

FACULTY OF PHYSICAL THERAPY



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Physical Therapy Profession:

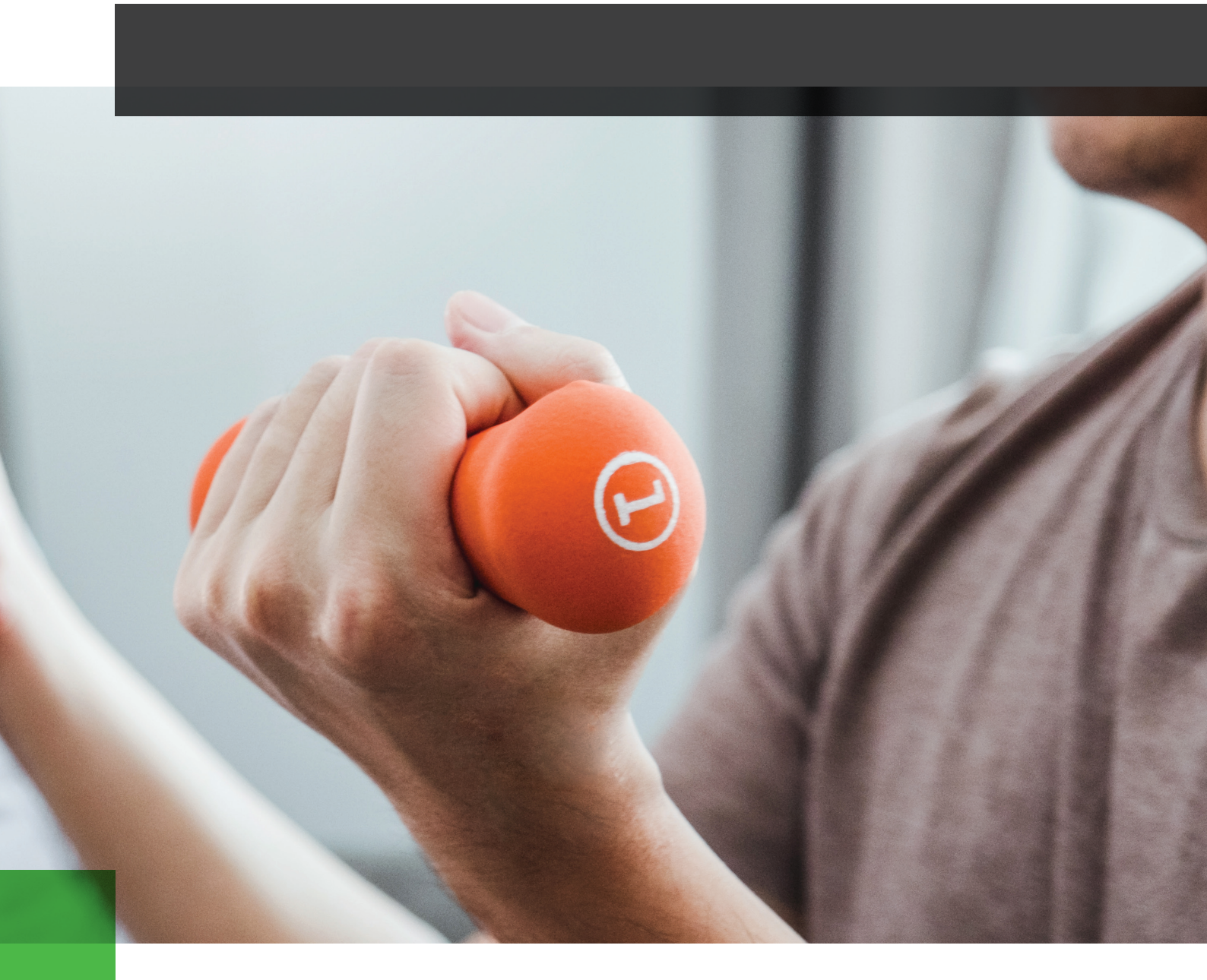
Physical Therapy is one of the promising medical professions concerned with the promotion of community health, the prevention of disability, and the evaluation and rehabilitation of disorders & disabilities. Physical therapists, are professionally educated specialists, offering treatment by physical therapeutic measures to a full range of patients in areas such as sports medicine, orthopedics, neurology, pediatrics, cardiopulmonary, manipulative therapy, or other fields of interest. Consequently, Physical Therapy enhances the quality of life & economy of the society.





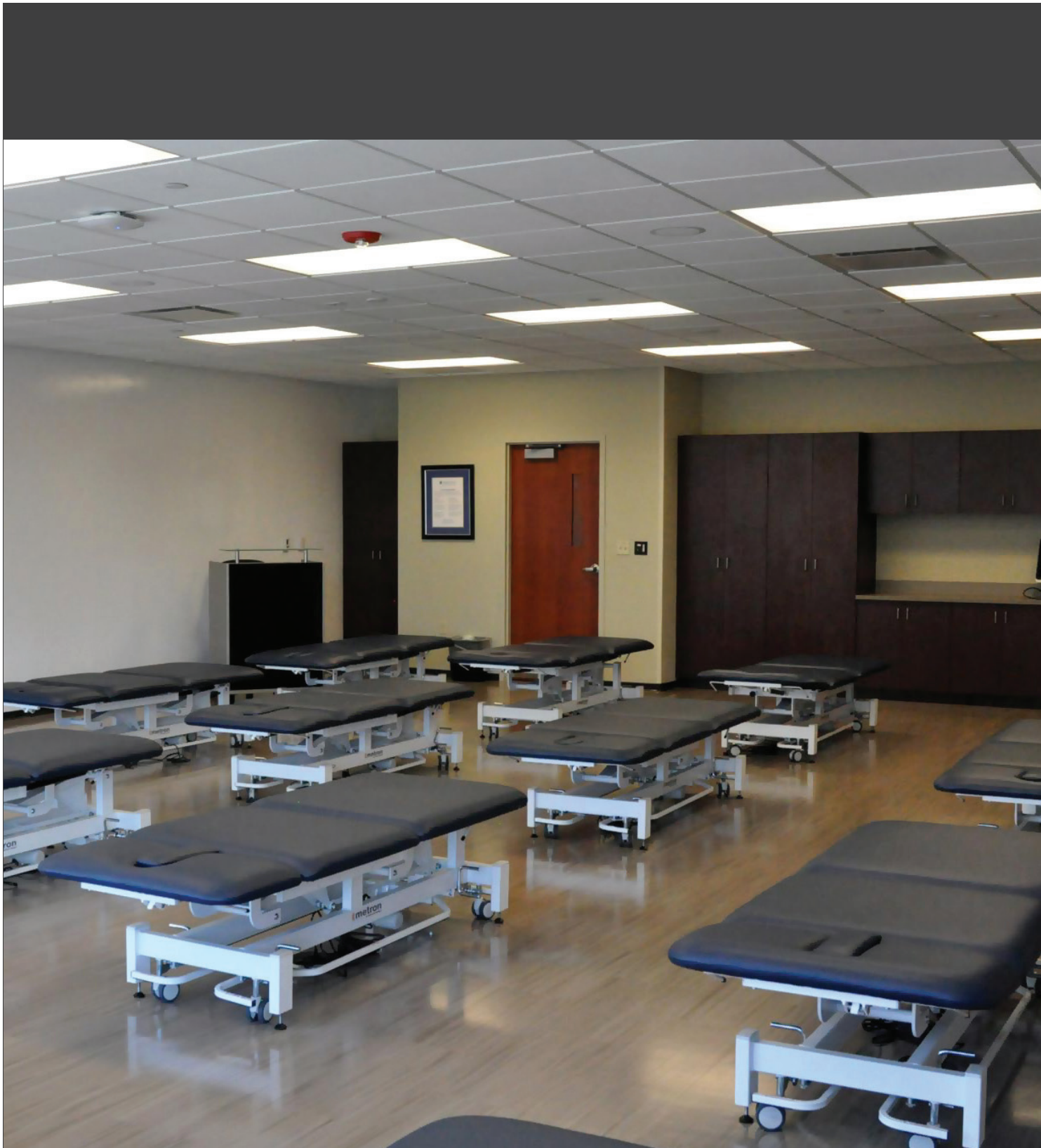
VISION

The program of Physical Therapy at Sinai University is looking to be one of the leading & unique programs among Egyptian, regional & international Physical Therapy programs, with an emphasis on Egyptian society values and traditions, offering outstanding educational & research services that satisfy a high degree of qualification & needs of the local, national & international markets and attract students from inside & outside Egypt.



