



**PHYSICAL THERAPY
MANUAL
2014-2015**

Physical Therapy Program



The College of Applied Medical Sciences was established in 2009 to meet the need in the Kingdom of Saudi Arabia for skilled health care professionals. It aims to prepare qualified, autonomous and competent graduates to match the highly developed and sophisticated health systems in the Kingdom and to employ recent scientific and technical developments in health care delivery. The College of Applied Medical Sciences encompasses five academic departments offering different courses including Department of Physical Therapy and Health Rehabilitation that offers Bachelor Degree in Physical Therapy.

The Department prepares graduates to be knowledgeable, service-oriented, collaborative, reflective practitioners. They render evidence based, independent judgments concerning patient/client needs by virtue of critical thinking, commitment to lifelong learning, and ethical values. They possess the intellect, psychomotor proficiency and core values to meet the current and future needs of the profession and the health care system. The acquired qualification enables graduates of the Program to professionally practice as Physical Therapist in public and private hospitals and rehabilitation setup or to start their own practice after completing the licensing procedures with the professional bodies in the kingdom. Graduates of the Bachelor's Study Program of Physical Therapy can continue in postgraduate studies or Doctor of

Physical Therapy Program at other universities in the Kingdom or seek for academic career in foreign universities.

The curriculum practiced at the department of Physical Therapy represents a confluence of ideas from many relevant sources and maintain consistency with employment needs nationally and internationally. While providing the core knowledge in the respective disciplines it remains consistent with international standards and guidelines and retains it harmony with the practices of the Saudi Council for Health Specialties.

Physical therapy involves the interaction between therapist(s), patients or clients, other health care professionals, families, care givers, and communities in a process where movement potential is assessed and diagnosed and goals are agreed upon. PTs are healthcare professionals who diagnose and treat individuals of all ages, from newborns to the very oldest, who have medical problems or other health-related conditions, illnesses, or injuries that limit their abilities to move and perform functional activities as well as they would like in their daily lives. PTs use an individual's history and physical examination to arrive at a diagnosis and establish a management plan and, when necessary, incorporate the results of laboratory and imaging studies. PT management commonly includes prescription of or assistance with specific exercises, manual therapy, education, manipulation and other interventions. In addition, PTs work with individuals to prevent the loss of mobility before it occurs by developing fitness and wellness-oriented programs for healthier and more active lifestyles, providing services to individuals and populations to develop maintain and restore maximum movement and functional ability throughout the lifespan. This includes

providing therapeutic treatment in circumstances where movement and function are threatened by aging, injury, disease or environmental factors. Functional movement is central to what it means to be healthy.

Physical therapy is a professional career which has many specialties including sports, neurology; wound care, EMG, cardiopulmonary, geriatrics, orthopedic and pediatrics. Neurological rehabilitation is in particular a rapidly emerging field. PTs practice in many settings, such as outpatient clinics or offices, health and wellness clinics, rehabilitation hospitals facilities, skilled nursing facilities, extended care facilities, private homes, education and research centers, schools, hospices, industrial, universities and colleges, fitness centers and sports training facilities.

Department Vision

Leadership and excellence in education, clinical practice and research in physical therapy, through continuous professional development and community partnerships.

Department Mission

Nurture an enriched academic environment to prepare skilled physical therapists professionally committed to practice in an ethical manner for the advancement of health care services, research and community partnership.

Department Goals & Objectives

The program of physical therapy aims to equip the graduate Physical Therapist through academic programs for the Bachelor of physiotherapy to enable them to play an effective role to work with the medical team as part of an integrated program of health and medical care. The goal of these programs is to obtain sufficient knowledge of basic medical subjects and the development of skills and techniques of therapeutic exercises, and electrical and soft tissues as well as increase knowledge of the problems of chronic diseases and physical and mental disabilities of all age groups. These programs cover the scientific theory and applied clinical diagnosis and treatment of disease and disability. Outmost concern is taken to check whether all the course objectives are matching the program objectives. The specific Objectives are;

- Prepare physical therapy professionals sensitive to the evolving concept of comprehensive rehabilitation and prepared to cooperate with other health professionals in meeting the changing health needs of society.
- Develop creative and flexible educational approaches to provide outstanding educational experiences to our students in order to develop expertise in the profession of physical therapy and health rehabilitation.
- Contribute to the advancement of knowledge in physical therapy and rehabilitation through scholarly inquiry and research for assuming responsibilities in the areas of patient care, administration and education.
- Model leadership, professionalism, and lifelong learning through involvement in the professional development forums and community interdisciplinary collaboration.
- Cultivate knowledge, understanding and appreciation of the social, political and

economic aspects of health to practice in an ethical and legal manner.

Program Outcomes

1. The student will acquire a comprehensive and well-founded knowledge in the field of Physical therapy.
2. The student will relate appropriate theories, concepts and principles from a range of relevant disciplines to determine the nature and extent of the patient's need for intervention.
3. The student will recognize the contemporary issues, available scientific evidence, and their impact on current physical therapy practice in order to improve quality of care.
4. The student will develop the process of critical thinking and scholarly inquiry to support clinical reasoning, and evidence-based practice.
5. The student will integrate the results of patient examination with available scientific evidence for an appropriate physical therapy diagnosis, prognosis and plan of care.
6. The student will evaluate the effectiveness of interventions to formulate novel, safe and effective Physical therapy management while adapting to the needs and responses of the patient.
7. The student will consistently demonstrate to expand their knowledge and skills to maintain professional competence, and exercise leadership and innovation for proactive collaboration with others.
8. The student will practice in an ethical manner, fulfilling an obligation to demonstrate

moral responsibility and social justice that are consistent with the needs of the patient and society

9. The students will develop the capacity to think, write and speak effectively and demonstrate respectful, positive and culturally appropriate behavior while communicating with others.
10. The student will display the ability to use media and technology and utilize numerical methods to assess the suitability, accuracy and reliability of information from research and reference sources.
11. The student will demonstrate the manual dexterity skills, to perform elements of examination, evaluation, diagnosis, prognosis, and intervention in a timely manner.

Graduation Requirements

The Physical Therapy Program is offered as a full-time on-campus day-time program, requiring for graduation the successful completion of eight semesters consisting of 137 credit hours which are delivered in the form of lectures, tutorials, laboratories, clinical practice, self-study and ending with a non-credit but mandatory one year rotatory internship at any of the prestigious hospital/hospitals in the Kingdom.

The one-year mandatory internship consisting of a comprehensive clinical training with rotation to Intensive Care Unit (ICU), Critical Care Unit (CCU), Orthopaedic, Neurology, Cardiopulmonary, Paediatric, Burns and surgery Department is mandatory. The student shall have completed all academic requirements to qualify for internship program.

The students receives the Bachelor degree of Applied Medical Sciences in Physical Therapy after successful completion of all clinical rotations, competencies and objectives.

Program Plan

The Physical therapy program is offered on full time basis requiring fifty three (53) modules consist of 137 credits, with each semester consisting of 14-18 credits along with one year noncredit internship.

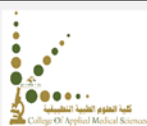
Total fifty three (53) modules along with one year non-credit but mandatory, rotatory internship is required for complete the Physical Therapy Program. Out of total fifty three (53) modules fourty three (43) modules are mandatory, remaining ten (10) modules are offered as elective under University, College and Program Requirements. Successful completion of the preparatory year is a prerequisite for being admitted to the Physical Therapy program. These courses aims to equip the students with abilities to communicate effectively in English, to deal with information technology, and to prepare them for advanced science and allied health courses.

During preparatory year which is common to all medical and allied health sciences programs at the university, students study basic science courses such as chemistry, biology, physics and mathematics. In addition, they undertake intensive English language and IT skills courses. The university/college electives, in the higher levels after the enrolment into the program, including courses in Arabic Language and Islamic culture, which are taken together with other study program.

Nine modules of the preparatory years aims to equip the students with abilities to communicate effectively in English, to deal with information technology, and to prepare them for advanced science and allied health courses. During preparatory year, students study basic science courses such as chemistry, biology, physics and mathematics. The intermediate level modulate like Anatomy, Physiology, Pathology etc. prepares the students with a sound medical and clinical knowledge base required to comprehend the therapeutic principals of Physical therapy.

