Accreditation Agency in Health and Social Sciences

SELF-EVALUATION REPORT

PHYSICAL THERAPY PROGRAM ACCREDITATION

Contents

Self-Evaluation Report

Applying university	Majmaah University
Title of study program	Bachelor of Physical Therapy
Date of initial accreditation, if applicable	Not Applicable
Contact	Dr. Fuzail Ahmad
Address	Head, Department of Physical Therapy, College of Applied Medical Sciences, Majmaah University, PO Box 66, AlMajmaah-11952, Kingdom of Saudi Arabia
Phone	+966 164042832, +966 558932114
E-mail	f.ahmad@mu.edu.sa

1. Study program concept

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 which 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 professionaly 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.

In 2012, based on the feedbacks from all the stake holders the Physical Therapy Program curriculum was revised to make it more contemproray in terms of relevence and universal acceptability. The duration of the course was shortened to eight semesters.

1.1 Structural data of the study program

1.1.1 Name of university, name of department/faculty

Majmaah University

College of Applied Medical Sciences

Department of Physical therapy and Health Rehabilitation

1.1.2 Name of other universities, companies and other institutions that are involved in the study program as well as an explanation of the cooperation (Please attach cooperation agreements, if applicable).

The University through the Ministry of Higher education and Ministry of Health has a general understanding to utilize all the Government Hospitals in the Kingdom for Clinical Training & Internship purpose.

1.1.3 Title of the study program, title of previous study program (if applicable)

Bachelor of Physical Therapy

1.1.4 Degree level

Bachelor Degree

1.1.5 Type/form of study program, explanation of the organizational structure (with specification of the days of the week and times of compact courses, insofar as possible) and explanation for the form of the study program

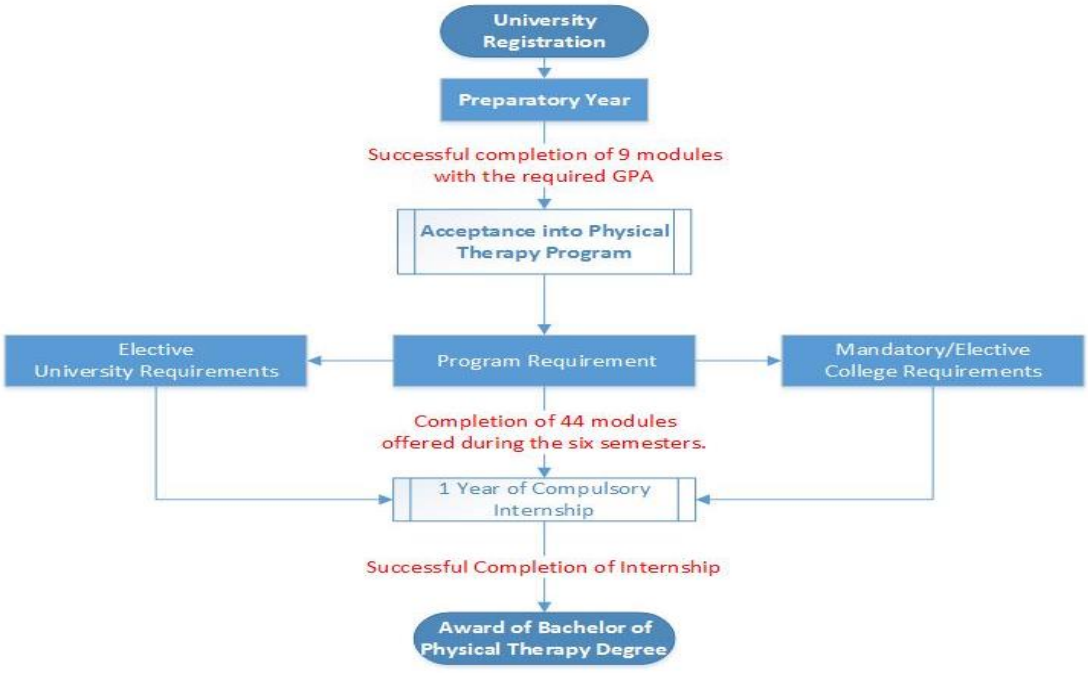

Table 1.1.5: Physical Therapy Program Organizational Structure

The Physical Therapy Program is offered as a full-time on-campus day-time program, requiring for graduation the successful completion 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 prestigeous hospital/hospitals in the Kingdom. The classes are offered from Morning 08:00 till 17:00 on all weekdays (Sunday to Thursday).

1.1.6 Workload and number of credit points (CP) to be awarded in the study program according to the European Credit Transfer System (ECTS) [1]

- workload in hours for awarding one CP (with specification of the corresponding paragraphs in the exam regulations),

According to the credit system used to measure the length of studies at Majmaah University;

- One (1) theory credit Hours = 1 Hour
- One (1) lab/practical credit Hours = 2 Hours
- One (1) clinical credit Hours = 3 Hours

- workload in hours for the entire study program,

The total workload for the entire programs was calculated as 8425 Hours, which included the contact hours, Internship Training and self-study hours. The internship workload were calculated based on 52 weeks of training from 08:00 to 05:00 pm 5 days a week.

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PROGRAM WORKLOAD

Credit				Contact Hours						
Theory	Practical	Clinical	Total	Theory	Practical	Clinical	Self Study	Final Exam	Internship	Total
85	44	8	137	1275	1320	360	3200	190	2080	8425

Fig 1.1.6: Total program workload

Conversion of workload to European Credit Transfer System (ECTS)

Total Contact Hours/Total Duration = 8425/5 =1685 Hrs. /Year

Average Annual Contact Hours/ECTS Credit = 1685/30

= 56 ECTS Credit/Year

= 281 ECTS Program Credit

After converting the total workload of Physical Therapy program according to ECTS system, approximately 281 ECTS is assigned to the program.

[1] http://ec.europa.eu/education/lifelong-learning-policy/doc/ects/guide_en.pdf

- attendance time or number of contact hours in the study program overall as well as the share of self-learning time (and work placement time during the study program) in hours,

  Total attendance time for the Physical therapy program, where the students are undergoing contact learning in the form of lecture, lab/practical session and clinical practice constitute 37% (3145 hours) of the total program. The self-study time spent by the student for preparing homework, assignment, lab work, logbook and exam preparation constitute 38% (3200 hours) and the Internship constitute 25% (2080 hours) of the total program.

- Number of CP to be awarded for the final module (for the thesis project).

  The Physical therapy program does not require a thesis for completion and award of degree. This aspect is covered in the final semester by the PHT457 module where the students prepare a research study and is awarded grade for it.

1.1.7 Number of semesters required to complete the study program.

Eight Semesters at the university and a one-year noncredit compulsory rotatory internship at hospitals are required to complete the study program. Out of the eight semesters, the initial two are taken under the preparatory year deanship's supervision.

1.1.8 Initial enrolment in the study program

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.

1.1.9 Number of places available in the program (and number of students already admitted for each respective semester, if applicable),

Total 60 students are accepted in Physical Therapy program every year; maximum 30 students can be admitted at male or female section. Details of the number of students in different level for the academic session 2014-15 (1435-36 H) are provided below in the table:

Level/Semester	No of Students		Total
	Male Section	Female Section	
Level 1	4	0	4
Level 2	11	1	12
Level 3	43	45	88
Level 4	15	13	28
Level 5	40	20	60
Level 6	28	2	30
Level 7	15	14	29
Level 8	0	0	0
Level 9	13	17	30
Total	169	112	281
Graduated			
2013-14	25	11	36
The students are assigned the lowest level in which they have any incomplete course/s.			

Table 1.1.9: Level/semester wise student's enrolment details for the 1st Semester 2014-15 (1435-36 H)

1.1.10 Tuition fees: specification of services that are covered by tuition fees

No tuition fees is being charged from students. All the students receives full scholarship after being accepted at Majmaah University. In addition to it the Ministry of higher education pay monthly stipend of 1000 SR for each student until they graduate.

1.2 Modularization of the study program and exam system

1.2.1 Modularisation

- total number of modules in the study program,

Total fifty three (53) modules along with one year non-credit but mandatory, rotatory internship is required for complete the Physical Therapy Program. (See Appendix-3)

- number of (required/elective) modules to be completed by the students in the study 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.

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MANDATORY/ELECTIVE PROGRAM MODULES

	Mandatory	Elective	Required
University Requirements	9	6	15
College Requirements	1	2	3
Department Requirements	33	2	35
	Total Program Module		53

Fig 1.2.1: Distribution of required/elective module for Physicaltherapy Program

- number of CP to be awarded per semester (particularly for part-time study programs),

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

- Information on periods during the study program for stays at other universities and/or in practice.

  A mandatory one year 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 are awarded the Bachelor degree of Applied Medical Sciences in Physical Therapy after successful completion of all clinical rotations, competencies and objectives.

1.2.2 number of program-specific modules as well as the number of modules that can be provided from other study programs at the university or studied together with students from other study programs (with specification of the respective scope in CP)

- Information on ensuring the program-specific module objectives in the modules offered together with other study programs of the university.

  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.

- information on the organization of the modules used together with other study programs of the university (if applicable),

  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. (Please refer Appendix 4 for the Summary University/College electives and preparatory year details.)

- In the case of cooperation with other universities, companies and other institutions: which institution is responsible for which parts of the curriculum.

  The department of Physical therapy is responsible for implementing the complete program curriculum.

1.2.3 Skill-oriented design of the exam system (orientation toward the defined educational objectives being pursued in the specific department and across multiple departments) and organization of the module-related exams

The assessment measures are designed to evaluate the effectiveness of teaching methods for delivering the intended program outcomes. A range of assessments strategies that matches all aspects of the instructional plans are 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 a 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.

- number and type of module exams (per semester and in the study program),

  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.

- Timing of the exams during the study program,

  First Midterm Examination : 6/7th week of the semester

  Second Midterm Examination : 12/13th week of the semester

  Final examination : 16th to 18th Week

- repeatability of exams and timing,

  For both the midterm and final exams, the students who are unable to take these exams are required to apply for reexamination. Based on the merit of the applications, within the prescribed bylaws the department council send recommendation to the college council for reexamination. For all the internal assessment procedures, the department council takes decision based on the merit of individual cases.

- information on the designation of the ECTS grading scale according to the current requirements of the ECTS Users' Guide[2],

  In all categories of courses, the students are assessed by a grade according to the following scale:

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ACADEMIC GRADE

Code	Score	Points	Meaning
A+	95-100	5	Exceptional
A	90 less than 95	4.75	Excellent
B+	85 less than90	4.5	Superior
B	80 less than 85	4	Very Good
C+	75 less than 80	3.5	Above Average
C	70 less than 75	3	Good
D+	65 less than 70	2.5	High Pass
D	60 less than 65	2	Pass
F	less than 60	0	Fail

Table 1.2.3: University grading system used for evaluating the progress of the students of the Physical Therapy Program.

The academic grade is a statement of a student's academic progress that includes all the courses he studies in each semester with their codes, numbers, credit hours, the obtained grades, the values and the codes of those grades. The record also shows the Grade Point Average (GPA) and the Cumulative Grade Point Average and statement of the general grade in addition to the courses a transferred student has been exempted from.

[2] http://ec.europa.eu/education/lifelong-learning-policy/doc/ects/guide_en.pdf

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GRADE POINT AVERAGE (GPA)

Course	Credit	Grade %	Grade code	Grade weight	Number of points
PHT223	2	85	B+	4.5	9
PHT213	3	70	C	3	9
PHT222	3	92	A	3.75	14.25
PHT218	4	80	B	4	16
Total	13				48.25

Table 1.2.3-b: Example for calculating Grade Point Average and the Cumulative Grade Point Average.

The first semester grade point average = Total Grades/Total Credit

= 48.25/13

= 3.7 GPA

Cumulative GPA = (GPA Sem^{1}+GPA Sem^{2}+GPA Sem^{n}) / Number of Semester

- regulations on compensation measures for students with disabilities and chronic illnesses with regard to the scheduling and formal requirements in the study program, for graduating with certificates of achievement concluding or accompanying the course of study as well as within the framework of aptitude assessment procedures and on their publication by the university.

Majmaah University accepts students with special abilities and supports them with, monetary allowance, special classrooms and teaching aids according to their disabilities. Individual cases are forwarded to the concerned department and the department council sends back their recommendations through the college council based on the degree of disability and the program requirements.

As the Physical Therapy Profession requires a very high level of physical and mental fitness, the students with physical and mental handicap affecting their ability to complete the program requirements are not accepted to the program.

1.2.4 Didactic concepts and methods of teaching (lectures, seminars, exercises, project work, study groups, work placement phases)

- The departments emphesive Interactive lectures in which topica and concepts are explained and explored interactively, constantly referring to relevant literature. The Students also undergo question answer session, in which they exchange information, ask questions and discuss the subject matter and the assignment(s) of the course.
- The required psychomotor skills and attitudes are taught mastered during the laboratory and Clinical training sessions. First these skills are explained and

demonstrated to the students through the Pictures, Videos and Role Playing. Then they are encouraged to pratice them on modles and then on patients under supervision till they master the techniques.

- The students are also provided coaching sessions during the faculty office hours to explore the topics directly related to their assignment or course work.

1.2.5 Integration of electronic/multimedia forms of teaching and learning (e.g. learning platform); integration of distance learning components/elements (with specification of their scope and contents)

The classrooms are well equipped with smart board, which are connected with internet facilities. These smart boards provide a dynamic and interactive environment for utilization of various multimedia formats, including pictures, designs, video, online training etc.

- Desire to learn (D2L) Learning Management System (LMS): The E-learning and Distance Learning Deanship provides its LMS (D2L) to the students and faculty through the link http://mu.edu.sa/en/deanships/deanship-e-learning-and-distance-learning/e-learning-system. Once the faculty is logged in, he should be able to see all the courses allocated to him for the current semester. All the students, who are registered for those courses have access to the courses on the Blackboard system.
- EduGate (Electronic Academic Services System): The Deanship of Admission and Registration provides its academic services system (EduGate) to MU students and faculty through the link http://edugate.mu.edu.sa/mu/init. Through EduGate, students can register courses online; monitor their academic progress, view and print transcripts/grades, and more. Course instructors can, in turn, monitor their students' academic progress, insert grade and absences information for their students, and more.

1.2.6 Information on the integration of internships into the study program

Internship primarily provides an opportunities for the student to integrate didactic concepts of physical program with professional skills in the clinical environment. Entry-level physical therapy practice encompasses safe and appropriate physical therapy care delivered across a continuum that includes a culturally, medically, educationally, economically and demographically diverse body of clients. The

Internship program focuses on providing each student with supervised practice opportunities in a variety of clinical environments, representative of this continuum.

- information on the support/supervision of the internship by instructors of the university,

The Department designate an Internship Coordinator coordinate with the Clinical Instructor (CI) and the students at the clinical setting. At the beginning of the Internship the CI is provided with the Internship Module description and students assessment rubrics. The CI supervise the students and observe their clinical and professional practice during the internship period and provide periodic and continuous report to the Internship Coordinator at the department.

The specific content of the clinical internship varies with the clinical site to which the student is assigned. As the student is not yet a licensed professional, the student performs under the supervision of the CI(s). Students will participate in activities and duties normally carried out by the physical therapist(s) in that facility, including but not limited to patient care, documentation, rounds and/or patient care conferences, communication with other individuals involved in patient care.

- information on the correlation of the practical contents with the intended objectives of the study program,

Students utilize the information gained early in the curriculum (e.g. basic sciences and basic clinical skills) as a foundation for the development of analytical skills. As the students' theoretical base of knowledge expands, students will use problem-solving skills to gather data, identify problems, and choose among alternatives for successful resolution. Students are challenged throughout the professional curriculum by a wide variety of problem-solving activities to analyze realistic situations and develop strategies for examination, evaluation, diagnosis, prognosis, intervention, and outcomes analysis. Clinical experiences interspersed throughout the professional curriculum serve to reinforce knowledge and skills acquired in the classroom and laboratory.

- information on quality assurance of the internship (e.g. qualification of the practical instructors, practical instructor meetings; submit work placement regulations, if applicable).

After the completion of final level of the course, the department conducts a Graduate record Exams which assess the students' knowledge and critical thinking before

entering the hospital environment for patient care. The questions in the Exams cover all the major specialties where the role of Physical therapist is mandatory.

The internship coordinator at the department ensures that at the beginning of internship communicates and coordinate with the Clinical Instructor at the training site and provides him the training and assessment manual, learning outcomes and training regulations. The Clinical Instructor provide the internship-Coordinator periodic updates in the form of results of continuous assessments, attendance etc. At the end of the Internship, the department conduct a summative assessment exam at the department. The assessment reports from the clinical sites amount for 70% weightage and the remaining 30% is given through the Summative Assessment Exam. The student must achieve a total overall score of 70% or above to be eligible for graduation.

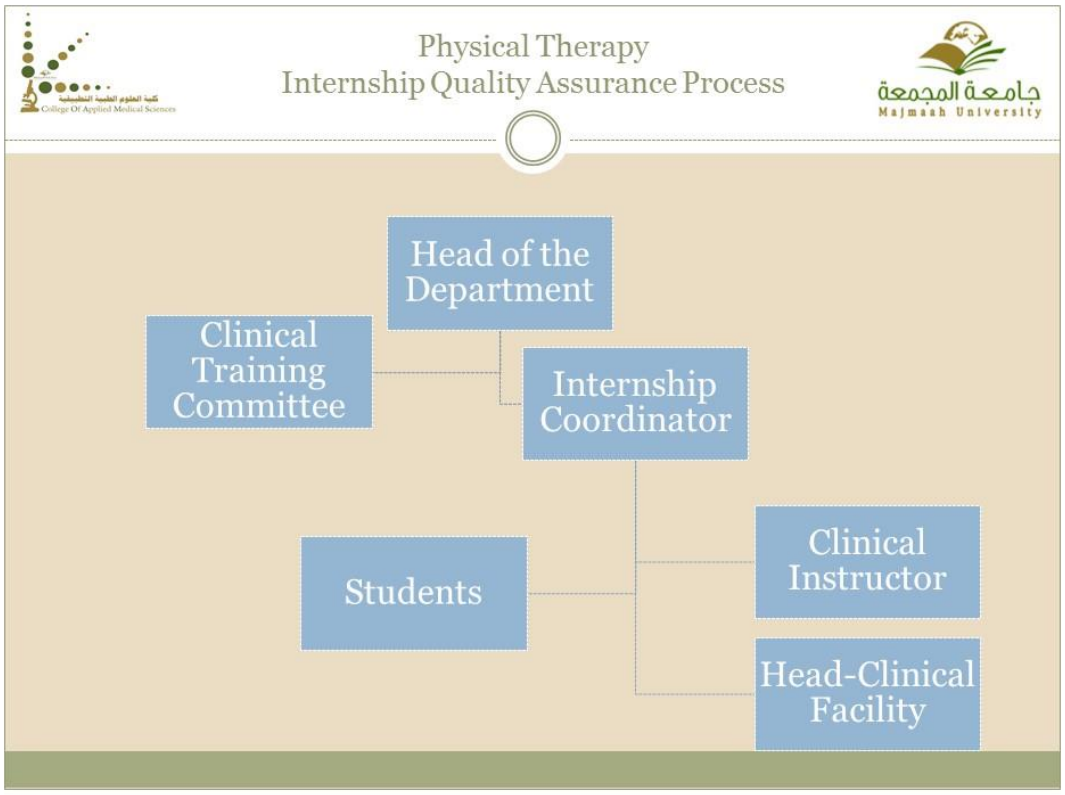

Table 1.2.6: Quality assurance in Internship Training.

1.2.7 Integration of the research into the course of study

- Connection of the study program to the scientific research concentrations in the department/faculty or of the applying university (and of the co-operating universities, if applicable).

At Majmaah University, research is an integral part of the all the study programs. These principal and practice of research in incorporate din the Physical Therapy program to promote Evidence Based physical therapy Practice. The process of studies of research embraces elaboration of theoretical knowledge of students, practical application of investigation methods and preparation the research work. There are two modules PHT 361 in level six and PHT 457 in the eighth semester which direct deals with research methods and research study.

