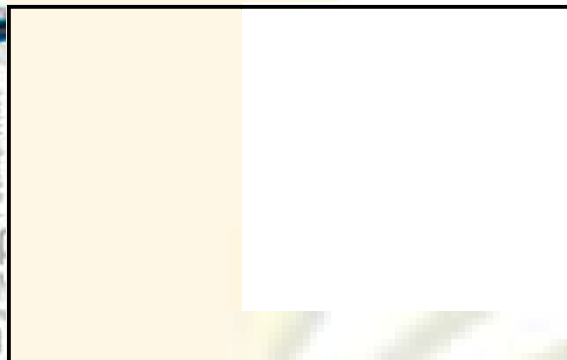




# PHYSICAL THERAPY MANUAL

|                                                                   |  |  |
|-------------------------------------------------------------------|--|--|
| <b>Majmaah University</b>                                         |  |  |
| <b>College of Applied Medical Sciences</b>                        |  |  |
| <b>Department of Physical Therapy &amp; Health Rehabilitation</b> |  |  |

## *Physical Therapy Program*

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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 professional 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 an 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 its harmony with the practices of the Saudi Council for Health Specialties.

Physical therapy involves the interaction between a therapist(s), patients or clients, other health care professionals, families, caregivers, 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 the 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, orthopedics 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

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

## DEPARTMENT MISSION

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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

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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. The utmost 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 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

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1. The student will acquire 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 is 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

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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 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 the internship program.

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

# PROGRAM PLAN

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

Total fifty-three (53) modules along with one-year non-credit but mandatory, a rotatory internship are required to complete the Physical Therapy Program. Out of total fifty-three (53) modules for 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 aim 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.

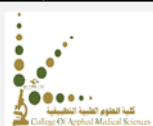
During the preparatory year which is common to all medical and allied health sciences programs at the university, students study basic science courses such as chemistry, biology, physics, and mathematics. In addition, they undertake intensive English language and IT skills courses. The university/college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

Nine modules of the preparatory years aim 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 the preparatory year, students study basic science courses such as chemistry, biology, physics, and mathematics. The intermediate level modules 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 semesters 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   |

# ADMISSION REQUIREMENTS

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The initial enrolment for the program is done once a year at the beginning of each academic year. The enrolment in the program is completely online, the students apply through the deanship of student's admission and registration website. Based on their eligibility and availability of seats, the students are then assigned to different colleges and departments. Total 60 students are accepted in the Physical Therapy program every year; a maximum of 30 students can be admitted at the male or female section.

General Requirements for Admission: Majmaah University (MU) has central policies and procedures for admitting and following up the progress of all students throughout the university. The following are admission requirements stipulated for the admission of the new student:

-  An applicant for admission must have a Saudi Secondary School Certificate -Science Section (SSSCSS) or its equivalent. The secondary school certificate should not be more than five years old and the Rector of the University may give exemption from this condition.
-  Must have an Aptitude Test Certificate (ATC) administered by the National Center for Assessment in Higher Education.
-  The minimum qualifying scores in SSSCSS & ATC tests are: (a) A total equivalent percentage of 75% (based on 30% from the SSSCSS + 30% from the ATC + 40% from cumulative basic Science of SSSCSS).
-  Must not have been dismissed from another university for disciplinary reasons.
-  When applicants exceed availability, priority is given to the students with higher grades.

# ATTENDANCE

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- ✚ 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 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.
- ✚ The student may withdraw from the semester without being considered a 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.

# EXAMINATION

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The assessment measures are designed to evaluate the effectiveness of teaching methods for delivering the intended program outcomes. A range of assessments strategies that match all aspects of the instructional plans is being used for different modules. The assessment strategies are planned to match the instructional goals and objectives at the beginning of the semester and implemented throughout the semester. The selection of appropriate assessments also matches courses and program objectives.

All the modules of the physical therapy program have specific learning objectives that are aligned with the program outcomes. Each module has 3-5 specific module outcomes, which are evaluated by appropriate assessment methods. Both direct and indirect assessment techniques are utilized to ensure that the desired program outcomes are achieved. The process of assessment is carried out by using combinations of course work such as quizzes, exams, projects, presentations, homework, etc., Where the grades on these exercises are directly tied to the course outcomes.

Two midterm exams and one end of the semester final examination are conducted during each semester and, as part of continuous assessment; quizzes, class presentation, group discussion, assignments are conducted on regular basis throughout the semester.

