment and treatment of specific physiotherapy, to make analysis and synthesis 3. To interpret the scientifically proven data using knowledge and skills in the field of Physiotherapy and rehabilitation. 4. To analyse the defined problems. 5. To improve the ability to use basic techniques of treatment in different patients with knowledge considering ethical principles and evidence data.   **Week Topics**   1. Rehabilitation in Urinary Incontinance 2. Obstetric Rehabilitation 3. Geriatric Rehabilitation 4. Rehabilitation for Facial Palsy 5. Rehabilitation in Diabetes and Obesity 6. Cognitive Rehabilitation 7. Rehabilitation in Burns 8. MID-TERM EXAM 9. Rehabilitation in Reflex Sympathic Dystrophy 10. Rehabilitation in Haemophilia 11. Rehabilitation in Cancer 12. Rehabilitation in Osteoporosis 13. Rehabilitation for Low Vision 14. Negative effects of immobilisation 15. FINAL EXAM   **PLANNED LEARNING ACTIVITIES AND TEACHING METHODS:**  Presentations in the class**,** Discussions and Group studies in the class  **ASSESSMENT CRITERIA:** 2 multiple-choice theoretical exams. The information given in the presentations is evaluated by multiple-choice exams.Mid-term exams affects total score %40, final examination affects %60. | W | Y |
| 3 | ATHLETES HEALTH AND PHYSIOTHERAPY | Duration: 14 Weeks  Total Hours: 145 Hours  Theory: 70 Hrs  Preparations before/after weekly lectures:45 Hrs  Mid-terms: 10 Hrs  Final examination: 20 Hrs  **Course Goals**  To teach the importance of physiotherapy in sports medicine, the science of sport physiotherapy in the world and in Turkey, preventing athletic injuries, assessment, physiotherapy, and rehabilitation of injured athletes, and return to sport criteria.  **Course Content**  Defining sports physiotherapy, understanding the importance of children and sports, women and sports, and disabled people and sports; understanding training science; defining the physical fitness and identification of test batteries used in different groups; understanding prevention strategies in sports injuries; defining the principles of first aid and pre-treatment in the field; defining sports injuries and recovery processes; understanding measurement, evaluation, physiotherapy, and rehabilitation applications in sports injuries and athletes; defining evaluations and approaches regarding return to sports.  **Learning Outcomes**   1. Students who completed this course know about sport injuries. 2. Students who completed this course could make the assessment, physical fitness evaluation, and general approaches for prevention of sports injuries in athletes. 3. Students taking this course are aware of the pre-treatment/treatment of athletes. 4. Defines the criteria for returning to sports after sports injuries, and plans and implements the functional rehabilitation programme appropriate for the athlete's needs for returning to sports.   **Week Topics**   1. Sports physiotherapy, measurement, and evaluation methods in sports 2. Evaluation of the Physical Fitness 3. Soft tissue injuries and the healing process in athletes 4. First aid for sports injuries 5. Pretreatment of sports injuries 6. Treatment principles and definitive treatment in sports injuries 7. Upper extremity injuries in athletes - planning of physiotherapy and rehabilitation programmes 8. MID-TERM EXAM 9. Upper extremity injuries in athletes - planning of physiotherapy and rehabilitation programmes 10. Lower extremity injuries in athletes - planning of physiotherapy and rehabilitation programmes 11. Lower extremity injuries in athletes - planning of physiotherapy and rehabilitation programmes 12. Orthoses and taping in sports 13. Orthoses and taping in sports 14. The criteria for returning to sports after sports injuries and the creation and implementation of a functional rehabilitation programme in accordance with the needs of the athlete for returning to sports 15. FINAL EXAM   **PLANNED LEARNING ACTIVITIES AND TEACHING METHODS:**  Presentations in the class**,** Discussions and Group studies in the class  **ASSESSMENT CRITERIA:** 2 multiple-choice theoretical exams. The information given in the presentations is evaluated by multiple-choice exams.Mid-term exams affects total score %40, final examination affects %60. | W | Y |
| 3 | PROSTHETICS REHABILITATION | Duration: 14 Weeks  Total Hours: 124 Hours  Theory: 56 Hrs  Preparations before/after weekly lectures:28 Hrs  Mid-terms: 20 Hrs  Final examination: 20 Hrs  **Course Goals**  This course aims to acquaint physiotherapy students with prostheses, their indications, applications, necessary modifications, and possible complications. After this course, physiotherapy students are able to plan and apply appropriate amputee rehabilitation programmes.  **Course Content**  This course includes amputation causes, levels, congenital limb anomalies, partial foot and hand prostheses, and variations in prosthetic design in accordance with the level of amputation of the upper and lower extremities; static and dynamic alignment principles; control mechanisms; gait deviations in lower extremity amputees; immediate and temporary prosthetic applications, myoelectrical prostheses; advanced technological prosthetic applications; and amputee rehabilitation.  **Learning Outcomes**  Student;   1. Is acquainted with parts of the prostheses and the manufacturing procedure. 