The CAMS conducts Scientific day every year to motivate the Research activities of the Faculty and Students. The Research committee will announce the notification to submit the research studies in the form of scientific posters and Oral presentations. The expert committe will judge the studies on scientific day and the best papers are awarded with prizes and certificates. The student who excel are given special oppurtunities to participate in the scientific conferences held in the other parts of the kingdom.

1.2.8 International aspects of the curriculum

Saudi Arabia is a progressing country and students need to be specialists who satisfy not only the needs of Saudi society but also prove to be a competent clinician/academician according to the world Physical therapy standards. To this aim, collaboration with universities and social establishments is implemented while improving the programs curriculum time to time. The curriculum adapted in the Department of Physical Therapy is flexible and adapting as per the needs of the local and global change.

- internationality of the contents of the curriculum,

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.

- courses/modules instructed in foreign languages (portion of courses/modules instructed in foreign languages, if applicable).

The mode of instruction for the Physical Therapy Program is English except for Islam and Arabic language courses which are taught in Arabic.

1.2.9 Internationality of the study program

- options for studying abroad,

As the curriculum development process has pervasively consulted and reviewed the related programs at many of the top universities around the world and had considered the scope for higher studies,expected employment needs in the private and public sectors for programs graduates.Therefore many of the the graduate of the Physicaltherapy are pursuing their higher education in Canada, USA and European countries.

- options for mobility.

The program allows the students for Indernational mobility, The student can continue their education in the Kingdom provided if he matches the eligibility criteria.There are also provision for mobility within the universities functioning in the kingdom.

1.3 Objectives of the study program and their rationale

1.3.1 General objectives of the study program (aspects for specific departments and across multiple departments)

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.

1.3.2 Qualification objectives of the study program

- with regard to scientific or artistic qualification,

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.

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.

- qualification to engage in a qualified occupation,

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.

- qualification for social responsibility and

The curriculum is designed to Cultivate knowledge, understanding and appreciation of the social, political and economic aspects of health. It emphasis the student to become a responsible Physical Therapist who practice in an ethical and legal manner. The methods and treatment procedures in community health are taught to the students as a part of education in the Physical Therapy courses.

- for personality development.

Model leadership, professionalism, and lifelong learning through involvement in the professional development forums and community interdisciplinary collaboration.

1.3.3 Output-oriented description of the departmental, methodical, learning and social skills/key skills as well as overarching skills (with specifications of the skill level, if applicable)

As per the National Qualifications Framework for Saudi Arabia the learning outcomes, overreaching skill and competencies for the physical therapy program are categories according to the domains of learning.

Knowledge

- The student will acquire a comprehensive and well-founded knowledge in the field of Physical therapy with an understanding to recognize how other disciplines relates to it.
- The student will identify the conditions requiring physical therapy management.

Cognitive Skills

- The student will interpret results of the physical therapy examination and other diagnostic procedures for accurate physical therapy diagnosis.
- The student will develop the process of critical thinking, clinical reasoning, decision making, and exercise sound clinical judgement.

Interpersonal Skills & Responsibility

- The student will demonstrate ethical and moral responsibilities and social justice in Physical therapy practice that are consistent with the needs of the patient and society.
- The student will show the core values of professional identity: accountability, altruism, compassion, excellence, integrity, professional duty, and social responsibility.
- The student will identify the specific contribution of physical therapy interventions in the health care delivery system for the betterment of community.

Communication, Information Technology, Numerical

- The students will display culturally appropriate behaviors when communicating with patients and other health care professionals.
- The student will use the updated technology to gather and evaluate data to assess the suitability, accuracy and reliability of information.

Psychomotor

- The student will perform patient evaluation using appropriate tests and measures for accurate diagnosis and physical therapy treatment.
- The student will construct an appropriate physical therapy management consistent with the diagnosis and prognosis.

1.3.4 Presentation of the study program structure (e.g. which departmental or methodical foundations are laid in which modules and how these are built upon in which modules), explanation for special forms of study (e.g. extra-occupational study).

- 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.

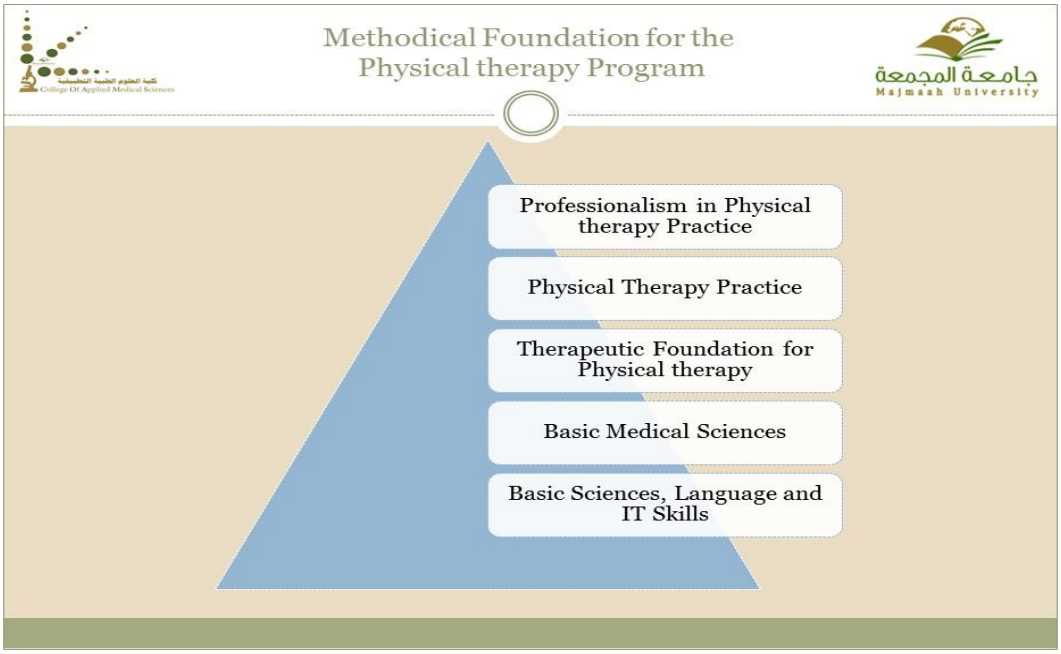

Table 1.3.4: Methodical Foundation for the Physical Therapy Program.

1.4 Labour market situation and career opportunities

1.4.1 Information on the intended and possible career fields as well as the career opportunities for the graduates of the study program (document experiences, if applicable)

Our graduate have ample job prospects in Hospitals, Nursing homes, Residential homes, Rehabilitation centers, Private clinics and in Academic institutions across Saudi Arabia. Additionally, our graduates with qualification in physical therapy can work at Outpatient clinics, Community health care centers or Primary health care centers, Fitness centers or Health clubs, Occupational health centers, Special schools and Senior citizen centers etc. According to the growing developments in Saudi

Arabia, it is expected that more hospitals will be established in the Kingdom, as there is need for about 30000 to 35000 beds for patient care. The growing demand in health sector paves way for job opportunities to health professionals.

1.4.2 Information on the current situation or situation to be expected on the labour market (with specification of sources)

It has been estimated that the needs of the Kingdom for the allied medical health professionals is about 130,000, but only 30% of this number is currently Saudi. It is obvious from these facts that there is a need for more allied health colleges and institutions to meet the current as well as the future demands for these health professionals.

1.5 Admission requirements and rules of recognition

1.5.1 Explanation of the admission requirements for the study program (including selection procedures and criteria, with specification of the regulations)

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.

1.5.2 Explanation of the regulations on compensation measures for students with disabilities and chronic illnesses with regard to the admission requirements (with specification of the regulations)

As a part of Admission procedure, the students should undergo Pre fitness screening program. The university follows the structural regulation laid down by the Ministry of Social Welfare, therefore the university facilities are planned to provide a barrier free environment for physically challenged students. As there are no general by-laws governing the compensation for students with disabilities and chronic illnesses these issues, decision on these issues are taken on individual basis by the concerned department and the departments.

1.5.3 Explanation of the rules of recognition for credits transferred from other universities (domestic and abroad) according to the Lisbon Recognition Convention (with specification of the regulations)

Transfer to the college can be done through three different channels as follows:

i. Transfers from other universities:
   - Student should have a cumulative GPA of at least 2.0 (out of 5.00) or equivalent from reputable applied medical sciences or Physicaltherapy programs.
   - Student should satisfy the condition of having percentage grade at least 75% in Secondary School basic sciences.
   - The maximum allowable percentage of credit hours that could be transferred by students from other universities is 40% of the total credit hours in the curriculum.

ii. Transfers from other health colleges within the university:
   - Students can apply for transfer only after studying at least one semester (excluding summer semester) in the college they are transferring from.
   - Student should have a cumulative GPA of 2.0 (out of 5.00)
   - Student should satisfy the college admission conditions.

iii. Transfers from other programs within the College of Applied Medical Sciences:
   - Student should have a cumulative GPA of more than 2.0 (out of 5.00)
   - The departmental committee studies the application and recommends acceptance for approval by departmental council. Then the recommended applications will be forwarded to the college council for final approval.
   - All of the previous courses he has studied, including his grades and his term and cumulative averages, will be entered into the academic record of a student who

has changed from one major to another according to the provisions of the regulations governing examination.

- Two summer courses will be considered to be the equal of one academic term.

iv. Transfer Courses:

- Students can transfer courses that have been studied in other universities. The maximum allowable percentage of credit hours that could be transferred by students from other universities is 40% of the total credit hours in the curriculum. These courses are evaluated by the Department Academic Committee and faculties who teach these courses and approved by the Department head. Transferred credits are not included in the GPA and a pass grade is assigned to those courses.

1.5.4 Explanation for the admission qualification in relation to the educational objective being pursued (especially for master's programs)

Not applicable as the department is offering only Undergraduate Program in Physical Therapy

1.6 Quality assurance

1.6.1 Information on the quality assurance concept regarding teaching and research (attach overall concept, evaluation regulation, etc., if applicable); description of the organizational and decision-making structures with regard to quality assurance.

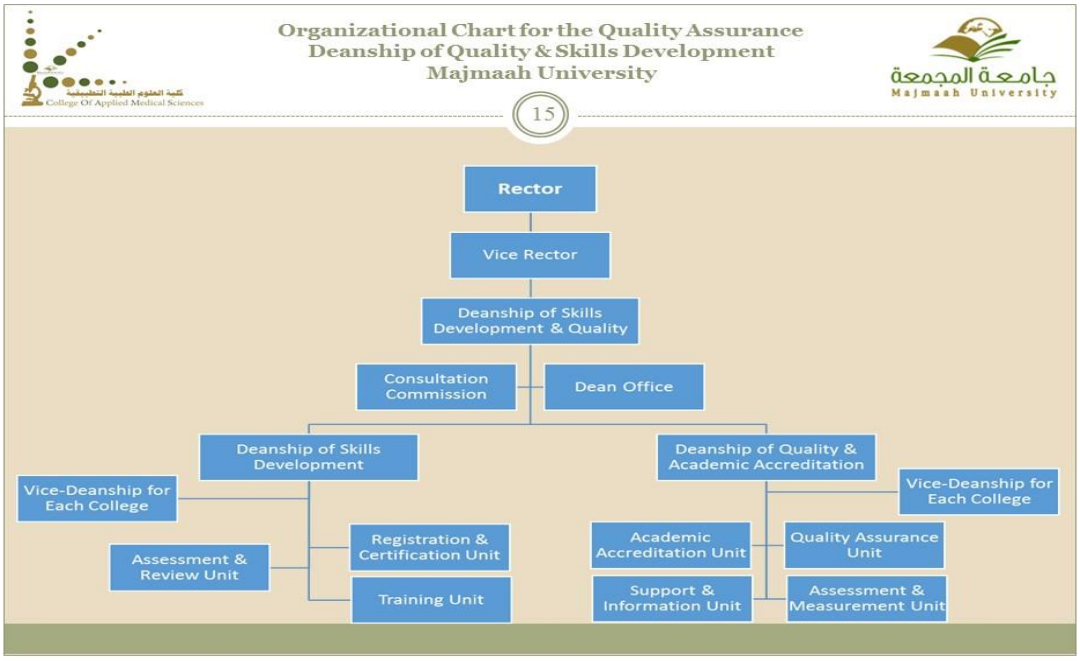

Table 1.6.1-a: Organizational structure for Regulating Quality Assurance at Majmaah University

The Majmaah University follows the National Commission for Academic Accreditation and Assessment (NCAAA) standards, which has been established in the Kingdom of Saudi Arabia with responsibility for determining standards and criteria for academic accreditation and assessment and for accrediting postsecondary institutions and the programs they offer.

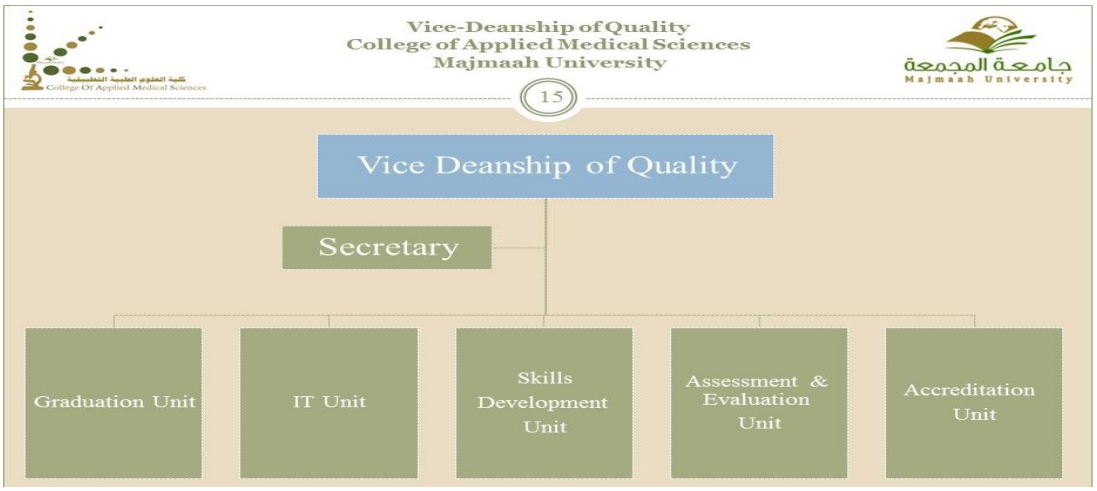

Table 1.6.1-b: Organizational Structure of Quality Centre at CAMS

The NCAAA quality standards for accreditation have been defined in eleven areas of activity for both institutions and programs. The Saudi National Qualifications Framework (NQF) provides supporting guidelines and specifies generic standards of learning outcomes within five domains of learning. Supporting documentation includes key performance indicators, student surveys, self-evaluation scales, and templates for program and course specifications and reports.

1.6.2 Information on the quality assurance measures of the study program to be accredited; information on the extent to which the quality assurance measures of the study program to be accredited are integrated into the overarching quality assurance measures of the entire university

The overreaching concepts of quality assurance process of the Physical therapy program are based on; profile of the student population; the student progression and success rates; employability of graduates; students' satisfaction with their program; effectiveness of teachers; availability of learning resources; and the Universities key performance indicators.

The Department coordinates with the Deanship and Vice Deanship of Quality Assurance for the development and evaluation of various quality measures for the

Physical therapy program. The department's quality assurance measures are coherent with the university quality framework based on NCAAA.

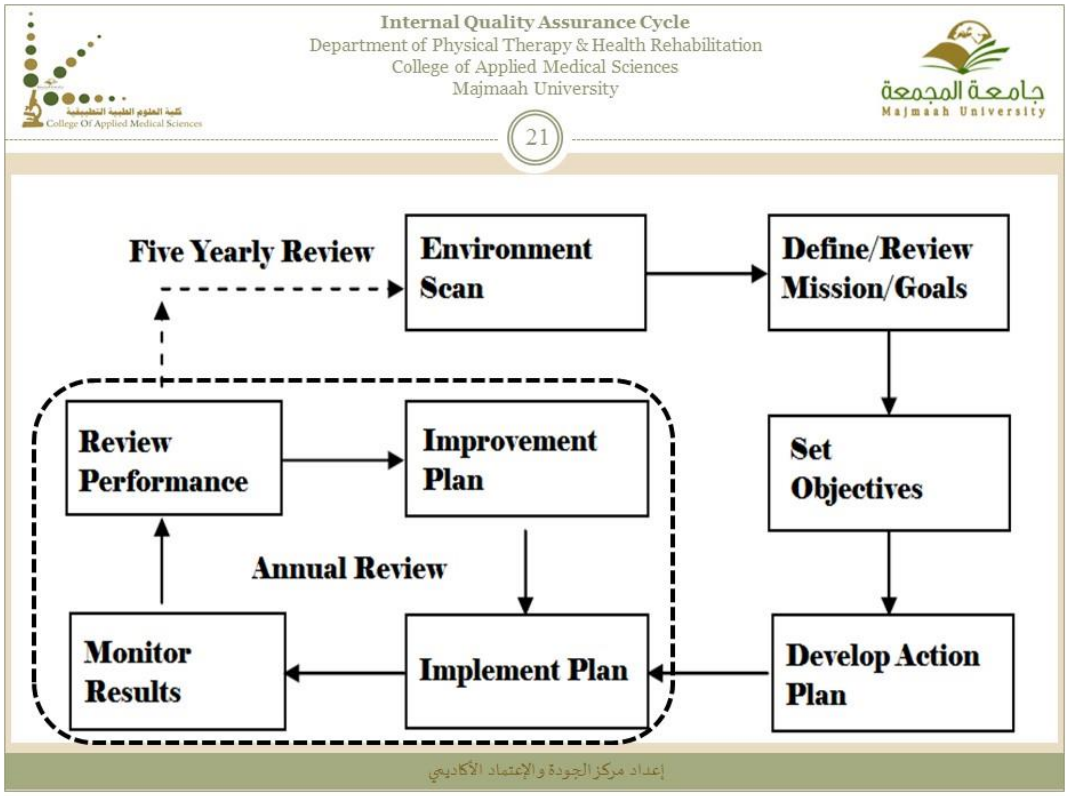

Fig 1.6.2-a: Internal Quality Assurance Cycle for the Physical therapy Program

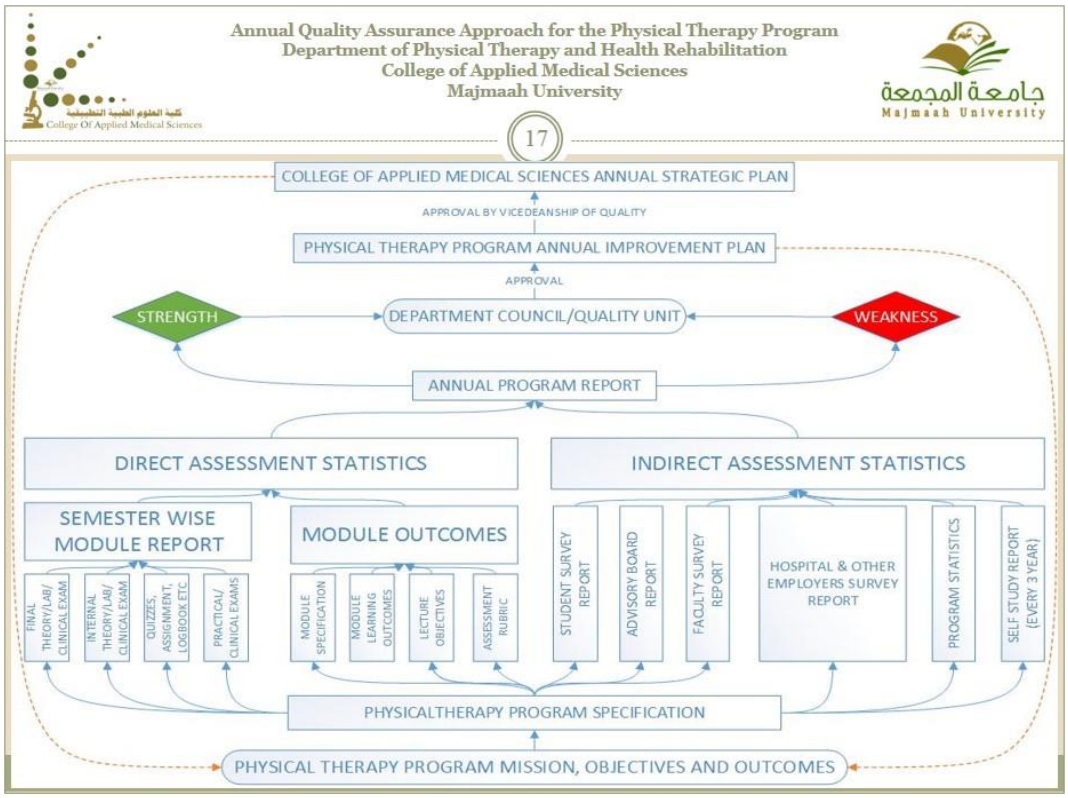

Table 1.6.2-b: Annual Quality Assurance approaches for the Physical Therapy Program

1.6.3 Information on measures for module evaluation; information on the implementation of the obtained evaluation results with regard to the improvement of the study program concept; integration of students into the internal quality assurance within the study program.