MISSION

The mission of Faculty of Physical Therapy at Sinai University is to equip the students with excellent knowledge, skills, and attitudes required for a recognized evidence- based practice through a highly qualified educational program, in order to practice immediately and competently as physical therapists to meet the health care needs of the local, national and international markets and to participate in developing health policy and physical therapy practice as well as scientific researches.



The Faculty of Physical Therapy aims to achieve the following goals:

Enable the students to develop knowledge & understanding, professional, practical, intellectual and general skills necessary for competence in the practice of physical therapy and lifelong professional development.

Enable the students to understand the legal responsibilities and ethical considerations of professional practice.

Enable the students to demonstrate appropriate professional behavior with patients, their families, and other health care members and use effective communication skills. Expand the scope of physical therapy practice throughout the age span of human development from neonate to old age.

Enable the students to have necessary knowledge drawn from the biological, physical, and behavioral sciences.

Prepare the students to apply clinical skills of evaluation, problem-solving, and treatment used in patient management.

Enable the students to relate their theoretical and practical experiences to the needs of society.

Enable the students to develop critical thinking and promotes implementation of evidence-based practice, informed decision making, high quality and innovative service delivery.

Enable the students to understand the process of research design and research methodology.

Appreciate continuing education and learning to prepare the students for post graduate work and a competent professional physical therapy career.

Initiate and maintain effective interaction with relevant external agencies including other health care professionals.

Program Intended Learning Outcomes (ILOs) according to National Academic Reference Standards (NARS):

Knowledge and Understanding

- Graduates of the Faculty of Physical Therapy must have gained an understanding of the following definitions and concepts:
- Human anatomy and physiology (emphasizing the dynamic relationships of human structure and function).
- Human growth and development across life span.
- Basic principles and theories from physics, biomechanics, electrophysiology and applied exercise sciences that can be utilized in physical therapy.
- Principles of movement and function analysis based on anatomical, physiological and mechanical understanding considerations.
- The effects of pharmacological intervention and its impact on physical therapy procedures.
- Clinical sequel of pathology and their relationship to physical Therapy.
- Principles of physical therapy assessment and treatment (tools & techniques).
- Medical and surgical interventions for different body systems and tissues as related to physical therapy field.
- Psychological and social factors that influence an individual in health and illness and their impact on physical therapy practice.
- Different theories of motor learning and motor control.
- Principles of research and evidence based physical therapy practice.
- The legal responsibilities and ethical considerations of professional practice.

Practical and Professional Skills

- Graduates of the Faculty of Physical Therapy must have gained the following practical and professional skills:
- Performance of definitive physical therapy examinations.
- Construct the problem list, strengths, abilities and buffers.
- Formulation of physical therapy diagnosis.
- Design and manage a specific physical therapy Plan of care.
- Implement in a safe and effective manner a specific physical therapy plan of care.
- Conduction of initial and periodical patient's evaluation.
- Modify physical therapy program, terminate intervention and induce discharge plan as related to changes in physical status.

- Acknowledge cross-professional boundaries and limitations.
- Employ appropriate referral procedures.
- Cope with his/her own emotional reactions in different situation.

Intellectual Skills

- Graduates of the Faculty of Physical Therapy must have gained the following intellectual skills:
- Integrate basic anatomical, physiological and biomechanical knowledge with clinical data.
- Conduct a comprehensive examination and evaluation to reach a physical
- therapy diagnosis. Synthesize relevant obtained data to predict prognosis.
- Formulate plan of care to achieve realistic goals.
- Write concise, accurate and understandable patient's problems.
- Justify indications for, and proper use of orthotics and prosthetic devices.
- Extract data from literature, using information technology and library resources to solve patient's problems.
- Utilize scientific thinking in solving problems related to patients, work management, and among rehabilitation team.
- Value the framework of quality assurance mechanisms within physical therapy practice.

General & Transferable Skills

- Graduates of the Faculty of Physical Therapy must have gained the following general & transferable skills:
- Demonstrate competence in the use of computer-based information.
- Manage time, personal emotion stress, and prioritize workloads.
- Display the potential for leadership and team skills.
- Comply with infection control principles and sterilization procedures.
- Enhance personal rapport with patients and family members.
- Teach patients, families and significant others to perform or assist with selected physical therapy procedures.
- Respond appropriately to individual and cultural differences in all aspects of physical therapy services.
- Communicate verbally and non-verbally with patient health care delivery personnel and others in an effective, appropriate and capable manner.

Academic Rules and Regulations For the Bachelor degree

General:

Article (1):

SU grants the Bachelor degree of Physical Therapy.

Article (2):

SU applies the credit hour system which divides the academic year into two major semesters (Fall and Spring). Each semester is 16 weeks- in addition to the summer session (8 weeks).

Article (3):

A “CREDIT HOUR” is the legal study unit and is defined, based on the number of class hours per week throughout a semester: as follows:

- a) One credit hour is equivalent to one hour of lecture class time per week.
- b) One credit hour is equivalent to two hours of laboratory time per week.
- c) One credit hour is equivalent to three hours of clinical time per week.

Article (4):

English is the language of instruction at Sinai University (SU).

Article (5):

Prior the start of each academic year, SU Council defines and approves the Academic calendar for the Fall, Spring semesters and Summer session of that year.

Academic Advising:

Article (6):

- Every undergraduate student is assigned an academic advisor from the faculty staff members. Students must obtain their advisor’s approval of programs of study to register for each academic semesters and summer session.
- Students are required to meet with their advisor every semester as part of the regular registration process to ensure fulfillment of University and Faculty requirements.
- The Faculty Council is eligible to reconsider the appointment of the academic advisor, if his/her role is not successfully accomplished.

Registration:

Article (7):

- A student has to consult with the academic advisor in selecting his/her courses for each semester according to the academic calendar deadlines. Actual enrolment cannot begin until registration is complete.

Article (8):

- Registration is confirmed once the student registers for courses himself/herself. The student may not assign his/her registration to anyone else except in extraordinary circumstance and with the approval of the Dean of the Faculty.

Drop/Add/ Withdrawal:

Article (9):

Students are allowed to add and drop any course during the first two weeks of the semester and as stated in the academic calendar provided that his/her total registry hours do not exceed the maximum credit hours allowed.

Article (10):

Students are allowed to withdraw from a course or more and after the Drop/Add period is over starting the 3rd week of the semester and until the end of the 5th week for both Fall and Spring semesters as stated in the academic calendar. In this case the student will have a “W” in his/her transcript for each course(s) dropped, which refers to withdrawal from the course(s) and the dropped course(s) are not counted when considering graduation requirements and will never affect his/her CGPA in the academic record.

Article (11):

Students are allowed to register in courses if they have fulfilled the requirements in terms of total registered credit hours and course’s prerequisites.

Article (12):

Add and Drop are processed with the consent of the academic advisor.

Article (13):

Students are allowed to withdraw from a course or more until the end of the 2nd week for the summer session as stated in the academic calendar. In this case the student will have a “W” in his/her transcript for each course(s) dropped, which refers to withdrawal from the course(s) and the dropped course(s) are not counted when considering graduation requirements and will never affect his/her CGPA in the academic record.

Article (14):

Drop/Add/Withdrawal: should not affect the maximum and minimum academic load.

Academic Load:

Article (15):

Each student has a hard copy file in which the study plan is kept with all courses registered, completed and results achieved.

Article (16):

Undergraduate students can take an academic load ranging from a minimum of 12 (twelve) credit hours (for students with a CGPA less than 2.0) and a maximum of 18 (eighteen) hours for other students. The Maximum load may be increased by up to three credit hours for students with a CGPA not less than 3.0. In the summer session, students may take up to 7 (seven) credit hours. Permission to exceed this maximum to nine credit hours are given for students expected to graduate in the same summer session.

Article (17):

The minimum registration credits are 12 in Fall or Spring semester and 7(seven) hours in the summer session.

Article (18):

Students should earn the minimum credit hours required to be prompted to the higher studying level, as stated in the study plan (article 44).

Attendance:

Article (19):

A student must attend lectures, tutorials and labs of his/her registered courses to make full use of them.

Article (20):

The student has to attend not less than 75% of the lectures, tutorials and labs of each registrar course to be allowed to attend the final exam of this course.

Article (21):

A student is notified of his/her absence in each registered course periodically.

Article (22):

If the student's absence exceeds the limit (25%), s/he is denied from attending the final exam and receives an FA grade. The student has to repeat the course in case it is a compulsory course, or registers in another equivalent one (as stated in the study plan), if the course is an elective.