2. Chooses the appropriate prostheses for the amputee or the patient with congenital extremity deficiency. 3. Plans and applies the appropriate assessments in accordance with the prosthetic phase. 4. Plans and applies the appropriate rehabilitation program. 5. Checks the fit of the prostheses, makes the necessary biomechanical alignment adjustments, and analyses the results. 6. Gains awareness regarding prosthetic use and possible complications.   **Week Topics**   1. Introduction to prostetics and prosthetic material science 2. Causes of amputations, history, and Levels of Amputation 3. Amputation surgeries and post-op physiotherapy 4. Prosthetics assessment and decision 5. Lower extremity, foot-ankle, and Partial foot prostheses; Syme prosthesis and Prosthetic Foot 6. Below knee amputations and transtibial Prosthesis 7. Above knee amputations and Knee Disarticulation Prosthesis 8. MID-TERM EXAM 9. Hip level amputations and Hip disarticulation prostheses, Immediate and Temporary Prosthesis Applications 10. Upper extremity, hand-wrist level, and Prosthetics 11. Shoulder level amputations, Prosthetics 12. Congenital anomalies and prosthetics 13. Child and prosthetic rehabilitation 14. New technologies in prosthetic designs 15. FINAL EXAM   **PLANNED LEARNING ACTIVITIES AND TEACHING METHODS:**  Presentations in the class**,** Discussions and Group studies in the class  **ASSESSMENT CRITERIA:** 2 multiple-choice theoretical exams. The information given in the presentations is evaluated by multiple-choice exams.Mid-term exams affects total score %40, final examination affects %60. | W | Y |
| 3 | NEUROPHYSIOLOGICAL APPROACHES-II | Duration: 14 Weeks  Total Hours: 168 Hours  Theory: 70 Hrs  Pratical: 40 Hrs  Preparations before/after weekly lectures:14 Hrs  Mid-terms: 20 Hrs  Final examination: 24 Hrs  **Course Goals**  To acknowledge the causes of cerebrovascular disease, treatment, evaluation, and the theoretical and practical principals of Brunnstrom, Bobath, and Margaret Johnstone methods used in rehabilitation.  **Course Content**  This course includes clinical features and reasons for movement and function impairments after stroke, provides an understanding and practise of the basic features related to neurophysiological approaches, teaches measurements and assessments in stroke and cerebral palsy rehabilitation, and develops the problem-solving mechanisms in physiotherapy and rehabilitation after stroke and cerebral palsy based on neurodevelopmental therapy.  **Learning Outcomes**   1. Define the clinical features seen after stroke and cerebral palsy, associate them with the Bobath (neurodevelopmental therapy) used in treatment. 2. Defines normal movement and function and compares them with movement and function impairments after stroke and cerebral palsy within the scope of Bobath. 3. Understands and practises Bobath based measurement and assessment approaches are used after stroke and cerebral palsy. 4. Defines the clinical problems after stroke and cerebral palsy, practises the clinical decision making process, and plans the treatment programme according to Bobath. 5. Applies the current Bobath approach (neurodevelopmental therapy) to stroke and cerebral palsy.   **Weekly Topics**   1. Cerebrovascular event (description, neuroanatomy, risk factors) 2. Normal and post-stroke movement, tone, and postural control 3. Post-stroke clinical features, medical treatment, general rehabilitation principles, the theoretical dimension of neurophysiological approaches, and their relationship with other treatment methods 4. Motor control and motor learning principles 5. Measurement and evaluation in stroke rehabilitation 6. Positioning and mobilisation methods with the Bobath method 7. MID-TERM EXAM 8. Trunk treatment with the Bobath method 9. Upper extremity treatment with the Bobath Method 10. Lower extremity treatment, balance, and gait training with the Bobath Method 11. Bobath method, Case studies 12. Margaret Johnstone Method and upper extremity applications 13. Margaret Johnstone Method and lower extremity applications 14. Hand and wrist technique with the Brunnstrom Method 15. Other approaches used in stroke rehabilitation (Constraint Induced Movement Therapy, mirror therapy, virtual reality, and robotic rehabilitation) 16. FINAL EXAM   **PLANNED LEARNING ACTIVITIES AND TEACHING METHODS:** Presentations in the class**,** Discussions and Group studies in the class. Once Students observe the techniques mentioned above, they practise with each other.    **ASSESSMENT CRITERIA:** 2 multiple-choice theoretical exams and o-1 practical exams. The information given in the presentations is evaluated by multiple-choice exams. Students should be able to apply the techniques taught in the classroom on the practical exam. Students who fail a certain number of questions in are deemed to have failed the practical exam. Mid-term exams affects total score %30, practical exams affects %30, final examination affects %40. | W,V,P | Y |