At the beginning of the each semester,

- The module coordinators are decided and provided with the approved module specification to be taught.
- This module specification along with assesment rubrics and any other relevent information are provided to all the studnts taking that module.
- One of the main responsibility of the module coordinator is to ensure the timely and uniform delivery/assessment of the module at all the sections it is being taught in that perticular semester.
- The module coordinator after consultation with all the teachers send recomendations in the course report regardin revision of the module learning outcome, revision of the assesment mode, modification of course content, requirements for special tools/equipment for implementiong the module objectives or any other difficulty faced during that semester.
- This course report is then deliberated upon by the Academic Advisory Committee, Quality Assurance Committe and the Department council.
- If required an internal/external expert committe is constituted for module evaluation.
- Annualy as part of indirect assesment of learning outcomes, various surveys are conducted to take the opinion of all the stakeholders; including, the student, facult, employers, administrators and the community.
- Based on these recomendation if required the department council sends a request for modification in the aforesaid module to the College/University Council.
- The students are provide details of the module objectives and specification at the begining of the semester.
- The students provide their feedback, suggestions and opinions in various surveys conducted by the quality assurance unit.
- The feedback are also obtained from students during the Final exams to recieve the opinions about the Question papers after the completion of respective exams.

1.6.4 Information on the evaluation of the practical relevance of the study program (e.g. through graduate surveys, follow-up studies)

To evaluate the relevence of the Physical Therapy Program periodic feedback are obtained from all the stakeholders, including the graduated students, professional and regulatoty bodies like Saudi Physical Therapy Assosiation and Saudi Commission for Health Specialties, various hospital and rehabilitation centres etc. Their openion and suggestion regarding the program and curriculum are discussed in the department council, if acceptable then are added to the annual improvement paln.

1.6.5 Information on the evaluation of the student workload (or specification of the estimated student workload based on experience in the case of initial accreditation)

The student's workload is assigned based on his cumulative GPA every semester. The students with GPA of 2.0 are eligible to register up to 14 credit hours, while those of 4.5 GPA or above are eligible for up to 20 credits as a maximum. Students are allowed to take the maximum credit of 23 if he is in final level of graduation.In special cases students are allowed to take up to 25 credits provided the Department council approves the case.

1.6.6 Statistics on enrolment applications, admission procedures, numbers of students and numbers of graduates with regard to the study program to be accredited and, if applicable with regard to the preceding model (respectively divided according to semester and gender).

MAJMAAH UNIVERSITY
COLLEGE OF APPLIED MEDICAL SCIENCES
BACHELOR OF PHYSICAL THERAPY

Students Registration Details for the Accademiv Year 2014-2015

Level/Semester	No of Students		Total
	Male Section	Female Section	
Level 1	4	0	4
Level 2	11	1	12
Level 3	43	45	88
Level 4	15	13	28
Level 5	40	20	60
Level 6	28	2	30
Level 7	15	14	29
Level 8	0	0	0
Level 9	13	17	30
Total	169	112	281
Graduated			
2013-14	25	11	36
The students are assigned the lowest level in which they have an incomplete course/s.			

Table 1.1.9: Level/semester wise student's enrolment details for the 1st Semester 2014-15 (1435-36 H)

For admission criteria Student Admissions refer section 1.5.1

1.6.7 Information on the documentation and transparent publication of information on the study program as well as on the exam requirements including regulations on compensation measures for students with disabilities

The students have access to the EDUGATE system through the deanship of admission and registration, which provides them details about their, academic requirements; in terms of number of credit taken/left, the complete academic plan and their attendance. The edugate also helps the students in automatic selection of modules, adding and dropping of modules, managing their schedules and information about examination ant their grades and cumulative GPA.

The examination process conducted by the college Examination committee follows a transparent procedures right from fixing the schedule without any clashes between the courses for students who have opted subjects in different level. The rules and regulations are announced to the students and Faculty well in advance. A common Exam hall is arranged for the conduction of exam and Teachers from various departments are deputed for the invigilation duties. The grievance from the student's side are recorded in the website and the compensation measures are ordered after the perusal of Department council.

1.6.8 The information on the support of the student, general academic counseling; department-specific academic counseling, office hours of the instructor; communication options between instructor and students; support of the students.

The process of advising at the Department of Physical Therapy students starts with an orientation program specifically designed to inform the new students about the various program at the college. Faculty members present lectures from each program. CAMS has a system for student advising which includes a college committee for advising, where a faculty member represents each program.

After enrolment to the Physical therapy program all the students are assigned an academic advisor from the faculty member, who assists him in getting familiar with the available services, understanding the University and Program policies, curriculum, and any issue affecting the teaching and learning experience. The academic advisor is also responsible for monitoring and guiding the student progress throughout his academic education. Each semester, the department holds a meeting with students where the students and faculty exchange views and opinions regarding curricular, extracurricular and career matters.

1.6.9 Information on the concept for the promotion of gender equality as well as the promotion of equal opportunities for students in special living situations (e.g. parents, foreign exchange students, students with an immigrant background, people from educationally deprived backgrounds)

The department of Physical Therapy and Health Rehabilitation functioning in Male and Female sections follows the same rules and regulations. The Faculty & students from both the sections have equal rights and responsibilities governed by the university by laws. It is ensured that high quality of education is delivered to both Male and Female students.

1.6.10 Information on the special support of students with disabilities and chronic illnesses as well as on the publication of the information.

The university follows the regulation laid down by the Ministry of Social Welfare, therefore and provides the information in the prescribed format as required.

2. Human resources, equipment and furnishings

2.1 Teaching staff

2.1.1 Specification of the number and composition of teaching staff in the study program

- total staff demand required for the study program at full-time enrolment[3] in week hours per semester,

The physical therapy program at full time enrolment will require

=Total Program Credit*Days/Average Credit

= (137*5)/14

= 50

The abovementioned number includes the faculty members responsible for Preparatory year.

- number of all full-time lecturers as well as the scope (in week hours per semester) of professorial teaching in the study program,

The University specifies the general workload for Lectures (16) Asst. Prof (14), Associate Prof (12) and Professor (10) credits per weeks.

- number of adjunct professors,

Eight

[3] with regard to all cohorts as well as to the utilization of the admission places available

- percentage of the study program to be accredited that is taught by professors, lecturers and adjunct professors, practitioners, etc.,

  Out of 137-program credit, 90 credits are taught by these professionals, which amounts for 66%.

- faculty/student ratio in the study program with full enrolment capacity utilization (ratio of the number of full-time teaching loads of the full-time instructors to the total number of all students in the study program)

  The faculty student ratio for the current semester is (Appendix-5)

  = 251/281

  = 0.86

2.1.2 System and criteria for the selection of the teaching staff

Based on the annual Improvement plan every year the department request for the desired number of vacancies. Decisions and recommendations are then reported to the university-wide Deanship of Faculty and Staff Affairs through the Dean of the College. Positions are publicly advertised at local newspapers, University website, as well as in international newspapers and jobportals.

Based on the requirements the interviews are conducted at the department; if the desired qualified individual is not available, then through the Saudi Cultural Attaches the interviews are conducted at international locations.

Administrative and technical staff are recruited by the University based on the College nomination. Currently, the College has 29 administrative staff, 8 technicians and 88 teaching assistants and lecturers. These are considered adequate to support the College academic programs.

2.1.3 Specification of measures for human resources development and qualification, opportunities for university didactic continuing education for teaching staff.

All College staff members are encouraged to regularly attend training and professional-development workshops held either within University, by the Deanship of Quality and Skills Development, or at other national and intenational institutions. The College has a policy to reward outstanding academic, technical and administrative performance. Such rewards include recognition of their merit by announcing on the website the name of the employee of the month in recognition of his/her outstanding performance.

All the faculty member is entitled to attend national and international conferences,

symposia and workshops. Faculty members are given financial support for transportation, conference/workshop registration fees and living allowance for the event duration.

Moreover, career and personal development programs at the Universty provide faculty with opportunities to build productive and satisfying careers while contributing to the achievement of the University‘s mission. The University has established a Deanship for Quality & Skills Development which plays a major role not only in organizing the workshops and seminars, but also in identifying the staff needs and setting strategies to meet those needs.

2.2 Further human resources

2.2.1 Further human resources in the study program: work placement coordination, study program coordination, etc.

2.3 Facilities for instruction and research

2.3.1 Premises (lecture halls, seminar rooms, laboratories, student workstations etc.)

The Physical therapy department is housed within the College of Applied Medical Sciences building and shares some common facilities with other departments. The labs and classrooms are spacious, easly accesable and are located on the ground and first floor of the college building. The faculty offices are reasonably spacious, well-equipped, and comfortable for their professional needs and responsibilities.

Classrooms are adequately equipped with educational electronic media and suitable seating. Laboratories are well equipped for practical training of students according to the course requirements. Certified technicians are available for laboratory management and course tutoring. All the laboratories follow college safety instructions that ensure the safety of students and equipment. A large room at the college is equipped with the latest personal computers connected to the internet, and is available to all students at the college. The students can access internet anywhere on campus.

The department has five classrooms (~80m^2each) exclusively available for teaching the Physical therapy courses. All five rooms are equipped with e-podium with internet access, active board, white board, data show, projector, and document camera. Each classroom has suitable seating for at least thirty to fourty students. The classrooms and the associated equipment are suitable and provide an excellent environment to students and faculty in order to achieve the program educational objectives and

student outcomes.

2.3.2 Library/libraries

- inventory (total, program-related inventory of books and periodicals),
- means for program-related new acquisitions (books and periodicals),
- access options for the library (opening hours, access on the weekend),
- access to databases.

The University library, which is centrally located within the campus. The current collection for the books and bound periodicals is good. MU has subscription to most of the periodicals related to Physical therapy program. This is in addition to the subscription to the several Electronic Library full-text databases. Students and faculty have also the access to Digital Saudi library (DSL) http://sdl.edu.sa/SDLPortal/EN/Publishers.aspx containing thousands of e-book, journal and periodicals.

2.3.3 Computer equipment, media equipment etc.

The students of Physical therapy department not only enjoy the use of its own computing resources, but also benefit from facilities provided by the college, and the University central library. Wireless internet access is installed at the college reaching all points of the college including staff and faculty offices and class rooms. All the students can access the wireless network using their ID number and their own password. The following college-wide and university-wide computing resources are available to staff and students:

Desire to Learn (D2L) Learning Management System (LMS): The E-learning and Distance Learning Deanship provides its LMS (D2L) to MU students and faculty through the link: http://el.mu.edu.sa/. D2L training courses are regularly offered in the College and at the Deanship of E-learning and Distance Learning. Once the faculty is logged in, he should be able to see all the courses allocated to him for the current semester.

EduGate (Electronic Academic Services System): The Deanship of Admission and Registration provides its academic services system (EduGate) to all the students and faculty through the link http://edugate.mu.edu.sa/mu/init. Through EduGate, students can register courses online; monitor their academic progress, view and print transcripts/grades, and more. Course instructors can, in turn, monitor their students' academic progress, insert grade and absences information for their students, and

more.

2.3.4 Funds for supporting staff, equipment and investment funds, extra funding

Based on the annual strategic plan the college specify its financial requirements in terms of infrastructure, accdemic and administrative requirements to the assigned deanship. After due delibration the University allocate annual budget to all the department which it receives from ministry of finance, Kingdom of Saudi Arabia. No budget is allocated to the college for faculty and staff salary, as it is taken care by the Dean of Personnal Affairs.

3. Institutional environment and structural conditions

3.1 Description of the university

3.1.1 Basic data of the university

- founding year with brief information about the development of the university,

The establishment of Majmaah University, which is deemed as a newly established one, came as a result of the decree of the Custodian of the Two Holy Mosques King Abdullah Bin Abdul Aziz Al-Saud and the Prime Minister and Chairman of Higher Education on Ramadan 3rd, 1430 - 24th of August, 2009 to establish Majmaah University. Majmaah University is established to serve a wide area including Majmaah, Zulfi, Remah, Ghat and Hawtat Sudair.

- total number of students (current status), number of departments/faculties and the offered study programs; planned study programs,

The total number of students enrolled at the Department of Physical Therapy are 265. Currently the Department is running one Physical Therapy Bachelor Degree Program. The Department strategic plan has proposed to open Doctor of Physical therapy program as and when the due approvals are received.

- information on program-relevant university location, if applicable,

The name of Majmaah University is basically derived from Majmaah Province, located 180 kl north Riyadh city. The same name is also referred to Majmaah city, which is the center of the province. The University has around 20 buildings for the administration, colleges, deanships, medical services and units. The University is meant to provide services of high quality in the field of research and education as well as serving the society of the people in the region.

- information on institutes and research facilities of the university,

The university Rectorship for Graduate Studies and Scientific Research represents one of the corner stones that would enable the university to become a pioneering educational institution. Under it three research center; Essential and Health Sciences Research Center, Engineering and Applied Sciences Research Center, and Human and Administrative Sciences Research Center has been established, which annualy fund research projects from all the colleges and departments.

The Sheikh Abdel Mohsen Al-Tweyjri chair for applied research of stroke at the College of Applied Medical Scinces also provide fundigs in the area of stroke research.

- Current developments or special features of the university.

The University of Majmaah has rapidly developed since the establishment period and makes a lot of achievements which enable it to occupy a prominent position among other Saudi universities. The achievements of the university range were in various fields, most importantly the field of quality assurance and the fulfillment of academic accreditation requirements. In compliance with the university striving to ensure a high quality of outcomes that will contribute in achieving the requirements of academic accreditation, the university has seen the dire need for a developmental project that will help in fulfilling these objectives. The project includes a number of major issues such as the development of institutional aspects and the promoting of quality concept. The project will cover all the academic units of the university and will be beneficial for all employees. This will help in making great achievements in the history of the university that will make it ready for obtaining the academic accreditation.

The construction of new building for the College of Applied Medical Sciences is in its advance stages. The construction work of a 400 beded University hospital within the Majmaah University main campus has been started . The University hospital provides an excellent clinical environment for the students there by helps in developing the professional skills.

3.2 Description of the department/faculty

3.2.1 Basic data of the department/faculty

- founding year,

Department of Physical therapy & Health Rehabilitation was established in the year 2009 to cover the need for Physical therapy specialists who are in great demand in all health institutions and rehabilitation centers. The establishment of this PTHR

program came at a critical time while health care systems have been witnessing an increase in the Musculo skeletal injuries and Medical ailments due to increase in sedentary lifestyle. The area of Rehabilitation and Physical fitness have a great need of highly qualified personnel.

- total number of students at the department/faculty (current status),

  281 students are enrolled in the Physical therapy program. For details, refer table 1.1.9.

- number of study programs in the department/faculty,

  Currently the Department of Physical Therapy & Health Rehabilitation is running only Bachelor of Physical Therapy Program.

- current developments and special features in the department/faculty.

  The Physical therapy Program is offered as a full-time on-campus day-time program, requiring for graduation the successful completion of 140 credit hours, which are delivered in the form of lectures, tutorials, and laboratories, and ending with a non-credit but mandatory one-year internship in health institutions or companies.

  The program is regularly offered at the main campus of Majmaah University (MU) in Al-Majmaah. After the completion of all courses, the students do one-year non-credit mandatory internship outside the MU campus in Physical therapy units of various hospitals under Ministry of health.

  A Physical Therapy out patient clinic will be established in the University Premises, which enables the students to observe the various injuries and diseases among the patient group. The expertize Physical therapy care will be provided by the Faculty Physical Therapists which gives a clinical exposure to our students.

Attachments

Appendix 1 Module template

Appendix 2 Template for brief CV of teachers

Appendix 3 Program Structure and workload

Appendix 4 Details of elective modules

Appendix 5 Faculty workload for the current Semester

Appendix - 1
Module Discription

Module Description: Emergency Care

This course includes teaching the methods of dealing with critical clinical cases. The student should know how to diagnos these cases, give the first aid procedure and call the ambulance in the proper time.

Module number: CAMS 231	**Module title: Emergency Care**
Level/semester:	Third level/ semester
Credit hours: 2	**Thereof lecture hours: 15**
	Thereof practical hours: 30
	Thereof self-study hours: 50
Language:	English
Learning outcomes/ Goals / Skills of the module:	1. Know the critical clinical cases. 2. Diagnose these cases. 3. Give the first aid of these cases. 4. Call the ambulance in the proper time.
Content of the module:	1. Ambulance care, definitions, concepts. 2. Critical emergency cases, diagnosis, first aid of cases. 3. Hypertension, coronary artery disease myocardial infarction. 4. Diabetes Mellitus 5. Renal Failure 6. Stroke 7. Diarrhea as an emergency & Dehydration 8. Illness 9. Burns
Examination:	Written/Oral examination, Practical/Clinical examination, Quiz, Assignment, Class Presentation, Practical/Clinical Log Book etc.

Module Description: Human Anatomy

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 number: **PHT211**	**Module title: Human Anatomy**
Level/semester:	Third level/ semester
Credit hours: 2	**Thereof lecture hours: 15**
	Thereof practical hours: 30
	Thereof self-study hours: 50
Language:	English
Learning outcomes/ Goals / Skills of the module:	1. Use correct anatomical terminology. 2. Describe the topographical relationships of anatomical structures. 3. Identify and discuss the structure of the main components of each system studied. 4. Describe the principal functions of the main components of each system studied and, by referring to their structure, explain how these functions are accomplished. 5. Demonstrate an appreciation of the ethics associated with the use of human cadaveric specimens in teaching and research.
Content of the module:	1. Cells & Tissues: Anatomical Nomenclature, Structure Of Cell, Reproduction Of Cells. Tissues: Epithelial, Connective, Muscle & Nervous 2. Embryology & Development: Early Human Development, Development of Individual Systems: Respiratory, gastro-intestinal, Urinary and Vascular System. Prenatal Growth in Form And Size, Neonatal Anatomy and Growth. 3. Skin: Types of Skin, Epidermis, Dermis, Nerves, Blood Vessels, age related Changes, Repair. Appendages of Skin: Pilo sebaceous Unit, Nail Unit. 4. Muscle: Types of Muscle, Attachments of Skeletal Muscle, Form and Function in Skeletal, Muscle: Form and Fibre Architecture, Functional Implications of Form. Muscle and Movement. Muscles and Fasciae of Head, Neck, Trunk, Upper Limb, Lower Limb 5. Hemolymphoid and Cardiovascular System:a) Haemal Cells and tissue, Haemopoiesis, Lymphoid Cells And Tissues. Blood Vessels, Thoracic Cavity and Heart. Arterial System, Venous System, Lymphatic. 6. Respiratory System; Nose and Paranasal Sinuses, Larynx, trachea. Bronchi, Lungs, Pleura, Mediastinum 7. Alimentary System; Oral Cavity, Abdomen, Oesophagus to Anus
Examination:	Written/Oral examination, Practical/Clinical examination, Quiz, Assignment, Class Presentation, Practical/Clinical Log Book etc.

