



**Al-Zaytoonah University of Jordan
Faculty of Applied Medical Sciences
Physical Therapy Department**

Biophysics for Medical Sciences -0150112 (3 hours)

Course Description

The course is designed to provide the student the basic concepts and principles of mechanics (the motion of the objects, laws of motion, work and energy), elasticity, and fluid dynamics. Also it Describes the elasticity and general information about fluid dynamics, heat and temperature, waves (sound, electromagnetic).

Biology for Medical Sciences -0201170 (3 hours)

Course Description

The course aims at providing students with knowledge of basic laboratory techniques of cell structure, cytology, molecular genetics, genetic code, multiplication and reproduction of genetic material, building proteins, inheritance of bacteria and viruses Living.

Biology for Medical Sciences/practical-0201171 (1 hour)

Course Description

The course is designed to provide the student with important practical aspects about basic laboratory techniques of cell structure, cytology, molecular genetics, genetic code, multiplication and reproduction of genetic material, building proteins, inheritance of bacteria and viruses Living.

General chemistry for Medical Sciences- 0201172 (3 hours)

Course Description

The course aims at providing students with knowledge of basic laboratory techniques, determining the physical and chemical properties of the material, and how to determine the experimental formula between compounds.

General chemistry for Medical Sciences/practical -0201173 (1 hour)

Course Description

The course is designed to provide the student with important practical aspects about basic laboratory techniques, determining the physical and chemical properties of the material, and how to determine the experimental formula between compounds.

Anatomy and Histology -1101126 (2 hours)

Course Description

The course aimed to inform students with full anatomical knowledge of bones, muscles, joints, nerves and viscera of the body and preparation of the student to deal with the different anatomical based clinical cases as pain, fractures, dislocations, sprains, lacerations. And also identify the basic histological structures of different basic tissues of human body, preparing them for studying organs and systems.

Anatomy and histology/ Practical -1101127 (1 hour)

Course Description

The course is designed to provide the student with important practical aspects about anatomical knowledge of bones, muscles, joints, nerves and viscera of the body components of different tissues with concentration on how structures are adapted to perform the specific function by using means of analysis and various anatomical models.

Biostatistics for Medical Sciences - 0101145 (2 hours)

Course Description

This course introduces the foundation of statistics and basic principles of research designs. The main contents include research design, data collecting, analysis, and interpretation by combining special techniques of descriptive statistics and inferential statistics in medical science.

Research methods and techniques -0101265 (1 hours)

Course Description

This course introduces the foundational methods and techniques of academic research. The course includes how to identify problems to study, develop hypotheses and research questions, specify independent and dependent variables, check for the validity and reliability of studies and design research projects.

Research methods and techniques/practical -0101266 (1 hours)

Course Description

The course is designed to provide the student with important practical aspects about the foundational methods and techniques of academic research. The course includes how to identify problems to study, develop hypotheses and research questions, specify independent and dependent variables, check for the validity and reliability of studies and design research projects.

Management and quality assurance in applied medical sciences– 1101211 (2 hours)

Course Description

This course provides an overview of the role of the hospitals and physical therapy department. The course focuses on effective leadership, planning, problem solving and organizational management. Also it includes the safety consideration and hospital hygiene and infection control.

Introduction of Physical Therapy-1101130(1 hour)

Course Description

The course is designed to provide the student basic information about the profession of physical therapy and how to use physical factors in treating diseases, identifying types of physical therapy manual therapy electrical therapy hydrotherapy how to use heat and cold in treatment the extent of the importance of physical therapy and the important health conditions for children

Ethics of the physical therapy profession -1101131 (1 hour)

Course Description

The course introduces to students the basic principles of rehabilitation including preparations for patients care activities, approaches to infection control, proper body mechanics and patient education. This course is also intended to explain ethical principles in health care and its application in rehabilitation. Professionalism in health care and the basic professional standards are also discussed. Team work and the role of each member of the rehabilitation team in the evaluation and managements of the patients and their relation to each other is also included.

Psychology for Physical Therapy -1101132 (1 hour)

Course Description

The course is designed to provide the student basic information about knowledge of mental health and the dimensions of health and factor that are affected by mental health including anxiety panic, depression, mania, anger, food disorders, sleep disorders, dissociative disorders, and schizophrenia.