Article (23):

If the student's absence reaches 25% due to a severe medical condition or exceptional circumstance approved by the university council, the student withdraws from the course and withdrawal rules

applies. The student receives a W grade on his/her academic record.

Article (24):

Medical reports should be issued and stamped by governmental medical centers and should be presented within 2 weeks from absence and one week after in case of other exceptional circumstance.

Article (25):

If a student fails to attend the final exam for any emergency or exceptional circumstances beyond a student's control, the University Council may approve an incomplete (I) grade. Coursework grades are transferred to students who are given an (I) grade. Students must complete the final exam of the course requirements before the exams of the following semester.

Article (26):

Credit hours for courses in which the student receives a (W) or an (I) grade are neither counted as earned hours nor calculated in the CGPA.

Absence from a semester without permission:

Article (27):

If a student does not register in one main semester (Fall- Spring) or more without permission, he would be considered as "Absent" in this semester having made interruption in his study without excuse. Students are not allowed to be absent without permission and will be dismissed if their absence exceeds two consecutive semesters.

Article (28):

The student has the right to apply for Leave of absence as per SU rules and regulations.

The Academic Calendar:

Article (29):

Each course is assigned marks for course work and final exams stated in Articles (46- 47).

Article (30):

Regular quizzes are announced and held periodically as defined by the Faculty and University Councils. These quizzes are assigned total marks as course work as stated in the study plan and approved by the department and faculty councils.

Article (31):

Academic semesters are: Fall semester (September- October-November-December) and Spring semester (February-March-April-May) with a duration of 16 weeks each, an intensive summer session (July – August) with a duration of 8 weeks. each academic semester has an its own examinations and results which are announced separately.

Article (32):

Graduation classes are February, July and September of each year.

Article (33):

The provisions of SU rules and regulations are applied in case of absence of any relevant provision.

Assessment and grading scheme:

The assessment measures the outcome of students' learning in terms of knowledge acquired, understanding developed, and skills gained. Each course is assessed individually upon its completion. Methods of assessment include written, oral and practical examinations, research papers, course assignments and practical work. Marks are assigned for each course as stated in Article (46).

Grading Scheme:

Article (34): Grades are a measure of the performance of a student in an individual course and each grade is given a certain symbol and measured in points as shown below:

Grade	Definition	Percentage	Points
A+	Excellent	≥ 95%	4
A		90% - < 95%	3.8
A-		85% - < 90%	3.6
B+	Very Good	80% - < 85%	3.3
B		75% - < 80%	3
C+	Good	70% - < 75%	2.7
C		65% - < 70%	2.4
D	Satisfactory	60% - < 65%	2
F	Fail	< 60%	0

-The above grades are calculated in the semester and cumulative GPA.

- Below are other grades that may show on the student's academic record:

Grade	Description
I	Incomplete. (A temporary grade that indicates the requirement of a course has not been completed. The instructor assigns “I” when, due to extraordinary circumstances, the student was prevented from completing the requirements of a course.
W	Withdrawal prior to deadline indicates a student has officially withdrawn from a course).
Withdrawn	Withdrawal from a semester
AU	Audit
IP	The course is in- progress
Pass	Pass for non-credit courses, training, ... etc.
Fail	Fail for non-credit course, training,..etc.
Absent	Absence with no excuse
Leave of Absence	Absence with excuse
T	Transfer, indicates credits transferred from another institution.

The above registration symbols do not carry any grade points or credit(s) and the grades not included in the Grade Point Average GPA or Cumulative Grade Point Average CGPA.

Article (35):

Grade Point Average (GPA) and Cumulative Grade Point Average (CGPA):

Grade Point Average (GPA):

Semester GPA is calculated each semester as follows:

1. The grade point average is calculated by multiplying the grade value (points) by the number of credit hours the course represents, the result is called quality points.
2. The total quality points are then divided by the total undertaken credit hours.
3. GPA is calculated by dividing the quality points by the credit hours earned.

Cumulative Grade Point Average (CGPA):

The cumulative GPA (CGPA) is a calculation of average of all of student's grades for all semesters and courses completed up to a given academic semester where GPA may only refer to one semester. The cumulative GPA calculation starts from the first semester the student is enrolled. The student CGPA is updated each semester till his/her graduation.

Academic follow-up (Probation/ Warning):

Article (36):

The student is academically monitored and closely followed-up. In case a student's CGPA drops below 2.0 s/he is warned and placed on probation until s/he improves his/ her CGPA. In case the student fails to improve his/ her CGPA to become 2.0 or more and this poor performance persists for four consecutive semesters or six non-consecutive semesters, s/he is academically dismissed.

Honors

Article (37):

The student is awarded Honors if his/her final CGPA is greater than 3.5 provided that it has never been less than 3.5 in any semester during of study period. Moreover, s/he should not have failed in any registered course.

Internship Program

Article (38):

The student who has completed the degree requirements is not eligible to practice the profession unless s/he completes 48 training credit hours distributed over 12 months: (4 credit hours training per month) divided as (10 compulsory months training in Physical Therapy specializations and 2 months in elective specializations with the approval of the faculty dean. This internship program is supervised by various clinical departments in the faculty.

Article (39):

If the student fails to achieve a passing grade (Pass) in any specialization in the internship program, s/he receives a (Fail) grade and must repeat the internship for such specialization.

Article (40):

The Faculty Council appoints academic staff members from various clinical departments to supervise and evaluate students results in the internship program.

Article (41):

The 12 months' period of the internship program is distributed in different specializations as follows:

- 2 months (Orthopedic & Surgery)
- 2 months (Neurology & Surgery)
- 2 months (Pediatrics & Surgery)
- 1 month (Women health & Gynecology)
- 1 month (Intensive care units)
- 1 month (Internal medicine & cardiopulmonary)
- 1 month (General surgery & Burn)
- 2 months (Elective)

Admissions:

Article (42):

Admission criteria:

- High School Secondary Certificate – Science section or equivalent.
- Fulfilling the Admissions Fitness requirements.

Article (43):

The faculty of Physical Therapy at SU consists of the below scientific departments:

Department	Code	Specialization
Basic Sciences	BAS	Includes the following units: Medical Sciences - Humanities - Physical Therapy Sciences - Information Technology - Biomechanics
Physical Therapy for Internal Medicine	INM	Includes the following units: Cardiopulmonary Diseases & Surgery – Intensive Care - Geriatrics
Physical Therapy for Surgery & Women Health	SUR	Includes the following units: General Surgery – Burn & Dermatology – Gynecology & Obstetrics
Physical Therapy for Orthopedic and Orthopedic Surgery	ORT	-
Physical Therapy for Neurology and Neurosurgery	NUR	-
Physical Therapy for Pediatrics and Pediatric Surgery	PED	-

Study program

Article(44):

- The study plan is divided into 5 academic levels (years). Each level is divided into two academic semesters; in addition to one internship year in academic hospitals and various training medical centers under the supervision of the faculty staff members whom are appointed by the faculty council for internship and academic supervision.
- The study period for the Bachelor degree of Physical Therapy is 5 years.
- The student has to earn 187 credits divided as follows:
 - Level 1: 36 credit hours (29 introductory courses + 7 University requirements).
 - Level 2: 37 credit hours (32 compulsory courses + 5 University requirements).
 - Level 3: 39 credit hours (36 compulsory courses + 3 faculty electives).
 - Level 4: 38 credit hours (34 compulsory courses + 4 faculty electives).
 - Level 5: 37 credit hours (33 compulsory courses + 4 faculty electives).
- 187 credit hours are divided between the 5 study level as follows:
 - 15 credit hours University requirements: 11 compulsory credits + 4 elective credits.
 - 172 credit hours' faculty requirements: 161 compulsory credits + 11 elective credits divided as follows:
 - a- General requirements: 80 credit hours
 - b- Specialization requirements: 92 credit hours
- Courses are taught in the form of lectures, laboratory exercises, field studies, applications using specialized computer programs, case studies, seminars, workshops, projects, and cooperative learning methods.
- All courses are taught in English language. Some courses may be taught in Arabic at no more than 10% of the total courses upon at the request of the department / department council and approved by the Faculty and university Councils.
- After completion of the fifth level successfully, all students who have earned all required credit hours are required to perform a sixth year of training distributed over 12 months: (10 compulsory months training in Physical Therapy specializations and 2 months in elective specializations with the approval of the faculty dean, as stated in article 41). This internship program is supervised by various clinical departments in the faculty. Graduation certificate is only issued for students who have successfully completed this mandatory training year. It is mandatory that the student attends 85% of this training year to successfully complete the training internship.
- The academic program of the Physical Therapy focuses on the following areas:

