

Courses Description

College: Applied Medical Sciences

Department: Physical Therapy

Course ID: 504100 **Description:** skin care science

Full Course Description: jhhjh

Course ID: 504201 **Description:** Introduction to Physiotherapy

Full Course Description: This course introduces students to the field and profession of physiotherapy. It covers the history of the profession and outlines the theoretical and practical foundations of physiotherapeutic methods and techniques. The course also explains the role of the physiotherapist in various clinical and community settings, including educational and research centers, medical and administrative consultations, community services, outpatient clinics, hospitals, and other rehabilitation facilities.

Course ID: 504313 **Description:** Anatomy of Musculoskeletal System

Full Course Description:

Course ID: 504314 **Description:** Musculoskeletal pathology

Full Course Description:

Course ID: 504315 **Description:** Orthotics Sciences

Full Course Description:

Course ID: 504321 **Description:** Methods of Physiotherapy (1)

Full Course Description:

Course ID: 504323 **Description:** Methods of Physiotherapy (3)

Full Course Description:

Course ID: 504324 **Description:** Methods of Physical Therapy (4)

Full Course Description: sdsdf

Course ID: 504332 **Description:** Physical Therapy for Chronic Pain

Full Course Description: fgf

Course ID: 504334 **Description:** Physical Therapy for sport Injury

Full Course Description: klhjhh

Course ID: 504341 **Description:** Biomechanics & Kinesiology

Full Course Description:

Course ID: 504342 **Description:** Orthotics & Prosthesis

Full Course Description: dfsdfs

Course ID: 504343 **Description:** Biomechanics

Full Course Description:

Course ID: 504351 **Description:** Patient Compliance Concepts

Full Course Description:

Course ID: 504352 **Description:** Management of Physiotherapy Services

Full Course Description:

Course ID: 504353 **Description:** Medical Ethics in Rehabilitation

Full Course Description: fg

Course ID: 504371 **Description:** Computer in Phsical Therapy

Full Course Description: ,m

Courses Description

College: Applied Medical Sciences

Department: Physical Therapy

Course ID: 504373	Description: Computer in Physiotherapy
Full Course Description:	
Course ID: 504415	Description: Development of Neuromuscular Systems
Full Course Description:	
Course ID: 504461	Description: Clinical Exercises Physiology
Full Course Description:	
Course ID: 504462	Description: Sport Injury
Full Course Description:	
Course ID: 504490	Description: Research In Physical Therapy
Full Course Description:	
Course ID: 504495	Description: Special Topics in Physiotherapy
Full Course Description:	
Course ID: 504499	Description: Internship in Physiotherapy
Full Course Description:	
Course ID: 2504311	Description: Neurosciences (1)
Full Course Description:	
Course ID: 2504312	Description: Neurosciences (2)
Full Course Description:	
Course ID: 2504314	Description: Musculoskeletal pathology
Full Course Description: Musculoskeletal Injury	
Course ID: 2504321	Description: Methods of Physiotherpay(1)
Full Course Description:	
Course ID: 2504322	Description: Method of Physiotherpay (2)
Full Course Description:	
Course ID: 2504323	Description: Methods of Phsical Therapy (3)
Full Course Description: GGSDGFSDGFSDFS	
Course ID: 2504339	Description: Geratric Physical Therapy
Full Course Description: hjkhk	
Course ID: 2504341	Description: Biomechanics & Kinesiology
Full Course Description: Biomechanics & Kinesiology	
Course ID: 2504352	Description: Management of Physical Therapy Services
Full Course Description: sdasdfs	
Course ID: 2504382	Description: Psychology for Physiotherapy
Full Course Description:	
Course ID: 2504431	Description: Physiotherapy for Neuromuscular Conditions
Full Course Description:	
Course ID: 2504433	Description: Physiotherapay for Neurological Conditions
Full Course Description:	

Courses Description

College: Applied Medical Sciences

Department: Physical Therapy

Course ID: 2504435 **Description:** Physiotherapy for Selected Body Systems

Full Course Description:

Course ID: 2504437 **Description:** Pediatric Physiotherapy

Full Course Description:

Course ID: 2504439 **Description:** Geriatric Physiotherapy

Full Course Description:

Course ID: 2504491 **Description:** Seminar in Physiotherapy

Full Course Description:

Course ID: 2504495 **Description:** Special Topics in Physiotherapy

Full Course Description: K

Course ID: 2504499 **Description:** Internship in Physical Therapy

Full Course Description: ergrrgdv

Course ID: 3504314 **Description:** Musculoskeletal Pathology

Full Course Description: jkjkjk

Course ID: 3504322 **Description:** Method of Physiotherpay (2)

Full Course Description: Method of Physiotherpay (2)

Course ID: 3504431 **Description:** Physiotherapy for musculoskeletal Conditions

Full Course Description: Physiotherapy for Neuromuscular Conditions

Course ID: 3504433 **Description:** Physiotherapay for Neurological Conditions

Full Course Description: Physiotherapay for Neurological Conditions

Course ID: 3504435 **Description:** Physiotherapy for Selected Body Systems

Full Course Description: Physiotherapy for Selected Body Systems

Course ID: 3504437 **Description:** Pediatric Physiotherapy

Full Course Description: Pediatric Physiotherapy

Course ID: 3504492 **Description:** Research in Physical Therapy

Full Course Description: xc

Course ID: 3504495 **Description:** Research in physiotherapy

Full Course Description: sa

Course ID: 4504431 **Description:** Physical Therapy for Musculoskeletal Conditions