Anatomy of musculoskeletal system-1101220 (2 hours)

Course Description

The course is designed to provide the student basic information about anatomy of the musculoskeletal system practical, joints and bones, bones of the skeletal system and the spine practical, and the identification of body muscles is practical.

Anatomy of musculoskeletal system/Practical-1101221 (1 hour)

Course Description

The course is designed to provide the student with important practical aspects about musculoskeletal system, joints and bones, bones of the skeletal system and the spine practical, and the identification of body muscles is practical by using means of analysis and various anatomical models.

Neuroanatomy - 1101224 (2 hours)

Course Description

The course is designed to provide the student basic information about the general layout of the nervous system, and a detailed study of anatomy of the brain and spinal cord, the ascending and descending tracts of the cord and the distribution of the cranial nerves, the vascular supply to the brain and the cerebrospinal fluid.

Neuroanatomy/practical - 1101222 (1 hour)

Course Description

The course is designed to provide the student with important practical aspects about the general layout of the nervous system, and a detailed study of anatomy of the brain and spinal cord, the ascending and descending tracts of the cord and the distribution of the cranial nerves, the vascular supply to the brain and the cerebrospinal fluid.

Kinesiology -1101230 (1 hour)

Course Description

This course includes the basic concepts and terminology of kinesiology. It deals with the different types and analysis of forces and their applications on the human body. The use of mechanics in physiotherapy.

Biomechanics-1101239 (1 hour)

Course Description

This course includes the basic concepts and terminology of biomechanics. It includes understanding of normal biomechanics of bone and soft tissues under normal and pathological conditions.

Kinesiology &Biomechanics/ Practical -1101233(1 hour)

Course Description

The course is designed to provide the student with the kinematics and kinetics analysis of the joints of both upper and lower limbs and also gait analysis

Exercise physiology -1101225 (2 hours)

Course Description

The course is designed to provide the student basic information about effects of exercise on physiological functions and will examine applied and theoretical issues related to physical activity.

Musculoskeletal assessment -1101234 (1 hour)

Course Description

The course is designed to provide the student basic information about methods of assessment of the musculoskeletal system from physiotherapy view. It includes the manual muscle testing for upper, lower extremities, trunk and neck muscles. Measurement of range of motion for body joints generally. It also includes assessment of pain, posture, gait and round and long measurement.

Musculoskeletal assessment/ practical -1101235 (1 hour)

Course Description

This course aimed to allow students to apply the basic methods of assessment of the musculoskeletal system. It includes the manual muscle testing for upper, lower extremities, trunk and neck muscles. Measurement of range of motion for body joints

generally. It also includes assessment of pain, posture, gait and round and long measurement.

Therapeutic exercises-1101330 (2 hours)

Course Description

The course is designed to provide the student basic information about therapeutic exercises and methods of use and application in physical therapy, include the different types of passive and active movements, the types of muscle effort and ways of strengthening the muscle groups or individually, and flexibility exercises, in addition to the practical training of students to apply different types of exercises.

Therapeutic exercises/Practical-1101331 (1 hour)

Course Description

This course aimed to allow students to apply therapeutic exercises and methods of use and application in physical therapy, include the different types of passive and active movements, the types of muscle effort and ways of strengthening the muscle groups or individually, and flexibility exercises, in addition to the practical training of students to apply different types of exercises.

Electrotherapy and Hydrotherapy -1101231(2 hours)

Course Description

The course is designed to provide the student basic information about physical therapy electrical modalities as heat therapy, ultraviolet rays as well as recognition of low-level laser therapy, ultrasound therapy, electrical stimulation, magnetic therapy and shock waves. It also includes hydrotherapy modalities and techniques.

Electrotherapy and Hydrotherapy /Practical-1101232 (1 hour)

Course Description

This course aimed to allow students to apply physical therapy electrical modalities as heat therapy, ultraviolet rays as well as recognition of low-level laser therapy, ultrasound therapy, electrical stimulation, magnetic therapy and shock waves. It also includes hydrotherapy modalities and techniques.