Under the Therapeutic Foundation for Physical therapy, the module like Electrotherapy, Exercise therapy, Biomechanics, Measurement Techniques etc., which deals with the basic therapeutic principals, are covered. In the higher level, the module under Physical therapy practice covers the assessment and the treatment aspect of various condition requiring Physical therapy interventions.

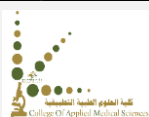
The module in the last few semester deals mainly with the professionalism, like work ethics, community participation, management, research and other administrative issues which are covered by Research Methodology, Ethics & Management, Patient care and other modules.



MAJMAAH UNIVERSITY
COLLEGE OF APPLIED MEDICAL SCIENCES
BACHELOR OF PHYSICAL THERAPY
PROGRAM MODULE PLAN & WORKLOAD



S.N.	Course Code	Course Name	Credit				Contact Hours					
			Theory	Practical	Clinical	Total	Theory	Practical	Clinical	Self Study	Final Exam	Total
Level - 1 / Semester - 1 (Preparatory Year)												
1	PENG111	English (1) for the preparatory year	2	6	0	8	30	180	0	180	2	392
2	PMTH112	Introduction to Mathematics 1	2	0	0	2	30	0	0	45	2	77
3	PCOM113	Computer Skills	1	1	0	2	15	30	0	45	2	92
4	PSSC114	Learning Skills and Communication	1	1	0	2	15	30	0	45	2	92
		Total	6	8	0	14	90	240	0	315	8	653
Level - 2 / Semester - 2 (Preparatory Year)												
5	PENG121	English (2) for the preparatory year	2	4	0	6	30	120	0	135	2	287
6	PENG122	English for Health Specialties	1	1	0	2	15	30	0	45	2	92
7	PCHM124	Introduction to Chemistry	1	1	0	2	15	30	0	45	2	92
8	PPHS125	Physics for Health Specialties	1	1	0	2	15	30	0	45	2	92
9	PBIO126	Biology	2	1	0	3	30	30	0	65	2	127
		Total	7	8	0	15	105	240	0	335	10	690
Level - 3 / Semester - 3												
10	PHT211	Human Anatomy	1	1	0	2	15	30	0	50	5	100
11	PHT214	Human Physiology	1	1	0	2	15	30	0	50	5	100
12	PHT212	Musculoskeletal Anatomy	2	1	0	3	30	30	0	75	5	140
13	CAMS231	Emergency Healthcare	1	1	0	2	15	30	0	50	5	100
14	PHT221	Therapeutic Modalities 1	2	1	0	3	30	30	0	75	5	140
15	***	University Requirement-Elective 1	2	0	0	2	30	0	0	50	2	82
16	***	University Requirement-Elective 2	2	0	0	2	30	0	0	50	2	82
17	***	College Elective-1	2	0	0	2	30	0	0	50	2	82
		Total	13	5	0	18	195	150	0	450	31	826
Level - 4 / Semester - 4												
18	PHT223	Measurements in Physical Therapy	1	2	0	3	15	60	0	75	5	155
19	PHT213	Neuroanatomy	2	1	0	3	30	30	0	50	5	115
20	PHT222	Therapeutic Modality 2	2	1	0	3	30	30	0	75	5	140
21	PHT218	Introduction to Pathology	2	0	0	2	30	0	0	50	2	82
22	PHT226	Introduction to Biomechanics	1	1	0	2	15	30	0	50	5	100
23	PHT224	Therapeutic Exercise-1	1	2	0	3	15	60	0	75	5	155
24	***	University Requirement-Elective 3	2	0	0	2	30	0	0	50	2	82
		Total	11	7	0	18	165	210	0	425	29	829



MAJMAAH UNIVERSITY
COLLEGE OF APPLIED MEDICAL SCIENCES
BACHELOR OF PHYSICAL THERAPY
PROGRAM MODULE PLAN & WORKLOAD



S.N.	Course Code	Course Name	Credit				Contact Hours					
			Theory	Practical	Clinical	Total	Theory	Practical	Clinical	Self Study	Final Exam	Total
Level - 5 / Semester - 5												
25	PHT325	Therapeutic Exercise-2	1	2	0	3	15	60	0	75	5	155
26	PHT331	Physical Therapy for Burn and Surgical Conditions	2	1	0	3	30	30	0	75	5	140
27	PHT315	Neurophysiology	2	1	0	3	30	30	0	75	5	140
28	PHT327	Human Biomechanics	2	1	0	3	30	30	0	75	5	140
29	***	Department Elective 1	1	1	0	2	15	30	0	50	5	100
30	***	College elective 2	2	0	0	2	30	0	0	50	2	82
31	***	University Requirements- Elective 4	2	0	0	2	30	0	0	50	2	82
Total			12	6	0	18	180	180	0	450	29	839
Level - 6 / Semester - 6												
32	PHT361	Research Methodology	2	0	0	2	30	0	0	75	2	107
33	PHT332	Physical Therapy for Pediatrics	3	1	0	4	45	30	0	90	5	170
34	PHT316	Exercise Physiology	1	1	0	2	15	30	0	50	5	100
35	PHT319	Pharmacology	2	0	0	2	30	0	0	50	2	82
36	PHT333	Physical Therapy for Sports & Traumatology	1	1	0	2	15	30	0	75	5	125
37	PHT353	Rehabilitation Psychology	2	0	0	2	30	0	0	50	2	82
38	***	Department Elective 2	2	0	0	2	30	0	0	50	2	82
39	***	University Requirement- Elective 5	2	0	0	2	30	0	0	50	2	82
Total			15	3	0	18	225	90	0	490	25	830
Level - 7 / Semester - 7												
40	PHT435	Physical Therapy for Neurological Disorders	3	1	0	4	45	30	0	75	5	155
41	PHT420	Advanced Physical Therapy Procedures	2	1	0	3	30	30	0	60	5	125
42	PHT436	Physical Therapy for Orthopedics Condition	3	1	0	4	45	30	0	75	5	155
43	PHT419	Reading Medical Imaging	1	1	0	2	15	30	0	45	5	95
44	PHT441	Clinical Practice 1	0	0	3	3	0	0	135	75	5	215
45	PHT454	Orthotics & Prosthetics	1	1	0	2	15	30	0	45	5	95
Total			10	5	3	18	150	150	135	375	30	840
Level - 8 / Semester - 8												
46	PHT437	Physical Therapy for Cardio Respiratory Disorders	2	1	0	3	30	30	0	50	5	115
47	PHT443	Selected Clinical Topics	0	0	2	2	0	0	90	60	5	155
48	PHT442	Clinical Practice 2	0	0	3	3	0	0	135	60	5	200
49	PHT445	Occupational Therapy	2	0	0	2	30	0	0	40	2	72
50	PHT456	Management & Ethics in Physical Therapy Services	2	0	0	2	30	0	0	30	2	62
51	PHT438	Geriatric Rehabilitation	1	1	0	2	15	30	0	45	5	95
52	PHT457	Independent study	2	0	0	2	30	0	0	45	2	77
53	***	University Requirement - Elective 6	2	0	0	2	30	0	0	30	2	62
Total			11	2	5	18	165	60	225	360	28	838

Module Title: Emergency Care	اسم المقرر: عناية الطوارئ
Module ID: CAMS 231	رقم المقرر: CAMS 231
Prerequisite (Co-requisite) : NA	اسم ورقم المتطلب السابق (المرافق): NA
Level: 3	مستوى المقرر: الثالث
Credit Hours: 2 (1+1+0)	الساعات المعتمدة: 2 (0+1+ 1)
Module Description	وصف المقرر
This course includes teaching the methods of dealing with critical clinical cases. The These cases give the first aid procedure and call the how to diagnose student should know ambulance in the proper time.	