Full Course Description: ;ljojlo

Course ID: 4504433 **Description:** Physical Therapy for Neurological Conditions

Full Course Description: HJJK

Course ID: 4504435 **Description:** Physical Therapy for Selected Body Systems

Full Course Description: gsdfsdfs

Course ID: 4504437 **Description:** Pediatric Physical Therapy

Full Course Description: iioioio

Course ID: 110504210 **Description:** Introduction to Physical Therapy

Full Course Description: dfsd

Courses Description

College: Applied Medical Sciences

Department: Physical Therapy

Course ID: 110504211 **Description:** Anatomy of Musculoskeletal System

Full Course Description: qweq

Course ID: 110504212 **Description:** Anatomy of Musculoskeletal System Lab

Full Course Description: wewq

Course ID: 110504213 **Description:** Concepts of patient Communication in Rehabilitation

Full Course Description: fgdf

Course ID: 110504214 **Description:** Neuroanatomy

Full Course Description: erwe

Course ID: 110504220 **Description:** Evaluation of Muscles and Range of Motion

Full Course Description: rwer

Course ID: 110504221 **Description:** Evaluation of Muscles and Range of Motion Lab

Full Course Description: sdfsd

Course ID: 110504230 **Description:** Biomechanics & Kinesiology

Full Course Description: wqeqw

Course ID: 110504231 **Description:** Biomechanics & Kinesiology Lab

Full Course Description: fsdsd

Course ID: 110504320 **Description:** Therapeutic Exercise

Full Course Description: dfsd

Course ID: 110504321 **Description:** Therapeutic Exercise Lab

Full Course Description: sadas

Course ID: 110504322 **Description:** Electrotherapy

Full Course Description: sda

Course ID: 110504323 **Description:** Electrotherapy Lab

Full Course Description: sadas

Course ID: 110504324 **Description:** Manual Therapy

Full Course Description: zX

Course ID: 110504325 **Description:** Manual Therapy Lab

Full Course Description: asdas

Course ID: 110504330 **Description:** Musculoskeletal Injury and Pathology

Full Course Description: xczx

Course ID: 110504331 **Description:** Orthotics & Prosthesis

Full Course Description: dss

Course ID: 110504340 **Description:** Neurology

Full Course Description: asdda

Course ID: 110504341 **Description:** Neurology Lab

Full Course Description: das

Course ID: 110504342 **Description:** Development of Neuromuscular System

Full Course Description: sada

Courses Description

College: Applied Medical Sciences

Department: Physical Therapy

Course ID: 110504350 **Description:** Geriatric Physical Therapy

Full Course Description: sdasd

Course ID: 110504351 **Description:** Psychology for Physical Therapy

Full Course Description: dfds

Course ID: 110504352 **Description:** Physical Therapy for Chronic Pain

Full Course Description: dfds

Course ID: 110504360 **Description:** Skin Care

Full Course Description: ffdtdtdtd

Course ID: 110504410 **Description:** Research Method

Full Course Description: sadas

Course ID: 110504411 **Description:** Research in Physical Therapy

Full Course Description: xxz

Course ID: 110504412 **Description:** Seminar in Physical Therapy

Full Course Description: sasss

Course ID: 110504430 **Description:** Physical Therapy for Musculoskeletal Conditions

Full Course Description: sdas

Course ID: 110504431 **Description:** Physical Therapy for Musculoskeletal Conditions Lab

Full Course Description: asd

Course ID: 110504440 **Description:** Physical Therapy for Neurological Conditions

Full Course Description: asdas

Course ID: 110504441 **Description:** Physical Therapy for Neurological Conditions Lab

Full Course Description: sdas

Course ID: 110504450 **Description:** Physical Therapy for Cardiopulmonary and General Surgery

Full Course Description: dfsfs

Course ID: 110504451 **Description:** Physical Therapy for Specialized Body Systems

Full Course Description: dfsf

Course ID: 110504452 **Description:** Physical Therapy for Cardiopulmonary and Specialized body Systems
Lab

Full Course Description: sadas

Course ID: 110504453 **Description:** Pediatric Physical Therapy

Full Course Description: sdad

Course ID: 110504470 **Description:** Internship in Physical Therapy(1)

Full Course Description: dsfsd

Course ID: 110504471 **Description:** Internship in Physical Therapy (2)

Full Course Description: das

Course ID: 140504212 **Description:** Anatomy of Musculoskeletal System Lab

Full Course Description: This lab provides the students with practical knowledge of human dissectional anatomy of bones, joints and muscles for upper and lower extremities, and facial musculature and their vascularization and innervations on anatomical models

Courses Description

College: Applied Medical Sciences

Department: Physical Therapy

Course ID: 140504454 **Description:** Seminar in Physical Therapy

Full Course Description: This course is designed to increase the students' abilities on identifying, analysis, proposing a solution for professional related issues. Each student is expected to identify physical therapy practice related issue, and explore the aspect of the matter, analyze the situation, read and reporting on specific topics (of his/her choice). Emphasis is placed on the development of knowledge in an area of interest to the student. hands on and keen follow up on the developed project will be provided during the course, the student will present his/her subject using proper audiovisual aids toward the end of the semester. A written report on the presented material or project should also be submitted.