Module Description: Human Physiology

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 number: **PHT214**	**Module title: Human Physiology**
Level/semester:	Third level/ semester
Credit hours: 3	**Thereof lecture hours: 15**
	Thereof practical hours: 30
	Thereof self-study hours: 50
Language:	English
Learning outcomes/ Goals / Skills of the module:	1. An understanding of basic cellular physiology & immunological principles to explain how the body defends against infection. 2. An understanding of the normal physiology of blood and its constituents, mechanisms of hemostasis and coagulation. 3. An understanding of function and control of cardiovascular, respiratory, renal, hepatic, gastrointestinal system physiology and its application to clinical practice as related to physical therapy. 4. Correlate changes in cardiovascular, respiratory, renal, hepatic, gastrointestinal system with resultant changes in other body systems. 5. An understanding of the basics of body fluids and electrolyte physiology and their application in health and disease. 6. An understanding of the physiology of muscle and how structure and function are related. 7. Describe the muscle spindle and Golgi organ, neuromuscular junction and its receptors and to explain their physiological roles. 8. An understanding of the physiological effects of hormones and the derangements that result from dysfunction, including the various mechanisms by which hormones affect target cells. 9. To apply this knowledge to explain physiological and pathological changes associated with altered body function.
Content of the module:	1. Functional Systems of Cell 2. Membrane Physiologies, Nerve and Muscle 3. Heart and Circulation 4. Kidney and Body Fluids 5. Respiration 6. Gastrointestinal System 7. Endocrinology
Examination:	Written/Oral examination, Practical/Clinical examination, Quiz, Assignment, Class Presentation, Practical/Clinical Log Book etc.

Module Description: Musculoskeletal Anatomy

Regional anatomy of the human body. An integrated approach focusing on the skeletal, muscular & nervous systems, particularly of the limbs & back.

Module number: **PHT212**	**Module title: Musculoskeletal Anatomy**
Level/semester:	Third level/ semester
Credit hours: 3	**Thereof lecture hours: 30**
	Thereof practical hours: 30
	Thereof self-study hours: 75
Language:	English
Learning outcomes/ Goals / Skills of the module:	1 Identify, and describe the location, structure and function of the major bones and joints of the head, trunk & limbs of the human body. 2 Identify and describe the attachments, actions, innervation, functions and roles of the major muscles within the head, trunk and limbs. 3 Identify the major neurovascular structures of the head, trunk and limbs, and describe the areas of supply and drainage of the major blood vessels. 4 Identify the major peripheral nerves and describe the effects of neuropathies of the trunk and limbs. 5 Develop an understanding of the structure and function of the neuromusculoskeletal system in relation to human movement. 6. Develop an understanding of the mechanisms of injury and the biological processes involved in physical rehabilitation.
Content of the module:	1. Morphology of Human Skeleton: The Skeleton in Life, Shape and Proportions of Bone, Functions of Bone and Skeleton, mechanical Properties of Bone, Growth of Individual Bones. 2. Skeletal Connective Tissues: Structure of Cartilage, Bone as a Tissue, Microscopic Structure and Organization of Bone, Blood Vessels and Nerves & Types of Joints. 3. Axial Skeleton: Vertebral Column, Ribs, Sternum, Skull. 4. Appendicular Skeleton: Upper limb, Lower Limb. 5. Muscles and Fasciae of Head, Neck, Trunk 6. Muscles and Fasciae Upper Limb & Lower Limb
Examination:	Written/Oral examination, Practical/Clinical examination, Quiz, Assignment, Class Presentation, Practical/Clinical Log Book etc.

Module Description: Therapeutic Modalities-1

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 number: **PHT 221**	**Module title: Therapeutic Modalities-1**
Level/semester:	Third level/ semester
Credit hours: 3	**Thereof lecture hours: 30**
	Thereof practical hours: 30
	Thereof self-study hours: 75
Language:	English
Learning outcomes/ Goals / Skills of the module:	1. Define fundamental concepts and definitions of Physical therapeutic modalities. 2. Identify biological and physical principle of electromagnetic spectrum & radiation, diathermy and sound waves related to human health and diseases. 3. Recognize the physiological effects of heat, ultrasound, high frequency currents on musculoskeletal, nervous, and cardiovascular system in human body. 4. Describe linked information from biological, physical and behavioural sciences and determine its impact on physical therapy practice. 5. Analyse the suitability of patients for each type of electrophysical modalities. 6. Justify the indication and contraindication of therapeutic modalities. 7. Modify the treatment plan according to treatment outcomes. 8. Demonstrate and acquire meaningful communications for instruction to the patient and ensure his comfort throughout the treatment. 9. Choose effectively physical therapy tools and measuring instruments in accordance with standard guidelines. 10. Justify the understanding of medical and physical therapy principles on demonstration of evidence based practice.
Content of the module:	1. Introduction to Physical Agent 2. Physiological & therapeutic effects of high & medium frequency current. 3. Infra-Red Radiation(I.R.R) 4. Ultraviolet radiation (UVR) 5. Short Wave Diathermy (SWD) 6. Microwave Diathermy (MWD) 7. Ultra Sound (U.S) 8. Shock Wave Therapy 9. LASER 10. Long Wave Diathermy
Examination:	Written/Oral examination, Practical/Clinical examination, Quiz, Assignment, Class Presentation, Practical/Clinical Log Book etc.

Module Description: Measurements in Physical Therapy

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 number: PHT 223	**Module title: Measurements in Physical Therapy**
Level/semester:	Fourth level/ semester
Credit hours: 3	**Thereof lecture hours: 15** **Thereof practical hours: 60** **Thereof self-study hours: 75**
Language:	English
Learning outcomes/ Goals / Skills of the module:	1. Appreciate the importance of anatomy as a foundation science in Physiotherapy diagnosis. 2. Demonstrate a sound knowledge of kinesiology and its application to physiotherapy diagnosis and treatment. 3. Identify the principles and appreciate the importance of accurate measurement in physiotherapy practice. 4. Understand the principles of muscle testing and joint examination procedures. 5. Accurately record basic features of posture and movement in a systematic manner. 6. Perform simple task analyses of functional activities. 7. Perform skilfully basic muscle testing and joint examination procedures.
Content of the module:	1. Fundamental Concepts & Principles of manual muscle testing 2. Reliability,validity and objectivity Techniques of evaluation of Grading system 3. Innervation, Joint Movement, Assessment of Range of Motion & Strength of Scapular Muscles 4. Innervation & joint movement,Assessment of range of motion & strength of shoulder joint muscles. 5. Innervation & joint movement, Assessment of range of motion & strength of elbow joint muscles 6. Innervation & joint movement, Assessment of range of motion & strength of wrist joint muscles. 7. Innervation & joint movement, Assessment of range of motion & strength of finger joint muscles 8. Innervation & joint movement, Assessment of range of motion & strength of Hip joint muscles. 9. Innervation & joint movement, Assessment of range of motion & strength of Knee joint muscles. 10. Innervation & joint movement, Assessment of range of motion & strength of Ankle joint muscles. 11. Assessment of strength & range of motion of spinal muscles (Neck, Upper & Lower Back) 12. Assessment of Chest Wall Expansion & Limb Length Discrepancies 13. Abdominal muscle assessment
Examination:	Written/Oral examination, Practical/Clinical examination, Quiz, Assignment, Class Presentation, Practical/Clinical Log Book etc.

Module Description: Neuroanatomy

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.

Module number: PHT 213	**Module title: Neuroanatomy**
Level/semester:	Fourth level/ semester
Credit hours: 3	**Thereof lecture hours: 30** **Thereof practical hours: 30** **Thereof self-study hours: 50**
Language:	English
Learning outcomes/ Goals / Skills of the module:	1 Identify detailed structure of the nervous system and explain the relationship between the anatomy and function. 2 Identify and describe the different parts of nervous system. 3 Identify and describe the function of the major vascular structures of nervous system. 4 Analyse the interrelationship between the anatomy and function of the nervous systems with various regions of the human body. 5 Identify the components and specific features of the central and peripheral nervous system on human cadaveric specimens. 6 Analyse the anatomical organisation and function of the central nervous system components and summarise how they provide sensory awareness, movement control and memory. 7 Explain how the nervous and musculoskeletal systems integrate to produce reflex and voluntary movement. 8. Integrate your knowledge of the interdependence of neuroanatomy and function to predict and explain functional deficits.
Content of the module:	1. Neuron, Neuroglia, Classification Of Nervous System. Terminology. 2. Structure Of Spinal Cord, Ascending And Descending Tracts, Blood Supply, Meninges Of Spinal Cord, CT scan, MRI Scan. 3. Structure of Cerebellum its Connections, Blood upply and function. 4. The Structure & Functional Localization of the Cerebral Cortex, Meninges Of Brain, Circle of willis. 5. Formation Of Reticular Formation and Limbic System & its Clinical Relevance. 6. Structure and Function of Basal Ganglia. Its Connections & Clinical Relevance 7. Origin and Function Of Cranial Nerves, Clinical Relevance. 8. Disorders Associated With Thalamic Dysfunction 9. Structure and Formation Of Autonomic Nervous System 10. Structure Of Ventricular System Of Brain Circulation Of CSF
Examination:	Written/Oral examination, Practical/Clinical examination, Quiz, Assignment, Class Presentation, Practical/Clinical Log Book etc.

Module Description: Therapeutic Modalities-2

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.

Module number: **PHT 222**	**Module title: Therapeutic Modalities-2**
Level/semester:	Fourth level/ semester
Credit hours: 3	**Thereof lecture hours: 30**
	Thereof practical hours: 30
	Thereof self-study hours: 75
Language:	English
Learning outcomes/ Goals / Skills of the module:	1. Define fundamental concepts and definitions of Physical therapeutic modalities. 2. Identify biological and physical principle of low and medium frequency currents and hydrotherapy related to human health and diseases. 3. Recognize the physiological effects of hydrotherapy, low and medium frequency currents on musculoskeletal, nervous, and cardiovascular system in human body. 4. Analyse the suitability of patients for each type of electrophysical modalities... 5. Justify the indication and contraindication of therapeutic modalities**.**
Content of the module:	1. Introduction to Therapeutic Modalities 2. Nerve and muscle stimulation: Includes electrical activity and effects of nerve stimulation 3. Faradism: Includes principles, physiological, therapeutic effects and methods of application 4. Galvanism: Includes principles, physiological, therapeutic effects and methods of application 5. Iontophoresis: Includes principles, selection of currents, effects of various ions and methods of application 6. Electro diagnostic tests: Diagnosis of different stages of nerve injuries by plotting a graph 7. TENS: Principles, physiological and therapeutic effect and methods of application 8. Medium Frequency Currents: Principles, physiological and therapeutic effect and methods of applications of sinusoidal, Didyanamic, HVPGS. 9. Interferential therapy (IFT): Principles, physiological and therapeutic effect and methods of application 10. Hydrotherapy: Hydrostatic pressure, upward thrust of water, buoyancy, indications and contra -indications for hydrotherapy.
Examination:	Written/Oral examination, Practical/Clinical examination, Quiz, Assignment, Class Presentation, Practical/Clinical Log Book etc.

Module Description: Introduction to Pathology

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

Module number: **PHT 218**	**Module title: Introduction to Pathology**
Level/semester:	Fourth level/ semester
Credit hours: 2	**Thereof lecture hours: 30** **Thereof practical hours: 0** **Thereof self-study hours: 50**
Language:	English
Learning outcomes/ Goals / Skills of the module:	1. Students will be introduced to immunity, tissue response to injury and healing processes. 2. Students will also gain knowledge of signs and symptoms, pathogenesis and differential diagnosis of selected pathological disorders. 3. Medical management of selected disorders will be introduced as well as prognosis associated with each disorder. 4. Application of the Disablement Model will be used to determine the effect of pathological disorders on functional ability. 5. Students will also gain a brief understanding of the role of the physical therapist in prevention and treatment of selected pathological and biopsychosocial disorders. 6. Discussion will take place regarding cultural and other factors affecting diagnosis, treatment and prevention of pathological disorders and biopsychosocial disorders currently affecting society.
Content of the module:	1. Tissue repairs connective tissue skeletal muscle, tendon joint capsules cartilage, bone, fascia, skin, blood vessels, nerves, lung tissue, cardiac and ladder muscles. 2. Cell injury degeneration physical and chemical irritant ionising radiation, cellulitis. 3. Disturbances of circulation, edema, thrombosis, embolism. 4. Growth and its disorders, Atrophy / Hypertrophy (pseudo) 5. Cellular aging. 6. Tumors – type 7. Infection types acute / chronic. 8. Systemic Pathology: Cardiovascular system, pathology of heart an blood vessels, Pathology of C.N.S. conditions, Respiratory conditions, Bone and joint conditions.
Examination:	Written/Oral examination, Quiz, Assignment, Class Presentation, etc.

Module Description: Introduction to Biomechanics

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 number: **PHT 226**	**Module title: Introduction to Biomechanics**
Level/semester:	Fourth level/ semester
Credit hours: 2	**Thereof lecture hours: 15** **Thereof practical hours: 30** **Thereof self-study hours: 50**
Language:	English
Learning outcomes/ Goals / Skills of the module:	1. Describe the laws of physics and mathematics that are relevant to human biomechanics. 2. Describe anatomical structures of the extremities and spine. 3. Understand the basic principles of the kinesiology. 4. Identify the difference between kinetic and kinematics 5. Understand the importance of musculoskeletal system in biomechanics 6. Understand the various movement occurring in three planes 7. Develop the insight about the architecture of joint mobility. 8. Understand the various forces acting on the human body. 9. Understand the role and influence of muscle force on the human body (it is necessary to put subcatogary of Knowledge, cognitive, psychomotor.
Content of the module:	1. Kinesiology: Definition and branches of Kinesiology, Biomechanics, Kinetics, Kinematics of Musculoskeletal system 2. Basic of Physics: Explain the relationship between gravity, weight, mass and inertia. Differentiate between speed, velocity, and acceleration. 3. Osteokinematics: Planes of Motion, Axis of Rotation, Degree of Freedom 4. Arthrokinematics: Typical joint classification and morphology, Fundamental movements between joint surfaces, Closed packed and loose pack position 5. Muscle: the ultimate force generator in the body: Types of muscle contraction (Isometric, Isotonic: Eccentric & Concentric) Role of muscles (agonist, antagonist, stabilizers, synergists, neutralizers) 6. Muscle as a skeletal mover force modulator: Muscle tension, Muscle insufficiency, Modulating force through concentric or eccentric activation: force-velocity relationship. 7. Kinetics: Composition of forces, Force systems, Resolution of forces, Torque or moment of force. 8. Simple body machine: Musculoskeletal levers, First order lever, Second order lever, Third order lever.
Examination:	Written/Oral examination, Practical/Clinical examination, Quiz, Assignment, Class Presentation, Practical/Clinical Log Book etc.

Module Description: Theraputic Exercises-1

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 number: **PHT 224**	**Module title: Theraputic Exercises-1**
Level/semester:	Fourth level/ semester
Credit hours: 3	**Thereof lecture hours: 15**
	Thereof practical hours: 60
	Thereof self-study hours: 75
Language:	English
Learning outcomes/ Goals / Skills of the module:	1. Integrate scientific knowledge in performing therapeutic interventions. 2. Recognise physics and basic principles used in ROM in physical therapy 3. Recognise the human movements and define the concepts of functional excursion, active and passive insufficiency 4. Describe procedure to apply different techniques of mobilisation . 5. Analyse the human movement and concepts of rhythm, starting position, co-ordination and progression in therapeutic exercises . 6. Utilise the concepts of progression by adopting various positions and techniques in therapy (Same as before)
Content of the module:	1. Introduction to Therapeutic Exercise 2. Muscle work: Isotonic (concentric, eccentric), Isometric (static). Group action: Agonists (prime movers). Antagonists, synergists, Fixators. Angle of muscle pull, Mechanical efficiency of the muscles. 3. Fundamental & Derived Position 4. Range of Motion: Involves all the range of motion exercises including passive, assited, active resisted. 5. Stretching: Including principle of stretching, types and effect of stretching. Guidelines for application of stretching for all skeletal muscles 6. Resistance Exercise: Principles, determinants, types, guidelines for manual and mechanical resistance exercises. 7. Peripheral Joint Mobilization: Mobilization/Manipulation, Self-Mobilization (Auto-mobilization), Mobilization with Movement including Indications, Limitations, Contraindications and Precautions
Examination:	Written/Oral examination, Practical/Clinical examination, Quiz, Assignment, Class Presentation, Practical/Clinical Log Book etc.

Module Description: Therapeutic Exercises – 2

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 number: **PHT 325**	**Module title: Therapeutic Exercises - 2**
Level/semester:	Fifth level/ semester
Credit hours: 3	**Thereof lecture hours: 15**
	Thereof practical hours: 60
	Thereof self-study hours: 75
Language:	English
Learning outcomes/ Goals / Skills of the module:	1. Describe basic goals of therapeutic exercises. 2. Define and record indications, goals, limitations, and contraindications to various therapeutic exercises methods. 3. Paln & design different mat exercises activities & other exercises programs. 4. Demonstrate & analyse various exercises programs like, suspension therapy, relaxation exercises group exercises & traction. 5. Examine, interpret, analyse & reconstruct all exercises rehab programs according to the patient's need & preferences in a safe & effective manner.
Content of the module:	1. Posture 2. Traction 3. Suspension Therapy 4. Relaxation 5. Coordinaton exercises 6. Medical Massage techniques 7. Basic principles of General fitness-warming up exercises, aerobics – cool down exercises.
Examination:	Written/Oral examination, Practical/Clinical examination, Quiz, Assignment, Class Presentation, Practical/Clinical Log Book etc.

Module Description: Physical therapy for Burn and Surgical Conditions

This course also introduces the students 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 number: **PHT 331**	**Module title: Physical therapy for Burn and Surgical Conditions**
Level/semester:	Fifth level/ semester
Credit hours: 3	**Thereof lecture hours: 30**
	Thereof practical hours: 30
	Thereof self-study hours: 75
Language:	English
Learning outcomes/ Goals / Skills of the module:	1. Perform complete Evaluation of Burns injuries and render Physical therapy management for all its complications. 2. Understand the plastic surgery procedures and management in rehabilitation of burns, including splinting methods for common deformities and prevention of burns contractures. 3. Appreciate the role of Rehabilitation Team members working for welfare of Burns patients. 4. Knowledge about various Abdominal Surgeries and common Abdominal Incision made. 5. Knowledge of Complications following Anesthesia and Surgery.
Content of the module:	1. Burns : Introduction to burns, Classifications of burns, Superficial 2. Superficial Partial-Thickness Burn, Deep Partial-Thickness Burn, Full-Thickness Burn Sub-dermal Burn. 3. Complications of burns 4. Medical,Surgical and Physical therapy management of burns 5. Plastic surgery 6. Introduction to surgeries 7. Complications & of Physical therapy management for abdominal surgeries 8. Cardio respiratory surgeries 9. Neuro surgeries
Examination:	Written/Oral examination, Practical/Clinical examination, Quiz, Assignment, Class Presentation, Practical/Clinical Log Book etc.

Module Description: Neurophysiology

The sensorimotor mechanisms responsible for the control of fine movement and postural regulation are 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.

