



**Doctor of Physical Therapy Study Plan
Version 381**

**College of Medical Rehabilitation
Physical Therapy Department**



Study plan General frame:

Requirements المتطلبات		No of credit hour عدد الوحدات	Percent النسبة المئوية	Percentage (%) النسبة المئوية	
University Requirements متطلبات الجامعة		12	6%	40.5	
College Requirements متطلبات الكلية	Compulsory اجباري	63	31.5%		
	Elective اختياري	6	3%		
Department Requirements متطلبات القسم	Compulsory courses Not from PT department اجباري من خارج القسم		21	10.5%	56.5
	From PT department من داخل القسم	Compulsory اجباري	80	40%	
		Elective اختياري	12	6%	
Free Courses المقررات الحرة		6	3%	3	
Total المجموع		200	100%	100%	

Distribution of courses all over the levels

First Year Courses:

First semester:

المتطلب	توزيع الوحدات الدراسية				Course Title	اسم المقرر	Course Code (اللغة الإنجليزية)	رقم ورمز المقرر (اللغة العربية)
	المعتمد	تدريب Clinical	عملي Practical	نظري Theoretical				
-	0	0	8*	0	Preparatory English (1)	لغة إنجليزية تحضيرية (1)	ENG 0011	0011 نجل
-	2	0	1	1	Statistics	إحصاء	STAT 100	100 احص
-	2	0	1	1	Physics (1)	فيزياء (1)	PHYS 110	110 فيز
-	4	0	2	2	Computer Skills	مهارات الحاسب	CSC 105	105 عال
-	2	0	0	2	Thinking Skills and Learning Styles	مهارات التفكير وأساليب التعلم	PSYCH 101	101 نفس
-	10	0	4	6	المجموع			

Second semester:

المتطلب	توزيع الوحدات الدراسية				Course Title	اسم المقرر	Course Code (اللغة الإنجليزية)	رقم ورمز المقرر (اللغة العربية)
	المعتمد	تدريب Clinical	عملي Practical	نظري Theoretical				
0011 نجل	0	0	5*	0	Preparator y English (2)	لغة إنجليزية تحضيرية (2)	ENG 0012	0012 نجم
0011 نجل	2	0	2	0	English for Health Professions	لغة إنجليزية للممارسين الصحيين	ESP 101	101 نجلت
-	4	0	1	3	Human Biology	علم الأحياء البشري	BHS 111	111 عسس
-	3	0	1	2	Introductio n to Biochemist ry	مقدمة إلى الكيمياء الحيوية	MDL 111	111 مدل
-	2	0	0	2	Ethics of Medical Professions	أخلاقيات المهن الطبية	PSH 115	115 صحة
-	2	0	0	2	Health Profession Education and Communic ation Skills	مهارات الإتصال والتعليم الصحي المهني	MEDU 111	111 تطلب
	13	0	4	9	المجموع			

Second Year Courses:

سنة	متطلب	توزيع الوحدات الدراسية				Course Title	اسم المقرر	Course Code (اللغة الإنجليزية)	رقم ورمز المقرر (اللغة العربية)
		المعتمد	تدريب Clinical	عملي Practical	نظري Theoretical				
-	-	2	0	0	2	Introduction to Islamic Culture	المدخل الي الثقافة الإسلامية	IC 101	101 سلم
-	-	2	0	0	2	Linguistic Skills	المهارات اللغوية	ARAB 101	101 عرب
√	-	6	0	2	4	Anatomy (1)	علم التشريح (1)	ANAT 210	210 شرح
-	-	3	0	1	2	Principles of Medical Microbiology	مبادئ الأحياء الدقيقة الطبية	EDPT 211	211 دعط
-	-	3	0	1	2	Biochemistry (1)	الكيمياء الحيوية (1)	BCH 212	212 كيج
√	-	5	0	1	4	Physiology (1)	علم وظائف الأعضاء (1)	PHSL 213	213 فصل
-	-	2	0	0	2	Histology	علم الأنسجة	ANAT 214	214 شرح
-	-	2	0	0	2	Introduction to Medical Rehabilitation	مقدمة في التأهيل الطبي	EDPT 230	230 دعط
-	-	2	0	0	2	Growth and Development	التطور والنمو	ANAT 231	231 شرح
-	-	2	0	0	2	Health Care System	نظام الرعاية الصحية	HLTH 240	240 صحة
-	101 سلم	2	0	0	2	Islam and Community Building	الإسلام و بناء المجتمع	IC 102	102 سلم
-	-	2	0	0	2	Arabic Writing	التحرير العربي	ARAB 103	103 عرب
		33		5	28	المجموع			