Module Title: Human Anatomy	اسم المقرر: أساسيات التشريح
Module ID: PHT211	رقم المقرر: PHT 211
Prerequisite (Co-requisite) :	اسم ورقم المتطلب السابق (المرافق):
Level: 3	مستوى المقرر: الثالث
Credit Hours: 2 (1+1+0)	الساعات المعتمدة: 2 (0+1 + 1)
Module Description	وصف المقرر
This is an introductory course in systemic gross anatomy specific to further study in physiotherapy. Structures of the integumentary, musculoskeletal, nervous, endocrine, cardiovascular, lymphatic, respiratory, digestive, and urogenital will be examined.	

Module Title: Human Physiology	اسم المقرر: أساسيات علم ووظائف الاعضاء
Module ID: PHT214	رقم المقرر: PHT 214
Prerequisite (Co-requisite) :	اسم ورقم المتطلب السابق (المرافق):
Level: 3	مستوى المقرر: الثالث
Credit Hours: 2 (1+1+0)	الساعات المعتمدة: 2 (0+1 + 1)
Module Description	وصف المقرر
This course involves a detailed study of the physiology of the various systems of the body at a microscopic and macroscopic level, with a particular emphasis on the musculoskeletal, neurological and cardiopulmonary systems. The student should be able to describe the structure and function of the various system of the body as they relate to Physiotherapy.	

Module Title: Musculoskeletal Anatomy	اسم المقرر: تشريح الجهاز الهيكلي العضلي
Module ID: PHT212	رقم المقرر: PHT212
Prerequisite (Co-requisite) :	اسم ورقم المتطلب السابق (المرافق):
Level: 3	مستوى المقرر: الثالث
Credit Hours: 3 (2+1+0)	الساعات المعتمدة: 3 (0+1 + 2)
Module Description	وصف المقرر
Regional anatomy of the human body. An integrated approach focusing on the skeletal, muscular & nervous systems, particularly of the limbs & back.	

Module Title: Therapeutic Modalities-1	اسم المقرر: وسائل علاجية 1
Module ID: PHT 221	رقم المقرر: PHT221
Prerequisite (Co-requisite) :	اسم ورقم المتطلب السابق (المرافق):
Level: 3	مستوى المقرر: الثالث
Credit Hours: 3 (2+1+0)	الساعات المعتمدة: 3 (0+1 + 2)
Module Description	وصف المقرر
This course deals with physics and basic principles of Physical Agents in Rehabilitation. Information about the general effects of different kinds of electrotherapy modalities, indications contraindications and precautions including techniques of applications. It includes the study of infra-red, short wave, micro wave, long wave, shock wave, laser and ultrasound applications. Also it concern with clinical training for the student in Planning and managing the appropriate way of application for each modality.	

Module Title: Measurements in Physical Therapy	اسم المقرر: القياسات في العلاج الطبيعي
Module ID: PHT 223	رقم المقرر: PHT 223
Prerequisite (Co-requisite) : PHT 212	اسم ورقم المتطلب السابق (المرافق): PHT 212
Level: 4	مستوى المقرر: الرابع
Credit Hours: 3 (1+2+0)	الساعات المعتمدة: 3 (0+ 2+ 1)
Module Description	وصف المقرر
The importance of applying anatomical knowledge is emphasised. Topics covered include: observation and analysis of movement of the head, neck, trunk, upper limbs and lower limbs; theory and practice of joint range measurement, manual muscle testing, muscle length assessment, limb length, limb girth measurement and chest expansion. The course covers the topics in the following order.	

Module Title: Neuroanatomy	اسم المقرر: تشريح الجهاز العصبي
Module ID: PHT 213	رقم المقرر: PHT 213
Prerequisite (Co-requisite) : PHT 212	اسم ورقم المتطلب السابق (المرافق): PHT 212
Level: 4	مستوى المقرر: الرابع
Credit Hours: 3 (2+1+0)	الساعات المعتمدة: 3 (0+ 1+ 2)
Module Description	وصف المقرر
<p>This course will examine the structural, functional and developmental features of the human nervous system with reference to different disease states. It establishes an anatomical basis for the study and understanding of the nervous system as presented in the classroom and the lab. Application of these studies will help in the solving of problems encountered in your career as a future health care professional.</p>	

Module Title: Therapeutic Modalities-2	اسم المقرر: وسائل علاجية 2
Module ID: PHT 222	رقم المقرر: PHT 222
Prerequisite (Co-requisite) : PHT 221	اسم ورقم المتطلب السابق (المرافق): PHT 221
Level: 4	مستوى المقرر: الرابع
Credit Hours: 3 (2+1+0)	الساعات المعتمدة: 3 (0+ 1+ 2)
Module Description	وصف المقرر
<p>This course includes types of electrical currents used to raise electrical nerve, muscle and physiological effects and therapeutic uses in addition to the risks and preventive measures and students are trained on how to use electrotherapeutic modalities. It also includes physiological effects of hydrotherapy, its uses, dangers, and preventive measures in addition to ways of using water treatment devices, students are trained in the use of these devices.</p>	

Module Title: Introduction to Pathology	اسم المقرر: علم الامراض
Module ID: PHT 218	رقم المقرر: PHT 218
Prerequisite (Co-requisite) : PHT214	اسم ورقم المتطلب السابق (المرافق): PHT214
Level: 4	مستوى المقرر: الرابع
Credit Hours: 2 (2+0+0)	الساعات المعتمدة: 2 (0+0+2)
Module Description	وصف المقرر
<p>This course provides an introductory overview of medical pathology commonly seen by physical therapists across the lifespan. This course contains introduction to general and basic knowledge of diseases, their causes, pathogenesis, general morphological and</p>	

changes at gross, microscopic and submicroscopic levels as well as the prognosis of the disease.

Module Title: Introduction to Biomechanics	اسم المقرر: مقدمة في الميكانيكا الحيوية
Module ID: PHT 226	رقم المقرر: PHT 226
Prerequisite (Co-requisite) : PHT 212	اسم ورقم المتطلب السابق (المرافق): PHT 212
Level: 4	مستوى المقرر: الرابع
Credit Hours: 2 (1+1+0)	الساعات المعتمدة: 2 (0+ 1+ 1)
Module Description	وصف المقرر
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. Also, it includes understanding of normal biomechanics of bone and soft tissues under normal and pathological conditions.	

Module Title: Therapeutic Exercises-1	اسم المقرر: تمارين علاجية 1
Module ID: PHT 224	رقم المقرر: PHT 224
Prerequisite (Co-requisite) : PHT226	اسم ورقم المتطلب السابق (المرافق): PHT 226
Level: 4	مستوى المقرر: الرابع
Credit Hours: 3 (1+2+0)	الساعات المعتمدة: 3 (0+ 2+ 1)
Module Description	وصف المقرر
Introduction of therapeutic exercises and methods of use and application, including the different types of passive and active movements, the types of muscle effort and ways of strengthening the muscle group or individually, flexibility exercises, in addition to the practical training of students to apply different types of exercises	

Module Title: Therapeutic Exercises - 2	اسم المقرر: تمارين علاجية ٢
Module ID: PHT 325	رقم المقرر: PHT 325
Prerequisite (Co-requisite) : PHT 224	اسم ورقم المتطلب السابق (المرافق): PHT 224
Level: 5	مستوى المقرر: المستوى الخامس
Credit Hours: 3(1+2+0)	الساعات المعتمدة: 3 (0+ 2+ 1)
Module Description	وصف المقرر

This course introduces the therapeutic exercises which provide the student with an understanding of the use of various exercise in the prevention and rehabilitation of injury and basic skills involved in relaxations.

Module Title: Physical therapy for Burn and Surgical Conditions	اسم المقرر: العلاج الطبيعي لحالات الحروق و الجراحة
Module ID: PHT 331	رقم المقرر: PHT331
Prerequisite (Co-requisite) : PHT 325	اسم ورقم المتطلب السابق (المرافق): PHT325
Level: 5	مستوى المقرر: الخامس
Credit Hours: 3 (2+1+0)	الساعات المعتمدة: 3 (0+1+ 2)
Module Description	وصف المقرر
This course also introduces the student's bout different degrees of burns, over view of medical problems, complications, assessment and its physical therapy management. The course also provides the student with the required information about the techniques of physical therapy treatment for the patient who undergoes surgical procedures.	