1. Basic sciences in Physical Therapy (physical therapy modalities & biomechanics)
2. Physical Therapy of musculoskeletal disorders & its surgery
3. Physical Therapy of neuromuscular disorders & its surgery
4. Physical Therapy of cardiovascular disorders & geriatrics
5. Physical Therapy of women health disorders & general surgery
6. Physical Therapy of pediatrics disorders & its surgery

Adopted Academic Criteria:

Distribution of Courses Percentage According to NARS:

Courses	Percentage
Physics & Biological Sciences	22-20
Behavior Sciences	12-10
Humanities Sciences	55-53
Information Technology	4-3

Distribution of Courses Percentage (NARS) According to Academic Standards in SU and adopted in this curriculum:

Courses	Percentage
Physics & Biological Sciences	26
Behavior Sciences	9
Humanities Sciences	59.5
Information Technology	4

Course Coding Scheme:

Article (45):

Sinai University has its own coding scheme which consists of 7 characters (3 letters and 4 digits (numbers)). The code is divided into two main parts: The first part (the left part) consists of three unique characters (letters) identifying the academic department offering the course. The second part (the right part) consists of four digits (numbers) defined from left to right as follows:

Course Level: A single digit (1-5) identifying the level of the course.

Area of Knowledge: A single digit (0-9) defining the area of knowledge within the academic department.

Course Serial Number: A two digits' number (01-99) within the area of knowledge that specifies a certain course.

The figure below illustrates Sinai University coding scheme:

Character No.	1	2	3	4	5	6	7
Data Type	3 Letters			1 Digit (1-5)	1 Digit (0-9)	2 Digits	
Description	Department Code			Course Level	*Area of Knowledge	Course Serial number	

* 0 Indicates General Course

9 Service Course offered by another faculty

Study plan for the undergraduate program:

Article (46):

The distribution of the course work grades throughout the semester for different courses is suggested by the department council and the approval of the faculty council.

Article (47):

The below tables illustrate the study plan for the Bachelor program of Physical Therapy over the five 5 years' study period (10 academic semesters).



Study plan

First Level

Include 36 mandatory credit hours (Faculty & University)

1st Term (Fall Semester)

COURSE CODE		COURSE NAME	Lecture	Tuition /Lab	Total	Course Work	Final Lab	Final Write	Total	EXAM TIME	PRE-REQUISITE
BAS	1101	Anatomy (1)	2	1	3	50	20	30	100	2	
BAS	1102	Physiology (1)	2	1	3	50	20	30	100	2	
BAS	1103	Biochemistry (1)	1	-	1	50	-	50	100	2	
BAS	1104	Histology (1)	1	1	2	50	20	30	100	2	
BAS	1105	Biophysics (1)	1	1	2	50	20	30	100	2	
BAS	1106	Ethics & Laws in Physical Therapy Profession	2	-	2	50	-	50	100	2	
LNG	1001	English Language 1	1	2	3	50	20	30	100	2	
HST	1001	Sinai History	1	-	1	50	-	50	100	2	
		Total		17			800				

2nd Term (Spring Semester)

COURSE CODE		COURSE NAME	Lecture	Tuition /Lab	Total	Course Work	Final Lab	Final Write	Total	EXAM TIME	PRE-REQUISITE
BAS	1107	Anatomy (2)	2	1	3	50	20	30	100	2	BAS 1101
BAS	1108	Physiology (2)	2	1	3	50	20	30	100	2	BAS 1102
BAS	1109	Histology (2)	1	1	2	50	20	30	100	2	BAS 1104
BAS	1110	Biochemistry (2)	2	-	2	50	-	50	100	2	BAS 1103
BAS	1111	Biomechanics (1)	2	1	3	50	20	30	100	2	BAS 1101
BAS	1112	Psychology	1	-	1	50	-	50	100	2	
BAS	1113	Biophysics (2)	1	1	2	50	20	30	100	2	BAS 1105
INT	1001	Introduction to Informatics	2	1	3	50	20	30	100	2	
		Total		19			800				

Second Level

Include 37 credit hours -32 mandatory credit hours plus 5 University credit hours-

1st Term (Fall Semester)

COURSE CODE		COURSE NAME	Lecture	Tuition /Lab	Total	Course Work	Final Lab	Final Write	Total	EXAM TIME	PRE-REQUISITE
BAS	2114	Anatomy (3)	2	1	3	50	20	30	100	2	BAS 1101 & BAS 1107
BAS	2115	Neuro-Physiology	2	-	2	50	-	50	100	2	BAS 1102 & BAS 1108
BAS	2116	Biochemistry (3)	2	-	2	50	-	50	100	2	BAS 1110
BAS	2117	Biomechanics (2)	2	1	3	50	20	30	100	2	BAS 1111
BAS	2118	Test & Measurements	2	1	3	50	20	30	100	2	BAS 1101 & BAS 1107
BAS	2119	Hydrotherapy	1	1	2	50	20	30	100	2	BAS 1113
BAS	2120	Electrotherapy	3	1	4	50	20	30	100	2	BAS 1113 & BAS 1108
		Total		19			700				

2nd Term (Spring Semester)

COURSE CODE		COURSE NAME	Lecture	Tuition /Lab	Total	Course Work	Final Lab	Final Write	Total	EXAM TIME	PRE-REQUISITE
BAS	2121	Anatomy (4)	2	1	3	50	20	30	100	2	BAS 2114
BAS	2122	Ergonomics	2	-	2	50	-	50	100	2	BAS 2117
BAS	2123	Therapeutic Exercises	2	1	3	50	20	30	100	2	BAS 1107& 1108
BAS	2124	Manual Therapy	2	1	3	50	20	30	100	2	BAS 1109 & BAS 2114
BAS	2125	Exercise Physiology	2	-	2	50	-	50	100	2	BAS 1108 & BAS 1110
HUR	1001	Human Rights	1	-	1	50	-	50	100	2	
XXX	XXXX	Uni Free Elective (1)	X	X	2	XX	X	XX	100	2	XXX XXXX
XXX	XXXX	Uni Free Elective (2)	X	X	2	XX	X	XX	100	2	XXX XXXX
		Total		18			800				

University Free Electives

The student selects 5 credit hours of the courses offered by SU outside his/her area of specialization.

Third Level

Include 39 credit hours -36 mandatory credit hours plus 3 Faculty elective credit hours-

1st Term (Fall Semester)

COURSE CODE		COURSE NAME	Lecture	Tuition /Lab	Clinical	Total	Course Work	Final Lab	Final Write	Total	EXAM TIME	PRE-REQUISITE
BAS	3126	Pharmacology (1)	2	-	-	2	50	-	50	100	2	BAS 2116
BAS	3127	Pathology (1)	2	-	-	2	50	-	50	100	2	
INM	3228	Theories of Internal medicine & Geriatrics	1	-	-	1	50	-	50	100	2	BAS 1108 & BAS 2114
INM	3229	Theories of Cardiopulmonary Diseases & its Surgeries	2	-	-	2	50	-	50	100	2	BAS 1108 & BAS 2114
INM	3230	Diagnostic Radiology (1)	1	1	-	2	50	20	30	100	2	BAS 2114
INM	3231	Physical therapy for Internal medicine & Geriatrics	2	1	-	3	50	20	30	100	2	BAS 2118 & BAS 2120 & BAS 2123
INM	3232	Physical therapy for Cardiopulmonary Diseases & its Surgeries	2	1	1	4	50	20	30	100	2	BAS 2118, BAS 2120 & BAS 2123
PHI	1001	Scientific Thinking	1	-	-	1	50	-	50	100	2	
BAS	3133	Quality Assurance in Health Care	1	-	-	1	50	-	50	100	2	
xxx	xxxx	Faculty free elective	2	-	-	2	50	-	50	100	2	
		Total				20				1000		

2nd Term (Spring Semester)

COURSE CODE		COURSE NAME	Lecture	Tuition /Lab	Clinical	Total	Course Work	Final Lab	Final Write	Total	EXAM TIME	PRE-REQUISITE
BAS	3134	Pharmacology (2)	2	-	-	2	50	-	50	100	2	BAS 3126
BAS	3135	Pathology (2)	2	-	-	2	50	-	50	100	2	BAS 3127
SUR	3336	Theories of Women Health	2	-	-	2	50	-	50	100	2	BAS 2114
BAS	3137	First Aid	2	-		2	50	-	50	100	2	BAS 1108
INM	3238	Principles of Clinical Nutrition (1)	2	-		2	50	-	50	100	2	BAS 2116
SUR	3339	Physical Therapy for Women Health	2	2	1	5	50	20	30	100	2	BAS 2118 & BAS 2120 & BAS 2123
PHI	1002	Presentation & Communication Skills	1	1	-	2	50	20	30	100	2	INT 1001
BAS	3140	Hospital Administration	1	-	-	1	50	-	50	100	2	
xxx	xxxx	Faculty free elective	1	-	-	1	50	-	50	100	2	
		Total				19				900		