Manual therapy-1101332(2 hours)

Course Description

The course is designed to provide the student basic information about methods of manual therapy designed to provide students with specific practical techniques to increase the level of movement in the joints of the upper and lower limbs, as well as increase the level of movement in the spine and maintain the level of normal movement in all joints of the body

Manual therapy/Practical-1101333(1 hour)

Course Description

This course aimed to allow students to apply methods of manual therapy designed to provide students with specific practical techniques to increase the level of movement in

the joints of the upper and lower limbs, as well as increase the level of movement in the spine and maintain the level of normal movement in all joints of the body

Human development and psychology -1101223 (1 hour)

Course Description

The course is designed to provide the student basic information about bone development postnatal bone growth walking development, problems during prenatal development, brachial plexuses injury and developmental sequence summary

Imaging and diagnostic apparatuses- 1101227 (1 hour)

Course Description

The course is designed to provide the student basic information about different imaging and diagnostic apparatuses, such as diagnostic x ray, Computed Tomography (CT), Magnetic Resonance Imaging (MRI), ultrasonography, mammogram and some advanced imaging methods and apparatuses.

Geriatric Physical Therapy -1101324 (1 hour)

Course Description

The course is designed to provide the student basic information about a detailed explanation of diseases of aging and physiological changes that occur in the human body during the age and focus on changes in the nervous system and circulatory system and musculoskeletal system and discusses the physical therapy methods of evaluating of the elderly patients and methods of physical therapy intervention.

Clinical training in Geriatric Physical Therapy -1101325 (1 hour)

Course Description

This course aimed to allow students to apply physical therapy methods of evaluating of the elderly patients, determine the patient's list problems and design physical therapy program of these elderly patients which is an evidence scientific based.

PT for internal & cardiopulmonary diseases and their surgeries - 1101334 (2 hours)

Course Description

The course is designed to provide the student basic information about evaluation and treatment of patients with internal medicine and cardiopulmonary disease and their surgeries emphasizing the response of cardiac, circulatory, and pulmonary systems to exercise. This course describes the pathological conditions and their surgeries of the cardiopulmonary system commonly encountered by physical therapists and explain the medical interventions utilized in the management of pathological conditions and their surgeries of the cardiopulmonary system commonly seen by physical therapists

PT for internal & cardiopulmonary diseases and their surgeries /practical-1101335 (1 hour)

Course Description

This course aimed to allow students to apply physical therapy methods of assessment and treatment of different internal medicine patients and cardiopulmonary diseases and their surgeries that is needed to physical therapy intervention.

PT clinical training internal & cardiopulmonary diseases and their surgeries -1101338 (2 hours)

Course Description

This course aimed to allow students to apply physical therapy methods of evaluating of different internal medicine patients and cardiopulmonary diseases and their surgeries that is needed to physical therapy intervention, determine the patient's list problems and design physical therapy program of these patients which is an evidence scientific based.

PT for Integumentary System and General Surgery-1101339(2 hours)

Course Description

The course is designed to provide the student basic information about evaluation and treatment of burned patients and post-operative cases. This course describes the pathological conditions of the integumentary system commonly encountered by physical therapists and explain the medical interventions utilized in the management of pathological conditions of the integumentary system commonly seen by physical therapists

PT for Integumentary System and General Surgery/practical - 1101337 (1 hour)

Course Description

This course aimed to allow students to apply physical therapy methods of assessment and treatment of different integumentary system disorders including burn cases and general surgeries patients that is needed to physical therapy intervention.

PT clinical training for Integumentary system and General Surgery- 1101338 (1 hour)

This course aimed to allow students to apply physical therapy methods of evaluating of different integumentary system disorders including burn cases and general surgeries patients that is needed to physical therapy intervention, determine the patient's list problems and design physical therapy program of these patients which is an evidence scientific based.

PT for women health -1101422 (1 hour)

Course Description

The course is designed to provide the student basic information about evaluation and treatment in the field of women health. This course describes the pathological conditions in the field of women health commonly encountered by physical therapists and explain the medical interventions utilized in the management of pathological conditions in the field of women health commonly seen by physical therapists

PT for women health/practical -1101435 (1 hour)

Course Description

This course aimed to allow students to apply physical therapy methods of assessment and treatment in the field of women health that is needed to physical therapy intervention.

PT clinical training for women health -1101437 (1 hour)

This course aimed to allow students to apply physical therapy methods of evaluating in the field of women health that is needed to physical therapy intervention, determine the patient's list problems and design physical therapy program of these patients which is an evidence scientific based.

Musculoskeletal diseases and traumatology -1101238 (2 hours)

Course Description

The course is designed to provide the student basic information about musculoskeletal diseases, their surgeries and traumatology. Also this course will provide the student with an understanding of techniques and rationale used in the examination, evaluation and treatment of musculoskeletal system dysfunction.