## FACULTY MEMBERS

| SA | NAME                     | SPECIALIZATION                      | DESIGNATION                                |
|----|--------------------------|-------------------------------------|--------------------------------------------|
| 1  | DR. AHMAD ALANAZI        | PH.D., SPORTS, AND BIOMECHANICS     | HEAD OF THE DEPARTMENT/ASSOCIATE PROFESSOR |
| 2  | DR. MSAAD ALZHRANI       | PH.D., ORTHOPEDICS                  | ASSOCIATE PROFESSOR                        |
| 3  | DR. MAZEN S ALQAHTANI    | PH.D., VESTIBULAR REHABILITATION    | ASSOCIATE PROFESSOR                        |
| 4  | DR. ABDULAZIZ ALKATHIRY  | PH.D., REHABILITATION SCIENCES      | ASSOCIATE PROFESSOR                        |
| 5  | DR. MOHAMMAD SEYAM       | PH.D., CARDIOPULMONARY              | ASSOCIATE PROFESSOR                        |
| 6  | DR. SHEIKH ABDUL RAHIM   | PH.D., NEUROLOGY                    | ASSOCIATE PROFESSOR                        |
| 7  | DR. MOHAMED SHERIF       | PH.D., NEUROLOGY                    | ASSOCIATE PROFESSOR                        |
| 8  | DR. MOHAMMAD ATEEF       | PH.D., MUSCULOSKELETAL              | ASSOCIATE PROFESSOR                        |
| 9  | DR. MOHAMED MIRAJ MOLLA  | PH.D., BIOSCIENCES                  | ASSISTANT PROFESSOR                        |
| 10 | DR. DANAH ALYAHYA        | PH.D., NEUROLOGY "VESTIBULAR"       | ASSOCIATE PROFESSOR                        |
| 11 | DR. ASMA ALONZI          | PHD, PEDIATRIC PHYSIOTHERAPY        | ASSOCIATE PROFESSOR                        |
| 12 | DR. WALA MOHAMMED        | PH.D., BIOMECHANICS                 | ASSOCIATE PROFESSOR                        |
| 13 | DR. SHAHNAZ HASAN        | PH.D., PEDIATRIC PHYSIOTHERAPY      | ASSOCIATE PROFESSOR                        |
| 14 | DR. GHADA MOHMED SHAWKY  | PH.D., CARDIOPULMONARY              | ASSISTANT PROFESSOR                        |
| 15 | DR. NAIF ZIAD ALRASHEEDY | PH.D., MUSCULOSKELETAL              | ASSISTANT PROFESSOR                        |
| 16 | DR. SHADY ALSHEWAIR      | PH.D., ORTHOPEDICS & SPORT INJURIES | ASSISTANT PROFESSOR                        |
| 17 | DR. AHMED ALMANSOUR      | PHD, SPORTS AND BIOMECHANICS        | ASSISTANT PROFESSOR                        |
| 18 | DR. RADHAKRISHNAN U      | MPT, ORTHOPEDICS                    | LECTURER                                   |
| 19 | DR. HARIRAJA M           | MPT, CARDIOPULMONARY                | LECTURER                                   |
| 20 | DR. FAIZAN ZAFFAR KASHOO | MPT, NEUROLOGY                      | LECTURER                                   |
| 21 | DR. JABER ALSHAYE        | M. SC. PT, KINESIOLOGY              | LECTURER                                   |
| 22 | DR. ABDULLAH ALHUZYMI    | M. SC. PT MUSCULOSKELETAL           | LECTURER                                   |
| 23 | DR. RAJEEVKUMAR          | M. SC (ORTHOTICS AND PROSTHETICS)   | LECTURER                                   |
| 24 | DR. NORAH ALMOTAIRI      | M. SC. PT MUSCULOSKELETAL           | LECTURER                                   |
| 25 | DR. RASHMI.A.SAIBANNAVAR | MPT, NEUROLOGY                      | LECTURER                                   |
| 26 | DR. NIDAA ALANAZI        | M. SC. PT EXERCISE PHYSIOLOGY       | LECTURER                                   |
| 27 | DR. WAFA ALRUBIA         | M. SC. PT MUSCULOSKELETAL           | LECTURER                                   |
| 28 | DR. ATHEER IBRAHIM       | M. SC. PT EXERCISE PHYSIOLOGY       | LECTURER                                   |
| 29 | DR. BANAN ALMASS         | M. SC. PT                           | LECTURER                                   |
| 30 | MR. OSAIMI MOHAMMED      | B SC, PHYSICAL THERAPY              | TEACHING ASSISTANT                         |