Module number: **PHT 315**	**Module title: Neurophysiology**
Level/semester:	Fifth level/ semester
Credit hours: 3	**Thereof lecture hours: 30** **Thereof practical hours: 30** **Thereof self-study hours: 75**
Language:	English
Learning outcomes/ Goals / Skills of the module:	1. Recall the basic understanding of functions of both the sensory and special senses as input mechanisms for appraising the central nervous system of the changes occurring both within and outside of the body. 2. Identify types of sensory receptors by the type of sensory stimuli and their differential sensitivity. Identify nerve fibre types by physiological classification and sensory classification. 3. Identify types of pain receptors and understand their transmission pathways into the CNS. 4. Identify the cranial nerves and the extra ocular muscles that control eye movements. 5. Understand the hierarchical and parallel control of motor function by the motor cortex and the brain system. 6. 13. Understand the general organization of the autonomic nervous systems and the adrenal medulla.
Content of the module:	1. Functional Organization of Nervous System 2. Electrophysiology of Nervous system 3. Somatosensory System 4. The vestibular system 5. Neurophysiology of Pain 6. Cortical Motor Areas, and the Major Descending Motor Pathways 7. Upper and lower motor neuron lesions 8. The Basal Ganglia 9. The Cerebellum
Examination:	Written examination, Practical examination, Quiz, Assignment / presentation

Module Description: Human Biomechanics

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 number: **PHT 327**	**Module title: Human Biomechanics**
Level/semester:	Fifth level/ semester
Credit hours: 3	**Thereof lecture hours: 30**
	Thereof practical hours: 30
	Thereof self-study hours: 75
Language:	English
Learning outcomes/ Goals / Skills of the module:	1. Understant the biomechanical aspect of various joints of trunk & extremities. 2. Explain normal kinematic and kinetics of different joints of the upperb & lower extremity. 3. Discuss the pathomechanical changes of different body joints. 4. Describe the various phases of normal gait in terms of kinetic & kinematic changes. 5. Describe gait deviations in some pathological cases. 6. Relate between changes in normal joint mechanics and selected pathological cases. 7. Explain how anatomical structures affect the Movement capabilities of the lower extremity. 8. Calculate the amount of load imposed on any joint of the lower extremity. 9. Determine the forces that act on joints during static and dynamic situations. 10. Analyze normal gait from kinematic and kinetic point of view. 11. Analyze the forces that act on joints during static and dynamic situations.
Content of the module:	1. Upper limb biomechanics including kinetics and kinematics of shoulder, elbow and wrist. 2. Lower limb biomechanics including kinetics and kinematics of hip, knee and ankle. 3. Vertebral column biomechanics including kinetics and kinematics of cervical, thoracic and lumbopelvic. 4. Normal biomechanics of gait including kinetics and kinematics. 5. Pathological gait including kinetics and kinematics
Examination:	Written/Oral examination, Practical/Clinical examination, Quiz, Assignment, Class Presentation, Practical/Clinical Log Book etc.

Module Description: Hydrotherapy

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 number: **PHT 328**	**Module title: Hydrotherapy**
Level/semester:	Fifth level/ semester
Credit hours: 2	**Thereof lecture hours: 15**
	Thereof practical hours: 30
	Thereof self-study hours: 50
Language:	English
Learning outcomes/ Goals / Skills of the module:	1. Identify the principles of physical laws governing hydrotherapy application. 2. Describe the physiological effect of water and therapeutic uses of hydrotherapy. 3. Discuss the indication, contraindication and precaution of using hydrotherapy modalities and under water exercise therapy. 4. Identify possible treatment of physical dysfunctions of different body systems contributes using hydrotherapy 5. Explain the theoretical physical therapy principles and equipment of underwater exercise. 6. Gain theoretical knowledge& understanding of cryotherapy. 7. Develop his knowledge and skills in planning, designing, implementing, and evaluating safe effective hydrotherapy treatments in the management of orthopedic, rheumatologic, and some basic neurological and pediatric conditions. 8. Have the ability for recalling the therapeutic effects, indications, Contraindications, dangers, and precautions of each selected hydrotherapy modality. 9. Safely implement different types of cryotherapy modalities. 10. Student should learn how to communicate with his patients and Colleagues
Content of the module:	1. Introduction to hydrotherapy & Physical proprieties of water 2. Physiological effects of water 3. Therapeutic uses of Hydrotherapy 4. Indication, contraindication, and adverse effects of Hydrotherapy 5. Physical principles of underwater ex. 6. Design and safety environment for Pool therapy 7. Clinical application of hydrotherapy in certain diseases or disorders 8. Whirlpool Tank - The Hubbard tank 9. Hydrocollator - Contrast Bath 10. Paraffin wax 11. Cryotherapy
Examination:	Written/Oral examination, Practical/Clinical examination, Quiz, Assignment, Class Presentation, Practical/Clinical Log Book etc.

Module Description : Medical Massage

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 number: **PHT 329**	**Module title: Medical Massage**
Level/semester:	Fifth level/ semester
Credit hours: 2	**Thereof lecture hours: 15**
	Thereof practical hours: 30
	Thereof self-study hours: 50
Language:	English
Learning outcomes/ Goals / Skills of the module:	1. Recognize Basic knowledge in dealing with different types of the techniques medical massage 2. Record Recent advancements & updates of the massage 3. Recognize Basic knowledge to deal with different kinds of patients & conditions in relation with medical massage. 4. Prepare a topic related to the course and present it for the whole class 5. Develop certain team work activities regarding the theoretical part. 6. Know about the basic ethics & bed side manners, when dealing in the practical classes. 7. Work in harmony & ready to take up the responsibility when the need arise.
Content of the module:	1. Introduction to massage - Definition of massage, History of massage, Purpose of massage, General principles of massage - Points should be considered while giving massage 2. Physiological and mechanical effects of massage 3. Stroking manipulations - Effleurage , Stroking 4. Pressure manipulations - Kneading , Stationary kneading, Circular Ironing (Reinforced kneading), Finger kneading, Petrissage, Friction 5. Percussion manipulation – Tapotement, Hacking, Clapping , Beating , Pounding 6. Shaking manipulation – Vibration, Shaking 7. Massage for upper limb - Scapular region, Shoulder joint, Upper arm, Elbow joint, Forearm , Wrist joint, Hand 8. Massage of the chest & Massage of the abdomen 9. Massage for lower limb - Thigh ,,Knee joint , Leg, Foot 10. Massage for lower back - Neck and upper back - Middle and lower back 11. Massage for face – Position – Draping – Application 12. Mechanical devices used for giving massage 13. Clinical application of massage - Massage for muscles and tendons, Massage for ligaments, Massage for athletes, Massage for edema.
Examination:	Written/Oral examination, Practical/Clinical examination, Quiz, Assignment, Class Presentation, Practical/Clinical Log Book etc.

Module Description: Research methodology

Determination of research problems relevant to allied health, interpretation & use of scientific literature, development of research protocol, research writing & presentation & advanced statistics.

Module number: **PHT 361**	**Module title: Research methodology**
Level/semester:	Sixth level/ semester
Credit hours: 2	**Thereof lecture hours: 30** **Thereof practical hours: 0** **Thereof self-study hours: 75**
Language:	English
Learning outcomes/ Goals / Skills of the module:	1. Be aware of the role of research in both clinical practice and across the health-related professions. 2. Be able to critically analyse and evaluate published research. 3. Be aware of ethics, ethical standards for research, and ethical limitations in research. 4. Develop in-depth knowledge of aspects of quantitative and qualitative research methodology. 5. Be able to work independently in designing appropriate research methodologies. 6. Have an understanding of advanced statistical processes and their application in research methodology. 7. Be competent in written communication skills for scientific writing and communicating research. 8. Understand the process of disseminating research and ways to optimize scientific writing
Content of the module:	1. Introduction for research – Importance & scientific research 2. Research Ethics: - Ethical Principles and Human Participation Protections, Informed Consent & Plagiarism 3. Stages of the Scientific Research Process & Types of research problems 4. Formulating the Hypotheses, Writing hypothesis, Null hypothesis, Alternative hypothesis, - Types of Study Variables, Independent and Dependent Variables 5. Data Collection & Measurement - Reliability, validity & Research power 6. Data Analysis and Interpretation of Results - descriptive statistics, Inferential statistics, Levels of measurement & The importance of data type. 7. Recruitment and Sampling - Identify population and sample group, Random & Non-probability sampling methods & Importance of random sample. 8. Writing a research proposal - Components of the proposal, Characteristics of each component & Principles of writing for scientific journals 9. Practice presentation in class - Effective presentation, How to prepare research paper in form of Ppt. presentation and Poster
Examination:	Written/Oral examination,Quiz, Assignment, Class Presentation etc.

Module Description: Physical Therapy for Pediatrics

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 number: **PHT 332**	**Module title: Physical Therapy for Pediatrics**
Level/semester:	Sixth level/ semester
Credit hours: 4	**Thereof lecture hours: 45**
	Thereof practical hours: 30
	Thereof self-study hours: 90
Language:	English
Learning outcomes/ Goals / Skills of the module:	1. Identify principles of Normal motor and mental development related to child health and diseases, which underpin physical therapy. 2. Describe biological and physiological changes which developed as normal consequences of aging process and those resulting from pediatric disorders. 3. Identify the pathological changes, pharmacological interaction and related clinical features of pediatric conditions commonly encountered by Physical Therapist. 4. Demonstrate the ability to extract pertinent information for a given pediatric patient through reviewing the provided medical document.
Content of the module:	1. Motor development and Evaluation in pediatrics 2. Cerebral palsy 3. Treatment of Cerebral palsy 4. Spina bifida, Hydrocephalus & Facial nerve lesions 5. Brachial Plexus Injuries 6. Muscle disease 7. Poliomyelitis 8. Congenital hip dislocation & Foot deformities 9. Muscular torticollis
Examination:	Written/Oral examination, Practical/Clinical examination, Quiz, Assignment, Class Presentation, Practical/Clinical Log Book etc.

Module Description: Exercise Physiology

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 number: **PHT 316**	**Module title: Exercise Physiology**
Level/semester:	Sixth level/ semester
Credit hours: 2	**Thereof lecture hours: 15**
	Thereof practical hours: 30
	Thereof self-study hours: 50
Language:	English
Learning outcomes/ Goals / Skills of the module:	1. To define the role of aerobic & anaerobic systems & the fuels require performing various physical activities. 2. To recognize the physiological principles related to muscular endurance, strength & flexibility training. 3. To label the environmental effects of temperature, humidity, altitude, & pollution upon the physiological response to exercise. 4. Able to design & explain an exercise program. Able to justify, measure & interpret the specific physiological responses over training & performance. 5. Able to compare & differentiate between energy systems, general & specific physiological responses in relation to various physical activities.
Content of the module:	1. Introduction and Overview – Physiology of exercise & Homeostasis. 2. Measurement of work, power & energy expenditure. 3. Bioenergetics & exercise metabolism 4. Skeletal muscle adaptation to use / disuse & circulatory response to exercise 5. Cardio respiratory adaptation to Training and Detraining 6. Temperature & Environment & Physiology of Training. 7. Work test to evaluate cardio respiratory fitness 8. Lab assessment of human performances 9. Fitness assessment Methods and Procedures 10. Diabetes Mellitus, Obesity and physical activity
Examination:	Written/Oral examination, Practical/Clinical examination, Quiz, Assignment, Class Presentation, Practical/Clinical Log Book etc.

Module Description: Pharmacology

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.

Module number: **PHT 319**	**Module title: Pharmacology**
Level/semester:	Sixth level/ semester
Credit hours: 2	**Thereof lecture hours: 30** **Thereof practical hours: 0** **Thereof self-study hours: 50**
Language:	English
Learning outcomes/ Goals / Skills of the module:	1. Describe drug sources, drug naming, and routes of administrations . 2. Discuss the drug-body interactions including pharmacokinetic. 3. Discuss the classification of drug groups and their beneficial versus toxic effects . 4. Describe the effects of basic physical therapy modalities, such as exercise, heat, cold, and manual techniques, on pharmacokinetics: bioavailability, distribution, and clearance . 5. Discuss the effects, mechanism of action, and side effects of the drugs used to treat the common cardiovascular, pulmonary, orthopedic, metabolic, and neurological conditions encountered by physical therapists.
Content of the module:	1. Introduction to pharmacology: Pharmacokinetics, Drug- receptor interactions and pharmacodynamics. 2. Drugs affecting the autonomic nervous system: Introduction to the autonomic nervous system, Cholinergic agon st and Cholinergic antagonists 3. Drugs affecting the autonomic nervous system: Adrenergic agonists & Adrenergic antagonists. 4. Drugs affecting the central nervous system: Opioids analgesics, Non opioid analgesics, General and local anesthetics. 5. Drugs affecting the central nervous system: Antidepressant, Sedative – hypnotic drugs, Antiepileptic drugs and Anti Parkinson's. 6. Drugs affecting the cardiovascular system: Antihypertensive drugs and Antianginal drugs. 7. Drugs affecting the cardiovascular system: Drug used in heart failure, Antiarrhythmic drugs and Drugs affecting the blood. 8. Drugs affecting the musculoskeletal system: Skeletal muscle relaxants and Antirheumatic drugs and drug used in gout. 9. Drugs affecting the respiratory system: Mucokinetic and bronchodilator drugs and Oxygen and miscellaneous respiratory agents 10. Drugs affecting the urinary system
Examination:	Written/Oral examination,Quiz, Assignment, Class Presentation etc.

Module Description: Physical Therapy for Sports & Traumatology

The purpose of this course is to introduce fractures of bone and joints related to accedents 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.

Module number: **PHT 333**	**Module title: Physical Therapy for Sports & Traumatology**
Level/semester:	Sixth level/ semester
Credit hours: 2	**Thereof lecture hours: 15**
	Thereof practical hours: 30
	Thereof self-study hours: 75
Language:	English
Learning outcomes/ Goals / Skills of the module:	**1.** Identify the sports medicine team. 2. Describe the sports medicine models 3. Explain the principles of an effective physical therapy training program for different sports injuries 4. Explain selected joint injuries of upper and lower extremities 5. Differentiate between the internal and external risk factors 6. Differentiate between the meniscal & ligamentous knee injuries clinically.
Content of the module:	1. Introduction to sports medicine: The sports medicine team, The sports medicine models, Classification of sports injuries, Sports medicine assessment sheet and RICE principle 2. Principles of injury prevention: Systematic injury prevention, External and internal risk factors, Important factors in the prevention of injury and Principles of training 3. Shoulder pain: Categories of shoulder pain,Impingement syndrome, Rotator cuff strain/tear,Glenoid labrum injury, Acromioclavicular joint injurie and it's physical therapy management. 4. Elbow and arm pain: Lateral elbow pain, Medial elbow pain, Posterior elbow pain and it'sPhysical Therapy practice for Elbow & arm pain. 5. Acute and Chronic hip and groin pain: Adductor muscle strain, Iliopsoas strain Osteitis pubis and Physical Therapy practice for Acute hip and groin pain 6. Anterior and posterior thigh pain: Causes of anterior thigh pain, Quadriceps muscle contusion and strain, Posterior thigh pain, Hamstring muscle strain and it's Physical Therapy management. 7. Acute knee injuries: Assessment and Physical therapy management of Meniscal and cruciate ligament injuries. 8. Lower leg injuries: Assessment and Physical therapy management of Calf pain, and Achilles tendon pain. 9. Acute ankle injuries: Assessment and Physical therapy management of Lateral ankle instability and Medial (deltoid) ligament injuries.
Examination:	Written/Oral examination, Practical/Clinical examination, Quiz, Assignment, Class Presentation, Practical/Clinical Log Book etc.

Module Description: Rehabilitation Psychology

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.

Module number: **PHT353**	**Module title: Rehabilitation Psychology**
Level/semester:	Sixth level/ semester
Credit hours: 2	**Thereof lecture hours: 30**
	Thereof practical hours: 0
	Thereof self-study hours: 50
Language:	English
Learning outcomes/ Goals / Skills of the module:	1. Identify the psychological aspects of movement enhancement and functional restoration in mental and physical handicapped persons. 2. Describe the psychological principles of constructing plan of treatment and setting goals taking into account relevant contextual factors for mental and physical handicapped. 3. Recall knowledge on the behavioral changes that result from physical therapy. 4. Identify linked information from behavioral sciences and determine its impact on physical therapy practice.
Content of the module:	1. The definitions of psychology and psychiatry and various schools of thoughts. 2. Brief History and theories of rehabilitation about developmental Disability 3. The analysis of behavior, the scope of Psychology in Physical therapy 4. Terminology in the area of handicaps: impairment, disability and handicaps 5. Behavior and disability , the problems and rehabilitation principles 6. Individual differences in perceiving disability and the response towards the disability. 7. Assessment of behavior problems associated with disability 8. Psychosocial rehabilitation and its advandages. 9. Barriers to community and vocational reintegration 10. Rehabilitation of chronic pain, the theories and treatment methods
Examination:	Written/Oral examination, Quiz, Assignment,Class Presentation etc.

Module Description: Physiotherapy in Women's Health

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 number: **PHT 334**	**Module title: Physiotherapy in Women's Health**
Level/semester:	Sixth level/ semester
Credit hours: 2	**Thereof lecture hours: 30**
	Thereof practical hours: 0
	Thereof self-study hours: 50
Language:	English
Learning outcomes/ Goals / Skills of the module:	1. Differentiate between normal and abnormal pelvic positions in antenatal care 2. Identify role of physical therapy after hysterectomy 3. Identify the Post Operative Exercises and Postoperative wound healing after caesarian section.
Content of the module:	1. Anatomy of Female Genital Organs 2. Anatomical and Physiological Changes during Pregnancy 3. Antenatal Care: Psychological and Physical preparation for pregnant women 4. Role of physiotherapist during pregnancy and Model of physical therapy program for normal pregnant women. 5. Risk Pregnancy 6. Normal labor 7. Caesarean Section 8. Normal and Abnormal Puerperium 9. Hysterectomy 10. Menopause
Examination:	Written/Oral examination,Quiz, Assignment, Class Presentation etc.

Module Description: Human Growth and Development

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 theroies and its application in the scope of physiotherapy and the combination of influences which aid or hinder individuals achieving their goals.

Module number: **PHT 352**	**Module title: Human Growth and Development**
Level/semester:	Sixth level/ semester
Credit hours: 2	**Thereof lecture hours: 30** **Thereof practical hours: 0** **Thereof self-study hours: 50**
Language:	English
Learning outcomes/ Goals / Skills of the module:	1. Describe normal growth and development during infancy, childhood and adolescence. 2. Identify abnormalities of growth and development during infancy and childhood. 3. Describe appropriate management for abnormalities affecting growth and development. 4. Identify common genetic diseases and their impact on children and families.
Content of the module:	1. Theories of Growth and Development: Define conception and explain the fer ilization process, Identify and discuss the stages of prenatal development. Infancy 2. Infancy and developmental tasks : Physiological growth patterns of infancy, Early cognitive developmentEmotional and personality development in infancy. 3. Early Middle and late childhood: Physiological growth patterns, Cognitive development and Emotional and personality development in early, middle and late childhood. 4. Adolescence and Emerging Adulthood: Physiological growth patterns, Cognitive development and Emotional and personality development in Adolescense and Emerging childhood. 5. Late adulthood: Physiological growth patterns, Cognitive development and Emotional and personality development in Late adulthood. 6. Intellectual development: Growth of Intelligence from early childhood to adolescence, Decline of intelligence with age, Methods of measuring intelligence, Concept of IQ and factors affecting intelligence development. 7. Neural Development: Brief description of evolution of the central nervous system, Pre natal and post natal development of the central nervous system including myelinization process. 8. Glandular development: The different types of glands particularly ductless and their secretionsRelationship of different hormones and behavior of the individual. 9. Physical development: Growth cycles, Concept of asynchronous growth, Effects of growth cycles on behavior and concepts of body size and body proportion.

Examination:	Written/Oral examination, Quiz, Assignment, Class Presentation etc.

Module Description: Physical Therapy For Neurological Disorders

This course aims to provide students with knowledge and skills required to be a competent graduating physicaltherapist in the field of neurological physicaltherapy. 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 number: **PHT435**	**Module title: : Physical Therapy For Neurological Disorders**
Level/semester:	Seventh level/ semester
Credit hours: 4	**Thereof lecture hours: 45**
	Thereof practical hours: 30
	Thereof self-study hours: 75
Language:	English
Learning outcomes/ Goals / Skills of the module:	1. Demonstrate use of problem solving skills and clinical reasoning (rationale) for the selection and application of techniques to manage problems related to neurological disorders. 2. Know how to use a patient/client-centred approach in the assessment and delivery of a functional goal-oriented program that is developed individually with each patient /client. 3. Know how to Use observational, handling and specific assessment procedures to recognise, analyse and identify the influence that motor, sensory perceptual and spatial dysfunction may have on posture and movement following neurological dysfunction to plan and deliver an effective treatment program. 4. Demonstrate competancy in the execution of techniques and delivery of programs to manage specific clinical problems. 5. Have an understanding of the effects of injury to the central nervous system on non-motor functions and abilities and adjust management approaces such as communication appropriately. 6. Understand legal and ethical issues/ requirements relevant to neurological physiotherapy. These may include record keeping/ statistical data entry, informed consent and confidentiality of information

Content of the module:	1. Brief about the Classification Of Nervous System and Identification of Various parts of Nervous System and their Function 2. Detailed Neurological assessment 3. Definition of Stroke, the causes and risk factors with detailed clinical presentation and Complete Rehabilitation 4. Definition, Clinical Features,Assessment And Treatment Of Guillain-Barré Syndrome, Multiple sclerosis. 5. Definition, Clinical Features, Assessment And Treatment of Degenerative disorders of nervous system. 6. Definition, Clinical Features,Assessment And Treatment of Extrapyramidal disorders 7. Classification Of Spinal Cord Injury, Assessment, Rehabilitation Protocol 8. Definition, Clinical Features,Assessment And Treatment Of Peripheral Nerve disorders. 9. Head injury, Classification, Clinical Features.Assessment of Comatose and Differential Diagnosis. 10. Motor Assessment Scale and Functional task analysis. 11. Problem solving case studies for neurological conditions
Examination:	Written/Oral examination, Practical/Clinical examination, Quiz, Assignment, Class Presentation, Practical/Clinical Log Book etc.