| 4 | CLINICAL PROBLEM SOLVE IN PHYSIOTHERAPY-I | Duration: 16 Weeks  Total Hours: 146 Hours  Theory: 64 Hrs  Preparations before/after weekly lectures:32 Hrs  Presentation: 20 Hrs  Mid-terms: 15 Hrs  Final examination: 15 Hrs  **Course Goals**   1. To contribute the determining appropriate physiotherapy and rehabilitation approaches based on evidence in the light of scientific data. 2. To provide a discussion of students' personal and environmental factors that affect treatment approaches in the classroom environment to develop patient-centred clinical problem solving skills.   **Course Content**  Teach students how to prepare case studies, do clinical evaluation of cases with group work, create the problem list based on the bio-psychosocial model, and be open to debate treatment approaches generated with evidence-based data in the classroom environment..  **Learning Outcomes**   1. Research library and web-based resources and gain the ability to use the obtained information associated with the case. 2. Participates in the case studies in the group, makes descriptions of the case after physiotherapy assessments, and determines problems at the level of disorder, activity, and participation. 3. Identifies personal and environmental factors affecting the activity's limitations and participation. 4. Applies the bio-psychosocial model to the clinical process of decision making. 5. Uses group work skills with clinical approaches and the process of clinical decision making. 6. Shares evaluation results of the case, short-and long-term treatment goals, and treatment plan through effective communication and discuss other ideas based on scientific grounds.   **Weekly Topics**   1. Getting to Know - Information about the course process 2. ICF-Evidence-Based Clinical Decision Making in Physiotherapy and Rehabilitation 3. Preparation 4. Physiotherapy and Rehabilitation in Fracture- Evaluation 5. Physiotherapy and Rehabilitation in Fracture- Treatment 6. Physiotherapy and Rehabilitation in Pediatric Neurological Diseases-Evaluation 7. Physiotherapy and Rehabilitation in Pediatric Neurological Diseases-Treatment 8. MID-TERM EXAM 9. Physiotherapy and Rehabilitation in Disc Herniations- Evaluation 10. Physiotherapy and Rehabilitation in Disc Herniations- Treatment 11. Physiotherapy and Rehabilitation in Chronic Obstructive Pulmonary Disease-Evaluation 12. Physiotherapy and Rehabilitation in Chronic Obstructive Pulmonary Disease-Treatment 13. Classroom Discussion About Cases 14. Classroom Discussion About Cases 15. FINAL EXAM   **PLANNED LEARNING ACTIVITIES AND TEACHING METHODS:**  Presentations in the class**,** Discussions and Group studies in the class  **ASSESSMENT CRITERIA:** 2 multiple-choice theoretical exams. The information given in the presentations is evaluated by multiple-choice exams.Mid-term exams affects total score %20, final examination affects %80. | W | Y |
| 4 | MANAGEMENT AND ORGANISATION IN PHYSICAL THERAPY | Duration: 14 Weeks  Total Hours: 58 Hours  Theory: 14 Hrs  Preparations before/after weekly lectures:14 Hrs  Mid-terms: 10 Hrs  Final examination: 20 Hrs  **Course Goals**  Health sector, hospitals, and rehabilitation centres in the management and organisational structure, and physiotherapy and rehabilitation services in the different models to gain information about various structures and to analyse to gain skills, different organisations Lard classroom environment debate by providing the analysis and synthesis skills to develop.  **Course Content**  To teach about management and organisation in physiotherapy, management and planning, execution, decision, supervision, coordination, and organisation functions, management and organisation of physiotherapy and rehabilitation in the world, management and organisation of physiotherapy and rehabilitation in Turkey: Legislation, regulations, and laws, management and organisation of physiotherapy and rehabilitation in Turkey: hospital information systems, multidisciplinary study and communication, letter of intent, job application, CV preparation, quality and risk management.  **Learning Outcomes**   1. Learn about health legislation and professional responsibilities. 2. Learn management science and universal rules. 3. It teaches them to manage their health institutions. 4. Find out how the health system and hospital work.   **Weekly Topics**   1. Historical development of management science. 2. Management theories and the current management structure of hospitals. 3. Existing organizational structure of the organization theory and hospitals 4. The importance of the management and administration of business success. 5. Different management styles in different countries. 6. The functions of the business. 7. Functions of Management. 8. MID-TERM EXAM 9. Examination of the aim and Hospital System Health System. 10. Instruments will be used to increase the quality and efficiency in hospitals. 11. Leadership and Leadership Theories 12. Impact on employees and organizations of the Constructive and Destructive Behavior Leadership. 13. Examination of hospital management information system. 14. Revealed that the ideas of modern management philosophy. 15. FINAL EXAM   **PLANNED LEARNING ACTIVITIES AND TEACHING METHODS:**  Presentations in the class**,** Discussions and Group studies in the class  **ASSESSMENT CRITERIA:** 2 multiple-choice theoretical exams. The information given in the presentations is evaluated by multiple-choice exams.Mid-term exams affects total score %50, final examination affects %50. | W | Y |