Module Title: Neurophysiology	اسم المقرر: فسيولوجيا الاعصاب
Module ID: PHT 315	رقم المقرر: PHT 315
Prerequisite (Co-requisite) : PHT 213	اسم ورقم المتطلب السابق (المرافق): PHT213
Level: 5	مستوى المقرر: المستوى الخامس
Credit Hours: 3 (2+1+0)	الساعات المعتمدة: 3 (0+1+2)
Module Description	وصف المقرر
Brain mechanisms in sensation and perception are analyzed in detail for vision, hearing and touch, and for the position sense arising from muscles, joints and the vestibular apparatus. The sensorimotor mechanisms responsible for the control of fine movement and postural regulation are also studied at different levels of the nervous system, from the sensory and motor nerves within muscles through to the highest levels of cerebral cortical function. Segments are also included on nerve transmitters and neuromodulators; neural mechanisms in certain higher functions, eg language and memory; and nervous system plasticity. Experimental work introduces the student to electrophysiological and other neuroscience research techniques, and in seminar-discussion groups to a critical evaluation of neuroscience research literature.	

Module Title: Human Biomechanics	اسم المقرر: الميكانيكا الحيوية
Module ID: PHT 327	رقم المقرر: PHTT 327
Prerequisite (Co-requisite) : PHT 226	اسم ورقم المتطلب السابق (المرافق) : PHT 226

Level: 5	مستوى المقرر: المستوى الخامس
Credit Hours: 3(2+1+0)	الساعات المعتمدة: 3 (0+1+2)
Module Description	وصف المقرر
This module aims to: provide an understanding of human movement and its control in terms of biomechanical and anatomical principles; illustrate how this knowledge may be applied to the analysis and development of human performance, and the prevention and treatment of injuries; and, develop critical thinking skills of data analysis and interpretation of results.	

Module Title: Hydrotherapy	اسم المقرر: العلاج المائي
Module ID: PHT 328	رقم المقرر: PHT 328
Prerequisite (Co-requisite) : PHT 222	اسم ورقم المتطلب السابق (المرافق): PHT 222
Level: 5	مستوى المقرر: المستوى الخامس
Credit Hours: 2(1+1+0)	الساعات المعتمدة: 2 (0+1+1)
Module Description	وصف المقرر
This course provides the students with using of the hydrotherapy modalities and their practical application for therapeutic purposes with stress on therapeutic advantages, disadvantages, indications, contraindications, precautions and safety rules.	

Module Title: Medical Massage	اسم المقرر: التدليك الطبي
Module ID: PHT 329	رقم المقرر: PHT 329
Prerequisite (Co-requisite) : PHT 212	اسم ورقم المتطلب السابق (المرافق): PHT 212
Level: 5	مستوى المقرر: المستوى الخامس
Credit Hours: 2(1+1+0)	الساعات المعتمدة: 2 (0+1+1)
Module Description	وصف المقرر
This course introduces the students to the principles, types, techniques, the physiological and Therapeutic effects, the indications, contraindications, dangers and precautions of massage. Moreover, the course provides the student with the required information about the techniques of application of massage, Planning and managing the appropriate way of application of different types of massage.	

Module Title: Research methodology	اسم المقرر: طرق بحث
Module ID: PHT 361	رقم المقرر: PHT 361
Prerequisite (Co-requisite) : ***	اسم ورقم المتطلب السابق (المرافق): ***

Level: 6	مستوى المقرر: السادس
Credit Hours: 2(2+0+0)	الساعات المعتمدة: 2 (0+0+2)
Module Description	وصف المقرر
Determination of research problems relevant to allied health, interpretation & use of scientific literature, development of research protocol, research writing & presentation & advanced statistics.	

Module Title: Physical Therapy for Pediatrics	اسم المقرر: العلاج الطبيعي في الأطفال
Module ID: PHT 332	رقم المقرر: PHT332
Prerequisite (Co-requisite) : PHT 315	اسم ورقم المتطلب السابق (المرافق): PHT 315
Level: 6	مستوى المقرر: السادس
Credit Hours: 4 (3+1+0)	الساعات المعتمدة: 4 (0+1+3)

Module Description	وصف المقرر
The course learns the student with the different pediatric diseases and develops skills about the use of physiotherapy methods used in evaluation and treatment of different pediatric diseases. Also it concern with the creation of modern therapeutic programs used in treatment.	

Module Title: Exercise Physiology	اسم المقرر: فسيولوجيا التمرينات
Module ID: PHT 316	رقم المقرر: PHT 316
Prerequisite (Co-requisite) : PHT 315	اسم ورقم المتطلب السابق (المرافق): PHT315
Level: 6	مستوى المقرر: السادس
Credit Hours: 2 (1+1+0)	الساعات المعتمدة: 2 (0+1+ 1)

Module Description	وصف المقرر
Exercise Physiology is a field of study investigates (from systemic to sub-cellular level) the acute responses and chronic adaptations of physiological functions to a wide-range of physical exercise conditions, involving people of all ages (children to elderly) and abilities (diseased, healthy and athlete).	

Module Title: Pharmacology	اسم المقرر: علم الادوية
Module ID: PHT 319	رقم المقرر: PHT 319
Prerequisite (Co-requisite) : PHT 218	اسم ورقم المتطلب السابق (المرافق): PHT218

Level: 6	مستوى المقرر: السادس
Credit Hours: 2 (2+0+0)	الساعات المعتمدة: 2 (0+ 0+ 2)
Module Description	وصف المقرر
<p>This course introduces the physical therapy students to the basic level of clinical pharmacological knowledge and to its relevance to physical therapy practice. It focuses on pharmacokinetics and pharmacodynamics and their relation to physical performance and rehabilitation program. It introduces the basic concepts of drug formulations and administration; major drug classification; absorption, metabolism, and excretion of drugs; mechanism of actions ; and drug desirable and undesirable actions . The effects of basic physical therapy modalities (such as exercise, heat, cold, and manual techniques) on drug reaction in selected disorders will also be discussed.</p>	

Module Title: Physical Therapy for Sports & Traumatology	اسم المقرر: العلاج الطبيعي لعلاج الاصابات و الرياضية
Module ID: PHT 333	رقم المقرر: 333PHT
Prerequisite (Co-requisite) : PHT 316 & 327	اسم ورقم المتطلب السابق (المرافق): PHT 316 & 327
Level: 6	مستوى المقرر: السادس
Credit Hours: 2 (1+1+0)	الساعات المعتمدة: 2 (0+ 1+ 1)
Module Description	وصف المقرر
<p>The purpose of this course is to introduce 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. Management of the injured athlete, including examination, prognosis, intervention and outcome.</p>	

Module Title: Rehabilitation Psychology	اسم المقرر: علم النفس التأهيلي
Module ID: PHT353	رقم المقرر: PHT353
Prerequisite (Co-requisite) : PHT315	اسم ورقم المتطلب السابق (المرافق): PHT315
Level: 6	مستوى المقرر: السادس
Credit Hours: 2 (2+0+0)	الساعات المعتمدة: 2 (0+ 0+2)
Module Description	وصف المقرر
<p>This course includes topics on assessment and treatment of psychological and neurocognitive impairments due to illness, physical injury, and developmental disorders. Students will become familiar with psychological rehabilitation and therapeutic strategies for working with people with disabilities.</p>	

Module Title: Physiotherapy in Women's Health	اسم المقرر: العلاج الطبيعي لصحة المرأة
Module ID: PHT 334	رقم المقرر: PHT334
Prerequisite (Co-requisite) : PHT315	اسم ورقم المتطلب السابق (المرافق): PHT315
Level: 6	مستوى المقرر: السادس
Credit Hours: 2 (2+0+0)	الساعات المعتمدة: 2 (0+ 0+ 2)
Module Description	وصف المقرر
This course introduces the basic principles and theories in gynecological and obstetrical disorders, this course will enable the students on using physical therapy procedures with cases related to females, it also will enable them to evaluate and put treatment plan for patients problems especially who are in patient wards.	