Course ID: 140504461 **Description:** Internship in Physical Therapy (2)

Full Course Description: This course is designed to provide the student with the opportunity to provide standards of physical therapy treatment under supervision in an onsite clinical learning environment. The student will be supervised by a licensed physical therapist during their progression of learning opportunities, application techniques, and professional behavioral abilities. This clinical experience presents students with the opportunity to: participate in clinical affiliations; enhance knowledge, values, and skills as a practitioner; and integrate and apply all what he/she had learned from previous courses and labs in the clinical setting.

Course ID: 2305041121 **Description:** Introduction to Physiotherapy

Full Course Description: This course introduces and defines the physical therapy profession to the students in terms of history, areas of practice, roles, and general theoretical base of practice. In addition, this course explains the roles of physiotherapist in practicing teaching, research , medical consultation, community practice, and treatment in acute and outpatient settings.

Course ID: 2305041211 **Description:** Musculoskeletal Anatomy

Full Course Description: This course provides the students with detailed explanation of the musculoskeletal systems anatomy of both upper and lower extremities and trunk with emphasis on the origin and insertion, function, innervation and vascular supply for each muscle, In addition, this course introduces the principles of functions of the muscular and skeletal systems as they pertain to the physical therapy profession.

Course ID: 2305041212 **Description:** Musculoskeletal Anatomy / Practical

Full Course Description: This lab provides the students with practical knowledge of human dissectional anatomy of bones, joints and muscles for upper and lower extremities, and facial musculature and their vascularization and innervations on anatomical models

Course ID: 2305041213 **Description:** Neuroanatomy

Full Course Description: This course provides the student with knowledge of human neuroanatomy and the principles of regulation of functions of the central, peripheral, and autonomic nervous systems and their relationship to the muscular system as they pertain to the physical therapy profession. The detailed and specific anatomical structures of the brain, mid brain, spinal cord and peripheral nerves are presented. also, special sensory pathways will be included in this class. Anatomical models and specimens complement didactic classroom activities.

Course ID: 2305041214 **Description:** Exercise Physiology

Full Course Description: This course covers the benefits of physical activity and its physiological impact on various body systems. It also addresses the effect of therapeutic exercises on selected medical conditions and physical ailments, with a primary focus on optimal methods for prescribing exercises for each medical condition, covering the basic aspects of patient assessment and selecting appropriate evidence-based exercises.

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Course ID: 2305041222 **Description:** Kinesiology / Practical

Full Course Description: This lab is an adjunct to the theoretical part and includes the practical application of theoretical concepts of body mechanics during the activities of the daily livings (ADLs) such as walking, standing, praying with or without walking or movement aids (eg. Walker, wheel chairs, crutches, splints...etc.) . also, student will learn how to apply these principles during patient transferring . Methods of instruction in the lab include using anatomical models, live application of analysis of movement on volunteer students and the use of available instructional aids, And also includes knowledge of the muscles and joints functions through a system of levers and physical laws, also includes a detailed explanation of the process of normal and abnormal gait, and also includes the knowledge of balance, center of gravity and mechanical methods to maintain the balance of the body.

Course ID: 2305041223 **Description:** Musculoskeletal Evaluation

Full Course Description: This course introduces the methods of assessments of musculoskeletal system in physical therapy including muscle strength and range of motion using standardized methods. Also, the course will explain the muscles and joints status during normal gait or movements and the course will be enriched with examples and comparison with pathological condition that might face therapist in real life situation that related to muscles strength or joints range. This course will expose the student to the initial evaluation process including subjective and objective components and preparation of treatment plan in relation to musculoskeletal problems.

Course ID: 2305041224 **Description:** Musculoskeletal Evaluation / Practical

Full Course Description: This course emphasis the content of the theoretical course. During this lab the students will have hands on training of the manual skills needed for muscle strength and ROM assessment of the upper and lower limbs and neck and trunk. Practically, the student will be trained to perform the subjective evaluation of muscle strength and joint range of motion and analyze the effects of existed impairment on normal movements or gait using videos and volunteers.

Course ID: 2305041225 **Description:** Therapeutic Exercises

Full Course Description: This course enhance students' knowledge and enables them to analyze the underlying principles of therapeutic exercise. It introduces motor training or retraining; flexibility; strength, including active, assistive, active resistive, manual resistive, plyometrics; breathing exercises, including ventilatory muscle training; aerobic capacity/endurance conditioning activities, using cycles, treadmills, steppers; aquatic exercises; posture; relaxation exercises; and conditioning and reconditioning. The course also includes all types of exercise equipment, including free weights, weight training machines, elastic bands and tubes, stability balls, medicine balls, and slide boards. The course provides the students with basic knowledge of the physiological principles for understanding the response of the human body to exercise and their implications in physical therapy intervention, this includes specific response of pulmonary, cardiovascular, musculoskeletal, neuromuscular, and metabolic systems to exercise. Also, the course will enable the students to provide exercise/programs for patients/clients across the lifespan.