**DEPARTMENT OF PHYSICAL THERAPY & HEALTH REHABILITATION**

**LABORATORIES**

| <b>S. No</b> | <b>Name of the lab</b>                        | <b>Lab number</b>      |
|--------------|-----------------------------------------------|------------------------|
| <b>1</b>     | <b>NEUROLOGY LAB</b>                          | <b>1B1 (005-0-4-1)</b> |
| <b>2</b>     | <b>BIOMECHANICS LAB</b>                       | <b>1B2 (005-0-4-2)</b> |
| <b>3</b>     | <b>ORTHOPAEDICS &amp;<br/>MEASUREMENT LAB</b> | <b>1B4 (005-0-4-4)</b> |
| <b>4</b>     | <b>ORTHOTICS &amp; PROSTHETIC<br/>LAB</b>     | <b>1B5</b>             |
| <b>5</b>     | <b>PAEDIATRIC LAB</b>                         | <b>1B6</b>             |
| <b>6</b>     | <b>HYDROTHERAPY LAB</b>                       | <b>1B7 (005-0-4-8)</b> |
| <b>7</b>     | <b>THERAPEUTIC LAB</b>                        | <b>1A5 (005-0-3-6)</b> |
| <b>8</b>     | <b>CARDIORESPIRATORY LAB</b>                  | <b>1A6 (005-0-3-7)</b> |

|    |                             |            |
|----|-----------------------------|------------|
| 7. | Biomechanics Lab            | G 121      |
| 8. | Orthotic and Prosthetic Lab | G 124 Left |

|                                   |                                                                                                                                                                                                            |
|-----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| LaboratoryName                    | Electrotherapy Lab                                                                                                                                                                                         |
| laboratory code                   | G110 ,G111 & G113                                                                                                                                                                                          |
| Courses taught in the laboratory  | <ul style="list-style-type: none"> <li>▪ Therapeutic modalities 1</li> <li>▪ Therapeutic Modalities 2</li> <li>▪ Hydrotherapy</li> <li>▪ Medical Massage</li> </ul>                                        |
| Skills Acquired in the laboratory | <ol style="list-style-type: none"> <li>1. Orientation to various therapeutic modalities</li> <li>2. Safe and effective use of all modalities in the lab.</li> <li>3. Various massage techniques</li> </ol> |



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|-----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| LaboratoryName                    | Therapeutics and Measurements Lab                                                                                                                                                                                                                                                                                                                              |
| laboratory code                   | G131                                                                                                                                                                                                                                                                                                                                                           |
| Courses taught in the laboratory  | <ul style="list-style-type: none"> <li>Therapeutics Exercise 1</li> <li>Therapeutics Exercise 2</li> <li>Measurements in physical therapy</li> </ul>                                                                                                                                                                                                           |
| Skills Acquired in the laboratory | <ol style="list-style-type: none"> <li>The orientation of all therapeutic modalities</li> <li>Safe and effective use of all the equipment's in the lab.</li> <li>Diagnosis and prescription of ailment appropriate exercises</li> <li>Assessment of musculoskeletal parameters with various devices like goniometer, dynamometer, inclinometer etc.</li> </ol> |



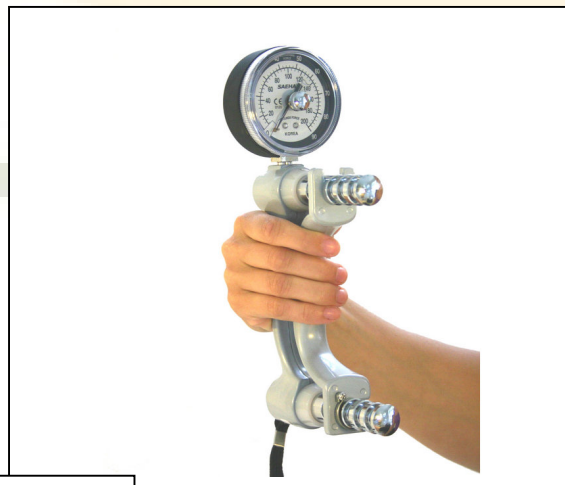
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|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| LaboratoryName                    | Neurology and Pediatrics Lab                                                                                                                                                                                                                                          |
| laboratory code                   | G 124                                                                                                                                                                                                                                                                 |
| Courses taught in the laboratory  | <ul style="list-style-type: none"> <li>Physical therapy for Pediatrics</li> <li>Pediatrics</li> </ul>                                                                                                                                                                 |
| Skills Acquired in the laboratory | <ol style="list-style-type: none"> <li>1. Safe and effective use of equipment's used to treat pediatric patients</li> <li>2. Exercise and manipulation of various disorders in children's</li> <li>3. Use of assistive devices used in pediatric disorders</li> </ol> |