Module Title: Human Growth and Development	اسم المقرر: النمو والتطور البشري
Module ID: PHT 352	رقم المقرر: PHT 352
Prerequisite (Co-requisite) : PHT 315	اسم ورقم المتطلب السابق (المرافق): PHT 315
Level: 6	مستوى المقرر: السادس
Credit Hours: 2 (2+0+0)	الساعات المعتمدة: 2 (0+ 0+ 2)
Module Description	وصف المقرر
This course introduces students to a broad concept of the physical, psychological, and social dimensions of human growth and development from conception to death. It considers the normal milestones of development, developmental theories and its application in the scope of physiotherapy and the combination of influences which aid or hinder individuals achieving their goals.	

Module Title: Physical Therapy For Neurological Disorders	اسم المقرر: العلاج الطبيعي لاضرابات الاعصاب وجراحته
Module ID: PHT435	رقم المقرر: PHT435
Prerequisite (Co-requisite) : PHT 315 & 332	اسم ورقم المتطلب السابق (المرافق) : PHT 315 & 332
Level: 7	مستوى المقرر: السابع
Credit Hours: 4 (3+1+0)	الساعات المعتمدة: 4 (0+1+3)
Module Description	وصف المقرر

This course aims to provide students with knowledge and skills required to be a competent graduating physical therapist in the field of neurological physical therapy. Specifically, it will: develop an understanding of a variety of neurological disorders, symptomatology and management strategies; develop an understanding of assessment procedures to define activity limitations and impairments; promote the use of clinical reasoning as a basis for treatment planning and progressive management to address goals established with clients.

Module Title: Advanced physical therapy procedures	اسم المقرر: أساليب متقدم في العلاج الطبيعي
Module ID: PHT 420	رقم المقرر: PHT420
Prerequisite (Co-requisite) : PHT325	اسم ورقم المتطلب السابق (المرافق): PHT325
Level: 7	مستوى المقرر: السابع
Credit Hours: 3 (2+1+0)	الساعات المعتمدة: 3 (0+ 1+ 2)
Module Description	وصف المقرر
This course introduces the students to the specialized Physical Therapy Skills in various specialties. It also helps to update the Technical skills required to render a expertise treatment. The course enables the student to understand and plan the Physical Therapy Treatment protocol with advanced treatment methods.	

Module Title: Physical Therapy for Orthopedic Conditions	اسم المقرر: العلاج الطبيعي لأمراض العظام
Module ID: PHT436	رقم المقرر: PHT436
Prerequisite (Co-requisite) : PHT333	اسم ورقم المتطلب السابق (المرافق): PHT333
Level: 7	مستوى المقرر: السابع
Credit Hours: 4 (3+1+0)	الساعات المعتمدة: 4 (0+1+3)
Module Description	وصف المقرر
The course will provide students with knowledge and understanding of the musculoskeletal pathologies, the physical manifestations of such pathologies, the clinical reasoning process in clinical assessment and diagnosis, physical therapy treatment options, rationales and treatment selection.	

Module Title: Reading in Medical Imaging	اسم المقرر: قراءة في التصوير الطبي
Module ID: PHT419	رقم المقرر: PHT419
Prerequisite (Co-requisite) : PHT436	اسم ورقم المتطلب السابق (المرافق): PHT436
Level: 7	مستوى المقرر: السابع

Credit Hours: 2 (1+1+0)	الساعات المعتمدة: 2 (0+1+1)
Module Description	وصف المقرر
<p>This course covers an overview of relevant radiology and its significance for the practicing clinical physical therapist. Basic fundamentals of roentgenography will be discussed including: how plain film radiographs (X-rays) are reproduced as well as adjusted to provide desired structural emphasis, positioning for various views, and other variables.</p> <p>A general introduction to normal musculoskeletal radiographic anatomy emphasizing osseous structures and landmarks of the spine, pelvis, and extremities will be presented. A limited amount of pathological and more common normal anatomical variants and or congenital anomalies will be addressed. Finally, a brief discussion of special imaging techniques will be presented with the emphasis on Magnetic Resonance Imaging (MRI).</p>	

Module Title: Clinical Practice-1	اسم المقرر: ممارسة الإكلينيكية 1
Module ID: PHT441	رقم المقرر: PHT 441
Prerequisite (Co-requisite): PHT 331, 332 & 333	اسم ورقم المتطلب السابق (المرافق): PHT 331, 332 & 333
Level: 7	مستوى المقرر: السابع
Credit Hours: 3 (0+0+3)	الساعات المعتمدة: 3 (3+ 0+ 0)
Module Description	وصف المقرر
<p>The course enables the Students to develop an ability to integrate the knowledge, physical skills, principles of evidence based practice and clinical reasoning, ethical and professional behaviors that are necessary to function competently as a physiotherapist. The Students will undergo a training on methods of clinical rehabilitation for various pediatric conditions, Exercise and Rehabilitation of Burns patient. The pre and post-operative physical therapy for surgical patients and treatment method for traumatic and sport injuries.</p>	

Module Title: Prosthetics & Orthotics	اسم المقرر:
Module ID: PHT454	رقم المقرر: PHT
Prerequisite (Co-requisite) : PHT441	اسم ورقم المتطلب السابق (المرافق): PHT
Level: 7	مستوى المقرر: السابع
Credit Hours: 2 (1+1+0)	الساعات المعتمدة: 2 (0+1+1)
Module Description	وصف المقرر
<p>The course gives basic training to the students on orthotics and prosthetics regarding their types, indications, fitting procedures and rehabilitation of the patient. The different role of orthosis in various impairments will be discussed. The prosthesis type for different level of amputations and fitting training rendered by Physical therapist.</p>	

Module Title: Physical Therapy for Cardio-Respiratory Disorders	اسم المقرر: العلاج الطبيعي لأمراض الجهاز القلبي الرئوي
Module ID: PHT 437	رقم المقرر: PHT 437
Prerequisite (Co-requisite) : PHT 441	اسم ورقم المتطلب السابق (المرافق): PHT441
Level: 8	مستوى المقرر: الثامن
Credit Hours: 3(2+1+0)	الساعات المعتمدة: 3(0+1+2)
Module Description	وصف المقرر
This course focuses on the physiotherapy management of people with acute and chronic cardiorespiratory conditions; including those who present pre- and post-operatively (abdominal, thoracic, cardiac and vascular surgical procedures); and those in the intensive care setting.	

Module Title: Selected Clinical Topics	اسم المقرر: مواضيع الكلتينيكا مختارة
Module ID: PHT443	رقم المقرر: PHT443
Prerequisite (Co-requisite) : PHT 437	اسم ورقم المتطلب السابق (المرافق): PHT 437
Level: 8	مستوى المقرر: الثامن
Credit Hours: 2(0+0+2)	الساعات المعتمدة: 2(2+0+0)
Module Description	وصف المقرر
This course develops students' knowledge and clinical skills related to physical therapy assessment & management of people with acute and chronic cardiorespiratory conditions.	

Module Title: Clinical Practice-2	اسم المقرر:
Module ID: PHT442	رقم المقرر: ممارسة الكلتينيكا
Prerequisite (Co-requisite) : PHT435, 436	اسم ورقم المتطلب السابق (المرافق): PHT435, 436
Level: 8	مستوى المقرر: الثامن
Credit Hours: 3(0+0+3)	الساعات المعتمدة: 3(3+0+0)
Module Description	وصف المقرر
The course will deal with the clinical rehabilitation of various neurological, orthopedic, cardio respiratory and geriatric conditions frequently seen by a physiotherapist in the OPD and in ICU.	

Module Title: Occupational Therapy	اسم المقرر: العلاج الوظيفي
Module ID: PHT445	رقم المقرر: PHT445

Prerequisite (Co-requisite) : PHT420	اسم ورقم المتطلب السابق (المرافق): PHT420
Level: 8	مستوى المقرر: الثامن
Credit Hours: 2(2+0+0)	الساعات المعتمدة: 2 (0+0+2)
Module Description	وصف المقرر
The course describes the theoretical basis of occupational therapy and the therapeutic activities needed for the application of occupational therapy treatment. It also guides the students to apply the occupational therapy principles and skills in their physical therapy practice.	