Course ID: 2305041226 **Description:** Therapeutic Exercise / Practical

Full Course Description: This lab includes the practical application of different therapeutic exercises discussed in the theoretical part) and their indications and contraindications of all body muscles. Also, this lab will include the procedure of applying passive, active and resistive exercises. Emphasis will also be placed on basic active exercise techniques related to muscle performance (including strength, power, and endurance) and stretching/flexibility activities. Case-based instruction, evidence-based practice and clinical reasoning are emphasized.

Courses Description

College: Applied Medical Sciences

Department: Physical Therapy

Course ID: 2305041227 **Description:** Electrophysical Agents

Full Course Description: Lab will include hands on training on the proper way of applying physical therapy modalities on different body parts and their indication and contraindication. Laboratory sessions will provide instruction and training in the application of electrical and acoustic agents for the management of pain, dysfunction, impaired muscle performance, range of motion limitations, and the delivery of medications. Emphasis will also be placed on the fundamentals of aseptic techniques, infection control, and standard precautions in clinical practice. A problem solving approach with an emphasis on evidence based practice will be utilized throughout this lab.

Course ID: 2305041228 **Description:** Electrophysical Agents / Practical

Full Course Description: Lab will include hands on training on the proper way of applying physical therapy modalities on different body parts and their indication and contraindication. Laboratory sessions will provide instruction and training in the application of electrical and acoustic agents for the management of pain, dysfunction, impaired muscle performance, range of motion limitations, and the delivery of medications. Emphasis will also be placed on the fundamentals of aseptic techniques, infection control, and standard precautions in clinical practice. A problem solving approach with an emphasis on evidence based practice will be utilized throughout this lab.

Course ID: 2305041241 **Description:** Neuromuscular Development

Full Course Description: This course introduces normal development of neuromuscular system from embryo to adulthood. Several aspects of neuromuscular development will be discussed including gross and fine motor development, skills related to neuromuscular development including grasping, walking, mobility, hand functions and others. The normal development of gross motor skills will be contrasted with the abnormal development that occurs in the presence of various conditions and pathologies throughout the lifespan will also be introduced.

Course ID: 2305041321 **Description:** Manual Therapy

Full Course Description: This course provides the students with an in-depth understanding of commonly used manual techniques to modulate pain, increase joint range of motion, reduce soft tissue inflammation, induce relaxation, improve contractile and noncontractile tissue extensibility, and improve musculoskeletal system function. The manual techniques include soft tissues mobilization, therapeutic massage, nerve mobilization, joints mobilization, and manipulation, also this course provides knowledge of advance skills in physical therapy to use it with patients in the future.

Course ID: 2305041322 **Description:** Manual Therapy / Practical

Full Course Description: This lab is offered in conjunction with the theoretical course and includes hands on training on the manual techniques used in physical therapy treatment, which includes soft tissues mobilization, therapeutic massage, nerve mobilization, joints mobilization, and manipulation. The training in this lab includes case analysis, EBP, and the application of different manual therapy methods on joints, and soft tissues of the body and its indications and contraindications .

Course ID: 2305041331 **Description:** Musculoskeletal Injury and Pathology

Full Course Description: This course focuses on the assessment, evaluation and treatment of underlying pathological musculoskeletal injuries. During the course the students will be introduced to the etiology, pathology, and clinical sciences of muscular and skeletal diseases, disorders, injuries, clinical/laboratory assessment techniques. Additional information on medical management, surgical management, physical therapy management, imaging techniques, and pharmacological interventions will be introduced.

Courses Description

College: Applied Medical Sciences

Department: Physical Therapy

Course ID: 2305041332 **Description:** Orthotics and Prosthetics in Rehabilitation

Full Course Description: This course introduces assistive technology used in rehabilitation, particularly those require physical therapist attention and interventions. The discussion includes an in-depth review of the principles and practices of orthotics and prosthetics as applied by a physical therapist and analyze their use during ADL. This includes a survey of the basic biomechanical principles utilized in applying orthotic and prosthetic appliances, as well as principles of patient application, training, and management of complications.

Course ID: 2305041333 **Description:** Physiotherapy for Musculoskeletal Conditions

Full Course Description: This course introduce the students to physical therapy process for patients suffering musculoskeletal conditions starting from thorough assessment, identifying problems, setting goals, creating therapeutic plan, implementing the care plan, and evaluating the outcomes. During the this course several methodology to examine and reexamine a patient or client with musculoskeletal problems will be introduced. Methods include chart review, obtaining a patient's history from the patient or client (by performing relevant systems review, and by selecting appropriate age-related tests and measures) , physical examination, family and significant others interview, cross disciplinary communication and from other relevant sources. By the end of this course the students are expected to be able to synthesize examination data to complete the physical therapy evaluation and engage in the diagnostic process. Student will be able to describe the appropriate treatment, and physical therapy managements taking into consideration the physiological aspects. Treatment of acute conditions, low back pain and patients education at home or at work to protect themselves from posture-related injures. Also the student be able to distinguish between malignant and benign tumors.