Module Description : Advanced physical therapy procedures

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 number: **PHT 420**	**Module title: Advanced physical therapy procedures**
Level/semester:	Seventh level/ semester
Credit hours: 3	**Thereof lecture hours: 30** **Thereof practical hours: 30** **Thereof self-study hours: 60**
Language:	English
Learning outcomes/ Goals / Skills of the module:	1. The course introduces the students to the Advanced Physical Therapy Treatment Techniques. 2. The students should develop the skill to plan Evidenced based treatment goals for complete Rehabilitation of the Patient. 3. The students will be able to demonstrate and understand advanced treatment techniques that demands in specific specialty. 4. The students should understand the specific role of Physical therapist in modifying the Treatment procedures according to the ailment 5. Facilitates the rapid and accurate identification of local soft-tissue dysfunction 6. Explains the origin of soft tissue distress 7. Provides diverse maps and explanations for the patterns of tender and trigger points seen daily in clinical practice 8. Discusses the use of NMT in the management of pain and hyperventilation 9. Explains the diagnostic and therapeutic value of tender reflex points related to viscero-somatic and somatic-visceral reflexes.
Content of the module:	1. Essentials of Spinal Manual Therapy: Vertebral Motion Dynamics, McKenzie's Three Syndromes, Principles of Manual Examination, Diagnosis, and Intervention, Spine Mobilization/Manipulation 2. Modern Neuromuscular Techniques: Soft tissue distress, Myofascial trigger points and other reflex phenomena, Diagnostic methods, Basic spinal Neuromuscular Techniques, Muscle Energy Techniques & Progressive inhibition of neuromusculoskeletal structures (PINS) technique. 3. Techniques of emphasis in Proprioceptive Neuromuscular Training 4. Taping principles History of taping, Taping guidelines ,Taping application and Taping products, Taping procedures for upper limb and Lower limb injuries 5. Swiss ball Exercise techniques with emphasis to Core stabilization 6. Plyometric Techniques basic drisll and classification of Plyometric jumps 7. Tread mill testing and exercise prescription
Examination:	Written/Oral examination, Practical/Clinical examination, Quiz, Assignment, Class Presentation, Practical/Clinical Log Book etc.

Module Description: Physical Therapy for Orthopedic Conditions

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 number: PHT436	**Module title: Physical Therapy for Orthopedic Conditions**
Level/semester:	Seventh level/ semester
Credit hours: 4	**Thereof lecture hours: 45**
	Thereof practical hours: 30
	Thereof self-study hours: 75
Language:	English
Learning outcomes/ Goals / Skills of the module:	1. Describe the clinical patterns of presentation of various musculoskeletal conditions pertaining to injury, overuse, poor use, inflammatory or degenerative conditions both suitable and unsuitable for physiotherapy managemen. 2. Informed as to the scope of medical investigations, diagnosis and management of musculoskeletal presentations. 3. Be informed as to the range of treatment techniques suitable for consideration in planning the treatment of patients presenting musculoskeletal conditions. 4. Develop skill in the application of particular physiotherapy techniques that specifically relate to the management of musculoskeletal conditions and prevention of their recurrence. 5. Efficiently record a patient interview, and physiotherapy intervention for a client with musculoskeletal problem. 6. Explain the clinical significance of the results of the physical examination (including outcome measures), and confirm/negate your diagnostic hypotheses (differential diagnosis). 7. Justify a physiotherapy intervention based upon clinical assessment and understanding of the literature. 8. State the scope of medical investigations, diagnoses and medical management of musculoskeletal conditions. 9. Evaluate the effectiveness of your physiotherapy intervention

Content of the module:	1. Introduction to orthopedic terminologies, Types of pathology commonly dealt with & clinical examination. 2. Common investigations 3. Define Osteoarthritis, Review its signs, symptoms, radiological features, pathology, common deformities/ medical and Surgical management. 4. Describe the PT assessment, aims and management and detailed home programme with special emphasis on osteoarthritis of hip, knee, ankle and shoulder joints. 5. Define Rheumatoid Arthritis, Ankylosing spondylitis, Review its signs, symptoms radiological features, pathology, common deformities, medical and Surgical management. Describe the PT assessment, aim and management in the acute and chronic stage and detailed home programme 6. Briefly the general and PT assessment management and a detailed home programme of Spinal problems. cervical and lumbar spondylosis, spondylolisthesis, IVDP. 7. Postural abnormalities and the assessment procedures.Treatment plan for postural correction. 8. Outline the etiology, clinical features, management and complications of: septic arthritis, osteomyelitis, Tuberculosis (including spinal TB). 9. Classify and outline the clinical features, management and complications of the following (benign / malignant bone and joint tumours).
Examination:	Written/Oral examination, Practical/Clinical examination, Quiz, Assignment, Class Presentation, Practical/Clinical Log Book etc.

Module Description: Reading in Medical Imaging

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) areproduced as well as adjusted to provide desired structural emphasis, positioning for various views, and other variables.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).

Module number: **PHT419**	**Module title: Reading in Medical Imaging**
Level/semester:	Seventh level/ semester
Credit hours: 2	**Thereof lecture hours: 15**
	Thereof practical hours: 30
	Thereof self-study hours: 45
Language:	
Learning outcomes/ Goals / Skills of the module:	1. Student should be able to understand the basic physical principles of various radiological procedures. 2. Appreciate the value and scope of various diagnosing methods. 3. Capable of Identify the Normal structure and pathological structure in different diagnosing images. 4. Understand the safety precautions and complications of diagnosing Methods
Content of the module:	1. Describe the basic physics used in various radiological and imaging modalities 2. List and define common radiographic and imaging terminology 3. Describe the difference(s) in indications, clinical value and interpretation between the following imaging modalities; plain film radiography, magnetic resonance imaging, nuclear medicine scans, Arthrogram, and CT scan 4. clinical value and interpretation of structure in Ultrasound imaging 5. Identify basic normal anatomy from radiographic studies 6. Interpret radiographic anatomy and identify common degenerative and traumatic pathology 7. Identify and describe radiographic evidence of Neoplastic and infectious diseases *8.* For a given radiographic study, identify the consequences to physical therapy management
Examination:	Written/Oral examination, Practical/Clinical examination, Quiz, Assignment, Class Presentation, Practical/Clinical Log Book etc.

Module Description: Clinical Practice-1

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 behaviours 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.

Module number: **PHT441**	**Module title: Clinical Practice-1**
Level/semester:	Seventh level/ semester
Credit hours: 3	**Thereof lecture hours: 0** **Thereof clinical hours: 135** **Thereof self-study hours: 75**
Language:	English
Learning outcomes/ Goals / Skills of the module:	1 Demonstrate ethical and professional behaviour appropriate to physiotherapy 2 Demonstrate effective verbal and written communication skills 3 Assess a client accurately to determine problems 4 Interpret and analyse the assessment findings 5 Demonstrate an appropriate process of clinical reasoning in making decisions related to the client 6 Develop a physiotherapy intervention plan 7 Demonstrate safe and effective physiotherapy and other interventions 8 Demonstrate ability to provide advice and education relevant to interventions 9 Evaluate the effectiveness and efficiency of interventions 10 Demonstrate an understanding of the presentation and management of a wide range of clinical problems across the lifespan 11 Demonstrate an understanding of the importance of patient goal-setting and self-management for return of function, work and leisure actvities 12. Demonstrate the integration of evidence-based practice into the practice setting.
Content of the module:	1. Planning of assessment and management of traumatic conditions under supervision of clinical instructor. 2. Upper limb and lowerlimb Fractures 3. The speciat tests for various sports injuries 4. Assessment and treatment of softtissue injuries such as Ligament ,Tendon and muscle 5. Planning of Assessment & Management of Burns patient with special consideration to scar management. Rehabilitation procedures 6. Pre and post operative physicaltherapy assessment and Management for surgical conditions. 7. Assessment of pediatric conditions with planning of short term and long term goals for the children. 8. Assessment of reflexes and Mile stones for children. 9. Group Case Discussion About The Assessment Tools With The Peer And The Clinical Supervisor. 10. Planning the Home Management And discharge Of The Patient.
Examination:	Clinical examination, Quiz, Assignment,Clinical Log Book etc.

Module Description: Prosthetics & Orthotics

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 wiil be discussed. The prosthesis type for different level of amputations and fitting training rendered by Physical therapist.

Module number: **PHT454**	**Module title: Prosthetics & Orthotics**
Level/semester:	Seventh level/ semester
Credit hours: 2	**Thereof lecture hours: 15** **Thereof practical hours: 30** **Thereof self-study hours: 45**
Language:	English
Learning outcomes/ Goals / Skills of the module:	1. Understand the pathomechanics of Musculoskeletal conditions and their effects on normal functional capacity, and principles of the orthotics and prosthetic treatments. 2. Understand the importance and goals of chosen orthosis / prostheses as a part of rehabilitation process 3. Student should Know alignment methods and basic fittings of the mechanical parts of orthoses / prosthetics of patient. 4. Solve the possible problems, which appear due to malalignment. Advice the patients the methods to care their orthosis and prosthesis. 5. Give orthotic and prosthetic training and rehabilitation techniques to the patients.
Content of the module:	1. Introduction to orthosis , The biomechanical principles of orthosis. 2. Lower limb orthoses, Types and Function with their biomechanical principles and description of specifications for orthopaedic appliances. 3. Upper limb orthoses, Types and Function with their biomechanical principles and description of specifications for orthopaedic appliances. 4. Spinal orthosis, indications and Function with specific instructions regarding the care of the Orthosis. 5. Types of orthotic supports for Neck pain and Lowback pain. 6. The role of orthotics in sports injuries. 7. Assistive aids of walking, types of Walking aids and the measurement techniques. 8. Wheelchair types and assessment methods for prescribing the Wheel chair. 9. Amputation definition , with Causes , levels of Amputation done in lower and upper limbs. The complications of Amputation and the role of Physical therapist following a amputation. 10. Stump care and Stump exercise programme. 11. Designs and Types of Upper and lower limb prosthesis with relation to the level of amputation. 12. Prosthetic Fitting training with describtion to temporary prosthesis and modifications 13. The role of Physical therapist in Upper and Lowerlimb prosthetic training.
Examination:	Written/Oral examination, Practical/Clinical examination, Quiz, Assignment, Class Presentation, Practical/Clinical Log Book etc.

Module Description: Physical Therapy for Cardio-Respiratory Disorders

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 number: **PHT 437**	**Module title: Physical Therapy for Cardio-Respiratory Disorders**
Level/semester:	Eighth level / semester
Credit hours: 3	**Thereof lecture hours: 30**
	Thereof practical hours: 30
	Thereof self-study hours: 50
Language:	English
Learning outcomes/ Goals / Skills of the module:	After successfully completing this course you should be able to: 1. Describe the pathology and/or presentation of respiratory, cardiac, and/or surgical, conditions relevant to physiotherapy, applicable across the lifespan. 2. Describe the theory and rationales of treatment interventions available in cardiothoracic physiotherapy, applicable across the lifespan. 3. Demonstrate effective clinical reasoning to select and perform appropriate assessments and treatments in the area of cardiothoracic physiotherapy, applicable across cultural and age groups. 4. Appreciate the role of the physiotherapist in a multiprofessional team.
Content of the module:	1. Anatomy and physiology of Cardiorespiratory system 2. Assessment of Cardiorespiratory disorders 3. Overview of Physical Therapy Treatment 4. PT for Chronic Obstructive Pulmonary Disorders (COPD) 5. PT for Restrictive Pulmonary Disorders 6. PT for Occupational Lung Diseases 7. Respiratory Infections 8. Intensive care Physical Therapy 9. Cardiac Rehabilitation 10. Ischemic heart diseases 11. Peripheral vascular Diseases
Examination:	Written/Oral examination, Practical/Clinical examination, Quiz, Assignment, Class Presentation, Practical/Clinical Log Book etc.

Module Description: Selected Clinical Topics

This course develops students' knowledge and clinical skills related to physical therapy assessment & management of people with acute and chronic cardiorespiratory conditions.

Module number: **PHT443**	**Module title: Selected Clinical Topics**
Level/semester:	Eighth level / semester
Credit hours: 2	**Thereof lecture hours: 0**
	Thereof clinical hours: 90
	Thereof self-study hours: 60
Language:	English
Learning outcomes/ Goals / Skills of the module:	1. Student will have in-depth knowledge of the selected topics 2. Students will obtain information about any condition with relative ease 3. Students will use Evidence based practice 4. Students will perform a comprehensive examination. 5. Students will modify and employ the most effective method of rehabilitation.
Content of the module:	**Reading of case-sheet** 1. Understanding of the different terminologies used in the case sheet and the essential information present. 2. Clinical Assessment of Cardiorespiratory disorders 3. Investigations ; Chest X-Ray, ABG, Blood Analysis, Spirometry & Laboratory investigation interpretation. 4. Cardiopulmonary Physical Therapy Treatments 5. Intensive care Physical Therapy 6. Cardiac Rehabilitation 7. Clinical Management for Restrictive Pulmonary Disorders 8. Clinical Management for Chronic Obstructive Pulmonary Disorders (COPD) 9. Pulmonary Rehabilitation after Pulmonary Surgeries 10. Home Exercise Program
Examination:	Practical/Clinical examination, Quiz, Assignment, Class Presentation etc.

Module Description: Clinical Practice-2

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 number: **PHT442**	**Module title: Clinical Practice-2**
Level/semester:	Eighth level / semester
Credit hours: 3	**Thereof lecture hours: 0**
	Thereof clinical hours: 135
	Thereof self-study hours: 60
Language:	English
Learning outcomes/ Goals / Skills of the module:	1. Demonstrate ethical and professional behaviour appropriate to physicaltherapy 2. Assess a client accurately to determine problems and interpret and analyse the assessment findings. 3. Demonstrate an appropriate process of clinical reasoning in making decisions related to the client and develop a physicaltherapy intervention plan. 4. Students are able to apply his or her skills of assessment and effective management in dealing with the common neurological conditions. 5. Students are able to apply his or her skills of assessment and effective management in dealing with the common orthopedic conditions. 6. Students are able to apply his or her skills of assessment and effective management in dealing with the common cardio respiratory conditions. 7. Students are able to apply his or her skills of assessment and effective management in dealing with the common Geriatric conditions.
Content of the module:	1. Planning of assessment and management of neurological conditions under supervision of clinical instructor 2. Planning Of Assessment And Management Of Cardiopulmonary Conditions Under Supervision Of Clinical Instructor 3. Planning Of Assessment And Management Of Geriatric Conditions Under Supervision Of Clinical Instructor: Postural deviations, fall management, Osteoarthritis, Dementia. 4. Independent Management of Patient under Semi Supervision of Clinical Instructor. 5. Group Case Discussion about the Assessment Tools with the Peer and the Clinical Supervisor. *6.* Planning the Home Management and Discharge of the Patient.
Examination:	Practical/ Clinical examination, Assignment, Class Presentation, Practical/Clinical Log Book etc.

Module Description: Occupational Therapy

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 number: **PHT445**	**Module title: Occupational Therapy**
Level/semester:	Eighth level / semester
Credit hours: 2	**Thereof lecture hours: 30** **Thereof practical hours: 0** **Thereof self-study hours: 40**
Language:	English
Learning outcomes/ Goals / Skills of the module:	1. Identify the fundamental concepts and definitions of occupational therapy that can be applied in practice of physical therapy. 2. Identify physical principles related to human health and diseases for movement enhancement and functional restoration, which underpin occupational therapy. 3. Describe the principles of constructing plan of treatment and setting goals taking into account relevant contextual factors. 4. Identify the changes that result from occupational therapy including physiological, structural, behavioral and functional changes in different individuals and communities. 5. Analyze the treatment outcomes in relation to the determined goals and assess the progress of the patient.
Content of the module:	*1.* Definition of Occupational Therapy, scope of Occupational Therapists in Rehabilitation Team. *2.* Assessment of the patient: reporting and recording.Importance of comprehensive treatment plan for patient with special needs. *3.* Occupational Therapy Task-Oriented treatment Principles and Practices: Client-Centered Focus, Occupation-Based Focus, Person and Environment. *4.* Therapeutic activities and the equipments used in Occupational Therapy. *5.* Assistive Devices and its benefits in Basic ADL and Instrumental ADL. *6.* Occupational Therapy for the restoration of physical function. *7.* Theories & Model of Sensory Integration, the basic techniques of sensory integration. *8.* Optimizing Abilities and Capacities: Biomechanical Approach to treatment. *9.* Mobility Aids and Wheel Chairs , the types and occupational therapy assessment. *10.* Occupational therapy treatment principles & methods for common Musculoskeletal conditions. *11.* Occupational therapy treatment principles& methods for Psychiatric Conditions. 12. Ergonomics , application of knowledge about human capabilities
Examination:	Written/Oral examination, Quiz, Assignment, Class Presentation etc.

Module Description: Management & Ethics in Physical Therapy services

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 number: **PHT 456**	**Module title: Management & Ethics in Physical Therapy services**
Level/semester:	Eighth level / semester
Credit hours: 2	**Thereof lecture hours: 30**
	Thereof practical hours: 0
	Thereof self-study hours: 30
Language:	English
Learning outcomes/ Goals / Skills of the module:	1. Discuss the career ladders that include formal managerial responsibilities. 2. Determine the characteristics of the culture of health care. 3. Determine the culture of the physical therapy profession. 4. Identify major milestones in the development of leadership theories. 5. Distinguish organizational visions, missions, values, and goals from each other. 6. Analyze managerial decision making in given hospital situations. 7. Determine the attitude of physical therapy towards patients and various settings. 8. Discuss professional code of ethics
Content of the module:	1. Management in health care: Becoming a Manager, Transitioning from Patient Care to Management, Mentoring ,Large Health-Care Organizations 2. Health-care organizations and physical therapy: Organizational Culture, Intercultural Communication in Organizations, In-Groups and Out-Groups, Organizational Socialization 3. Leadership, management, and physical therapy: Defining Leadership, The Leadership Paradox, Lateral Leadership, Female Leaders 4. Responsibilities of the physical therapy manager 5. Overview of outpatient physical therapy 6. International code of ethics for the physical therapist 7. International code of ethics for the physical therapist
Examination:	Written/Oral examination,Quiz, Assignment, Class Presentation, etc.