Module Title: Management & Ethics in Physical Therapy services	اسم المقرر: ادارة وأخلاقيات مهنة العلاج الطبيعي
Module ID: PHT 456	رقم المقرر: PHT456
Prerequisite (Co-requisite) : PHT441	اسم ورقم المتطلب السابق (المرافق): PHT441
Level: 8	مستوى المقرر: الثامن
Credit Hours: 2(2+0+0)	الساعات المعتمدة: 2(0+0+2)
Module Description	وصف المقرر
The course is an introduction to the administration of hospitals and physiotherapy services. Topics covered include: departmental design, record, procedure manuals, scheduling of patients, recruiting, supervising and evaluating staff. The course also touches on the ethics of physical therapy.	

Module Title: Geriatric Rehabilitation	اسم المقرر: تاهيل المسنين
Module ID: PHT 438	رقم المقرر: PHT 438
Prerequisite (Co-requisite) : PHT 436	اسم ورقم المتطلب السابق (المرافق): PHT 436
Level: 8	مستوى المقرر: الثامن
Credit Hours: 2(1+1+0)	الساعات المعتمدة: 2 (0+ 1+ 1)
Module Description	وصف المقرر
The course is designed to explore those factors affecting the health and wellbeing of aging people. It will cover the relationship between the process of aging and behaviour in such areas as sensory, personality and cognitive functioning .Other subjects will include the social and cultural aspects of aging, social influences on the aging individual, and age related changes in accommodation to the social environment .Finally, considerable attention will be paid to some specifically selected clinical conditions observed to be common with the elderly including an overall assessment of health profile of an aged individual.	

Module Title: Independent study	اسم المقرر: دراسة مستقلة
Module ID: PHT-457	رقم المقرر: PHT457
Prerequisite (Co-requisite) : PHT-361	اسم ورقم المتطلب السابق (المرافق): PHT361
Level: 8	مستوى المقرر: الثامن
Credit Hours: 2(2+0+0)	الساعات المعتمدة: 2 (0+ 0+ 2)
Module Description	وصف المقرر
This course introduces the need for conducting research in the field of physiotherapy, stressing the importance of evidence-based practice. The core of this course will be to teach the students the process of conducting a scientific research.	

Admission Requirements

The Executive Principles of Majmmah University

Approved by the decree of the university council, on its sixth session, held on

1/3/1342 H

1. He should have obtained a general high school certificate or its equivalent from within or without the Kingdom of Saudi Arabia.
2. His high school certificate or its equivalent should not be older than five years. The University Council may make some exceptions if convincing reasons are provided.
3. He should be of a good conduct.
4. He should successfully pass any test or interview assigned by the University Council.
5. He should be medically fit.
6. He should provide a permission for study from his reference, if he works in government or private sector
7. He should satisfy any other conditions the University Council determines, announced

during application.

8. He should not be dismissed from any other university for disciplinary or academic reasons. If that became clear after his, his acceptance shall be deemed cancelled from the day of his admission.
9. A student dismissed from the University for Academic Reasons may be enrolled in some programs that do not award a Bachelor Degree, as decided by the University Council, or whoever it delegates. This shall not be allowed for the transitional program.
10. Those who already had obtained a Bachelor Degree or its equivalent shall not be admitted to obtain another Bachelor degree. The University Rector has the right for exceptions.
11. A student registered for another university degree or below, shall not be admitted, either in the selfsame university or another.

The first Article:

Definitions

Academic year: Two main semesters and a summer semester if need be.

The semester: A period of time not less than fifteen weeks, during which courses are taught. The period for registration and final examinations are not counted within this period. Some courses may have prerequisite(s) or co-requisite(s).

The Summer Semester: A period of time not more than eight weeks. The period for

registration and final examinations are not counted within this period. Each course is taught extensively within this period.

Academic Level: It indicates at what stage a student studies. Graduation requires studying eight levels or more according to credit hours plans.

Course: An educational material related to a specific level within the credit hours plan for each programmed. Each course has a number , code ,name and specification that distinguishes it from other courses. Each course has also a special file that a department keeps for the purposes of follow up, assessment and development.

Credit Hour: A weekly theoretical session not less than fifty minutes, a clinical session not less than fifty minutes, or a practical/ field work not less than hundred minutes.

Academic Warning: Notification made to a student because of his /her low grade point average, from the minimum shown in this by-law.

Class Work Score: A score given to a student showing his/her achievements on the continuous assessment from tests, research and other academic activities related to the course.

Final Examination: A final examination administered once at the end of a semester.

Final Examination Score: The score that a student achieves in each course in the final tests of the semester.

The Final Score: The sum total of class work scores and final examination score for each course. The score is computed out of hundred.

The Grade: Description of the percentage or an alphabetical code for the final score a student achieves in each course.

Incomplete Grade: A grade entered provisionally for each course a student is unable to fulfill its requirement in the specific time. It is referred to in the academic record with the abbreviation (IC).

Continuous Grade: A grade entered provisionally for each course which nature of study requires more than one semester for completion. It is referred to with the abbreviation (IP).

Semester Grade Point Average: Sum total of the points a student achieves divided by the total credit hours for all the courses studied in every semester. Points are computed by multiplying the credit hours of a course by the grades a student achieves for each course.

Cumulative Grade Point Average: Sum total of the points a student achieves in all the courses he/she studies since his enrolment in the university, divided by the total credit hours for all those courses.

The General Grade: Description of the level of a student's academic achievement during the period of his study in the university.

The Minimum Academic Load: The minimum credit hours a student should register for, compatible with his Grade Points Average, as decided by the university Council.

RE-REGISTRATION

Article XVII

The student whose registration has been closed may apply for re-registration with his

number and file before dropping according to the following regulations:

- a. Application for re-registration within four semesters from the date of registration closing.
- b. The concerned College Board and the relevant authorities should approve the re-registration of the student.
- c. If four semesters or more lapse after student's registration closing he can apply to the university as a newcomer without reference to his previous academic record, provided all declared admission requirements apply for him. The University Board has the right for some exceptions according to the regulations issued by the board.
- d. The student may not be re-registered more than once. The University Board, if necessary, has the right for exception to that.
- e. The student whose registration is closed may not be re-registered if he is academically dismissed.

The Executive Rule of Majmmah University:

1. The student's registration is deemed closed in the following cases:
 - a. Drop out from the university.
 - b. Withdrawal from the university.
 - c. Academic dismissal.
2. The student whose registration is closed can apply to his college for re-registration with his number and file, before dropping out, according to the following regulations:
 - a. He has to apply for re-registration within four semesters (or two years for the colleges that apply the annual system) from the closing of date of registration.

- b. The College Board concerned should approve of re-registration of the student.
- c. If four semesters or more (or two years for the colleges that apply the annual system) lapse on a student's registration closing, he can apply to the university as a newcomer without referring to his previous academic record, provided all declared admission requirements are timely applicable to him. The Standing Committee for Students Problems has the right for some exceptions according to the regulations it determines.
- d. The student may not be re-registered more than once. The rector of the university, if necessary, has the right for exception, according to the recommendation of the standing committee of students' academic affairs.
- e. The student whose registration is closed may not be re-registered if he is academically dismissed. Taking into account what is stated in Article XX of the Regulations.

Attendance and Withdrawal

Article IX

The regular student must attend the lectures. He shall be debarred from the final examination if the percentage of his attendance is less than the percentage fixed by the University Council, provided it is not less than (75%) of the lectures for each course during the semester. The student who is debarred, because of absence, is considered as a failure in the course, and will be awarded the denial grade (DN).

The Operational Rule for Majmmah University:

The student shall be debarred from the final examination if the percentage of his absence exceeds (25%) out of the total lectures of the course without an acceptable excuse.

1. The student who is debarred from the examination because of absence is considered as a failure in the course. He will be awarded the score of the course work and given the denial grade (DN).
2. The lists of the debarred students shall be approved by the concerned College Board.
3. The lists of the debarred students shall be announced before the beginning of the final examinations.

Article X

The College Board or whoever it delegates may, exceptionally, forward the debarred students lists and allow the students for entering the examination, provided he will give an acceptable excuse to the board. The University Council will determine the percentage of absence, provided it shall not be less than (50%) of the lectures for the course.