Course ID: 2305041334 **Description:** Physiotherapy for Musculoskeletal Conditions / Practical

Full Course Description: During this lab hands on training on assessment and treatment of individuals suffering from musculoskeletal conditions will be performed. The students will practice different techniques and methods in assessing and treating several acute conditions such as shoulder, knee and chronic low back pain conditions, especially the vertebral column. several application of physical therapy process in musculoskeletal condition will be discussed including ergonomics at work to protect patients from work related injures.

Course ID: 2305041335 **Description:** Physiotherapy for Sports Injuries

Full Course Description: This course covers various sports injuries, especially those related to the musculoskeletal system. Treatment methods for acute and chronic injuries will be presented, in addition to first aid methods for sports injuries. The course discusses risk factors leading to injuries as well as evidence-based preventive measures.

Course ID: 2305041341 **Description:** Neuroscience

Full Course Description: This course introduce the students to neuropathology and the role of physical therapist in treating these conditions. This course starts with explaining physiology of neurons: neurotransmitters, chemical changes and their possible roles in diseases affecting nervous system and body functions. Then medical diagnosis of acute and chronic neuro-diseases introduced, in conjunction with medical as well as physical therapy treatment of clinical cases.

Course ID: 2305041342 **Description:** Neuroscience / Practical

Full Course Description: This practical part includes training the students on examining different neurodiseases by using neurological examination tests. it also includes practical training on the assessment of neurological disorders through the neurological examinations of cranial nerves, mental status, coordination, muscle strength, sensation and gait evaluation.

Courses Description

College: Applied Medical Sciences

Department: Physical Therapy

Course ID: 2305041343 **Description:** Physiotherapy for Neurological Conditions

Full Course Description: This course introduce the students to physical therapy process for patients suffering neurological conditions, starting from thorough assessment, identifying problems, setting goals, creating therapeutic plan, implementing the care plan, and evaluating the outcomes. this course introduces methods to establish a safe and effective plan of care; setting goals and functional outcomes that specify expected times and duration; planning achievable patient outcomes within available resources; and means of monitoring and adjusting the plan of care in response to patient status for patients with neurological diseases, disorders, or conditions. This course will introduce methods of physical therapy interventions to achieve patient outcomes based on the examination and the impairments, functional limitations, and disabilities; promoting optimal health by providing information on prevention, wellness, and fitness; identifying health risks related to age, gender, culture, and lifestyle; and providing primary, secondary, or tertiary care to patients in collaboration with other practitioners in settings supportive of comprehensive and complex services.

Course ID: 2305041344 **Description:** Physiotherapy for Neurological Conditions / Practical

Full Course Description: During this lab a hand on training will be conducted to enable the students to perform physical therapy process for patient with neurological conditions following the theoretical course guidelines. The lab activities include the practice and applications of the theoretical course material, and the application of rehabilitation approaches on particular neurological conditions.

Course ID: 2305041351 **Description:** Cardiorespiratory and Intensive Care Physiotherapy

Full Course Description: This course is designed to introduce a review of normal cardiopulmonary physiology and the response of this system to exercise and disease. It will enables the student to independently examine and reexamine a patient with cardiovascular and pulmonary problems by obtaining a pertinent history and performing relevant systems review. The student will be able to synthesize examination data to complete the physical therapy evaluation and to establish a safe and effective plan of care; goals and functional outcomes that specify expected times and duration; achievable patient or client outcomes within available resources; and means of monitoring and adjusting the plan of care in response to patient/client status for patients with cardiovascular/pulmonary diseases, disorders, or conditions. The course also enables the student to: provide direct physical therapy interventions to achieve patient outcomes based on the examination and the impairments, functional limitations, and disabilities; promote optimal health by providing information on prevention, wellness, and fitness; know the health risks related to age, gender, culture, and lifestyle.

Course ID: 2305041352 **Description:** Cardiorespiratory and Intensive Care Physiotherapy / Practical

Full Course Description: The purpose of the lab is to assist physical therapy students in developing requisite entry-level cardiopulmonary examination and treatment skills. Activities to be covered include: pulse palpation, blood pressure assessment, auscultation of heart and breath sounds, basic EKG interpretation, diagnostic and functional exercise testing, interpretation of lab values, and airway clearance techniques The practical part includes the application of different therapeutic methods, therapeutic exercises and assistive devices for burned and general surgery patients. Evaluate musculoskeletal problems facing women during pregnancy and after delivery and state suggestive treatments.

Course ID: 2305041353 **Description:** Physiotherapy for Specialized Body Systems

Full Course Description: This course will include the evaluation and the rehabilitation of different body systems disorders such as integumentary system (e.g burn and wound), disorder of peripheral vascular system including diseases that affects arteries (e.g arthrosclorosis, phelipitis), veins (eg varicose vein) or lymphatic system (eg Lymphedema), gynecology (pregnancy and delivery), metabolic and endocrinology disorders.

Courses Description

College: Applied Medical Sciences

Department: Physical Therapy

Couse ID: 2305041354 **Description:** Physiotherapy for Wounds and Burns

Full Course Description: This course covers physiotherapy for the integumentary system (skin) in humans and its disorders during various types of burns and wounds, as well as how to assess and treat them from a physiotherapy perspective.