| 4 | RESEARCH METHODOLOGY IN PHYSIOTHERAPY I | Duration: 14 Weeks  Total Hours: 103 Hours  Theory: 28 Hrs  Preparations before/after weekly lectures:42 Hrs  Assignments: 10 Hrs  Mid-terms: 5 Hrs  Final examination: 18 Hrs  **Course Goals**  To teach the ways to access journals published in the field of physiotherapy (PubMed, Cohrane), to create the appropriate key words (mesh), to screen the literature, and to make the selection of the articles published in national and international journals, increased enthusiasm for new developments in the field.  **Course Content**  This course includes teaching methods to access published articles in the field of physiotherapy.  **Learning Outcomes**   1. Being able to determine the goals and statistical hypotheses of a research project, to decide on statistical methods appropriate to the hypothesis, to apply these methods, and to write a proper report on the research. 2. Be able to identify research and statistical hypotheses 3. The ability to select and apply statistical methods appropriate for hypotheses. 4. Being able to write a research report   **Weekly Topics**   1. Introduction to Research, Introduction to Research Planning 2. General Research Types, Data Collection Methods. 3. Those variables and measurement techniques, determination, statistical hypothesis Transition, sample size calculations. 4. Descriptive statistics; Classification of data, the average dimensions and locatioN 5. Histogram, bar chart, graph 6. Theoretical distributions: Normal distribution, binomial distribution, Poisson distribution. Normality tests and graphics. 7. Sampling distributions and confidence intervals: sampling distribution of mean and proportion, confidence intervals, reviews. 8. Research and sampling methods, different types of research, different sampling methods and areas of use. 9. MID-TERM EXAM 10. Introduction to Hypothesis test: The purpose of hypothesis testing, stages, mistakes, decision-making process. 11. Parametric and nonparametric hypothesis testing. 12. Hypothesis tests (single sample tests) 13. Hypothesis testing (Independent two-sample tests) 14. Hypothesis tests (two-sample tests) Hypothesis Testing (dependent and independent tests) 15. FINAL EXAMS   **PLANNED LEARNING ACTIVITIES AND TEACHING METHODS:**  Presentations in the class**,** Discussions and Group studies in the class  **ASSESSMENT CRITERIA:** 2 multiple-choice theoretical exams. The information given in the presentations is evaluated by multiple-choice exams.Mid-term exams affects total score %20, Assignments affects %20, final examination affects %60. | W | Y |
| 4 | INDUSTRIAL PHYSIOTHERAPY AND REHABILITATION | Duration: 14 Weeks  Total Hours: 24 Hours  Theory: 14 Hrs  Mid-terms: 5 Hrs  Final examination: 5 Hrs  **Course Goals**  The aim of this course is to critique and discuss many of the theoretical perspectives commonly used in occupational therapy practise. This course will also provide students with the opportunity to apply theoretical perspectives to occupational therapy assessment and treatment planning, compare and analyse theoretical perspectives.  **Course Content**  Ergotherapy courses address the issues: rehabilitation's role in occupational therapy, the evaluation and treatment methods, ergonomic principles, career-oriented activities, games, improving patients' quality of life and independence in everyday life using business and leisure activities, home rehabilitation, transfer activities, environmental regulations, and hand training.  **Learning Outcomes**   1. Gaining role of increase productivity through ergonomical approaches in different industries 2. Learning injuries, disability, and risk evaluation in industrial work settings 3. Making preventive programmes in industry 4. Doing work analysis studies.   **Weekly Topics**   1. Industrial work and health   Physiotherapists' role in working environment and health field   1. Working environment and its effect on health – posture 2. The working environment and its effect on health - heat, cold 3. Working environment and its effect on health ventilation, illumination 4. Working environment and its effect on health - altitude, noise, electricity, magnetic field 5. Risks in the working environment 6. Repetitive strain injuries 7. Repetitive strain injuries 8. MID-TERM EXAM 9. Analysis I-II 10. Preventive-rehabilitative approaches in health centers-hospitals 11. Preventive-rehabilitative approaches in office and terrain. 12. Preventive-rehabilitative approaches in the factory-industry 13. FINAL EXAM   **PLANNED LEARNING ACTIVITIES AND TEACHING METHODS:**  Presentations in the class**,** Discussions and Group studies in the class  **ASSESSMENT CRITERIA:** 2 multiple-choice theoretical exams. The information given in the presentations is evaluated by multiple-choice exams.Mid-term exams affects total score %40, final examination affects %60. | W | Y |