Third Year Courses:

سنة	متطلب	توزيع الوحدات الدراسية				Course Title	اسم المقرر	Course Code (اللغة الإنجليزية)	رقم ورمز المقرر (اللغة العربية)
		المعتمد	تدريب Clinical	عملي Practical	نظري Theoretical				
-	101 سلم	2	0	0	2	Economic System in Islam	النظام الإقتصادي في الإسلام	IC 103	103 سلم
-	-	3	0	1	2	Biochemistry (2)	الكيمياء الحيوية (2)	BCH 315	315 كيج
√	-	7	0	2	5	Anatomy (2)	علم التشريح (2)	ANAT 316	316 شرح
√	-	5	0	1	4	Physiology (2)	علم وظائف الأعضاء (2)	PHSL 317	317 فصل
-	-	2	0	0	2	Biophysics	الفيزياء الحيوية	EDPT 332	332 دعط
-	-	1	0	0	1	Introduction to Pathology	مقدمة في علم الأمراض	MDL 318	318 مدل
-	101 سلم	2	0	0	2	Fundamentals of Political System in Islam	أسس النظام السياسي في الإسلام	IC 104	104 سلم
-	-	4	0	1	3	Introduction to Physical Therapy Skills	مقدمة في مهارات العلاج الطبيعي	EDPT 321	321 دعط
-	-	4	0	2	2	Therapeutic Exercises	التمرينات العلاجية	EDPT 322	322 دعط
-	-	2	0	0	2	Exercise Physiology	فسيولوجيا التمرينات	EDPT 323	323 دعط
-	-	2	0	0	2	Biomechanics	الميكانيكا الحيوية	EDPT 324	324 دعط
-	-	2	0	0	2	Pathology	علم الأمراض	MDL 319	319 مدل
		36	0	7	29	المجموع			

Fourth year Course:

سنة	متطلب	توزيع الوحدات الدراسية				Course Title	اسم المقرر	Course Code (اللغة الإنجليزية)	رقم ورمز المقرر (اللغة العربية)
		المعتمد	تدريب Clinical	عملي Practical	نظري Theoretical				
-	-	3	0	1	2	Manual Therapy	العلاج اليدوي	EDPT 3425	425 دعط
-	-	5	0	2	3	Physical Agents	الوسائل العلاجية	EDPT 426	426 دعط
-	-	3	0	1	2	Department elective (Group 1) Applied Kinesiology	مقرر اختياري قسم مجموعة (1) علم الحركة التطبيقي	EDPT 427 EDPT 428	427 دعط 428 دعط
-	-	3	0	0	3	Gait and Locomotion Analysis Pharmacology for Physical Therapy	تحليل المشي والحركة علم الأدوية للعلاج الطبيعي	PHG 435	435 دوي
-	-	2	0	0	2	Diagnostic Imaging	الأشعة التشخيصية	EDPT 436	436 دعط
√	-	7	0	2	5	Musculoskeletal	العظام والعضلات	EDPT 451	451 دعط
√	-	3	3	0	0	Clinical practice in Musculoskeletal	الممارسة الإكلينيكية للعظام والعضلات	EDPT 452	452 دعط
-	-	1	0	0	1	Department elective (Group 2) Ergonomics Industrial Physical Therapy	مقرر اختياري قسم مجموعة (2) دراسات بيئة العمل العلاج الطبيعي في البيئة الصناعية	EDPT 433 EDPT 434	433 دعط 434 فدعط
-	-	2	0	1	1	College elective (Group 1)	مقرر اختياري كلية	HLTH 441	441 صحة

						Emergency and first Aid	(مجموعة 1) الطوارئ و الإسعافات الأولية الأزمات و إدارة الكوارث	HLTH 442	442 صحة
						Crises and Disaster Management			
						College elective (Group 2)	مقرر اختياري كلية	HLTH 443	443 صحة
						Principles of Administration in Medical Field	(مجموعة 2) (مبادئ الإدارة في المجال الطبي	HLTH 444	444 صحة
-	-	2	0	0	2	Documentatio n in Medical Rehabilitatio n	التوثيق في التأهيل الطبي		
						Department elective (Group 3)	مقرر اختياري قسم (مجموعة 3)	EDPT 453	453 دعط
						Advanced Topics in Physical Therapy for Sport Injuries	(3 مواضع متقدمة في العلاج الطبيعي لإصابات الملاعب	EDPT 454	454 دعط
						Spinal and Peripheral Joints Manipulation	تحريك العمود الفقري والمفاصل الطرفية		
-	-	2	0	0	2	Clinical Nutrition	تغذية علاجية	CNUT 460	460 تغذع
		35	3	7	25	المجموع			