Couse ID: 2305041361 **Description:** Pediatric Physiotherapy

Full Course Description: This course introduces pediatric condition pertaining to physical therapy practice, the examination and treatment of the pediatric population using an interprofessional approach. The etiology and clinical features of common diseases/ disorders observed in the pediatric population will be discussed. Methods for examination, goal setting, intervention and expected outcomes will be explained. Students will participate in interdisciplinary case studies and an interdisciplinary evaluation project.

Couse ID: 2305041362 **Description:** Pediatric Physiotherapy / Practical

Full Course Description: This course includes the application of basic principles and concepts for the assessment and treatment of children with special needs, neurological disorders, and congenital disorders of all ages, in addition to practical application to various medical cases in centers and hospitals.

Couse ID: 2305041422 **Description:** Management and Leadership in Physiotherapy

Full Course Description: The course covers the basic theories and principles of management and leadership in physical therapy and rehabilitation, with an emphasis on the theoretical knowledge necessary to manage physical therapy and rehabilitation centers and departments. It also reviews some of the skills required for the labor market and methods for solving some administrative and marketing problems. It also addresses issues related to work ethics and how to address them.

Couse ID: 2305041423 **Description:** Research Methods and Evidence in Rehabilitation

Full Course Description: This course introduces the scientific methods of inquiry used in research, their meaning and application in rehabilitation practice. The discussion introduces the historical and philosophical underpinnings of the research methods, types, and how to start a research proposal. In addition to that, research process will be introduced starting from identifying need for research (research problem), sampling design, collecting data, data analysis, and writing a research report techniques will be introduced. Skill to read and critique qualitative and quantitative research report will be introduced to the students. The students are required to submit a proposal on a topic of their selection (each student will submit one proposal of his /her own) that include formulation of research problems, hypothesis testing, literature review, research methodologies, techniques of data collection, sampling, instrumentation (including validity and reliability issues discussion), design, analysis of data, Computer application to statistics, and issues concerning reliability and validity .

Couse ID: 2305041424 **Description:** Research in Physiotherapy

Full Course Description: The purpose of this course is to provide the students with a life research experience. During this course the students will work with faculty members on a research project, giving the students the opportunity to actively participate with faculty members in innovative research experiences. This course is expected to bridge the gab between theoretical presentation of research course given earlier to the students and the real application of a research project that will allow them to better relate the scientific method of discovery to clinical practice. Each student will work with his/her faculty mentor on aspects of a project of mutual interest.

Courses Description

College: Applied Medical Sciences

Department: Physical Therapy

Course ID: 2305041441 **Description:** Physiotherapy for Chronic Pain

Full Course Description: This course provides physiotherapy students with a comprehensive, evidence-based foundation in the contemporary science and biopsychosocial management of chronic pain. Students will critically examine the evolution of pain theory, moving from early models to foundational frameworks such as the Gate Control Theory, and finally to modern, brain-centered paradigms, which explain pain in the absence of tissue damage. This theoretical grounding is linked to the underlying peripheral and central sensitization mechanisms that characterize chronicity. The curriculum equips students with practical skills to assess and manage a complex array of clinical conditions. This includes primary pain disorders like Fibromyalgia Syndrome and Myofascial Pain; neuropathic states such as Complex Regional Pain Syndrome (CRPS) and pain from central nervous system disorders; degenerative and inflammatory processes like Osteoarthritis and Rheumatoid Arthritis; and persistent pain secondary to trauma, including chronic low back/neck pain, burns, fractures, and spinal cord injuries. A dedicated focus is placed on pain in unique populations, including pediatric patients, post-surgical cases (e.g., spinal fusion), and individuals suffering from the profound psychological and physical sequelae of torture or war. Throughout, the course emphasizes the physiotherapist's vital role within a multidisciplinary team, applying a biopsychosocial lens to patient education, self-management strategies, and advanced interventions like Graded Motor Imagery to optimize rehabilitation outcomes for those living with chronic pain and disability.

Course ID: 2305041442 **Description:** Psychosocial Aspects of Physiotherapy

Full Course Description: This course introduces the general as well as specific psychological and social aspects affecting patients with physical disabilities or other diseases. It also explains methods on how to deal with patients suffering psychological issues during physical therapy treatment. This course emphasizes the importance of rehabilitation of these patients taking into consideration, family, educational and personality and illness factors.

Course ID: 2305041451 **Description:** Intensive Care and Therapeutics

Full Course Description: The course covers the theoretical knowledge necessary for the assessment and treatment of critical care patients, with a primary focus on post-operative micro-rehabilitation. The course also covers the various medications and treatments used by physical therapy patients, covering the indications for their use, their therapeutic effects, and their side effects in general, and the treatment plan and assessment in particular.

Course ID: 2305041461 **Description:** Physiotherapy for Older People

Full Course Description: This course introduces physical, social and psychological changes encounter elderly. It also discuss the arousal of age-related changes, psychosocial characteristics and special needs of the elder. Students will also be introduced to methods of assessment and physical therapy treatment plan preparation and interventions for the problems of elder individuals. Assessment of and consideration of, the continuum of services available for this population will be discussed. Adaptations of evaluation and treatment methods for elder population are also discussed.