Module Description: Geriatric Rehabilitation

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 number: PHT 438	**Module title: Geriatric Rehabilitation**
Level/semester:	Eighth level / semester
Credit hours: 2	**Thereof lecture hours: 15**
	Thereof practical hours: 30
	Thereof self-study hours: 45
Language:	English
Learning outcomes/ Goals / Skills of the module:	1. Comprehend the concept of aging process. 2. Demonstrate professional skills and confidence necessary in the Assessment & Management of some common clinical conditions found in the elderly population. 3. Appreciate the implications and complications of aging in all its ramifications. 4. Select and perform the best tests/scales and measures for examination of aging adults & Provide a safe and effective exercise prescription for the aging adult.
Content of the module:	1. Introduction: What is Gerontology?, Geriatrics?, Geriatric Physical therapy?The concept of aging (process) 2. Selected Theories of Aging , Age related changes in human,Principles and practice of Geriatric Rehabilitation. 3. Role of Physical Therapy in Selected Neurological conditions common in the elderly. 4. Administration of some selected assessment tools commonly used in elderly population 5. Role of Physical Therapy in Selected Musculoskeletal (orthopaedic) conditions common in the elderly. 6. Administration of some selected assessment tools commonly used in elderly population 7. Role of Physical Therapy in Selected Cardiothoracic conditions common in the elderly. 8. Administration of some selected assessment tools commonly used in elderly population 9. Physical Therapy in Selected Respiratory conditions common in the elderly 10. Introduction: What is Gerontology?, Geriatrics?, Geriatric Physical therapy?The concept of aging (process) 11. Selected Theories of Aging ,Age related changes in human,Principles and practice of Geriatric Rehabilitation. 12. Role of Physical Therapy in Selected Neurological conditions common in the elderly. 13. Administration of some selected assessment tools commonly used in elderly population

Examination:	Written/Oral examination, Practical/Clinical examination, Quiz, Assignment, Class Presentation, Practical/Clinical Log Book etc.

Module Description: Independent study

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.

Module number: **PHT-457**	**Module title: Independent study**
Level/semester:	Eighth level / semester
Credit hours: 2	**Thereof lecture hours: 30**
	Thereof practical hours: 0
	Thereof self-study hours: 45
Language:	English
Learning outcomes/ Goals / Skills of the module:	1. Analyze research articles and critique the research design or the methods used. 2. Develop skills in writing a research paper (following the traditional sequence used in publications). 3. Practice presenting their research orally (platform presentation) or visually (poster presentation). 4. Demonstrate an understanding of conducting a scientific research.
Content of the module:	1. Introduction to Principles of Research in Physical Therapy 2. Roots of Scientific Inquiry 3. Finding Scientific Material (literature search):Workshop: How to Conduct an Internet Search for Physical Therapy Literature 4. Evaluating the Literature 5. Research Design 6. Survey Research:The students present summary of relevant literature orally 7. Ethics, Sampling and Recruitment 8. The students present their final proposals
Examination:	Poster presentation,Research (Desertation) presentation

Appendix – 2

Brief CV of the Faculty Member

Curriculum Vitae

1. Pedagogic (scientific) degrees, name, surname	Dr. Fuzail Ahmad	
2. Education and scientific degrees	**PhD, PT (Pediatric Neurology)**	
Institution	**Professional qualification, qualification degree, academic degree**	**Year**
Singhania University, India	PhD	2013
Hamdard University, India	MPTh	2005
Bangalore University, India	BPT	2002
3. Place of work		
Institution	**Type of sector and occupation**	**Dates**
Majmaah University, Saudi Arabia	Academics, Head Department of Physical Therapy	Since 2013
Majmaah University, Saudi Arabia	Academics, Lecturer, Department of Physical Therapy	2009-2013
Jamia Hamdard, India	Academics, Lecturer	2005-2009
4. Lectured subjects or courses		
RHPT 241- Measurement in Physical Therapy		
RHPT 354- Neurophysiology		
RHPT 372 – Physical Therapy for Neurological Condition		
RHPT 497- Independent Study		
RHPT 471- Pharmacology		

CURRICULUM VITAE

1. Pedagogic (scientific) degrees, name, surname	**Associate Professor, Dr. Amal Mohamed Abd El Baky**	
2. Education and scientific degrees	PhD of Physiotherapy at Surgery	
Institution	**Professional qualification, qualification degree, academic degree**	**Year**
Faculty of Physical Therapy – Cairo University- Egypt	Bachelor of Physiotherapy	1995
Faculty of Physical Therapy – Cairo University- Egypt	Master of Physiotherapy	2001
Faculty of Physical Therapy – Cairo University- Egypt	Doctor of Physiotherapy at Surgery	2006
3. Place of work		
Institution	**Type of sector and occupation**	**Dates**
Faculty of Physical Therapy – Department of Surgery- Cairo University- Egypt	Demonstrator	1996-2001
Faculty of Physical Therapy – Department of Surgery- Cairo University- Egypt	Lecturer	2001-2006
Faculty of Physical Therapy – Department of Surgery- Cairo University- Egypt	Assistant Professor	2006-2009
College of Applied Medical Sciences - Department of Physical Therapy & Health Rehabilitation- Majmaah University	Associated Professor	2014- till now
4. Lectured subjects or courses		
Courses for Post Degree (Diploma)/ Faculty of Physical Therapy – Department of Surgery- Cairo University- Egypt		
Courses for Post Degree (Master) / Faculty of Physical Therapy – Department of Surgery- Cairo University- Egypt		
Physical Therapy for Burn Course -(Theoretical- Practical) Under Graduate / Faculty of Physical Therapy – Department of Surgery- Cairo University- Egypt		
Physical Therapy for Surgery Course (Theoretical- Practical) Under Graduate / Faculty of Physical Therapy – Department of Surgery- Cairo University- Egypt		
Dept. of Physical Therapy & Health Rehabilitation- College of Applied Medical Sciences - MU Measurement in Physical Therapy Course -241 RHPT- (Under Graduate) ▪ Quality Management Course- 310 GOD ▪ Management in Physical Therapy Course- 491 RHPT ▪ Electrotherapy (1) Course -244 RHPT ▪ Electrotherapy (2) Course- 353 RHPT ▪ Therapeutic Modality (1) Course – 221PHT ▪ Therapeutic Modality (2) Course – 222 PHT		

CURRICULUM VITAE

1. Pedagogic (scientific) degrees, name, surname	**Assistant Professor, Dr. SALAMEH AL DAJAH PhD MSC MPH PT**	
2. Education and scientific degrees		
Institution	**Professional qualification, qualification degree, academic degree**	**Year**
Loma Linda University/USA	BSc PT, MPH	1984
Medical college of Georgia/USA	MSc	1989
Loma Linda University/USA	PhD	2004
California State Board/USA	Physical therapy Board	1984
3. Place of work		
Institution	**Type of sector and occupation**	**Dates**
Loma Linda University/USA	Research assistant	2002-2004
Hashemite University/Jordan	Assistant Professor & HOD	2004-20010
Majmaah University/KSA	Assistant professor	2011-now
Loma Linda University Hospital/	Physical therapy	1999-2004
K H medical City/Jordan	HOD Physical therapy	1989-1999
4. Lectured subjects or courses		
Physical therapy for Orthopedic		
Biomechanics		
Research Methods		

CURRICULUM VITAE

1. Pedagogic (scientific) degrees, name, surname	**Assistant Professor, Dr. Mahamed Ateef**	
2. Education and scientific degrees	**Doctor of Philosophy**	
Institution	**Professional qualification, qualification degree, academic degree**	**Year**
Sainath University, Ranchi.	Ph.D, Asst Professor	2013 March
Sims Group of Institutes, Guntur	MPT-ORTHO	2009
Vels University, Chennai..	BPT	1998
3. Place of work		
Institution	**Type of sector and occupation**	**Dates**
MajmaahUniversity, Majmaah,KSA	Government, MOHE, KSA, Assistant Professor	12-5-2014-contineud
Worked as Asst professor in Maharashtra Institute of physiotherapy-Latur	Government, Assistant Professor	20-03-13TO 25-03-14.
4. Lectured subjects or courses		
1. Clinical Practice-493 2. PT for Orthopedics 475 3. Exercise therapy-2-1104,1105		
Exercise Physiology , Pathomechanics for post Graduates Elective Physiotherapy and Rehabilitation in Orthopedics for post Graduates.		
EBP-RCTrials Demo skills on Research Methodology –PEDro- for post Graduates.		

CURRICULUM VITAE

1. Pedagogic (scientific) degrees, name, surname	**Assistant Professor, Dr. Mohamed Sherif Sirajudeen**	
2. Education and scientific degrees	**PhD - Physiotherapy**	
Institution	**Professional qualification, qualification degree, academic degree**	**Year**
Yenepoya University, Mangalore, India	PhD - Physiotherapy	2014
Tamil Nadu Dr. M.G.R. Medical University, Chennai, India.	Master of Physiotherapy (Neurology)	2004
Tamil Nadu Dr. M.G.R. Medical University, Chennai, India.	Bachelor of Physiotherapy	2000
3. Place of work		
Institution	**Type of sector and occupation**	**Dates**
Yenepoya University, Mangalore, India	Health Sciences University, Associate Professor	01-02-2006 to 23-08-2014
Shadan Institute of Medical Sciences, Hyderabad, India.	Teaching Hospital and Research Center, Assistant Professor/ Head – Physiotherapy Department.	03-12-2004 to 30-01-2006
Modern Institute of Physical Medicine and Rehabilitation, Hyderabad, India.	Physiotherapy College and Rehabilitation Center, Assistant Professor/ Clinical Physiotherapist	10-06-2003 to 02-12-2004
4. Lectured subjects or courses		
Master of Physiotherapy		
Advance Physiotherapy in Neurology, Journal Presentation		
Bachelor of Physiotherapy		
Biomechanics, Therapeutic Exercise, Electrotherapy, Physiotherapy in Neurology and Neurosurgery, Community Based Rehabilitation		

CURRICULUM VITAE

1. Pedagogic (scientific) degrees, name, surname	**Assistant Professor Dr. Shaik Abdul Rahim**	
2. Education and scientific degrees	MPT	
Institution	**Professional qualification, qualification degree, academic degree**	**Year**
Yenepoya University, Mangalore	PhD	2013
Dr MGR Medical Unversity, Chennai	MPT	2007
Mangalore University, Mangalore	BPT	1997
3. Place of work		
Institution	**Type of sector and occupation**	**Dates**
College of Applied Medical Sciences, Majmaah University	Higher Education, Assistant Professor	Sept 2014
Yenepoya Physiotherapy College, Yenepoya University	Higher Education, Associate Professor and Vice Principal	August 2003 - July 2014
4. Lectured subjects or courses		
Emergency Care		
PT Neurology		

CURRICULUM VITAE

1. Pedagogic (scientific) degrees, name, surname	**Assistant Professor, Dr. Mohamed Kotb Khalil Seyam**	
2. Education and scientific degrees	Doctoral degree in Physical Therapy	
Institution	**Professional qualification, qualification degree, academic degree**	**Year**
Cairo University	*Bachelor's degree in physical therapy*	1997
Cairo University	Master degree in physical therapy	2007
Cairo University	Doctoral degree in physical therapy	2011
3. Place of work		
Institution	**Type of sector and occupation**	**Dates**
Zagazig University Hospitals	Assistant professor and Clinical consultant	From September 2012 to july 2014
Majmaah university	Assistant professor	From august 2014 to till date
4. Lectured subjects or courses		
PT for Respiratory Diseases		
Selected Clinical topics		
Human Anatomy		

CURRICULUM VITAE

1. Pedagogic (scientific) degrees, name, surname	**Assistant Professor, Dr. Walaa Sayed Mohammad**	
2. Education and scientific degrees	Ph.D. Degree in Biomechanics M.Sc. Degree in Physical Therapy. Bachelor Degree in Physical Therapy.	
Institution	**Professional qualification, qualification degree, academic degree**	**Year**
Biomechanics Department, Faculty of Physical Therapy, Cairo University.	Ph.D. Degree in Biomechanics	2010
Biomechanics Department, Faculty of Physical Therapy, Cairo University.	M.Sc. Degree in Physical Therapy	2006
Faculty of Physical Therapy, Cairo University	Bachelor Degree in Physical Therapy	2000
3. Place of work		
Institution	**Type of sector and occupation**	**Dates**
Majmaah University, College of Applied Medical Science.	Assistant professor, Physical Therapy department.	2013
Cairo University, Faculty of Physical Therapy	Assistant professor, Biomechanics Department.	2010
Cairo University, Faculty of Physical Therapy	Lecturer, Biomechanics Department.	2006
Cairo University, Faculty of Physical Therapy	Demonstrator, Biomechanics Department.	2002
4. Lectured subjects or courses		
- Introduction to biomechanics		
- Gait analysis..		
- Orthopedic & regional biomechanics for upper & lower extremities.		
- Ergonomics.		
- Traumatology.		
- Musculoskeletal Anatomy		
- Research Methodology.		
- Advanced Physical Therapy Procedures.		

CURRICULUM VITAE

1. Pedagogic (scientific) degrees, name, surname	**Assitant Professor, Dr. Intsar salim abd el- aziz waked**	
2. Education and scientific degrees	Assistant professor of physical therapy	
Institution	**Professional qualification, qualification degree, academic degree**	**Year**
Faculty of Physical Therapy, Cairo University	Doctoral degree of Physical Therapy	2010
	Master degree of Physical Therapy	2005
	Bachelor of Physical Therapy	1999
4. Place of work		
Institution	**Type of sector and occupation**	**Dates**
College of applied Medical science, Majmaah University, Kingdom of Saudi Arabia.	Assistant professor	2010 Until Now
Faculty of Physical Therapy, Cairo University, Egypt	Lecturer	2010 Until Now
	Assistant lecturer	2005-2010
	Demonstrator	1999 - 2005
5. **Lectured subjects or courses**		
Management in physical therapy		
Independent study		
Theoretical and practical part of Advanced procedures in physical therapy		
Theoretical and practical part of physical therapy of burn and surgery course		
Theoretical and practical part of Hydrotherapy course		
Theoretical and practical part of human biomechanics course.		
Theoretical and practical part of Introduction in biomechanics.		

CURRICULUM VITAE

1. Pedagogic (scientific) degrees, name, surname	**Lecturer, Mr. Loganathan Chandrasekar M.**	
2. Education and scientific degrees	**Master of Physiotherapy in Sports Physiotherapy**	
Institution	**Professional qualification, qualification degree, academic degree**	**Year**
Vivekanandha Institute of Medical Science & Research, Tiruchengodu, tamilnadu, India	M.P.T	2001
R.V.S. College of Physiotherapy, Coimbatore, tamilnadu, India	B.P.T	1997
3. Place of work		
Institution	**Type of sector and occupation**	**Dates**
Majmaah University, CAMS, Department of Physical Therapy & Health Rehabilitation, KSA.	Government Sector (MOH), Lecturer	09/01/1431H Onwards
Padmashri Dr. Vithalrao Vikhe Patil Foundation's, College of Physiotherapy, Ahmadnagar, Maharashtra, India	Private Sector, Principal / Professor	01/02/2007 To 23/12/2009
Garden City College of Physiotherapy, Bangalore, India	Private Sector, Asso.Professor / HOD	15/03/2004 To 31/01/2007
Vivekanandha Institute of Medical Science & Research, Tiruchengodu, tamilnadu, India	Private Sector, Asso.Professor / Principal In-charge	09/02/1998 To 10/03/2004
4. Lectured subjects or courses		
Selected Clinical Topics		
Therapeutic Modality - 1		
P.T. in Burns & Surgery conditions		
Traumatology		
Therapeutic Modality - 2		
Therapeutic Exercise - 2		
Human Biomechanics		
Hydrotherapy		
Geriatric Rehabilitation		
Electrotherapy - 1		
Advanced Physical Therapy Procedures		
Reading In Medical Imaging		
Exercise Therapy		
Exercise Physiology		
Allied Therapeutics		
Sports Training		

CURRICULUM VITAE

1. Pedagogic (scientific) degrees, name, surname	**Lecturer, Mr. Radhakrishnan Unnikrishnan**	
2. Education and scientific degrees	**Master of physical therapy (orthopedics)**	
Institution	**Professional qualification, qualification degree, academic degree**	**Year**
Dr.MGR University	M.P.T (Orthopedics)	2005
University of Madras	M.Sc (Psychology)	2003
Dr.MGR Medical University	B.P.T	2000
3. Place of work		
Institution	**Type of sector and occupation**	**Dates**
Majmaah University,Almajma	Dept of Physical therapy & Health Rehabilitation Designation: **Lecturer**	29.5.2010 to till date
SRM University, Chennai	College of Physiotherapy, Designation: **Assistant professor**	17.4.2006 to 14.5.2010
Indian Red cross society, Tamil Nadu State Branch.	Vocational Training & Rehabilitation centre, Designation: **Physiotherapist**	1.11.2000 to 29.10.2003
The Best Hospital private Ltd.	**Consultant Physiotherapist**	2.11.2001 to 15.5.2010
4. Lectured subjects or courses		
a) Basic Physical therapy courses (Electrotherapy , Exercise therapy & Massage)		
b) Physical therapy in orthopedics & Surgical conditions		
c) Applied Anatomy ,Biomechanics & Pathomechanics		
d) Advanced Physical Therapy procedures		
e) Occupational therapy		
5. Academic Activities – Summary		
1. Second Author for the book " Specialized Physical therapy Techniques assessment and treatment" LAP LAMBERT Academic Publishing (July 8, 2014) **ISBN-10:** 3659570427 **ISBN-13:** 978-3659570421		
2. Publications in Indian Physical therapy and science Journal April-June 2013, Vol.8,N0.2,Page.244		
3. Publications in Indian Physical therapy and science Journal April-June 2013,Page.260		
4. Member in Accreditation committee for NAAC (National Assessment & Accreditation Council)- SRM University 2006		
5. Member in Accreditation committee for UGC (University Grants commission)- SRM University 2007 & 2009		

CURRICULUM VITAE

1. Pedagogic (scientific) degrees, name, surname	**Lecturer, Mr. Faizan Zaffar Kashoo**	
2. Education and scientific degrees	Master of Neurology	
Institution	**Professional qualification, qualification degree, academic degree**	**Year**
Rajiv Gandhi Institute of Health Sciences, Bangalore	Bachelor of Physiotherapy	**2001**
Jamia Hamdard, New Delhi	**Master of neurology**	**2004**
3. Place of work		
Institution	Type of sector and occupation	Dates
Institute of Applied Medical Sciences and Research, Ghaziabad, India	Education Institute, Head of the Physical Therapy Department.	2004-2006
M.M University, Ambala, India	University, Dean of MM Institute of Physical Therapy And Rehabilitation.	2006-2010
Majmaah University, Kingdom of Saudi Arabia	Majmaah University, Lecturer	2010 Onwards
4. Lectured subjects or courses		
Introduction in biomechanics		
Human Biomechanics		
Biomechanics for medical technology		
Physical Therapy in Neurological Disorders		
Measurement In Physical Therapy		
Therapeutic exercise-1		
Patent care		
Selected Clinical topics		
Orthotic and prosthetic		
Management in Physical Therapy		
Occupational therapy		

CURRICULUM VITAE

1. Pedagogic (scientific) degrees, name, surname	**Lecturer, Mr. HARIRAJA MUTHUSAMY**	
2. Education and scientific degrees	**Master of Physiotherapy (MPT) in Advanced PT in Cardio – Pulmonary Diseases.**	
Institution	**Professional qualification, qualification degree, academic degree**	**Year**
Vivekanandha College of Physiotherapy, Thiruchengode Affliated to The Tamil Nadu Dr. M.G.R Medical university.	Master of Physiotherapy (MPT) in Advanced PT in Cardio – Pulmonary Diseases.	2006
P.P.G. College of Physiotherapy, Coimbatore Affliated to The Tamil Nadu Dr. M.G.R Medical university	Bachelor of Physiotherapy (BPT)	2003
3. Place of work		
Institution	**Type of sector and occupation**	**Dates**
A.W.H Special College, Kallai, Calicut, Kerala, INDIA	Teaching and Clinical - Assistant Professor and Consultant Physiotherapist	2006 - 2008.
College of Physiotherapy, Rajasthan Vidhyapeeth University, Rajasthan, INDIA	Assistant Professor and Consultant Physiotherapist	April 2008 to Sep.2008
P. P. G. College of Physiotherapy, Coimbatore, Tamilnadu. INDIA	Teaching and Clinical - Assistant Professor and Consultant Physiotherapist	2008 - 2010.
Department of Physical Therapy, College of Applied Medical Sciences, Almajma'ah University, SAUDI ARABIA.	Teaching and Clinical - Lecturer	2010 Onwards
4. Lectured subjects or courses		
RHPT 244 – ELECTROTHERAPY 1		
RHPT 353 – ELECTROTHERAPY 2		
RHPT 363 – MEDICAL MASSAGE		
RHPT 362 - HYDROTHERAPY		
RHPT 476 - PT FOR BURNS AND SURGICALS		
RHPT 481 – PT FOR RESPIRATORY DISEASES		
RHPT 483 – GERIATRIC REHABILITATION		
RHPT 494 – SLECTED CLINICAL TOPICS		
RHPT 496 – PATIENT CARE.		