Fifth Year Courses:

سنوي	متطلب	توزيع الوحدات الدراسية				Course Title	اسم المقرر	Course Code (اللغة الإنجليزية)	رقم ورمز المقرر (اللغة العربية)
		المعتمد	تدريب Clinical	عملي Practical	نظري Theoretical				
-	-	2	0	0	2	Introduction to Prosthetics and Orthotics	مقدمة إلى الأطراف الصناعية والأجهزة التعويضية	PROS 537	537 طرف
-	-	2	0	0	2	Rehabilitation Psychology	علم نفس التأهيل	EDPT 538	538 دعط
-	-	2	0	0	2	Evidence Based Practice	الممارسة المبنية على البراهين	HLTH 545	545 صحة
-	-	2	0	0	2	Department elective (Group 4)	مقرر اختياري قسم (مجموعة 4)	EDPT 555	555 دعط
-	-	2	0	0	2	Electro-diagnosis	أساليب التقييم باستخدام الوسائل الكهربائية	EDPT 556	556 دعط
-	-	3	0	1	2	Advanced Topics in Measurement's Tools in Physical Therapy	مواضيع متقدمة في أدوات القياس في العلاج الطبيعي	EDPT 561	561 دعط
-	-	2	2	0	0	Physical Therapy for Surgical Conditions and Burns	العلاج الطبيعي في الجراحات والحروق	EDPT 562	562 دعط
-	-	2	2	0	0	Clinical Practice in Physical Therapy for Surgical Conditions and Burns	ممارسة إكلينيكية للعلاج الطبيعي للجراحات والحروق		

-	-	2	0	0	2	Free Course	مقرر حر	XXXX	XXXX
-	-	3	0	1	2	Woman's Health	صحة المرأة	EDPT 563	563 دعط
-	-	1	1	0	0	Clinical Practice in Physical Therapy for Women's Health	ممارسة إكلينيكية في العلاج الطبيعي لصحة المرأة	EDPT 564	564 دعط
-	-	2	0	0	2	College elective (Group 3) Health and Wellness Biostatistics	مقرر إختياري كلية (مجموعة 3) الصحة البدنية والنفسية الإحصاء الحيوي	HLTH 546 STAT 547	546 صحة 547 إحص
-	-	3	0	1	2	Research Methods and Technologies	طرق و تقنيات البحث العلمي	HLTH 548	548 صحة
-	-	2	0	2	0	Independent Study	دراسة حرة	EDPT 549	549 دعط
-	-	4	0	1	3	Cardiopulmonary	القلب و الجهاز التنفسي	EDPT 565	565 دعط
-	-	4	0	1	3	Geriatrics	المسنين	EDPT 566	566 دعط
-	-	2	2	0	0	Clinical Practice for Cardio-pulmonary and Geriatrics	ممارسة إكلينيكية للقلب والمسنيين	EDPT 567	567 دعط
-	-	2	0	0	2	Free Course	مقرر حر	XXXX	XXXX
		38	5	7	26	المجموع			

Sixth Year Courses:

سنوي	متطلب	توزيع الوحدات الدراسية				Course Title	اسم المقرر	Course Code (اللغة الإنجليزية)	رقم ورمز المقرر (اللغة العربية)
		المعتد	تدريب Clinical	عملي Practical	نظري Theoretical				
-	-	2	0	0	2	Psychiatry	أمراض نفسية	PSYCH 539	539 نفس
-	-	2	0	0	2	Acute Care	الرعاية الحرجة	EDPT 568	568 دعط
-	-	3	0	0	3	Differential Diagnosis	التشخيص التفريقي للأمراض	EDPT 569	569 دعط
√	-	8	0	2	6	Neuromuscu lar	العضلات والأعصاب	EDPT 571	571 دعط
√	-	3	3	0	0	Clinical Neuromuscu lar	ممارسة إكلينيكية للعضلات والأعصاب	EDPT 572	572 دعط
√	-	8	0	2	6	Pediatrics	أطفال	EDPT 573	573 دعط
√	-	3	3	0	0	Clinical Practice for Pediatrics	ممارسة إكلينيكية للأطفال	EDPT 574	574 دعط
-	-	2	0	0	2	Department elective (Group 5) Advanced Topics in Physical Therapy for Neurological Disorders Advanced Topics in Spasticity Control	مقرر اختياري قسم (مجموعة 5) مواضيع متقدمة في العلاج الطبيعي لأمراض الجهاز العصبي مواضيع متقدمة في التحكم في زيادة نغمة العضلة	EDPT 575 EDPT 576	575 دعط 576 دعط
-	-	2	0	0	2	Department elective (Group 5) Advanced Topics in Pediatric Rehabilitatio n	مقرر اختياري قسم (مجموعة 6) مواضيع متقدمة في تأهيل الأطفال تأهيل التوازن	EDPT 577 EDPT 578	577 دعط 578 دعط