Course ID: 2305041471 **Description:** Physiotherapy Clinical Practice (1)

Full Course Description: This training course is designed to enrich students' clinical experience through observation and hands on training and application of physical therapy process in clinical setting. This course is divided into two parts; observation and clinical treatment participation. The observation part include observation of a master clinician for the purpose of observing excellent clinical performance skills (cardiovascular/pulmonary, neurology, pediatric and musculoskeletal) of an experienced physical therapist in a specialized clinical setting. the clinical participation part include hands on training during which the student is responsible for conducting physical therapy therapeutic care plan on selected patients with the help of clinical instructor or preceptor. The student will participate in clinical evaluation and treatment; enhance knowledge, values, and skills as a practitioner; and integrate and apply course work in the clinical setting.

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Department: Physical Therapy

Course ID: 2305041472 **Description:** Physiotherapy Clinical Practice (2)

Full Course Description: This training course is designed to enrich students' clinical experience through observation and hands on training and application of physical therapy process in clinical setting. This course is divided into two parts; observation and clinical treatment participation. The observation part include observation of a master clinician for the purpose of observing excellent clinical performance skills (cardiovascular/pulmonary, neurology, pediatric and musculoskeletal) of an experienced physical therapist in a specialized clinical setting. the clinical participation part include hands on training during which the student is responsible for conducting physical therapy therapeutic care plan on selected patients with the help of clinical instructor or preceptor. The student will participate in clinical evaluation and treatment; enhance knowledge, values, and skills as a practitioner; and integrate and apply course work in the clinical setting.

Course ID: 2305041473 **Description:** Physiotherapy Clinical Practice (3)

Full Course Description: This training course is designed to enrich students' clinical experience through observation and hands on training and application of physical therapy process in clinical setting. This course is divided into two parts; observation and clinical treatment participation. The observation part include observation of a master clinician for the purpose of observing excellent clinical performance skills (cardiovascular/pulmonary, neurology, pediatric and musculoskeletal) of an experienced physical therapist in a specialized clinical setting. the clinical participation part include hands on training during which the student is responsible for conducting physical therapy therapeutic care plan on selected patients with the help of clinical instructor or preceptor. The student will participate in clinical evaluation and treatment; enhance knowledge, values, and skills as a practitioner; and integrate and apply course work in the clinical setting.

Course ID: 2305041474 **Description:** Special Topics in Physiotherapy

Full Course Description:

Course ID: 2405041221 **Description:** Kinesiology

Full Course Description: This course involves the study and analysis of the mechanics of human movement in both normal and pathological conditions, in motion and in posture. It explores the internal forces generated by muscles acting on bones and joints, as well as external forces such as gravity and acceleration. The course enhances students' ability to analyze movement to identify and correct postural or balance dysfunctions. It covers the laws of mechanics, forces, vectors, and principles of biomechanics. The course also includes gait analysis (normal and abnormal) and introduces the anatomy and movement of individual joints.

Course ID: 2405041241 **Description:** Neuromuscular Development

Full Course Description: This course explores human growth and development from conception through prenatal stages up to birth, followed by the study of postnatal motor development through adulthood and aging. Emphasis is placed on understanding the fundamental concepts of neurological development, as well as the basis of neurological disorders and motor impairments throughout the lifespan.

Course ID: 2405041323 **Description:** Pharmacology in Rehabilitation

Full Course Description: This course aims to teach students how to use medications effectively and safely within the framework of physiotherapy. Students will learn the fundamentals of pharmacology, including drug composition, sources, chemical properties, and mechanisms of action. They will also study drug interactions and their therapeutic and toxic effects. Additionally, students will learn how to understand the clinical importance of medications in physiotherapy practice and how to administer them safely without compromising patient health.

Course ID: 2405041324 **Description:** Artificial Intelligence in Physical Therapy and Rehabilitation

Full Course Description:

Courses Description

College: Applied Medical Sciences

Department: Physical Therapy

Course ID: 2405041341 **Description:** Neuroscience

Full Course Description: This course covers the physiology of the nervous system, including the analysis of neural impulses, chemical changes, and their role in understanding neurological disorders. It explores how biochemical alterations affect body functions and how these effects can be managed. The course also introduces acute and chronic neurological conditions, their medical diagnosis, and related therapeutic concepts. It is primarily theoretical, complemented by observation of selected clinical cases.□

Course ID: 2405041353 **Description:** Physiotherapy for Specialized Body Systems □ and Wounds

Full Course Description: وتThis course covers physiotherapy management of selected specialized systems of the human body, including the integumentary system (skin) in cases of burns and wounds, and peripheral circulatory disorders. It also addresses the role of physiotherapy during pregnancy and postpartum, as well as in endocrine and metabolic disorders. Emphasis is placed on understanding how these conditions affect movement and function, and on developing appropriate physiotherapy assessment and treatment approaches to enhance recovery and reduce disability

Course ID: 2405041371 **Description:** Introduction to Clinical Practice

Full Course Description: This course aims to teach students how to apply the theoretical knowledge they have gained in the classroom to a real clinical environment. Students will learn the fundamentals of clinical training, including patient communication, patient assessment, and implementing physiotherapy treatment plans. They will also learn how to handle challenges and problems that may arise during clinical training. Additionally, students will become familiar with the laws and regulations governing physiotherapy practice in clinical settings, as well as how to address ethical and legal issues. Students are required to train for 8 hours per week in various physiotherapy settings across hospitals and specialized centers, applying diagnostic techniques and treatment methods under the supervision of qualified faculty and department supervisors.