The Student choose 3 credit hours from the following faculty requirement elective courses

COURSE CODE		COURSE NAME	Lecture	Tuition /Lab	Total	Course Work	Final Lab	Final Write	Total	EXAM TIME	PRE-REQUISITE
INM	3201	Industrial Physical Therapy	2	-	2	50	-	50	100	2	
INM	3202	Evidence Based Practice in Cardiopulmonary Disorders	2	-	2	50	-	50	100	2	
INM	3203	Physical Therapy for Critical Cases	2	-	2	50	-	50	100	2	
BAS	3104	Scientific Criticism	1	-	1	50	-	50	100	2	
BAS	3105	Research Design & Methodology	1	-	1	50	-	50	100	2	
INM	3206	Introduction to patient compliance	1	-	1	50	-	50	100	2	

Forth Level

Include 38 credit hours -34 mandatory credit hours plus 4 Faculty
elective credit hours-
1st Term (Fall Semester)

COURSE CODE		COURSE NAME	Lecture	Tuition /Lab	Clinical	Total	Course Work	Final Lab	Final Write	Total	EXAM TIME	PRE-REQUISITE
ORT	4441	Theories of Orthopedic Diseases & Trauma	2	-	-	2	50	-	50	100	2	BAS 1107
ORT	4442	Theories of Orthopedic Surgery	2	-	-	2	50	-	50	100	2	BAS 1107
ORT	4443	Diagnostic Radiology 2 (Ortho)	1	1	-	2	50	20	30	100	2	BAS 1107 & INM 3230
ORT	4444	Physical Therapy for Orthopedic Diseases & Trauma	2	1	1	4	50	20	30	100	2	BAS 2118 & BAS 2120 & BAS 2123
ORT	4445	Physical Therapy for Orthopedic Surgery	2	1	-	3	50	20	30	100	2	BAS 2118 & BAS 2120 & BAS 2123
ORT	4446	Orthotics & Prosthesis	1	1	-	2	50	20	30	100	2	BAS 2117
BAS	4147	Infection Control	1	-	-	1	50	-	50	100	2	
BAS	4148	Introduction of Political Sciences	1	-	-	1	50	-	50	100	2	
xxx	xxxx	Faculty free elective	2	-	-	2	50	-	50	100	2	
		Total				19				900		

2nd Term (Spring Semester)

COURSE CODE	COURSE NAME	Lecture	Tuition /Lab	Clinical	Total	Course Work	Final Lab	Final Write	Total	EXAM TIME	PRE-REQUISITE
SUR 4349	Theories of General Surgery & Burn	2	-	-	2	50	-	50	100	2	BAS 1109 & BAS 2114
SUR 4350	Dermatology	1	-	-	1	50	-	50	100	2	BAS 1109 & BAS 3127
SUR 4351	Diagnostic Radiology 3 (neuro)	1	1	-	2	50	20	30	100	2	BAS 2121 & INM 3230
INM 4252	Medical Laboratory	2	-	-	2	50	-	50	100	2	BAS 2116
INM 4253	Principles of Clinical Nutrition (2)	2	-	-	2	50	-	50	100	2	INM 3238
SUR 4354	Physical Therapy for General Surgery: Burn & Dermatology	2	1	1	4	50	20	30	100	2	BAS 2118 & BAS 2120 & BAS 2123
BAS 4155	Clinical Decision Making	2	-	-	2	50	-	50	100	2	
BAS 4156	Business Management in Physical Therapy	2	-	-	2	50	-	50	100	2	
xxx xxxx	Faculty free elective	2	-	-	2	50	-	50	100	2	
	Total				19				900		

The Student chooses 4 credit hours from the following faculty requirement elective courses

COURSE CODE	COURSE NAME	Lecture	Tuition /Lab	Total	Course Work	Final Lab	Final Write	Total	EXAM TIME	PRE-REQUISITE
ORT 4407	Sport Injuries	1	1	2	50	20	30	100	2	
ORT 4408	Evidence based practice in musculoskeletal disorders	2	-	2	50	-	50	100	2	
ORT 4409	Physical Therapy DD in musculoskeletal disorders	2	-	2	50	-	50	100	2	
SUR 4310	Physical Therapy in Lymphatic disorders	1	1	2	50	20	30	100	2	
SUR 4311	Evidence based practice in Oncology	2	-	2	50	-	50	100	2	

Fifth Level

Include 37 credit hours -33 mandatory credit hours plus 4 Faculty elective credit hours-
1st Term (Fall Semester)

COURSE CODE		COURSE NAME	Lecture	Tuition /Lab	Clinical	Total	Course Work	Final Lab	Final Write	Total	EXAM TIME	PRE-REQUISITE
NUR	5557	Theories of Neurology	2	-	-	2	50	-	50	100	2	BAS 2115 & BAS 2121
NUR	5558	Theories of Neurosurgery	2	-	-	2	50	-	50	100	2	BAS 2121
NUR	5559	Physical Therapy for Neurology	2	1	1	4	50	20	30	100	2	BAS 2118 & BAS 2120 & BAS 2123
NUR	5560	Physical Therapy for Neurosurgery	2	1	-	3	50	20	30	100	2	BAS 2118 & BAS 2120 & BAS 2123
NUR	5561	Electro-diagnosis	1	1	-	2	50	20	30	100	2	BAS 2121, BAS 2115
NUR	5562	Occupational Therapy	2	-	-	2	50	-	50	100	2	BAS 2122
NUR	5563	Differential Diagnosis in Physical Therapy	2	-	-	2	50	-	50	100	2	BAS 2121, BAS 2115
xxx	xxxx	Faculty free elective	2	-	-	2	50	-	50	100	2	
		Total				19				800		

2nd Term (Spring Semester)

COURSE CODE		COURSE NAME	Lecture	Tuition /Lab	Clinical	Total	Course Work	Final Lab	Final Write	Total	EXAM TIME	PRE-REQUISITE
PED	5664	Theories of Pediatrics	2	-	-	2	50	-	50	100	2	BAS 2115 & BAS 2121
PED	5665	Theories of Pediatrics Surgery	1	-	-	1	50	-	50	100	2	BAS 2121
PED	5666	Psychiatry	2	-	-	2	50	-	50	100	2	BAS 1112
PED	5667	Community Medicine	1	-	-	1	50	-	50	100	2	
PED	5668	Growth & Development	2	-	-	2	50	-	50	100	2	BAS 2121
PED	5669	Speech Disorders & Therapy	1	-	-	1	50	-	50	100	2	BAS 2115 & BAS 2121
PED	5670	Physical Therapy for Pediatrics & Pediatrics Surgery	4	2	1	7	50	20	30	100	2	BAS 2118 & BAS 2120 & BAS 2123
xxx	xxxx	Faculty free elective	2	-	-	2	50	-	50	100	2	
		Total				18				800		

The Student chooses 4 credit hours from the following faculty requirement elective courses

COURSE CODE		COURSE NAME	Lecture	Tuition /Lab	Total	Course Work	Final Lab	Final Write	Total	EXAM TIME	PRE-REQUISITE
NUR	5512	Rehabilitation for Adults	2	-	2	50	-	50	100	2	
NUR	5513	Evidence Based Practice in neuromuscular disorders	2	-	2	50	-	50	100	2	
PED	5614	Care of Premature	2	-	2	50	-	50	100	2	
PED	5615	Education for children with special needs	2	-	2	50	-	50	100	2	
BAS	5116	Biostatistics	2	-	2	50	-	50	100	2	

University Requirements (Core Program) Study Plan

The core program study plan contains a total of 15 credit hours: 11 compulsory (mandatory) credits and 4 elective credits. All SU students must take the 11 mandatory credits. Each student can choose 4 elective credits from the courses offered by Sinai University outside his / her area of specialization.