| 4 | CLINICAL STUDY-III | Duration: 16 Weeks  Total Hours: 594 Hours  Pratical: 416 Hrs  Preparations before/after weekly lectures:128 Hrs  Practical Exams: 10 Hrs  Mid-terms: 10 Hrs  Final examination: 30 Hrs  **Clinical Study Course Goals**  To impart knowledge and skill at the bedside about current evaluation and therapy methods used in the field of physiotherapy and rehabilitation for healthy people and people with disorders according to the Clinical study guidelines of the university.  **Clinical Study Course Content**  Practising the skills in physiotherapy and rehabilitation on the Neurological rehabilitation, cardiopulmonary rehabilitation, paediatric rehabilitation, and general physiotherapy internships.  **Learning Outcomes**  Upon successful completion of this course, students will be able to:   * 1. Under the observation of a clinical trial consultant or supervisor, select the appropriate case-specific assessment and evaluation methods, apply them, and analyse the evaluation results.   2. With the data obtained from physiotherapy and rehabilitation field-specific assessment approaches, identify and report problems at the level of disorder, activity, and participation in cases.   3. Identifies short-and long-term goals, improves basic level physiotherapy and rehabilitation programmes, and applies and reports the results.   4. Apply principles of group work and interdisciplinary work in the field of physiotherapy and rehabilitation.   **Weekly Topics**   1. A trainee physiotherapist does a related internship with a supervisor physiotherapist in the neurological clinics for 4 weeks. 2. A trainee physiotherapist does a related internship with a supervisor physiotherapist in an intensive care unit for 4 weeks. 3. A trainee physiotherapist does a related internship with a supervisor physiotherapist in the paediatric clinic for 4 weeks. 4. A trainee physiotherapist does a related internship with a supervisor physiotherapist in the related physical therapy clinics for 4 weeks.   **Neurologica**l **Rehabilitation Internship Programme**  **Course Goals**  In hospital and outpatient clinics with acute and chronic neurological diseases that affect the central and peripheral nervous systems, to contribute to the transfer of previous theoretical knowledge and skills to the clinical study of students, To develop case-specific clinical problem-solving and decision-making skills, and to contribute to the development of attitudes in the interdisciplinary field of neurological rehabilitation.  **Course Content**  Basic-level applications related to physiotherapy and rehabilitation of neurological diseases that are followed up as outpatients and/or inpatients.  Diseases observed during internship: Multiple Sclerosis, Stroke, Neuroblastoma, Parkinson's Disease, Muscular Dystrophy, Acute and Chronic Spinal Cord Injury, Ataxia, Guillain-Barré Syndrome, and Myasthenia Gravis. This course is compulsory for 4 weeks, five days a week, during one semester by the relevant unit.  **Pulmoner and Intensive Care Rehabilitation Internship Programme**  **Course Goals**   1. Assessment of pulmonary diseases, planning, and implementation of the physiotherapy and rehabilitation programmes 2. Teaching and implementation of the assessment methods used in patients with respiratory problems 3. Learn the terminology of intensive care. 4. Planning and implementation of specific individual physiotherapy 5. To integrate theoretical and practical information about intensive care and be able to improve the ability of decision-making to be applied to treatment and applications in conditions of intensive care.   **Course Content**   1. Know respiratory muscles, their tasks, and breathing exercises, if necessary, make decisions and practise which respiratory exercises the patient is going to do. 2. Know postural drainage positions, practise decision-making, and practise which position should be given. 3. Understanding the content of patients (unstable vital signs) files in the intensive care unit 4. Learn monitorization 5. Learn how to transmit vital parameters to the normal values 6. Determine the treatment and practise   **Learning Outcomes**   1. Definition of pulmonary rehabilitation, principles, applications within the programme, assessment methods in respiratory diseases, and learning approaches in physiotherapy and rehabilitation. 2. Planning and implementation of the patient 3. Breathing exercises, airway clearance techniques, respiratory assist devices, oxygen therapy, aspiration, upper and lower extremity exercise programmes, and the planning and implementation of these techniques for respiratory disease. 4. Problem-solving and decision-making within the framework of the acquired information, communicating with experts in other fields, and the ability to work and the attitude of the team covering different professions, 5. Acquire the ability to select the model, technique, and tools needed for physiotherapy applications and identify the needs of the physiotherapist during the patient's evaluation.   **Pediatric Rehabilitation Internship Programme**  **Course Goals**  The aim of this lesson is to: determine appropriate programmes for the developmental stages of children, make assessments; take medical histories according to the kind of disease in children, learn neurodevelopmental methods and transfer them into practise.  **Course Content**  Evaluating patients with a variety of paediatric diseases, making a programme for appropriate therapy, and teaching this therapy properly to children’s families.  **Learning Outcomes**   1. Learning approach for children, patients, and their families, 2. Having information about communication and physical examination methods in children, 3. Evaluating patients in different disease groups (Cerebral Palsy, Brachial Plexus, Neural Tube Defects, Muscular Diseases, Orthopaedic Paediatric impairments, Genetic and Metabolic diseases caused movement delay, Torticollis) 4. Recording assessment with objective measures, making therapy plans, and teaching this programme to their family.   **Genereal Clinical Practice Internship Programme**  **Course Goal**  To implement and discuss physiotherapy approaches used in the field of physical therapy and rehabilitation.  **Course Content**  Students will able to learn clinical assessment, rehabilitation, and treatment special to the following topics; Assessment methods in physiotherapy, stroke rehabilitation, approach to patient with pain, soft tissue ınjury and physiotherapy in osteoarthritis, approach to patient with neck and back pain, rehabilitation of upper extremity, rehabilitation of lower extremity, pilates exercise. They will acquire the skills to interpret the scientifically proven data using the knowledge and skills in the field of Physiotherapy and Rehabilitation.  **Learning Outcomes**   1. Under the observation of clinical trial consultant or supervisor, -In this field selects the appropriate case-specific assessment and evaluation methods, apply and analyze evaluation results 2. With the data obtained from physiotherapy and rehabilitation field-specific assessment approaches, identifies and report problems at the level of disorder, activity and participation of cases. 3. Identifies short-and long-term goals, improves basic level physiotherapy and rehabilitation program, apply and report the results. 4. Applies principles of group work and interdisciplinary in the field of general physiotherapy 5. Applies the principles of operation of outpatient in department.   **PLANNED LEARNING ACTIVITIES AND TEACHING METHODS:** Seminars, case presentations, observing during the treatment, and implementing treatment under supervision.  **ASSESSMENT CRITERIA:**  The authorised physiotherapist gives points to the student at the end of every 4-week period. If the student does not get a passing grade in the approach to the patient, knowledge, and application of the treatment protocol, the student has to repeat the relevant internship and cannot take the final and practical exam. 1 multiple-choice theoretical exam, 1 practical exam, and evaluations by case study notebooks are considered. In the practical exam, the student is expected to answer questions about the disease randomly selected by the board and determine the treatment programme. Practical exams affect the total score by 50%, final examination affects %50. | W,V,P | Y |
| 4 | RESEARCH METHODOLOGY IN PHYSIOTHERAPY II | Duration: 16 Weeks  Total Hours: 78 Hours  Theory: 32 Hrs  Preparations before/after weekly lectures:16 Hrs  Mid-terms: 15 Hrs  Final examination:15 Hrs  **Course Goals**  Basic knowledge on research planning and stages of a research are taught to the students in order to prepare them for carrying out a research.  **Course Content**  Research planning, possible sources of error in researches, sampling, types of research design, analysis of research data, interpretation and reporting of results.  **Learning Outcomes**   1. Being able to determine the goals and statistical hypothesis of a research, to decide on statistical methods appropriate to the hypothesis, to apply these methods and to write a proper report on the research. 2. To be able to determine the statistical analysis method suitable for the data to be obtained from the researches 3. To be able to apply commonly used basic statistical analysis methods using SPSS software 4. Interpreting the analysis results   **Course Contents**   1. Scientific Method and Research 2. Introduction to Biostatistics and Basic Statistical Concepts 3. Preparing Data for Analysis, Making Tables and Graphs 4. Sampling Methods Reading the relevant section from the course book. 5. Research Planning and Stages 6. Types of Research in the Field of Health-I (According to Purpose, Time and Data Collection Format) 7. MID-TERM EXAM 8. Research Methods in the Field of Health-III (Clinical Experiments, Blinding, Observation Method). 9. Error Sources and Prevention Methods in Research 10. Ethical Rules in Research 11. Hypothesis Tests. 12. Correlation and Regression Analysis 13. Research Report Writing Method 14. Commonly Used Checklists in Scientific Research 15. FINAL EXAM   **PLANNED LEARNING ACTIVITIES AND TEACHING METHODS:**  Presentations in the class**,** Discussions and Group studies in the class  **ASSESSMENT CRITERIA:** 2 multiple-choice theoretical exams. The information given in the presentations is evaluated by multiple-choice exams.Mid-term exams affects total score %40, final examination affects %60. | W | Y |