						Vestibular Rehab- ilitation			
-	-	2	0	0	2	Free Course	مقرر حر	XXXX	XXXX
		35	6	4	25	المجموع			

Courses' Description:

Anatomy 1; ANAT 210: 6 hr (4+2)

This course presents a systemic approach to the study of the human body anatomy. It enforces the application of knowledge learned in real life situations, critical analysis, and the use of a wide range of resources to accommodate the different needs of the student. The laboratory component of the course generally parallels and reinforces lecture concepts through the use of models, skeletal materials and cadaver demonstration.

Histology; ANAT 214: 2hr (2+0)

This course is an integrated presentation of the principles of functional histology. It concentrates on the cell, its components & different types of tissues. It enforces the application of knowledge learned in real life situations, critical analysis, and use of a wide range of resources to accommodate the different needs of the student.

Physiology-1; PHSL 213: 5hr (4+1)

This course is aimed to understand the basis of various physiological functions of the cells and different body systems. Furthermore, these systems will be studied with the aim of enhancing the concept of integrative physiology, and explain how the functions of these systems are interrelated. This course also will provide the necessary physiological background for other professional courses that rely on physiology.

Biochemistry I; MDL 212: 3hr (2+1)

The course aims to make the students understand what is Biochemistry, its relationship to nutrition, medicine and other branches of science. The students will understand various biological macromolecules like carbohydrates, proteins, amino acids lipids and nucleic acids. Structure and functional relationship of the biological macromolecules will also be made clear.

Principles of Medical Microbiology; MDL 211: 3hr (2+1)

This course introduces the concept of microbiology. It introduces Diversity of Microorganism & their metabolism. Knowledge about Major Bacterial Diseases of Human. It helps students to release body defenses and the immune responses and apply this understanding to the infectious disease process as well as the prevention and control of infectious diseases. It allows them to apply staining methods & plating and media preparation.

Growth & Development; ANAT 231: 2hr (2+0)

This course is an undergraduate course that covers general principles relating to growth and development of the major body systems as related to

physical therapy management. It entails the transition from cells to tissues and organismal biology. Among the major themes of study are reproduction and early development, which are integrated into physiotherapy studies. Also, this course will cover the different aspects of motor, cognitive and speech development as well as the theories of human development.

Introduction to Medical Rehabilitation; EDPT 230: 2hr (2+0)

This course provides students with an introduction to the profession of rehabilitation services. The course covers the history, philosophy, and legal basis for rehabilitation services and independent living programs. Roles of the rehabilitation professional are also emphasized. An overview of the rehabilitation process and employment opportunities will be presented.

Health Care System; HLTH 240: 2hr (2+0)

This course provides the students with an in-depth understanding of modes of health care delivery, health care management information systems, financing, quality measures. It improves the student understanding for Quality and its application in Health Care Services.

Anatomy 2; ANAT 316: 7 hr (5+2)

This course presents a systemic approach to the study of the human body anatomy. It enforces the application of knowledge learned in real life situations, critical analysis, and the use of a wide range of resources to accommodate the different needs of the student. The laboratory component of the course generally parallels and reinforces lecture concepts through the use of models, skeletal materials and cadaver demonstration.

Physiology 2; PHSL317: 5 hr (4 + 1)

This subject is designed to study the way the body interacts with the environment via the muscular and nervous systems moreover the principle of cardiovascular physiology will be discussed in this course. Overall, the material presented will explain the mechanisms of controlling movements, recording and interpretation of sensations and how our bodies communicate with the external environment. There is also an emphasis on the clinical aspects of neuromuscular and cardiovascular conditions.

Biochemistry II; MDL 315: 3hr (2+1)

The whole course is designed in a way to make the students understand various metabolic pathways employed in carbohydrate, protein and lipid catabolism and anabolism. The relevance of these pathways in the diseases caused due to deficiency of enzymes or surplus of any metabolite thereof. Emphasis is also laid on the understanding of metabolic derangements in relation to liver, blood and muscular disorders.

Biophysics; EDPT 332: 2hr (2+0)

The course will explain how to use physics to define and solve problems that concern several aspects in our lives specially that concern our health (diagnostic and therapeutic).