Course ID: 2405041431 **Description:** Clinical Reasoning in Physiotherapy

Full Course Description: This course develops students' understanding of clinical reasoning principles and their application in supporting therapeutic decisions during clinical practice. Students gain knowledge and skills in biopsychosocial assessment and designing patient-centered treatment programs for various functional and motor conditions. Emphasis is placed on applying clinical reasoning theory through practical sessions and simulated case presentations, enhancing both theoretical and practical skills gained in clinical training.

Course ID: 2405041471 **Description:** Specialized Clinical Practice (1)

Full Course Description: This course aims to enhance students' understanding and skills in managing neurological disorders and pediatric cases. It focuses on practical, hands-on experiences to apply theoretical concepts learned in the classroom. Students will learn appropriate clinical techniques for assessing neurological and pediatric conditions and applying a variety of therapeutic interventions such as therapeutic exercises, massage, and movement therapy to improve patient function and condition. They will also develop skills in analyzing clinical assessment data, selecting appropriate treatment programs, effective patient communication, and working within multidisciplinary healthcare teams. Students are required to train for 8 hours per week in various physiotherapy settings under qualified supervision.

Courses Description

College: Applied Medical Sciences

Department: Physical Therapy

Course ID: 2405041472 **Description:** Specialized Clinical Practice (2)

Full Course Description: This course focuses on enhancing students' skills in managing musculoskeletal disorders and injuries. Students gain hands-on experience to apply classroom theoretical knowledge to clinical practice. They learn clinical techniques for assessing musculoskeletal conditions, applying therapeutic interventions such as therapeutic exercises, massage, and movement therapy, analyzing assessment data, and selecting appropriate treatment programs. The course also develops professional communication skills and multidisciplinary teamwork. Students train for 8 hours per week in hospitals and specialized centers under qualified supervision.

Course ID: 2405041473 **Description:** Specialized Clinical Practice (3)

Full Course Description: This course develops students' understanding and skills in managing cardiopulmonary disorders and specialized body systems. It emphasizes hands-on clinical training to implement theoretical knowledge. Students learn clinical techniques to assess cardiopulmonary conditions, apply therapeutic interventions, analyze clinical data, and select suitable treatment programs. Communication, patient guidance, and teamwork with multidisciplinary healthcare professionals are emphasized. Students train for 8 hours per week under supervision in various clinical settings.

Course ID: 2405041475 **Description:** Advanced Clinical Practice (1)

Full Course Description: This course develops students' skills to a high level of professionalism in treating musculoskeletal disorders and injuries. It offers advanced practical experiences, allowing students to apply advanced concepts confidently. Training includes: □
Advanced injury and disease assessment using modern tools. □
Application of advanced therapeutic techniques such as manual therapy and modern therapeutic exercises. □
Development of individualized treatment plans for complex cases. □
Professional communication and collaboration with multidisciplinary healthcare teams. □
Encouragement of self-directed learning and research. □
Students train 12 hours per week in various clinical settings under qualified supervision. □

Course ID: 2405041476 **Description:** Advanced Clinical Practice (2)

Full Course Description: This course focuses on developing advanced skills in treating neurological disorders and injuries. It offers in-depth practical training, enabling students to apply advanced concepts confidently. Training includes: □
Advanced assessment of neurological injuries and conditions using modern tools. □
Application of advanced therapeutic interventions such as neurorehabilitation techniques and manual therapy for nerves. □
Planning and implementing individualized treatment programs. □
Professional communication and multidisciplinary teamwork. □
Self-directed learning and engagement in relevant research. □
Students train 8 hours per week under qualified supervision. □

Course ID: 2405041477 **Description:** Advanced Clinical Practice (3)

Full Course Description: This course focuses on pediatric physiotherapy, aiming to develop advanced skills in treating children with various disorders and injuries. Training includes: □
Advanced assessment techniques for children of different ages and conditions. □
Application of advanced therapeutic interventions suitable for children, including movement therapy, therapeutic exercises, and behavioral interventions. □
Effective communication with families and communities. □
Planning and implementing individualized treatment programs for each child. □
Continuous professional development through workshops, seminars, and research participation. □
Students train 8 hours per week under qualified supervision. □

Courses Description

College: Applied Medical Sciences

Department: Physical Therapy

Course ID: 2405041478 **Description:** Advanced Clinical Practice (4)

Full Course Description: This course prepares students to manage complex cardiopulmonary, burn, and surgical cases at an advanced level. Students learn: □
Comprehensive assessment of cardiopulmonary conditions. □
Designing and implementing therapeutic exercise programs tailored to each patient. □
Burn management and post-surgical patient care. □
Effective collaboration with multidisciplinary healthcare teams. □
Continuous professional development through research, workshops, and seminars. □
Students train 8 hours per week under qualified supervision. □