University Mandatory Requirements Courses

The following table represents the mandatory University requirement courses:

COURSE CODE		COURSE NAME	Lecture	Tuition /Lab	Clinical	Total	Course Work	Final Lab	Final Write	Total	EXAM TIME	PRE-REQUISITE
LNG	1001	English Language (1)	1	2	-	3	50	20	30	100	2	
HST	1001	Sinai History	1	-	-	1	50	-	50	100	2	
INT	1001	Introduction to Informatics	2	1	-	3	50	20	30	100	2	
HUR	1001	Human Rights	1	-	-	1	50	-	50	100	2	
PHI	1001	Scientific Thinking	1	-	-	1	50	-	50	100	2	
PHI	1002	Presentation & Communication Skills	1	1	-	2	50	20	30	100	2	INT 1001

University Free Electives Courses

The student selects 4 credit hours of the courses offered by SU outside his/her area of specialization.

Faculty Requirements (Core Program) Study Plan

Faculty Mandatory Course (161 credit hours):

		COURSE NAME	Lecture	Tuition /Lab	Clinical	Total Credits	Course Work	Final Lab	Final Write	Total Marks	EXAM TIME
BAS	1101	Anatomy (1)	2	1	-	3	50	20	30	100	2
BAS	1102	Physiology (1)	2	1	-	3	50	20	30	100	2
BAS	1103	Biochemistry (1)	1	-	-	1	50	-	-	100	2
BAS	1104	Histology (1)	1	1	-	2	50	20	30	100	2
BAS	1105	Biophysics (1)	1	1	-	2	50	20	30	100	2
BAS	1106	Ethics & Laws in Physical Therapy Profession	2	-	-	2	50	-	50	100	2
BAS	1107	Anatomy (2)	2	1	-	3	50	20	30	100	2
BAS	1108	Physiology (2)	2	1	-	3	50	20	30	100	2
BAS	1109	Histology (2)	1	1	-	2	50	20	30	100	2
BAS	1110	Biochemistry (2)	2	-	-	2	50	-	50	100	2
BAS	1111	Biomechanics (1)	2	1	-	3	50	20	30	100	2
BAS	1112	Psychology	1	-	-	1	50	-	50	100	2
BAS	1113	Biophysics (2)	1	1	-	2	50	20	30	100	2
LNG	1001	English Language (1)	1	2	-	3	50	20	30	100	2
BAS	2114	Anatomy (3)	2	1	-	3	50	20	30	100	2
BAS	2115	Neuro-Physiology (1)	2	-	-	2	50	-	50	100	2
BAS	2116	Biochemistry (3)	2	-	-	2	50	-	50	100	2
BAS	2117	Biomechanics (2)	2	1	-	3	50	20	30	100	2
BAS	2118	Test & Measurements	2	1	-	3	50	20	30	100	2
BAS	2119	Hydrotherapy	1	1	-	2	50	20	30	100	2
BAS	2120	Electrotherapy	3	1	-	4	50	20	30	100	2
BAS	2121	Anatomy (4)	2	1	-	3	50	20	30	100	2
BAS	2122	Ergonomics	2	-	-	2	50	-	50	100	2
BAS	2123	Therapeutic Exercises	2	1	-	3	50	20	30	100	2
BAS	2124	Manual Therapy	2	1	-	3	50	20	30	100	2
BAS	2125	Exercise Physiology	2	-	-	2	50	-	50	100	2
BAS	3126	Pharmacology (1)	2	-	-	2	50	-	50	100	2
BAS	3127	Pathology (1)	2	-	-	2	50	-	50	100	2
INM	3228	Theories of Internal Medicine & Geriatrics	1	-	-	1	50	-	50	100	2
INM	3229	Theories of Cardiopulmonary Diseases & its Surgeries	2	-	-	2	50	-	50	100	2
INM	3230	Diagnostic Radiology (1)	1	1	-	2	50	20	30	100	2
INM	3231	Physical Therapy for Internal Medicine & Geriatrics	2	1	-	3	50	20	30	100	2
INM	3232	Physical Therapy for Cardiopulmonary Diseases & Surgeries	2	1	1	4	50	20	30	100	2

BAS	3133	Quality Assurance in Health Care	1	-	-	1	50	-	50	100	2
BAS	3134	Pharmacology (2)	2	-	-	2	50	-	50	100	2
BAS	3135	Pathology (2)	2	-	-	2	50	-	50	100	2
SUR	3336	Theories of Women Health	2	-	-	2	50	-	50	100	2
BAS	3137	First Aid	2	-	-	2	50	-	50	100	2
INM	3238	Principles of Clinical Nutrition (1)	2	-	-	2	50	-	50	100	2
SUR	3339	Physical Therapy for Women Health	2	2	1	5	50	20	30	100	2
BAS	3140	Hospital Administration	1	-	-	1	50	-	50	100	2
ORT	4441	Theories of Orthopedic Diseases & Trauma	2	-	-	2	50	-	50	100	2
ORT	4442	Theories of Orthopedic Surgery	2	-	-	2	50	-	50	100	2
ORT	4443	Diagnostic Radiology 2 (Ortho)	1	1		2	50	20	30	100	2
ORT	4444	Physical Therapy for Orthopedic Diseases & Trauma	2	1	1	4	50	20	30	100	2
ORT	4445	Physical Therapy for Orthopedic Surgery	2	1	-	3	50	20	30	100	2
ORT	4446	Orthotics & Prosthesis	1	1	-	2	50	20	30	100	2
BAS	4147	Infection Control	1	-	-	1	50	-	50	100	2
BAS	4148	Introduction of Political Sciences	1	-	-	1	50	-	50	100	2
SUR	4349	Theories of General Surgery & Burn	2	-	-	2	50	-	50	100	2
SUR	4350	Dermatology	1	-	-	1	50	-	50	100	2
SUR	4351	Diagnostic Radiology 3 (neuro)	1	1	-	2	50	20	30	100	1
INM	4252	Medical Laboratory	2	-	-	2	50	-	50	100	2
INM	4253	Principles of Clinical Nutrition (2)	2	-	-	2	50	-	50	100	2
SUR	4354	Physical Therapy for General Surgery; Burn & Dermatology	2	2	1	5	50	20	30	100	2
BAS	4155	Clinical Decision Making	2	-	-	2	50	-	50	100	2
BAS	4156	Business Management in Physical Therapy	2	-	-	2	50	-	50	100	2
NUR	5557	Theories of Neurology	2	-	-	2	50	-	50	100	2
NUR	5558	Theories of Neurosurgery	2	-	-	2	50	-	50	100	2
NUR	5559	Physical Therapy for Neurology	2	1	1	4	50	20	30	100	2
NUR	5560	Physical Therapy for Neurosurgery	2	1	1	4	50	20	30	100	2
NUR	5561	Electro-diagnosis	1	1	-	2	50	20	30	100	2
NUR	5562	Occupational Therapy	2	-	-	2	50	-	50	100	2
NUR	5563	Differential Diagnosis in Physical Therapy	1	-	-	1	50	-	50	100	2
PED	5664	Theories of Pediatrics	2	-	-	2	50	-	50	100	2
PED	5665	Theories of Pediatrics Surgery	1	-	-	1	50	-	50	100	2
PED	5666	Psychiatry	2	-	-	2	50	-	50	100	2
PED	5667	Community Medicine	1	-	-	1	50	-	50	100	2
PED	5668	Growth & Development	2	-	-	2	50	-	50	100	2
PED	5669	Speech Disorders & Therapy	1	-	-	1	50	-	50	100	2
PED	5670	Physical Therapy for Pediatrics & Pediatrics Surgery	4	2	1	7	50	20	30	100	2

Faculty Elective Courses (11 credit hours):

		COURSE NAME	Lecture	Tuition /Lab	Clinical	Total Credits	Course Work	Final Lab	Final Write	Total Marks	EXAM TIME
INM	3201	Industrial Physical Therapy	2	-	-	2	50	-	50	100	2
INM	3202	Evidence Based Practice in Cardiopulmonary Disorders	2	-	-	2	50	-	50	100	2
INM	3203	Physical Therapy for Critical Cases	2	-	-	2	50	-	50	100	2
BAS	3104	Scientific Criticism	1	-	-	1	50	-	50	100	2
BAS	3105	Research Design & Methodology	1	-	-	1	50	-	50	100	2
INM	3206	Introduction to Patient Compliance	1	-	-	1	50	-	50	100	2
ORT	4407	Sport Injuries	1	1	-	2	50	20	30	100	2
ORT	4408	Evidence Based Practice in Musculoskeletal Disorders	1	-	-	1	50	-	50	100	2
ORT	4409	Physical Therapy D.D. In Musculoskeletal Disorders	2	-	-	2	50	-	50	100	2
SUR	4310	Physical Therapy in Lymphatic Disorders	1	1	-	2	50	20	30	100	2
SUR	4311	Evidence Based Practice in Oncology	2	-	-	2	50	-	50	100	2
NUR	5512	Rehabilitation for Adults	1	-	-	1	50	-	50	100	2
NUR	5513	Evidence Based Practice in Neuromuscular Disorders	2	-	-	2	50	-	50	100	2
PED	5614	Care of Premature	2	-	-	2	50	-	50	100	2
PED	5615	Education for Children with Special Needs	2	-	-	2	50	-	50	100	2
BAS	5116	Biostatistics	2	-	-	2	50	-	50	100	2