Introduction to Pathology; MDL338: 1hr (1+0)

This course will provide the students with the general concept of introduction to Pathology. That will be discussed with appropriate reference to the general pathologic process due to cellular stress. An organized system review of the basics of the commonest diseases with adequate insight into cell injury and cell death, acute and chronic inflammation, disorders of growth and development, neoplasia, as well as ageing.

Introduction to Physical Therapy Skills; EDPT 321: 4hr (3+1)

This course introduces the students to the processes of evaluation by helping them to start evaluating the muscle strength of upper and lower limb neck and trunk muscles, range of motion of all joints of the body and the long and circumference measurement of upper and lower limbs.

Therapeutic Exercises; EDPT 322: 4hr (2+2)

This course provides students with the opportunity to apply and analyze therapeutic exercise techniques in order to formulate exercise programs for diverse patient and client populations. Students will be encouraged to discuss and build upon their knowledge of basic therapeutic techniques attained from previous coursework and clinical training experiences.

Exercise physiology; (EDPT 323): 2hr (2+0)

The aim of this course is to identify the principles by which exercise and human movement affect human physiology, the physiological adaptations to exercise and training, the influence that human physiology has on exercise and movement capacity as well as the regulation of exercise performance.

Biomechanics; EDPT 324: 2hr (2+0)

This course provides the student with understanding of physical therapy analysis of biomechanical principles of human body with emphasis on the relationships among movement, structure, and force. This course is designed to develop in students a working knowledge of human motion.

Pathology; MDL339: 2hr (2+0)

This course is a continuum of the course of introduction to pathology that will provide the students with the general concept of Pathology. That will be discussed with appropriate reference to the general pathologic process due to cellular stress. An organized system review of the basics of the commonest

diseases with adequate insight into cell injury and cell death, acute and chronic inflammation, disorders of most body systems.

Manual Therapy; EDPT 425: 3hr (2+1)

This course provides the students basic knowledge, physiological effects, indications, contraindications and application of mobilization and manipulation of spine and extremities joints, myofascial release, medical massage, acupuncture, reflexology, Shiatzu and under water exercises.

Physical Agents; (EDPT 426): 5hr (3+2)

The aim of the course is to build up knowledge and skills necessary for the utilization of electro-therapy and hydrotherapy modalities and to be capable of using advanced electronic machinery in conducting different techniques of hydrotherapy and electrotherapy necessary for competent practice and lifelong professional development.

Applied Kinesiology; EDPT 427: 3hr (2+1)

This course provides the students the basic information about of kinetic and kinematic analysis of different body segments as well as pathomechanics that may occur. Also, this course covers the analysis of gait and different gait abnormalities, and provides an opportunity for students to gain exposure to current issues and explore future trends within the field of Kinesiology.

Gait and locomotion analysis; EDPT 428: 3hr (2+1)

This course deals with the mechanics of human motion from a functional anatomy perspective. Special emphasis will be on the nature of the musculoskeletal system, differences between normal and abnormal posture, as well as analysis of gait (locomotion).

Diagnostic Imaging; (RAD 436): 2hr (2+0)

This course provides students with the opportunity to analyze radiological studies including x-ray, MRI, and CT scan. Emphasis is given on the skeletal, central nervous and cardiopulmonary systems. Students will Read and interpret normal and abnormal radiological films.

Musculoskeletal; EDPT 451: 7hr (5+2)

This course is designed to provide students with the basic knowledge, fundamental concepts of musculoskeletal system. This course will assist students in acquiring knowledge and skills to assess pathological conditions of musculoskeletal system. This course enables the student to establish for patients with musculoskeletal diseases, disorders, or conditions: 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 status. 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.

Clinical Practice in musculoskeletal; EDPT 452: 3hr (0+3)

This course is a full-time clinical course in which the students are allowed to observe & apply full (100 %) supervision appropriate management to different musculoskeletal patients. This course provides the students with basic practical skills in musculoskeletal cases. It helps students to develop proper evaluative skills to recognize the deviation from normal position. It allows them to practice different management procedures for specific cases. It allows them to apply different Safety & infection control measures related to outpatient.

Pharmacology for Physical Therapy; PHG435: 3hr (3+0)

This course covers basic pharmacology and its relevance to the practice of physical therapy. In addition, it provides the basic knowledge about commonly used groups of drugs affecting different body systems and their implications in therapy of disease and health promotion. Furthermore, it enables students to understand the safe use of drugs as regards adverse effects, contraindications and drug interactions.

Ergonomics; EDPT 433: 1hr (1+0)

The course will explore basic ergonomic principles and how to identify common ergonomic problems that may exist in an Occupational environment. Course emphasis includes case studies and exercises involving ergonomic analysis and development of ergonomic improvements for both industrial and office applications.