PT for musculoskeletal diseases and traumatology and their surgeries -1101423 (3 hours)

Course Description

The course is designed to provide the student basic information about evaluation and treatment of musculoskeletal diseases, their surgeries and traumatology cases. This course describes the pathological conditions and their surgeries of the musculoskeletal system commonly encountered by physical therapists and explain the medical interventions utilized in the management of pathological conditions and their surgeries of the musculoskeletal system commonly seen by physical therapists

PT for musculoskeletal diseases and traumatology and their surgeries /practical -1101432 (2 hours)

Course Description

This course aimed to allow students to apply physical therapy methods of assessment and treatment of different musculoskeletal diseases, their surgeries and traumatology patients that is needed to physical therapy intervention.

PT clinical training for musculoskeletal diseases and traumatology and their surgeries -1101430 (3 hours)

This course aimed to allow students to apply physical therapy methods of evaluating of different musculoskeletal diseases, their surgeries and traumatology patients that is needed to physical therapy intervention, determine the patient's list problems and design physical therapy program of these patients which is an evidence scientific based.

PT for pediatrics diseases and its surgeries -1101420 (2 hours)

Course Description

The course is designed to provide the student basic information about evaluation and treatment of different pediatrics diseases and their surgeries cases. This course describes the pathological conditions of different pediatrics diseases and their surgeries cases commonly encountered by physical therapists and explain the medical interventions utilized in the management of pathological conditions of different pediatrics diseases and surgeries cases commonly seen by physical therapists

PT for pediatrics diseases and its surgeries /practical -1101436 (2 hours)

Course Description

This course aimed to allow students to apply physical therapy methods of assessment and treatment of different pediatrics diseases and their surgeries patients that is needed to physical therapy intervention.

PT clinical training for pediatrics diseases and its surgeries -1101439 (2 hours)

This course aimed to allow students to apply physical therapy methods of evaluating of different pediatrics diseases and their surgeries patients that is needed to physical therapy intervention, determine the patient's list problems and design physical therapy program of these patients which is an evidence scientific based.

Neurology-1101320 (3hours)

Course Description

The course is designed to provide the student basic information about neurological diseases and their surgeries. Also this course will provide the student with an understanding of techniques and rationale used in the examination, evaluation and treatment of neurological system dysfunction.

PT for Neurological diseases and its surgeries -1101424 (3 hours)

Course Description

The course is designed to provide the student basic information about evaluation and treatment of different neurological diseases and their surgeries cases. This course describes the pathological conditions of different neurological diseases and their surgeries cases commonly encountered by physical therapists and explain the medical interventions utilized in the management of pathological conditions of different neurological diseases and their surgeries cases commonly seen by physical therapists

PT for Neurological diseases and its surgeries /practical -1101433 (2 hours)

Course Description

This course aimed to allow students to apply physical therapy methods of assessment and treatment of different neurological diseases and their surgeries patients that is needed to physical therapy intervention.

PT clinical training for Neurological diseases and its surgeries - 1101431 (3 hours)

This course aimed to allow students to apply physical therapy methods of evaluating of different neurological diseases and their surgeries patients that is needed to physical therapy intervention, determine the patient's list problems and design physical therapy program of these patients which is an evidence scientific based.

Orthotics & Prosthesis -1201236 (1 hour)

Course Description

The course is designed to provide the student basic information about the role of prostheses in the rehabilitation of patients with motor disabilities and the identification of types of prostheses suitable for various diseases and appropriate limbs and compensatory devices and cooperation with the art of artificial limbs to reach the best results in the rehabilitation of patients.

Orthotics & Prosthesis/practical -1201237 (1 hour)

Course Description

This course aimed to allow students to recognize the differences between different types of orthotics and prosthesis and their role in the rehabilitation of different disabled patients. Also it aimed to allow students to apply bandaging and some common orthotic used.

Sport injury treatment -1101321 (1 hour)

Course Description

The course is designed to provide the student basic information about sport injuries fractures of bone and joints related to accidents in and out of sport fields. It includes risk factors, first aid tools for sport injuries with rehabilitation of specific sports injuries. Also it provides the bases of management of the injured athlete, including examination, prognosis, intervention and outcome.

Sport injury treatment/practical -1101326 (1 hour)

Course Description

This course aimed to allow students to apply the bases of management of the injured athlete, including examination, prognosis, intervention and outcome.