| 4 | CLINICAL PROBLEM SOLVE IN PHYSIOTHERAPY-II | Duration: 14 Weeks  Total Hours: 150 Hours  Theory: 56 Hrs  Preparations before/after weekly lectures:14 Hrs  Presentations:30 Hrs  Mid-terms: 25 Hrs  Final examination: 25 Hrs  **Course Goals**  To develop the ability to identify clinical problems, functional disabilities, appropriate evaluation, and therapy approaches in different patient populations  **Course Content**  Evaluation and therapy approaches in neurologic, orthopaedic, paediatric, and cardiopulmonary rehabilitation  **Learning Outcomes**   1. Have basic clinical knowledge about orthopaedic diseases. 2. Have basic clinical knowledge about brain and neurosurgical diseases. 3. Have basic clinical knowledge about obstetrics and gynaecology. 4. Have basic clinical knowledge about urological diseases. 5. Have basic clinical knowledge about cardiovascular surgical diseases.   **Weekly Topics**   1. Orthopaedic problems in the hip joint 2. Orthopaedic problems in the knee joint and foot-ankle joint 3. Orthopaedic problems in the shoulder joint 4. Orthopaedic problems in the elbow and hand/wrist joint 5. Orthopaedic problems in the spine 6. Disc hernias 7. MID-TERM EXAM 8. Head Traumas and Intracranial Tumours 9. Spinal Traumas and Tumours 10. Hydrocephalus, Congenital, and Developmental Central Nervous System Anomalies 11. Pregnancy Physiology and Childbirth 12. Incontinence and Incontinence Surgery 13. Cardiovascular surgery 14. Urological surgeries 15. FINAL EXAM   **PLANNED LEARNING ACTIVITIES AND TEACHING METHODS:**  Presentations in the class**,** Discussions and Group studies in the class  **ASSESSMENT CRITERIA:** 2 multiple-choice theoretical exams. The information given in the presentations is evaluated by multiple-choice exams.Mid-term exams affects total score %40, final examination affects %60. | W,V,P | Y |
| 4 | EPIDEMIOLOGY, COMMUNITY HEALTH AND PHYSIOTHERAPY | Duration: 14 Weeks  Total Hours: 60 Hours  Pratical: 14 Hrs  Preparations before/after weekly lectures:16 Hrs  Mid-terms: 10 Hrs  Final examination: 20 Hrs  **Course Goals**  To provide the essential behaviour and vision for the presentation and execution of community-based rehabilitation studies within the scope of primary healthcare centres outside the hospital environment within the approach of preventive health services to the individual, family, and society.  **Course Content**  Includes the examination and application of the physiotherapy applications necessary for the protection and development of the physical, mental, and social health of individuals, families, and groups in the early period to determine and prevent the conditions that may affect these situations.  **Learning Outcomes**   1. To explain the epidemiologic disease and its importance in the community 2. To  have a complex approach to community health via a physiotherapist 3. To  learn the role of the physiotherapist in public health 4. To  understand the epidemiology and physiotherapy relationship   **Weekly Topics**   1. Health concepts 2. Preventive approaches 3. Preventive approaches II 4. Measurement in health 5. Measurement in health II 6. Epidemiology concept 7. Epidemiological survey 8. MID-TERM EXAM 9. Physiotherapist in public health 10. Hospital infections 11. Prevention at hospital infections 12. Prevention at hospital infections II 13. Health employment in Turkey 14. Health employment in different countries 15. FINAL EXAM   **PLANNED LEARNING ACTIVITIES AND TEACHING METHODS:**  Presentations in the class**,** Discussions and Group studies in the class  **ASSESSMENT CRITERIA:** 2 multiple-choice theoretical exams. The information given in the presentations is evaluated by multiple-choice exams.Mid-term exams affects total score %40, final examination affects %60. | W | Y |
| 4 | CLINICAL STUDY-IV | Duration: 14 Weeks  Total Hours: 594 Hours  Pratical: 146 Hrs  Preparations before/after weekly lectures:128 Hrs  Practical Exams: 10 Hrs  Mid-terms: 10 Hrs  Final examination: 30 Hrs  **Orthopedics Internship Programme**  **Course Goals**  To evaluate the patients with orthopaedic problems in the pre-and post operative periods; to plan, apply, and follow-up their rehabilitation programmes.  **Course Content**   1. Identification and application of methods to evaluate orthopaedic problems. 2. Determination of short- and long-term goals in the treatment of patients with orthopaedic problems. 3. Recognition of surgical treatment of bone and soft tissues. 4. Recognition of preventive methods for possible complications from surgery 5. Discussion and application of current postoperative orthopaedic rehabilitation protocols. 6. Improvement of skill and knowledge about orthopaedic therapy methods.   **Learning Outcomes**   1. Identifies orthopaedic problems related with the musculoskeletal system 2. Establishes special evaluations and measurements 3. Discusses physiotherapy protocols and patient?s specific orthopaedic rehabilitation techniques 4. Evaluates patients with numerous orthopaedic problems and enhances the level of knowledge and skill in order to apply specific physiotherapeutic techniques   **Hand Surgery and Rheumotology** **Internship Programme**  **Course Goals**   1. To increase students ability to transfer their theoretical knowledge and skills about orthopedic rehabilitation particularly in upper extremity, hand and peripheral nerve injuries and rheumotology to the clinical settings. 2. To improve clinical thinking, clinical reasoning and clinical decision making by working with case 3. To contribute to better understanding of interdisciplinary and multidisciplinary attitudes orthopedic rehabilitation.   **Course Content**  In the content of the course, assessments of cases with hand and upper extremity injuries with appropriate measurement and evaluation methods, analysing the results of the evaluation, defining and reporting the problems of the case at the level of disorder, activity, and participation, determining short- and long-term goals, planning the basic level of orthopaedic physiotherapy and rehabilitation programme, application of the physiotherapy programme, and reporting of results.  The hand surgery internship includes tendon injuries, traumatic hand injuries, upper extremity trap neuropathies, peripheral nerve injuries, congenital anomalies, burns, brachial plexus injuries, descriptions, clinical features, and rehabilitation of these diseases, as well as current medical and physical therapy approaches applied to these diseases.  The rheumatology internship includes acute and chronic-term approaches to rheumatic diseases, myofascial pain syndrome, fibromyalgia, connective tissue diseases (polymyositis, dermatomyositis, systemic lupus erythematosus, scleroderma), polimiyalji rheumatica, familial Mediterranean fever, crystal arthropathies, osteoporosis, metabolic bone diseases, soft tissue involvement in these diseases, definitions, characteristics, and rehabilitation of rheumatic diseases.  **Learning Outcomes**   1. Able to select appropriate assessment and evaluation methods and analyze the results of the assessments under the observation of clinical supervisor, 2. Able to identify and report the assessment outcomes according to ICF classification; disability, activity and participation. 3. Identifies short-term and long-term goals, plans case-specific rehabilitation program. 4. Able to conduct collaboration with other professions based on interdisciplinary and multidisciplinary team model.   **Sports Physiotherapy Internship Programme**  **Course Goals**  According to sports medicine to contribute to transfer the previous theoretical knowledge and skills to the clinical study of students. To develop case-specific clinical problem solving and decision-making skills and to contribute to the development of attitudes interdisciplinary field of physiotherapy in sports.  **Course Content**  Sports physiotherapy and rehabilitation evaluations, physiotherapy and rehabilitation applications are performed.  **Learning Outcomes**   1. Under the observation of clinical trial consultant or supervisor, in this field selects the appropriate case-specific assessment and evaluation methods, apply and analyze evaluation results. 2. With the data obtained from physiotherapy and rehabilitation field-specific assessment approaches, identifies and report problems at the level of disorder, activity and participation of cases 3. Identifies short-and long-term goals, improves basic level sports physiotherapy and rehabilitation program, apply and report the results. 4. Applies principles of group work and interdisciplinary in the field of sports physiotherapy and rehabilitation. 5. Applies the principles of operation of sports medicine unit.   **Cardiovascular Rehabilitation** **Internship Programme**  **Course Goals**  The aim of this course is to provide intern students of the School of Physical Therapy and Rehabilitation with theoretical knowledge and practical skills that will enable them to perform professional practises in cardiovascular rehabilitation.  **Course Content**  This course includes: theoretical knowledge and practical skills in the structure and functions of the heart, the structure and function of blood vessels, Assistant Mechanical Ventilation and Respiratory Equipment, Heart Failure Cardiomyopathy, Cardiac Rehabilitation Patient Education and Information, Management for Inpatients in the Intensive Care Unit Department of Cardiology, Coronary Artery Disease, Myocardial Infarction and Rehabilitation, Pulmonary Rehabilitation Techniques, Peripheral Vascular Diseases, and Treatment of Lymphedema and Physical Therapy, Exercise test indications and contraindications, Congenital Heart Disease Physiotherapy, Physiotherapy in pulmonary resections.  **Learning Outcomes**   1. To learn about cardiac and vascular diseases 2. To acquire the ability to select patients suitable for rehabilitation in cardiac and vascular diseases 3. To develop an attitude towards deciding on diagnosis, assessment, and rehabilitation methods suitable for the patient. 4. Ability to choose the methods required for applications in the field of physiotherapy 5. To gain the ability and attitude to solve problems and make decisions, to communicate interdisciplinaryly, and to work in a team within the framework of the information gathered.   **PLANNED LEARNING ACTIVITIES AND TEACHING METHODS:** Seminars, case presentations, observing during the treatment, and implementing treatment under supervision.  **ASSESSMENT CRITERIA:**  The authorised physiotherapist gives points to the student at the end of every 4-week period. If the student does not get a passing grade in the approach to the patient, knowledge, and application of the treatment protocol, the student has to repeat the relevant internship and cannot take the final and practical exam. 1 multiple-choice theoretical exam, 1 practical exam, and evaluations by case study notebooks are considered. In the practical exam, the student is expected to answer questions about the disease randomly selected by the board and determine the treatment programme. Practical exams affect the total score by 50%, final examination affects %50. | W,V,P | Y |