|                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| LaboratoryName                    | Cardiorespiratory Lab                                                                                                                                                                                                                                                                                                                                                                                                                        |
| laboratory code                   | G 124 Right                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Courses taught in the laboratory  | <ul style="list-style-type: none"> <li>▪ PT for Cardiovascular and Respiratory Disorders</li> <li>▪ Exercise Physiology</li> <li>▪ Advanced Physical therapy procedure</li> <li>▪ Orthotics and Prosthetics</li> </ul>                                                                                                                                                                                                                       |
| Skills Acquired in the laboratory | <ol style="list-style-type: none"> <li>1. The orientation of various equipment's used in ICU and for respiratory care.</li> <li>2. Use of devices like spirometer and postural drainage techniques</li> <li>3. Effective use of a ventilator and its various parameters.</li> <li>4. Assessment of basic parameters to exercise prescription</li> <li>5. Demonstration of use of various assistive devices used for disabilities.</li> </ol> |



|                                  |                                                                                                                                                                                                 |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| LaboratoryName                   | Biomechanics Lab                                                                                                                                                                                |
| LaboratoryCode                   | G140, G139,G138 & G137                                                                                                                                                                          |
| Courses taught in the laboratory | <ul style="list-style-type: none"> <li>▪ Human Biomechanics</li> <li>▪ Physical therapy for Orthopedics</li> <li>▪ Physical therapy for Traumatology and Sports injuries</li> <li>▪ </li> </ul> |
| SkillsAcquiredinthelaboratory    | <p>Assessment of the patient with orthopedic disorders</p> <p>Test and devices used in the assessment of orthopedic cases</p>                                                                   |



|                                   |                                                                                                                                                                                     |
|-----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Laboratory Name                   | Hydrotherapy Lab                                                                                                                                                                    |
| Laboratory Code                   | G112 & G115                                                                                                                                                                         |
| Courses taught in the laboratory  | <ul style="list-style-type: none"> <li>▪ Human Biomechanics</li> <li>▪ Physical therapy for Orthopedics</li> <li>▪ Physical therapy for Traumatology and Sports injuries</li> </ul> |
| Skills Acquired in the laboratory | <p>Assessment of the patient with orthopedic disorders</p> <p>Test and devices used in the assessment of orthopedic cases</p>                                                       |



|                                  |                                                                                                                                                                                                |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| LaboratoryName                   | Biomechanics Lab                                                                                                                                                                               |
| laboratory code                  | G141                                                                                                                                                                                           |
| Courses taught in the laboratory | <ul style="list-style-type: none"> <li>▪ Human Biomechanics</li> <li>▪ Physical therapy for Orthopedics</li> <li>▪ Physical therapy for Traumatology and Sports injuries</li> <li>▪</li> </ul> |
| SkillsAcquiredinthelaboratory    | <p>Assessment of the patient with orthopedic disorders</p> <p>Test and devices used in the assessment of orthopedic cases</p>                                                                  |



|                                  |                                                                                                                                                                                                     |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Laboratory Name                  | Orthotic and prosthetic Lab                                                                                                                                                                         |
| laboratory code                  | G140, G139,G138 & G137                                                                                                                                                                              |
| Courses taught in the laboratory | <ul style="list-style-type: none"> <li>▪ Orthotic and Prosthetic</li> <li>▪ Physical therapy for Orthopedics</li> <li>▪ Physical therapy for Traumatology and Sports injuries</li> <li>▪</li> </ul> |
| SkillsAcquiredinthelaboratory    | <p>Assessment of the patient with orthopedic disorders<br/>Test and devices used in the assessment of orthopedic cases</p>                                                                          |