Article XI

The grade of the student who absents himself from the final examination shall be zero in that exam. His grade in that course shall be counted according to the scores of the course work he obtains.

Article XII

If the student is not able to attend the final examination in any course of the semester,

for a compulsive excuse, the College Board, in very urgent cases, may accept his excuse and give him the permission for a substitute examination to be conducted within a period not exceeding the end of the following semester. He shall be given the grade he obtains after sitting for the substitute exam.

The Operational Rule for Majmmah University:

1. The excuse for absence from the final examination shall be accepted in the following cases:
 - a. The cause of the excuse should be timely given until a week after the cause is over.
 - b. The compulsive excuses accepted by the College Board.
2. The substitute examination and entering of the grade shall be within a period not exceeding the end of the following semester.

Article XIII

- a. The student may withdraw from the semester without being considered as failure if he provides an acceptable excuse to the authority specified by the University Council, within a period of time specified by the operational rules, approved by the University Council. The grade (W) shall be given to the student . This semester will be counted as part of the time required to complete the requirements of graduation.
- b. The student may withdraw from one course or more in a semester with an excuse, according to the operational rules approved by the University Council.

The Operational Rule for Majmmah University:

(13-1) A student may withdraw from studying a semester without being considered a failure, if he forwards an application to that effect to the dean of his college, at least

three weeks before the beginning of the final examinations in accordance with the university schedule. The students of the colleges that adopt the annual system may withdraw before at least five weeks from the beginning of the final examinations. The students of the short courses may withdraw before the beginning of the examinations, equivalent to one third of the duration of the course. The university Rector may exceptionally, consider some , very urgent cases if necessary, from these durations, in which cases the student is given the withdrawal grade(W) and this period is counted as part of the of the time for completing the requirements of graduation.

(13-2) Withdrawal chances shall not exceed two consecutive or three non-consecutive semesters.As for the students of the colleges that adopt the annual system, they may not withdraw for two consecutive years. Years of withdrawal should not exceed two non-consecutive academic years throughout the student's stay in the university, after which period, the student's registration is cancelled. The dean of Admission and Registration may consider some exceptional cases.

(13-3) Dean of Admission and Registration may ask for the acceptance of the guardian of the female-student when she applies for withdrawal from a semester.

(13-4)A student may withdraw from one course or more per a semester and no more than three courses throughout the period of his study in the university in accordance with the period specified in the rules, according to the following conditions:

- a. Approval of the dean of the college.
- b. Applying for withdrawal from the course before the deadline for withdrawal from the semester.

- c. The abbreviation (W) is entered for the course a student withdraws from

Final Examinations

Article XXII

The concerned College Board determines the midterm score according to the recommendation of the department board. It should not be less than 30% of the final score of the course.

The Operational Rule for Majmmah University:

1. The concerned college board responsible for the course determines the midterm score according to the recommendation of the concerned department in the range between (40%) and (60%) of the final score.
2. According to the recommendation of the department board ,the college board shall make decisions as regards the following:
 - a. Amendment of the results
 - b. Determining substitute exams

Article XXIII

The Midterm score is counted in one of the following ways

1. Oral tests or practical tests, research , classroom activities, some or all of them, including at least one written test.
2. Two written tests at least.

Article XXIV

According to the recommendation of the department board ,the concerned college board responsible of the course may include the final examination in any course, written or oral. It may also determine the specified scores out of the final exam.

Article XXV

According to the recommendation of a course instructor, the department board assuming the responsibility of teaching a course may allow the student to complete requirements of any course in the following semester. The abbreviation (IC) is used to indicate to this. It will neither be included in the calculating Grade Point Average nor Cumulative Grade Point Average, until the student completes the requirements of that course. If a semester lapses without the student changing the (IC) in his academic record, it will be substituted for (F) and counted within his or her (GPA) and (CGPA).

Article XXVI

All or some of research, debate, science oriented or field work courses may be treated exceptionally from the provisions of articles (22, 23, 24) by decision from the college board. The College Board shall determine assessment of a student's achievement in these courses.

The Operational Rule for Majmmah University:

All or some of research, debate, science oriented or field work courses which include the clinical courses may be treated exceptionally from the provisions of articles (22,23,24) by a decision from the college board according to the recommendation of the department board responsible for teaching the courses. The College Board determines the evaluation of the student's achievement in these courses.

Article XXVII

If research courses require more than one semester the grade (IP) shall be used. After completion of the course, the student is will be given the grade s/he obtains. If the course is not completed in the fixed time, the concerned department board may my approve entering the grade (IC) in the student's record.

The Operational Rule for Majmmah University:

The fixed time for completing a course which grade is (IP) is one semester following the semester in which the student has obtained the grade (IP)

Article XXVIII

The grades the student obtains are counted as follows:

Percentage	Grade	Grade Code	Grad weight out of (5)	Grad weight out of (4)
95-100	Upper Distinction	A+	5.00	4.00
90 to less than 95	Distinction	A	4.75	3.75
85 to less than 90	Upper Very Good	B+	4.50	3.50
80 to less than 85	Very Good	B	4.00	3.00
75 to less than 80	Upper Good	C+	3.50	2.50
70 to less than 75	Good	C	3.00	2.00
65 to less than 70	Upper Pass	D+	2.50	1.50
60 to less than 65	Pass	D	2.00	1.00

Less than 60	Fail	F	1.00	.
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The Operational Rule for Majmmah University:

The grades the student obtains in every course are counted on the basis that the weight of the grade is (5, 00) as follows:

Percentage	Grade	Grade Code	Grad weight out of (5)	Grad weight out of (4)
95-100	Upper Distinction	A+	5.00	4.00
90 to less than 95	Distinction	A	4.75	3.75
85 to less than 90	Upper Very Good	B+	4.50	3.50
80 to less than 85	Very Good	B	4.00	3.00
75 to less than 80	Upper Good	C+	3.50	2.50
70 to less than 75	Good	C	3.00	2.00
65 to less than 70	Upper Pass	D+	2.50	1.50
60 to less than 65	Pass	D	2.00	1.00
Less than 60	Fail	F	1.00	.

Article XXIX

Taking into account requirements of Article (19) of this By-law, when the student graduates, his general grade for Cumulative Average will be as follows :

1. (Distinction) if the CGPA is not less than 4.000-5.00, or 3.00 out of 4.00
2. (Very Good) if the CGPA is from 3.75-to less than 4.50 out of 5.00 or 2.75 to less than

3.50 out of 4.00.

3. (Good) if the CGPA is from 2.75 to less than 3.75 out of five or 1.75 to less than 2.75 out of 4.00.
4. (Pass) if the CGPA is from 2.00 to less than 2.75 out of 5.00 or from 1.00 to less than 1.75 out of 4.00.

The Operational Rule for Majmmah University:

The general grade for the CGPA when the student graduates is based on his CGPA according to the grade weight. Out of (5.00) points.

Article XXX

Honors Degree is awarded to the student who obtains CGPA (4.75) to (5.00) out of (5.00) or (3.75) to (4.00) out of (4.00) in graduation. The Second Class Honors is awarded to the student who obtains the CGPA (4.25) to less than (4.75) out of (5.00) or from (3.25) to less than (3.75) out of (4.00) in graduation.

The following conditions are required for obtaining the first Class or the Second Class

Honors Degree:

1. The student should not have failed in any course during his studies in the university or any other university.
2. The student should have completed the requirements of graduation within a period not more the average between the maximum and the minimum period for staying in his college.
3. The student should have studied at least 60% of graduation requirements in the university from which he obtains the degree.

GRADUATION

Article XIX

1) The student graduates after completing the requirements of graduation successfully, according to the syllabus, provided that his Cumulative Average is not less than the rate determined by the concerned university council for each specialization.

In all cases it should not be less than the Pass grade.

2) Based on the recommendation of the Department Board, the College Board may determine suitable courses for the student to study in order to raise his Cumulative Average if he passes on the courses and fails in the Cumulative Average.