Physical therapy in Intensive Care Unit -1101421 (1 hour)

Course Description

The course is designed to provide the student basic information about physiotherapists role in different types of the intensive care units. Also it provides the students with all information about the intensive care units.

Physical therapy in Intensive Care Unit/practical -1101434 (1 hour)

Course Description

The course is designed to help the student recognizing all information about different types of the intensive care units. It also aimed to allow students to apply physical therapy methods of evaluating and treatment of different types of patients in different of the intensive care units

Balance system rehabilitation-1101133 (2 hours)

Course Description

The course is designed to provide the student basic information about the balance system rehabilitation, and their role in the rehabilitation of different patients in the field of physical therapy.

Ergonomics -1101134 (2 hours)

Course Description

The course is designed to provide the student basic information about ergonomic principles, and their role in the rehabilitation of different patients in the field of physical therapy.

Community rehabilitation-1101135 (2 hours)

Course Description

The course is designed to provide the student basic information about the basic principles of medical qualification and teamwork. It highlights the role of each member of the qualifying team and its relation to the roles of other members. It also focuses on the medical and research ethics of rehabilitation team members in clinics and hospitals.

Communication Skills -1101136 (2 hours)

Course Description

The course is designed to provide the student basic information to prepare the future therapist to interact with patients, families of patients and other relevant individuals at all levels. Taking into account the psychosocial conditions in the development of self-understanding and communication skills with patients, families, the public and other health teams.

Introduction to osteopathy -1101138 (2 hours)

Course Description

The course is designed to provide the student basic information about osteopathy principles, and their role in the rehabilitation of different patients in the field of physical therapy.

Introduction to chiropractic -1101139 (2 hours)

Course Description

The course is designed to provide the student basic information about chiropractic principles, and their role in the rehabilitation of different patients in the field of physical therapy.

Differential Diagnosis in physiotherapy -1101116 (2 hours)

Course Description

The course is designed to provide the student basic information about differential diagnosis in physiotherapy principles, and their role in the rehabilitation of different patients in the field of physical therapy.

Evidence-based practice in physiotherapy -1101117 (2 hours)

Course Description

The course is designed to provide the student basic information about evidence-based practice in physiotherapy principles, and their role in the rehabilitation of different patients in the field of physical therapy.

Electro-diagnosis -1101124 (2 hours)

Course Description

The course is designed to provide the student basic information about electro-diagnosis principles, and their role in the rehabilitation of different patients in the field of physical therapy.

Respiratory therapy-1101125 (2 hours)

Course Description

The course is designed to provide the student basic information about respiratory therapy principles, and their role in the rehabilitation of different patients in the field of physical therapy.

Biochemistry -0201177 (1 hour)

Course Description

The course is designed to provide the student basic information about basic biochemistry, including carbohydrate, protein and fat metabolism. Also it provides the student about the sources of energy due to different body metabolism.

Clinical nutrition- 0201192 (2 hours)

Course Description

The course is designed to provide the student basic information about the concept of nutrition, which is suitable for students enrolled in the physical therapy program. The course includes a study of carbohydrates, fats, proteins, vitamins, minerals and their importance to the human body. This course also covers the study of energy sources, energy balance and their role in clinical nutrition.

Pathology-0201290 (1 hour)

Course Description

The course is designed to provide the student basic information about general and basic knowledge of diseases, their causes, pathogenesis, general morphological and changes at gross, microscopic and submicroscopic levels as well as the prognosis of the disease.

Pharmacology-0201391 (1 hour)

Course Description

The course is designed to provide the student basic information about the effect of different drugs on the human, and the knowledge of the effectiveness of the drug correctly and treated in a manner not affected the health of the patient. It deals with general principles of pharmacology including pharmacodynamics and pharmacokinetics and discuss the major drugs for major pathological diseases.

Human Physiology-1101128 (3 hours)

Course Description

The course is designed to provide the student basic information about the functions of the various body systems with some clinical applications related to the physiotherapy specialization, including study of the respiratory system, circulatory system, circulatory system, urinary system, gastrointestinal system, endocrine system, muscles and nervous system.

Human Physiology/Practical-1101129 (1 hour)

Course Description

The course is designed to provide the student with important practical aspects about the functions of the various body systems with some clinical applications related to the physiotherapy specialization, including study of the respiratory system, circulatory system, circulatory system, urinary system, gastrointestinal system, endocrine system, muscles and nervous system.