Industrial physical therapy; EDPT 434: 1hr (1+0)

This course will present evidence-based information and strategies to bridge clinical gaps between the Ergonomics (Engineering and industrial work) and Physical Therapy (musculoskeletal) domains. This course is designed to increase the clinician's understanding of ergonomics and ergonomic applications to the clinical treatment model. The course will describe how clinicians may significantly enhance their treatment outcomes by including some basic ergonomics strategies in their treatment regimen.

Emergency and First Aid: HLTH 441; 2hr (1+1)

This course is aimed to understand knowledge of first aid procedures and how to apply them to real-world scenarios. Student will learn their legal responsibilities as a first aid provider, how to identify different types of medical

emergencies and the proper steps to take, and how to react in specific environmental conditions like extreme heat and cold.

CRISES & DISASTER MANAGEMENT; HLTH 442: 2hr (1+1)

The course is intended to provide a general concept in the dimensions of disasters caused by nature beyond the human control as well as the disasters and environmental hazards induced by human activities with emphasis on disaster preparedness, mitigation, response, triage and recovery.

Principles of Management and Administration in Medical Fields; HLTH 443: 2hr (2+0)

This course is designed to provide students with the basic knowledge of principles of management and administration in medical fields. Responsibilities of the Physical Therapy Manager, address each of the core responsibilities of health-care management: vision, mission, and goals; policies and procedures; marketing; staffing; patient care; fiscal; legal and ethical; risk management; and communication.

Documentation in medical rehabilitation; HLTH 444: 2hr (2+0)

This course is designed to enable the students to accurately and efficiently record the episode of care of the patient/client. With Describing typical challenges therapists have in clinical documentation and identify activities to facilitate efficient and effective documentation skills.

Advanced topics in PT for sports injuries; EDPT 453: 2hr (2+0)

This course is designed to provide students with the basic knowledge, types, mechanism and etiology of injuries, clinical examination, basic imaging techniques and skills to prevent and manage sports injuries. It addresses the evaluation procedures necessary to effectively assess sports injuries. It covers background and advanced era in dealing with sports injuries from first aid care to rehabilitation. The treatment principles and procedures necessary to effectively restore function.

Spinal and peripheral joints manipulation; EDPT 454: 2hr (2+0)

This course provides students with the opportunity to identify and analyze manual techniques in order to formulate exercise programs for diverse patient and client populations. Identify indication, contraindication, advantage, disadvantage and precaution for mobilization and manipulation. Students will evaluate, set goals, develop therapeutic exercise programs and measure outcomes.

Clinical Nutrition; CNUT 460: 2hr (2+0)

This course introduces the students to basic knowledge about normal balanced diet, mal nutrition and giving them the ability to formulate a therapeutic diet for normal as well as sick people.

Introduction to Prosthetics and Orthotics; PROS 537: 2hr (2+0)

This course introduces the students to basic knowledge about prosthetics and orthotics including prescription, indication, contraindication, design and fabrication. In addition, this course gives the students the ability to differentiate between different types and uses of orthosis and prosthesis.

Rehabilitation Psychology; EDPT 538: 2hr (2+0)

This course covers the psychological principles that can be used in rehabilitation. Psychosocial issues related to physical therapy such as mental health, patient- therapist communication, the role of family and friends, and the effect of disability on the psychological status are also covered.

Evidence based physical therapy practice; EDPT 545: 2hr (2+0)

This course is designed to provide the student with knowledge and hands-on experience in skills required to engage evidence-based clinical practice of physical therapy. Students will learn how to write answerable questions, search the literature, and critically analyze evidence for application in clinical practice. It will prepare students to critically evaluate theories, concepts, and methods relevant to the review, analysis, synthesis, and application of scientific evidence to Physiotherapy and interprofessional healthcare practice.

Electro diagnosis; EDPT 555: 2hr (2+0)

This course is designed to help the students to identify the required physiological and anatomical basis for electro- diagnostic techniques and describe efficiently normal and abnormal findings of different neuromuscular disorders using electro diagnostic examinations.

Advanced topics in measurement's tools in physical therapy; EDPT 556: 2hr (2+0)

This course introduces the student to the advanced procedure of evaluation techniques, with selection of the best techniques for different clinical problems. Giving them the ability to analyze the clinical data obtained from advanced evaluation procedures.