Distribution of Courses Through Faculty Departments

Basic Sciences Department (BAS)

		COURSE NAME	Lecture	Tuition /Lab	Clinical	Total Credits	Course Work	Final Lab	Final Write	Total Marks	EXAM TIME
BAS	1101	Anatomy (1)	2	1	-	3	50	20	30	100	2
BAS	1102	Physiology (1)	2	1	-	3	50	20	30	100	2
BAS	1103	Biochemistry (1)	1	-	-	1	50	-	50	100	2
BAS	1104	Histology (1)	1	1	-	2	50	20	30	100	2
BAS	1105	Biophysics (1)	1	1	-	2	50	20	30	100	2
BAS	1106	Ethics & Laws in Physical Therapy Profession	2	-	-	2	50	-	50	100	2
BAS	1107	Anatomy (2)	2	1	-	3	50	20	30	100	2
BAS	1108	Physiology (2)	2	1	-	3	50	20	30	100	2
BAS	1109	Histology (2)	1	1	-	2	50	20	30	100	2
BAS	1110	Biochemistry (2)	2	-	-	2	50	-	50	100	2
BAS	1111	Biomechanics (1)	2	1	-	3	50	20	30	100	2
BAS	1112	Psychology	1	-	-	1	50	-	50	100	2
BAS	1113	Biophysics (2)	1	1	-	2	50	20	30	100	2
BAS	2114	Anatomy (3)	2	1	-	3	50	20	30	100	2
BAS	2115	Neuro-Physiology (1)	2	-	-	2	50	-	50	100	2
BAS	2116	Biochemistry 3))	2	-	-	2	50	-	50	100	2
BAS	2117	Biomechanics (2)	2	1	-	3	50	20	30	100	2
BAS	2118	Test & Measurements	2	1	-	3	50	20	30	100	2
BAS	2119	Hydrotherapy	1	1	-	2	50	20	30	100	2
BAS	2120	Electrotherapy	3	1	-	4	50	20	30	100	2
BAS	2121	Anatomy (4)	2	1	-	3	50	20	30	100	2
BAS	2122	Ergonomics	2	-	-	2	50	-	50	100	2
BAS	2123	Therapeutic Exercises	2	1	-	3	50	20	30	100	2
BAS	2124	Manual Therapy	2	1	-	3	50	20	30	100	2
BAS	2125	Exercise Physiology	2	-	-	2	50	-	50	100	2
BAS	3126	Pharmacology (1)	2	-	-	2	50	-	50	100	2
BAS	3127	Pathology (1)	2	-	-	2	50	-	50	100	2
BAS	3133	Quality Assurance in Health Care	1	-	-	1	50	-	50	100	2
BAS	3134	Pharmacology (2)	2	-	-	2	50	-	50	100	2
BAS	3135	Pathology (2)	2	-	-	2	50	-	50	100	2
BAS	3137	First Aid	2	-	-	2	50	-	50	100	2
BAS	3140	Hospital Administration	1	-	-	1	50	-	50	100	2
BAS	3104	Scientific Criticism	1	-	-	1	50	-	50	100	2
BAS	3105	Research Design & Methodology	1	-	-	1	50	-	50	100	2
BAS	4147	Infection Control	1	-	-	1	50	-	50	100	2
BAS	4148	Introduction of Political Sciences	1	-	-	1	50	-	50	100	2
BAS	4155	Clinical Decision Making	2	-	-	2	50	-	50	100	2
BAS	4156	Business Management in Physical Therapy	2	-	-	2	50	-	50	100	2
BAS	5116	Biostatistics	2	-	-	2	50	-	50	100	2

Physical Therapy for Internal Medicine Department (INT)

		COURSE NAME	Lecture	Tuition /Lab	Clinical	Total Credits	Course Work	Final Lab	Final Write	Total Marks	EXAM TIME
INM	3228	Theories of Internal Medicine & Geriatrics	1	-	-	1	50	-	50	100	2
INM	3229	Theories of Cardiopulmonary Diseases & its Surgeries	2	-	-	2	50	-	50	100	2
INM	3230	Diagnostic Radiology (1)	1	1	-	2	50	20	30	100	2
INM	3231	Physical Therapy for Internal Medicine & Geriatrics	2	1	-	3	50	20	30	100	2
INM	3232	Physical Therapy for Cardiopulmonary Diseases & its Surgeries	2	1	1	4	50	20	30	100	2
INM	3238	Principles of Clinical Nutrition (1)	2	-	-	2	50	-	50	100	2
INM	4252	Medical Laboratory	2	-	-	2	50	-	50	100	2
INM	4253	Principles of Clinical Nutrition (2)	2	-	-	2	50	-	50	100	2
INM	3201	Industrial Physical Therapy	2	-	-	2	50	-	50	100	2
INM	3202	Evidence Based Practice in Cardiopulmonary Disorders	2	-	-	2	50	-	50	100	2
INM	3203	Physical Therapy for Critical Cases	2	-	-	2	50	-	50	100	2
INM	3206	Introduction to Patient Compliance	1	-	-	1	50	-	50	100	2

Physical Therapy for Surgery & Women Health (SUR)

		COURSE NAME	Lecture	Tuition /Lab	Clinical	Total Credits	Course Work	Final Lab	Final Write	Total Marks	EXAM TIME
SUR	3336	Theories of Women Health	2	-	-	2	50	-	50	100	2
SUR	3339	Physical Therapy for Women Health	2	2	1	5	50	20	30	100	2
SUR	4349	Theories of General Surgery & Burn	2	-	-	2	50	-	50	100	2
SUR	4350	Dermatology	1	-	-	1	50	-	50	100	2
SUR	4354	Physical Therapy for General Surgery; Burn & Dermatology	2	2	1	5	50	20	30	100	2
SUR	4310	Physical Therapy in Lymphatic Disorders	1	1	-	2	50	20	30	100	2
SUR	4311	Evidence Based Practice in In Oncology	2	-	-	2	50	-	50	100	2

Physical Therapy for Orthopedic Surgery (ORT)

COURSE CODE		COURSE NAME	Lecture	Tuition /Lab	Clinical	Total Credits	Course Work	Final Lab	Final Write	Total Marks	EXAM TIME
ORT	4441	Theories of Orthopedic Diseases & Trauma	2	-	-	2	50	-	50	100	2
ORT	4442	Theories of Orthopedic Surgery	2	-	-	2	50	-	50	100	2
ORT	4443	Diagnostic Radiology 2 (Ortho)	1	1	-	2	50	20	30	100	2
ORT	4444	Physical Therapy for Orthopedic Diseases & Trauma	2	1	1	4	50	20	30	100	2
ORT	4445	Physical Therapy for Orthopedic Surgery	2	1	-	3	50	20	30	100	2
ORT	4446	Orthotics & Prosthesis	1	1	-	2	50	20	30	100	2
ORT	4407	Sport Injuries	1	1	-	2	50	20	30	100	2
ORT	4408	Evidence Based Practice in Musculoskeletal Disorders	1	-	-	1	50	-	50	100	2
ORT	4409	Physical Therapy D.D. In Musculoskeletal Disorders	2	-	-	2	50	-	50	100	2

Physical Therapy for Neurology & Neurosurgery (NUR)

		COURSE NAME	Lecture	Tuition /Lab	Clinical	Total Credits	Course Work	Final Lab	Final Write	Total Marks	EXAM TIME
NUR	5557	Theories of Neurology	2	-	-	2	50	-	50	100	2
NUR	5558	Theories of Neurosurgery	2	-	-	2	50	-	50	100	2
NUR	5559	Physical Therapy for Neurology	2	1	1	4	50	20	30	100	2
NUR	5560	Physical Therapy for Neurosurgery	2	1	1	4	50	20	30	100	2
NUR	5561	Electro-diagnosis	1	1	-	2	50	20	30	100	2
NUR	5562	Occupational Therapy	2	-	-	2	50	-	50	100	2
NUR	5563	Differential Diagnosis in Physical Therapy	1	-	-	1	50	-	50	100	2
NUR	5512	Rehabilitation for Adults	1	-	-	1	50	-	50	100	2
NUR	5513	Evidence Based Practice in Neuromuscular Disorders	2	-	-	2	50	-	50	100	2
SUR	4351	Diagnostic Radiology 3 (neuro)	1	1	-	2	50	20	30	100	1