The Executive Rule of Majmmah University

1. The student graduates after completing graduation requirements successfully according to the syllabus, provided that his rate is not less than Pass (or his Cumulative Average is not less than (2-5). According to the recommendation of the concerned Department Board, the College Board may require the student to repeat, based on his Cumulative Average, in case of his success in the courses and failure in Cumulative Average, according to the following rules:

a. A condition for eliminating any grade for a course the student had studied is that he repeats and passes it.

b. The total credit hours for the courses eliminated from the Cumulative Average should not be more than 15% of the total credit hours of the syllabus.

c. In re-calculating the Cumulative Average, only the following grades may be

eliminated: Fail (F), (Debarred (D), and Withdrawal because of failure (WF).

- d. His re-calculated Cumulative Average should not exceed 2.00 out of 5.00.
 - e. The academic record should include grades of all the courses the student has taken.
 - f. In the academic record a special notice, marking the eliminated courses, is made after applying re-calculating Cumulative Average.
2. What is contained in the paragraphs: B and C of Article XX shall be considered.
 3. The student shall not be considered a graduate until the issuance of approval of the University Council, awarding him the degree.
 4. Graduation Day is schedule in according to the Academic Calendar approved by the University Council.
 5. The Deanship of Admission and Registration, or whoever it delegates, forwards graduation memoranda to the University Council, to be forwarded in turn, at the nearest session after the end of the final examinations. Individual graduation memoranda are forwarded for the students who have incomplete grades (IC),or permitted to sit for substitute exam(s)in the final year or the like, when completing graduation requirements. Graduation semester is considered the final in the student's record.
 6. Certificate
 - a. Every graduate is awarded a certificate in both Arabic and English, containing the following information: Date of graduation in both Hijri and Gregorian, student's full name, nationality, Civil Registry Number, college, specialization, path (if any),degree,

honours (if any). The certificate is to be signed and stamped by the Dean of Admission and Registration.

b. A substitute for a lost certificate may be issued, including the expression "Instead of a Lost Certificate".

FACULTY MEMBERS

Sl. No	Name	Specialization	Designation
1	Dr. FUZAIL AHMAD	PhD, Pediatric	Head of Department
2	Dr. AMAL ABDELBAQI	PhD, Burns & Surgical	Associate Professor
3	Dr. SALAMEH AL DAJHA	PhD, Orthopedics	Assistant Professor
4	Dr. INTSAR WAQAD	PhD, Burns & Surgical	Assistant Professor
5	Dr. WALAA MOHAMED	PhD, Biomechanics	Assistant Professor
6	Dr. MOHAMMAD ATEEF	Orthopedics	Assistant Professor
7	DR. MOHAMMAD SEYAM	PhD, Cardiopulmonary	Assistant Professor
8	DR. MOHAMED SHERIF	PhD, Neurology	Assistant Professor
9	DR. SHEIKH ABDUL RAHIM	PhD, Neurology	Assistant Professor
10	Mr. ABDONABILHAMEED	M.Sc. PT, Pediatrics	Lecturer
11	Mr. CHANDRA SEKAR	MPT, Sports Medicine	Lecturer
12	Mr. FAIZAN ZAFFAR KASHOO	MPT, Neurology	Lecturer

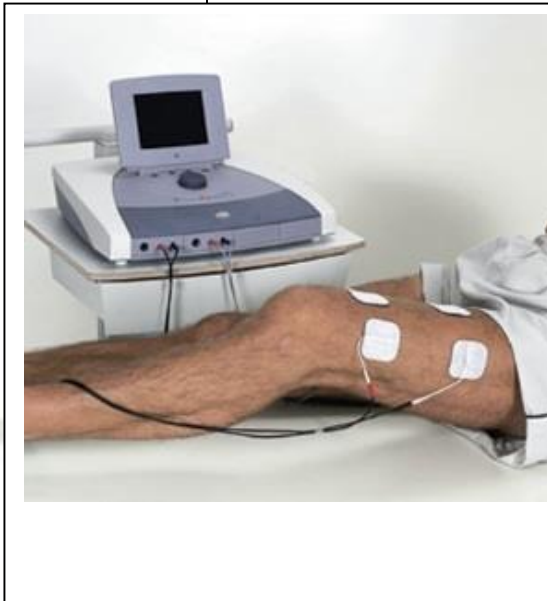
13	Mr. HARIRAJA M	MPT, Cardiopulmonary	Lecturer
14	Mr. PRASHANT KASHYAP	MPT, Cardiopulmonary	Lecturer
15	Mr. RADHAKRISHNAN.U	MPT, Orthopedics	Lecturer
16	Mr. WALAA MOHAMMAD	M. Sc. PT, Exercise Physiology	Lecturer
17	Ms. SAVITA SINGH	MPT, Orthopedics	Lecturer
18	Ms. NIVEDITA KASHYAP	MPT, Pediatrics	Lecturer
19	Ms. RASHMI SAIBANNAVAR	MPT, Neurology	Lecturer
20	Ms. MENAZ SALEEM	MPT, Pediatrics	Lecturer
21	Mr. Naif Ziyad Alrashidi	B. Sc. PT	Demonstrator
22	Mr. Sultan Al Anezi	B. Sc. PT	Demonstrator

Department Laboratory

Physical therapy Department in the College of Applied Medical Sciences at Majmaah University provides eight laboratories for the practical part of the courses. They are as follows:

No	Laboratory Name	Code
1	Electrotherapy Lab	1D1
2	Therapeutics and Measurements Lab	1D2
3	Pediatrics Lab	1D3
4	Cardio Respiratory lab	1D4
5	Orthopedics and Biomechanics Lab	1D5

Laboratory Name	Electrotherapy Lab
Laboratory Code	1
Courses taught in the laboratory	<ul style="list-style-type: none"> ▪ Therapeutic modalities 1 ▪ Therapeutic Modalities 2 ▪ Hydrotherapy ▪ Medical Massage
SKILLS ACQUIRED IN THE LABORATORY	<ol style="list-style-type: none"> 1. Orientation to various therapeutic modalities 2. Safe and effective use of all modalities in lab. 3. Various massage techniques



LABORATORY NAME	Therapeutics and Measurements Lab
LABORATORY CODE	1
COURSES TAUGHT IN THE LABORATORY	<ul style="list-style-type: none"> ▪ Therapeutics Exercise 1 ▪ Therapeutics Exercise 2 ▪ Measurements in physical therapy
SKILLS ACQUIRED IN THE LABORATORY	<ol style="list-style-type: none"> 1. Orientation of all therapeutic modalities 2. Safe and effective use of all the equipment's in the lab. 3. Diagnosis and prescription of ailment appropriate exercises 4. Assessment of musculoskeletal parameters with various devices like goniometer, dynamometer



Laboratory Name	Pediatrics Lab
Laboratory Code	1-D-3
Courses taught in the laboratory	<ul style="list-style-type: none"> ▪ Physical therapy for Pediatrics ▪ Pediatrics
Skills Acquired in the laboratory	<ol style="list-style-type: none"> 1. Safe and effective use of equipment's used to treat pediatric patients 2. Exercise and manipulation of various disorders in children's 3. Use of assistive devices used in pediatrics disorders



Laboratory Name	Cardio respiratory Lab
Laboratory Code	1-
Courses taught in the laboratory	<ul style="list-style-type: none"> ▪ PT for Cardiovascular and respiratory Disorders ▪ Exercise Physiology ▪ Advanced Physical therapy procedure ▪ Orthotics and Prosthetics
Skills Acquired in the laboratory	<ol style="list-style-type: none"> 1. Orientation of various equipment's used in ICU and for respiratory care. 2. Use of devices like spirometer and postural drainage techniques 3. Effective use of ventilator and its various parameters. 4. Assessment of basic parameters to exercise prescription 5. Demonstration of use of various assistive devices used



Laboratory Name	Orthopedics and Biomechanics Lab
Laboratory Code	1-
Courses taught in the laboratory	<ul style="list-style-type: none"> ▪ Human Biomechanics ▪ Physical therapy for Orthopedics ▪ Physical therapy for Traumatology and Sports injuries
Skills Acquired in the laboratory	Assessment of patient with orthopedic disorders Test and devices used in assessment of orthopedic cases