Physical therapy for surgical conditions and burns; EDPT 561: 3hr (2+1)

This course provides the students the knowledge of skin structures and function, the underlying mechanisms, pathology, clinical picture and concepts of burn, different types, degrees and complications of burn as well as phases of

wound healing and abnormal healing. The students will be enriched with the basic concepts, knowledge, and skills that provide the scientific base, upon which a practical problem-solving ability can be developed for managing various burn and surgery cases from the physical therapy point of view. The students will be also trained in the practical aspects related to different physical therapy tools for treating patients with burn and surgery.

Clinical Practice in physical therapy for surgical conditions and burns; EDPT 562: 2hr (0+2)

This course is a full-time clinical course in which the students are allowed to observe & apply full (100 %) supervision appropriate management to different surgical conditions and burns patients. This course provides the students with basic practical skills in surgical and burns cases. It helps students to develop proper evaluative skills to recognize different surgical interventions. It allows them to practice different management procedures for specific cases of burn. It allows them to apply different Safety & infection control measures related to surgical and burn cases Inpatient.

Women's Health; EDPT 563: 3hr (2+1)

This course provides the students basic knowledge of etiology, pathology, and clinical picture, medical management of common obstetrics & Gynecology conditions. It allows the student to recognize physical therapy in Obstetrics and Gynecology & how to apply proper management for different patients.

Clinical Practice in physical therapy for Women's health; EDPT 564: 2hr (0+2)

This course is a full-time clinical course in which the students are allowed to observe & apply full (100 %) supervision appropriate management to different obstetric & gynecologic patients. In this course students will be allowed to obstetric & gynecologic Hospital, where they can deal with both In & out patients. Clinical sites will provide adequate opportunities for students to practice different evaluative & treatment procedures with the permission of the patient. These clinical experiences will also expose the students to a variety of age groups and levels of patient care, & let them apply proper safety control measures

Health & Wellness; HLTH 546: 2hr (2+0)

This course is designed for college students to understand the need and assume the responsibility for maintaining a healthful lifestyle. This course is designed to deal with issues that are crucial to students' personal lives are examined with an emphasis on the relationship between lifestyle and health. The course enables students to deal more effectively with the health problems faced during the college experience, and subsequently throughout life. These issues may include stress, nutrition, mental health and illness, aging, chronic and

communicable disease, drug and alcohol use, and dealing with death, and other selected topics.

Biostatistics; HLTH 547: 2hr (2+0)

This course provides students with useful methods for analyzing categorical data. Topics: Cross-classification tables, tests for independence, log-linear models, Poisson regression, ordinal logistic regression, and multinomial regression for the logistic model.

Research's Methods and Technology; HLTH 548: 3hr (2+1)

The course addresses the philosophical basis of research, different methodological approaches (quantitative and qualitative), designs, and research process in the field of physical therapy. The course develops the student's ability to produce a detailed research proposal in consideration of the ethical, social, political, and economic aspects of research. The students will develop their critical appraisal skills and the different approaches of data analysis, presentation skills in the form of poster and oral will also be introduced. The students will learn how to write a project, starting from finding a problem and an approach to solve it through applicable research methods. The referencing methods and the search for citation of appropriate topics will be discussed. Moreover, the students will be made aware of various techniques involved to collect data and data analysis.

Independent Study; EDPT 549: 2hr (0+2)

The course involves students planning and conducting a research project under the supervision of academic staff. Students will be required to perform all aspects of research required for completion of the project, which may include gaining ethics approval, patient recruitment, data collection and statistical analysis. Students will write a research report in the form of manuscript for a peer-reviewed journal.

Cardiopulmonary; EDPT 565: 4hr (3+1)

This course designed to give students the knowledge and background to allow them to evaluate and treat patients with cardiopulmonary diseases. Students learn about the most common techniques used in cardiopulmonary system evaluation and treatment. Emphasis is placed on the components of physical therapy practice – screening, examination, evaluation, diagnosis, prognosis, development of a plan of care, intervention, and evaluations of outcomes. Students will learn the evaluation and management of patients with acute and chronic cardiac and pulmonary impairments. 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, and lifestyle.

Geriatrics; EDPT 566: 4hr (3+1)

Geriatric physical therapists help to restore mobility and reduce pain in elderly individuals who are suffering from disease or undergoing the normal aging process. Physical therapy for internal medicine allows students to understand the basic principles of physical therapy theories for common vascular and metabolic disorders. These courses combine classroom work and hands-on training through laboratory exercises.