CURRICULUM VITAE

1. Pedagogic (scientific) degrees, name, surname	**Lecturer, Mr. PRASHANT P. KASHYAP**	
2. Education and scientific degrees	**Master of Physiotherapy**	
Institution	**Professional qualification, qualification degree, academic degree**	**Year**
Padmashree Institute of Physiotherapy	Master of Physiotherapy	2005
SDM College of Physiotherapy	Bachelor of Physiotherapy	2002
3. Place of work		
Institution	**Type of sector and occupation**	**Dates**
College of Applied Medical Sciences, Dept. of Physical Therapy, Majmaah University	Higher Education , Lecturer	2010 Onwards
Vikram Hospital	Health Services , Physiotherapist	2008 – 2010
Nargund College of Physiotherapy	Higher Education , Lecturer	2004 – 2008
4. Lectured subjects or courses		
1. Anatomy		
2. Therapeutic Exercise		
3. Orthotics and Prosthetics		
4. Cardiovascular Disorders		

CURRICULUM VITAE

1. Pedagogic (scientific) degrees, name, surname	**Lecturer, Mr. ABDELHAMID NABIL ABDELHAMID DEGHIDI**	
2. Education and scientific degrees	Master degree of Physical Therapy	
Institution	**Professional qualification, qualification degree, academic degree**	**Year**
Faculty of Physical Therapy, Cairo University	Master degree of Physical Therapy	2008
	Bachelor degree of Physical Therapy	2001
4. Place of work		
Institution	**Type of sector and occupation**	**Dates**
College of applied Medical science, El Majma'ah University, Kingdom of Saudi Arabia.	Lecturer	2008 Until Now
Minstry of Health, Egypt	Lecturer& cheif of Physical Therapy department	2008 Until Now
	Senior of Physical Therapists	2005-2008
	Physical Therapist	2002 - 2005

5. **Lectured subjects or courses**
Theoretical and practical part of Pediatric in physical therapy
Clinical Practice in Pediatric
Theoretical and practical part of Advanced procedures in physical therapy
Theoretical and practical part of Therapeutic Modalities I
Theoretical and practical part of Measurement in physical therapy
Theoretical and practical part of human biomechanics course.
Theoretical and practical part of Therapeutic Exercises I course.
Theoretical and practical part of Therapeutic Exercises II course.
Theoretical and practical part of Occuptional Therapy course..
Rehabilitation Psychology course.

CURRICULUM VITAE

1. Pedagogic (scientific) degrees, name, surname	**Lecturer, Mr. WALAA MOHAMED ELSAYED**	
2. Education and scientific degrees	M.Sc. Degree in Physical Therapy. Bachelor Degree in Physical Therapy.	
Institution	**Professional qualification, qualification degree, academic degree**	**Year**
Cairo University, Egypt.	M.Sc. Degree in Physical Therapy	2008
October 6 University, Egypt	Bachelor Degree in Physical Therapy	2000
3. Place of work		
Institution	**Type of sector and occupation**	**Dates**
Majmaah University, College of Applied Medical Science.	Lecturer, physical therapy department	2013ill now up t
Hail University, College of Applied Medical Science.	Lecturer, physical therapy department	2011-2013
Tanta sports medicine center	Senior physical therapist	2002-2011
4. Lectured subjects or courses		
Introduction to biomechanics		
Human anatomy		
Musculoskeletal anatomy		
Therapeutic exercise		
Therapeutic modalities		
Medical massage		
Rehabilitation of Sports injuries		
Management in physical therapy		
Orthotics and prosthetics		
Test and measurements in physical therapy		
Rehabilitation of Cardiopulmonary disorders		
Traumatology		
Advanced Physical Therapy Procedures.		

CURRICULUM VITAE

1. Pedagogic (scientific) degrees, name, surname	**Lecturer, Ms. NIVEDITA P. KASHYAP**	
2. Education and scientific degrees		
Institution	**Professional qualification, qualification degree, academic degree**	**Year**
Kempegowda Institute of Physiotherapy	Master of Pediatric Physiotherapy	2007
SDM College of Physiotherapy	Bachelor of Physiotherapy	2001
3. Place of work		
Institution	**Type of sector and occupation**	**Dates**
College of Applied Medical Sciences, Dept. of Physical Therapy, Majmaah University	Higher Education , Lecturer	October 2010 till date
JSS College of Physiotherapy, Mysore	Higher Education , Lecturer	March 2003 – September 2010
Nargund College of Physiotherapy, Bangalore	Higher Education , Lecturer	February 2001 – February 2003
4. Lectured subjects or courses		
1. Measurements in Physical Therapy		
2. Therapeutic Exercise		
3. NeuroAnatomy		
4. Orthotics and Prosthetics		
5. Clinical Pediatrics		

CURRICULUM VITAE

1. Pedagogic (scientific) degrees, name, surname	**Lecturer, Ms. SAVITA SINGH**	
2. Education and scientific degrees	**MASTER OF PHYSICAL THERAPY (ORTHOPEDICS)**	
Institution	**Professional qualification, qualification degree, academic degree**	**Year**
CCS University, Meerut.	Masters in Physical therapy(Orthopaedics)	2007
MD University, Rohtak	Bachelors in Physical therapy	2003
3. Place of work	**Rohtak**	
Institution	**Type of sector and occupation**	**Dates**
Majmaah University,Almajma	Dept of Physical therapy & Health Rehabilitation Designation: **Lecturer**	28.02.2010 till date
Gaur Brahman College of Ayurvedic & Physiotherapy, Rohtak	Semi government Institute. Worked in Hospital as well as in Teaching. **Designation:** Lecturer	Dec 2004 – Jan 2010
Shri Baba Mastnath college of Physiotherapy, Rohtak	Management college, Worked in Hospital as well as in Teaching. **Designation:** Lecturer	Dec 2003 -- Nov 2004
4. Lectured subjects or courses		
1. Exercise therapy.		
2. Electrotherapy.		
3. Massage.		
4. Rehabilitation Psychology.		
5. Physiotherapy management in Orthopaedics Disorders.		
6. Research methodology.		

CURRICULUM VITAE

1. Pedagogic (scientific) degrees, name, surname	**Lecturer, Ms. RASHMI.A.SAIBANNAVAR**	
2. Education and scientific degrees	**Master of Physiotherapy**	
Institution	**Professional qualification, qualification degree, academic degree**	**Year**
S.D.M College of physiotherapy Dharwad, Karnataka	Bachelor of Physiotherapy	2006
Shreedevi College Of Physiotherapy, Mangalore,Karnataka	Master of Physiotherapy	2008
3. Place of work		
Institution	**Type of sector and occupation**	**Dates**
K.L.E College of Physiotherapy Hubli, Karnataka	Private Sector – Assistant Professor	April 2009 to November 2011.
4. Lectured subjects or courses		
1. Co-guide of students in post-graduate level in Neurology specialties. Subjects :Neuro Anatomy ,Functional and Electro diagnosis for post graduates K.L.E College of Physiotherapy Hubli, Karnataka,India		
2. Subjects :Research Methodology, Exercise Therapy, PT in Neurology for under-graduate students K.L.E College of Physiotherapy Hubli, Karnataka,India		
3. Management in PT Services PT in Neurological disorders . Independent Study Neurophysiology Clinical Practice Reading in medical imaging Patient Care Geriatric Rehabilitation (Under Graduate) / College of Applied Medical Sciences - Department of Physical Therapy & Health Rehabilitation- Majma'ah University		

CURRICULUM VITAE

1. Pedagogic (scientific) degrees, name, surname	**Lecturer, Ms. MINAZ SALEEM SHAIKH**	
2. Education and scientific degrees	**Master of Physiotherapy**	
Institution	**Professional qualification, qualification degree, academic degree**	**Year**
Jawaharlal Nehru College of Physiotherapy, Belgaum, Karnataka	Bachelor Of Physiotherapy	2004
Srinivas College Of Physiotherapy, Mangalore,Karnataka	Master of Pediatric Physiotherapy (Gold Medal)	2007
3. Place of work		
Institution	**Type of sector and occupation**	**Dates**
Harsaran Dass Medical College, Gaziabad, UP	Private Sector- Lecturer	2007 - 2008
Krishna College Of Physiotherapy, Karad, Maharastra	Deemed University- Lecturer	2008 - 2010
4. Lectured subjects or courses		
1. Co-guided students in post-graduate level in pediatrics and neuology specialities.		
2. Exercise therapy, Electrotherapy, PT in Neurology for under-graduate students		
3. PT pediatrics		
4. Clinical Practice		
5. Selected Clinical Topics		
6. Exercise Therapeutics 1 &2		

Appendix – 3

Physical Therapy Program Details

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	Theraputic 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

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
Internship												
54	____	Non credit 1 year of supervised Clinical Internship. (08:00 t0 04:00 PM, 5 Days for 52 Weeks)	2080 Contact Hours									
		Total Program Hours	**85**	**44**	**8**	**137**	**1275**	**1320**	**360**	**3200**	**190**	**6345**

Appendix – 4

Elective Program Modules

MAJMAAH UNIVERSITY
COLLEGE OF APPLIED MEDICAL SCIENCES
BACHELOR OF PHYSICAL THERAPY
UNIVERSITY/COLLEGE/PROGRAM REQUIREMENTS

S.N.	Code	Course Name	Credits
Electives Modules- University Requirement (Any 6 Modules)			
1	SALM101	Introduction to Islamic culture	2
2	SALM102	Islam and community-building	2
3	SALM103	Economic System in Islam	2
4	SALM104	The foundations of the political system in Islam	2
5	ARAB101	Language skills	2
6	ARAB102	Arabic writing	2
7	SOCI101	Contemporary societal issues	2
8	ENG101	English	2
9	ENT101	Entrepreneurship	2
10	FCH101	Family and Children	2
11	HAF101	Basics Health and Fitness	2
12	LHR101	Regimes and human rights	2
13	VOW101	Volunteering	2
Mandatory College Module			
14	CAMS231	Emergency care	2
Electives Modules- College Requirement (Any 2 Modules)			
15	CAMS232	Medical Terminology	2
16	CAMS233	Introduction to Biostatisticis	2
17	CAMS234	The quality of health care	2
Elective Module-Program Requirement (Any 2 Modules)			
18	PHT328	Hydrotherapy	2
19	PHT329	Medical Massage	2
20	PHT334	Physiotherapy For Women's Health	2
21	PHT352	Human Growth & Development	0

Appendix – 5

Faculty Work Load

FACULTY WORKLOAD (IInd Semester 1435-36)

DEPARTMENT OF PHYSICAL THERAPY

SN	Name of Faculty	Course Code	Course Name	Level	Theory	Practical	Clinical	Credit	Contact Hours
1	**Dr. Fuzail Ahmad** Head of the Department	RHPT 497	Independent study	L9	2	*	*	2	2
		RHPT 495	Research Methodology	L9	2	*	*	2	2
		RHPT 365	Pharmacology	L6	2	*	*	2	2
					6	**0**	**0**	**6**	**6**
2	**Dr. Salameh Al Dajaah** Assitant Professor	RHPT 475	Physical Therapy for Orthopedics and Rheumatology	L7	2	*	1x2S	4	6
		PHT 361	Research Methodology	L6	2	*	*	2	2
		RHPT 497	Independent study	L9	2	*	*	2	2
		RHPT 491	Management of Physical Therapy Services	L9	2	*	*	2	2
					8	**0**	**2**	**10**	**12**
3	**Dr. Amal ElBaky** Assitant Professor & Coordinator Female Section	PHT 221	Therapeutic Modalities I	L4	2	1	*	3	4
		PHT 221	Therapeutic Modalities II	L4	2	1	*	3	4
		PHT 334	Physiotherapy for Women's Health	L6	2	*	*	2	2
					6	**0**	**0**	**8**	**12**
4	**Dr. Walaa Sayed** Assitant Professor	PHT 212	Musculoskeletal Anatomy		2	1	*	3	4
		RHPT 242	Human Anatomy	L4	2	1	*	3	4
		PHT 226	Introduction to Biomechanics	L4	1	2	*	3	4
		PHT 327	Human Biomechanics	L5	2	1	*	3	4
		RHPT 366	Traumatology	L6	1	1	*	2	2
					8	**6**	**0**	**14**	**18**
5	**Dr. Intsar Waked** Assitant Professor	RHPT 362	Hydrotherapy	L6	2	1	*	3	4
		RHPT 484	Advanced Physical Therapy Procedures	L8	1	2x2S	*	5	9
		RHPT 491	Management of Physical Therapy Services	L9	2	*	*	2	2
					5	**5**	**0**	**10**	**15**
6	**Dr. Mohammad Atif** Assitant Professor	RHPT 366	Traumatology	L6	1	1	*	2	3
		RHPT 485	Reading in Medical Imaging	L8	2	1	*	3	4
		PHT 224	Therapeutic Exercise-1	L4	1	2	*	3	5
		RHPT 497	Independent study	L9	2	*	*	2	2
		RHPT 493	Clinical Practice	L9	*	*	2	2	4
					6	**4**	**2**	**12**	**16**
7	**Dr. Mohammad Sherif** Assitant Professor	RHPT 246	Therapeutic Exercise-1	L4	1	2	*	3	5
		RHPT 496	Patient Care	L9	2	*	*	2	2
		RHPT 492	Occupational Therapy	L9	2	1	*	3	4
		RHPT 472	Physical Therapy for Neurological Disorders	L7	2	*	1x2S	4	6
					7	**3**	**2**	**12**	**17**
8	**Dr. Mohammad Seyam** Assitant Professor	RHPT 481	Physical Therapy for Respiratory Disorders	L8	2	*	1	3	4
		RHPT 482	Physical Therapy for Cardiovascular Disorders	L8	2	*	1	3	4
		PHT 224	Therapeutic Exercise-1	L4	1	2x2	*	5	9
		PHT 353	Rehabilitation Psychology	L6	2	*	*	2	2
					7	**2**	**2**	**11**	**19**

FACULTY WORKLOAD (IInd Semester 1435-36)

DEPARTMENT OF PHYSICAL THERAPY

SN	Name of Faculty	Course Code	Course Name	Level	Theory	Practical	Clinical	Credit	Contact Hours
9	**Dr. Abdulrahim Shaik** Assitant Professor	PHT 213	Neuroanatomy	L4	2	1	*	3	4
		PHT 352	Human Growth & Development	L6	2	*	*	2	2
		RHPT 497	Independent study	L9	2	*	*	2	2
		RHPT 483	Geriatric Rehabilitation	L8	2	*	1x2S	4	6
					8	**1**	**2**	**11**	**14**
10	**Mr. Abdonabil Hamid** Lecturer	PHT 332	PT for Pediatrics	L6	3	1	*	4	5
		RHPT 364	PT for Pediatrics	L6	2	1	*	3	4
		RHPT 474	Clinical Practice in Pediatrics	L7	*	*	2	2	6
		RHPT 473	Rehabilitation Psychology	L7	2	*	*	2	2
					7	**2**	**2**	**11**	**17**
11	**Mr. Chandrasekar L.** Lecturer	PHT 319	Pharmacology	L6	2	*	*	2	2
		RHPT 362	Hydrotherapy	L6	2	1	*	3	4
		PHT 333	Physical Therapy for Sports &Traumatology	L6	1	1x2S	*	3	5
		PHT 316	Exercise Physiology	L6	1	1	*	2	3
					6	**4**	**0**	**10**	**14**
12	**Mr. Faizan Zafar** Lecturer	PHT 222	Therapeutic Modality 2	L4	2	1x2S	*	4	6
		RHPT 245	Introduction to Biomechanics	L5	1	1	*	2	3
		RHPT 471	Orthotics and Prosthetics	L7	1	1	*	2	3
		RHPT 494	Selected Clinical Topics	L9	*	*	2	2	4
					4	**4**	**2**	**10**	**16**
13	**Mr. Hariraja M.** Lecturer	PHT 223	Measurements in Physical Therapy	L4	1	2x3S	*	7	13
		RHPT 481	Physical Therapy for Respiratory Disorders	L8	2	*	1	3	4
					3	**6**	**1**	**10**	**17**
14	**Mr. Prashant Kashyap** Lecturer	RHPT 241	Measurements in Physical therapy	L4	1	2	*	3	5
		RHPT 482	Physical Therapy for Cardiovascular Disorders	L8	2	*	1	3	4
		PHT 316	Exercise Physiology	L6	*	1	*	1	2
		RHPT 244	Electrotherapy-1	L4	2	1	*	3	4
					5	**4**	**1**	**10**	**15**
15	**Mr. Radhakrishnan U** Lecturer	RHPT 476	PT For Burns and Surgical Conditions	L7	2	*	1	3	4
		RHPT 484	Advanced Physical Therapy Procedures	L8	1	2	*	3	5
		RHPT 483	Geriatric Rehabilitation	L7	2	*	1x2S	4	6
					5	**2**	**3**	**10**	**15**

FACULTY WORKLOAD (IInd Semester 1435-36)

DEPARTMENT OF PHYSICAL THERAPY

SN	Name of Faculty	Course Code	Course Name	Level	Theory	Practical	Clinical	Credit	Contact Hours
16	**Mr. Walaa Mohammad** Lecturer	PHT 226	Introduction to Biomechanics	L4	1	1	*	2	3
		RHPT 242	Human Anatomy	L4	2	1	*	3	4
		RHPT 484	Advanced Physical Therapy Procedures	L8	1	2	*	3	5
		RHPT 363	Medical Massage	L6	1	1	*	2	3
					5	**5**	**0**	**11**	**15**
17	**Ms. Rashmi Saibannavar** Lecturer	PHT 315	Neurophysiology	L5	2	1	*	3	4
		PHT 316	Exercise Physiology	L6	1	1	*	2	3
		PHT 353	Rehabilitation Psychology	L6	2	*	*	2	2
		RHPT 485	Reading in Medical Imaging	L8	2	1x2S	*	4	6
		RHPT 493	Clinical Practice	L9	*	*	2	2	4
		RHPT 496	Patient Care	L9	2	*	*	2	2
					9	**4**	**2**	**15**	**21**
18	**Ms. Nivedita Kashyap** Lecturer	PHT 223	Measurements in Physical Therapy	L4	1	2x2S	*	5	9
		RHPT 241	Measurements in Physical therapy	L4	1	2	*	3	5
		PHT 213	Neuroanatomy	L4	2	1x2S	*	4	6
		PHT 325	Therapeutic Exercise II	L5	1	*	*	1	1
		RHPT 481	Physical Therapy for Respiratory Disorders	L8	2	*	1x2S	4	6
		RHPT 364	PT for Pediatrics	L6	2	1	*	3	4
					9	**9**	**2**	**20**	**31**
19	**Ms. Savita Singh** Lecturer	PHT 224	Therapeutic Exercise-1	L4	1	2x2S	*	4	9
		RHPT 246	Therapeutic Exercise-1	L4	1	2	*	3	5
		PHT 333	Physical Therapy for Sports &Traumatology	L6	1	1	*	2	3
		RHPT 363	Medical Massage	L6	1	1	*	2	3
		PHT 329	Medical Massage	L5	1	1	*	2	3
		RHPT 483	Geriatric Rehabilitation	L8	2	*	1x2S	4	6
		RHPT 492	Occupational Therapy	L9	2	1	*	3	4
					9	**10**	**2**	**20**	**33**
20	**Ms. Minaz Shaikh** Lecturer	PHT 325	Therapeutic Exercise II	L5	*	2	*	2	4
		RHPT 365	Pharmacology	L6	2	*	*	2	2
		PHT 319	Pharmacology	L6	2	*	*	2	2
		PHT 332	PT for Pediatrics	L6	3	1	*	4	5
		PHT 361	Research Methodology	L6	2	*	*	2	2
		RHPT 482	Physical Therapy for Cardiovascular Disorders	L8	2	*	1x2S	4	6
		RHPT 495	Research Methodology	L9	2	*	*	2	2
		RHPT 494	Selected Clinical Topics	L9	*	*	2	2	4
					13	**3**	**4**	**20**	**27**