Clinical Practice for cardiopulmonary and Geriatrics; EDPT 567: 2hr (0+2)

This course is a full-time clinical course in which the students are allowed to observe & apply full (100 %) supervision appropriate management to different cardiopulmonary and Geriatrics patients. In this course students will be allowed to general Hospital. Clinical sites will provide adequate opportunities for students to practice pre & post-operative cardiac patients evaluative & treatment procedures with the permission of the patient. Students will deal with different geriatric cases & patients suffering from different pulmonary dysfunction after taking the patient approval. These clinical experiences will also expose the students to a variety of age groups and levels of patient care, & let them apply proper safety control measures

Psychiatry; EDPT 539: 2hr (2+0)

This course describes the common psychiatric disorders encountered by Physical Therapy, in terms of etiology, signs, symptoms, course and prognosis. Emphasis will be on physical functions of the body. Emphasis will be on how to plan, implement and evaluate a physiotherapy program for patients with these psychiatric disorders.

Acute Care; EDPT 568: 2hr (2+0)

This course introduces the basic knowledge of the role of physiotherapy in intensive care unit. This course focuses on the concepts and principles of dealing with emergency cases, body injuries, burn cases, wound and cardiovascular problem cases. It addresses the evaluation procedures necessary to effectively assess patients in acute care. The treatment principles and procedures necessary to effectively restore function in acute care patient.

Differential diagnosis; EDPT 569: 3hr (3+0)

The main purpose of this course is to prepare the students to recognize client problems that are beyond the expertise of a physical therapist, and to make the appropriate decision regarding the next step of referral. This level of differential diagnosis requires the students to effectively compare and contrast

neuromuscular signs and symptoms with those of possible systemic origin. Clinical manifestations of the more common disorders of organ systems will be reviewed and as well as how they might mimic dysfunction of the neuromuscular system. The students will develop proficiency in: systems screening, differential interviewing strategies, risk factors and red flag recognition.

Neuromuscular; EDPT 571: 8hr (6+2)

This course provides the students the basic information about definitions and medical background of different neurological conditions and physical therapy assessment and practical applications for each one. Special emphasis on applying different evaluative procedures and therapeutic techniques and to use critical thinking skills to provide the evidence-based practice. Students must progress and modify treatment according to patient progress.

Clinical neuromuscular; EDPT 572: 3hr (0+3)

This course provides the students the basic practical principles of different neurological and neurosurgical conditions and physical therapy assessment and practical applications for each one. Special emphasis on applying different evaluative procedures and therapeutic techniques and to use critical thinking skills to provide the evidence-based practice. Students must adequately plan and modify treatment program according to problem list of each case.

Pediatrics; EDPT 573: 8hr (6+2)

This course will provide the students with the basic knowledge of normal growth and development since birth and the possible developmental and genetic disorders as well as the common surgical procedures for different pediatric disorders encountered by Physical therapy. The course also will cover the basic physical therapy approaches and techniques that enable the students to evaluate, diagnose, design and apply the proper plan of care for different pediatric and pediatrics' surgeries disorders.

Clinical Practice in physical therapy for Pediatrics; EDPT 574: 3hr (0+3)

This course is a full-time clinical course in which the students are allowed to observe & apply full (100 %) supervision appropriate management to different pediatric patients. In this course, students will be allowed to pediatric physical therapy Hospital. Clinical sites will provide adequate opportunities for students to practice the skills different evaluative & treatment procedures with the permission of the patient. These clinical experiences will also expose the students to a variety of age groups and levels of patient care, & let them apply proper safety control measures.

Advanced topics in Physical therapy for neurological disorders; EDPT 575: 2hr (2+0)

This course provides the students the basic information about medical background of selected neurological and neurosurgical topics and recent advances of physical therapy assessment and practical applications for each one. Special emphasis on applying different evaluative procedures and therapeutic techniques and to use critical thinking skills to provide the evidence-based practice.

Advanced topics in spasticity control; EDP T 576: 2hr (2+0)

This course provides the students the basic information about medical background of spasticity and physical therapy assessment and practical applications for each spastic conditions. Special emphasis on applying different evaluative procedures and therapeutic techniques and to use critical thinking skills to provide the evidence-based practice.

Advanced Topics in Pediatric Rehabilitation; EDPT 577: 2hr (2+0)

This course provides the students in depth study for specific pediatric cases and new physical therapy modalities. It improves the student understanding for motor learning strategies & how to improve learning. It helps students to recognize Selected diagnostic and treatment topics used in physical therapy. It helps student to correlate what he studied in orthopedic & internal to pediatric cases & realize the difference between pediatric patient & adults in different management modalities.

Vestibular Rehabilitation; EDPT 578: 2hr (2+0)

This course provides the students in depth study for vestibular rehabilitation in pediatric cases. It improves the student understanding for vestibular dysfunction & its effect on the child development. It helps students to develop an understanding for management of vestibular dysfunction in children.