Physical Therapy for Pediatrics & Its Surgery (PED)

		COURSE NAME	Lecture	Tuition /Lab	Clinical	Total Credits	Course Work	Final Lab	Final Write	Total Marks	EXAM TIME
PED	5664	Theories of Pediatrics	2	-	-	2	50	-	50	100	2
PED	5665	Theories of Pediatrics Surgery	1	-	-	1	50	-	50	100	2
PED	5666	Psychiatry	2	-	-	2	50	-	50	100	2
PED	5667	Community Medicine	1	-	-	1	50	-	50	100	2
PED	5668	Growth & Development	2	-	-	2	50	-	50	100	2
PED	5669	Speech Disorders & Therapy	1	-	-	1	50	-	50	100	2
PED	5670	Physical Therapy for Pediatrics & Pediatrics Surgery	4	2	1	7	50	20	30	100	2
PED	5614	Care of Premature	2	-	-	2	50	-	50	100	2
PED	5615	Education for Children with Special Needs	2	-	-	2	50	-	50	100	2



COURSE DESCRIPTIONS

First Level

Fall Semester	
Course Code	BAS 1101
Course Name	Anatomy (1)
Pre-Requisite	None
Total Credit Hours	3
Description	It provides the fundamental knowledge related to normal human structures & functional anatomy of upper extremity (bones, joints, muscles, nerves, vessels & soft tissues). It also emphasizes on important regions: axilla, carpal tunnel...

Course Code	BAS 1102
Course Name	Physiology (1)
Pre-Requisite	None
Total Credit Hours	3
Description	It provides the fundamental knowledge related to normal human physiology of metabolism, gastrointestinal tract, skin, muscles & nerves, and function of blood.

Course Code	BAS 1103
Course Name	Biochemistry (1)
Pre-Requisite	None
Total Credit Hours	1
Description	It provides the fundamental knowledge related to biochemistry of cells and blood.

Course Code	BAS 1104
Course Name	Histology (1)
Pre-Requisite	None
Total Credit Hours	2
Description	It provides the fundamental knowledge related to normal human tissues and cells of bone, muscle & nerve.

Course Code	BAS 1105
Course Name	Biophysics (1)
Pre-Requisite	None
Total Credit Hours	2
Description	It provides the fundamental about the biophysics laws of electricity, electromagnetism, fluids & heat.

Course Code	BAS 1106
Course Name	Ethics & Laws in Physical Therapy Profession (1)
Pre-Requisite	None
Total Credit Hours	2
Description	It provides the general laws (Egyptian & international) of the medical professional regarding the patients & staff members. It provides the student with the ethics & behavior in dealing with the patients, families & care givers.

Course Code	LNG 1001
Course Name	English Language (1)
Pre-Requisite	None
Total Credit Hours	3
Description	<p>The course content is divided into several units that extend students' knowledge of English vocabulary and grammar. Each unit has two main lessons through which students practice English skills; reading, writing, listening, speaking in an integrated way. The lessons' topics</p> <p>depend on realistic situations that make the course an authentic one and therefore students can make a prominent breakthrough. In addition, the course content is built to develop students' intellectual and professional skills preparing them for international tests.</p>

Course Code	HIS 1001
Course Name	Sinai History
Pre-Requisite	None
Total Credit Hours	1
Description	Sinai and other cultures. Sinai & Religions-Sinai's location as the land of divine religions. Sinai & neighborhoods. Sinai & its strategic importance. Sinai resources. Sinai & its expected contribution to push forward development and peace in the region.

Spring Semester

Course Code	BAS 1107
Course Name	Anatomy (2)
Pre-Requisite	BAS 1101
Total Credit Hours	3
Description	It provides the fundamental knowledge related to normal human structures & functional anatomy of lower extremity (bones, joints, muscles, nerves, vessels & soft tissues) and abdominal wall.

Course Code	BAS 1108
Course Name	Physiology (2)
Pre-Requisite	BAS 1102
Total Credit Hours	3
Description	It provides the fundamental knowledge related to normal human physiology of respiratory, cardiovascular, lymphatic, female reproductive system, endocrine and structure & function of Kidney.

Course Code	BAS 1109
Course Name	Histology (2)
Pre-Requisite	BAS 1104
Total Credit Hours	2
Description	It provides the fundamental knowledge related to normal human tissues and cells of different body organs and systems.

Course Code	BAS 1110
Course Name	Biochemistry (2)
Pre-Requisite	BAS 1103
Total Credit Hours	2
Description	It provides the fundamental knowledge related to carbohydrates, Fats and proteins.

Course Code	BAS 1111
Course Name	Biomechanics (1)
Pre-Requisite	BAS 1101
Total Credit Hours	3
Description	It provides the fundamental knowledge related the biomechanics of human movement and posture of joints, levers, muscles, forces and resistances.

Course Code	BAS 1112
Course Name	Psychology
Pre-Requisite	None
Total Credit Hours	1
Description	It provides the fundamental knowledge about the theories of normal psychological behavior and psychological disturbances.

Course Code	BAS 1113
Course Name	Biophysics (2)
Pre-Requisite	BAS 1005
Total Credit Hours	2
Description	It provides the fundamental about the laws of physics and its application to electrotherapy & hydrotherapy.

Course Code	INT 1001
Course Name	Introduction to Informatics
Pre-Requisite	None
Total Credit Hours	3
Description	Introduction to computer and information systems. Types of computers. Computer hardware and software components. Data representations, Introduction to networking. Introduction to the Internet and World Wide Web. Hardware and software components for internet access. Email, database management, word processing, spreadsheets, and presentation applications.

Second Level

Fall Semester	
Course Code	BAS 2114
Course Name	Anatomy (3)
Pre-Requisite	BAS 1001 & BAS 1007
Total Credit Hours	3
Description	It provides the fundamental knowledge related to the anatomy of the muscles of thoracic wall, spine, the respiratory. cardiovascular systems and internal organs.

Course Code	BAS 2115
Course Name	Neuro-Physiology
Pre-Requisite	BAS 1002 & BAS 1008
Total Credit Hours	3
Description	It provides the fundamental knowledge related to biochemical physiology, neuroanatomy, pharmacology, electrophysiology and neurophysiology with emphasis on the function of central & peripheral nervous system in normal & pathological conditions.

Course Code	BAS 2116
Course Name	Biochemistry (3)
Pre-Requisite	BAS 1010
Total Credit Hours	2
Description	It provides the fundamental knowledge related to molecular biology, nutrition, metabolic reaction, bioelectric energy and clinical assessment techniques.

COURSE CODE	BAS 2117
COURSE NAME	Biomechanics (2)
PRE-REQUISITE	BAS 1111
Total Credit Hours	2
DESCRIPTION	It provides the fundamental knowledge kinematic and kinetic concepts in the applied mechanics in addition to gait analysis in normal subjects.

Course Code	BAS 2118
Course Name	Tests & Measurements
Pre-Requisite	BAS 1001 & BAS 1007
Total Credit Hours	2
Description	It provides the fundamental knowledge and skills necessary to assess and evaluate the physical problems of patients.

Course Code	BAS 2119
Course Name	Hydrotherapy
Pre-Requisite	BAS 1113
Total Credit Hours	2
Description	It provides the fundamental knowledge about the properties of water (Hot/Cold/Warm) and its uses in treatment. It also provides with the knowledge of underwater exercises.

Course Code	BAS 2120
Course Name	Electrotherapy
Pre-Requisite	BAS 1113 & BAS 1108
Total Credit Hours	4
Description	It provides the fundamental knowledge of electrotherapeutic modalities, including alternating, direct, and pulsed current, neuromuscular electrical stimulation (NMES); transcutaneous electrical nerve stimulation (TENS); iontophoresis, electrical muscle stimulation; and biofeedback, to reduce pain and increase muscle power.

Course Code	HUR 1001
Course Name	Human Rights
Pre-Requisite	None
Total Credit Hours	1
Description	<p>Definition of Human Rights and its classification. Explanation of Human Rights historical context and the fundamental sources of Human Rights. Classification of the various categories of Human Rights.</p> <p>Demonstration of Human Rights in the light of the information and media revolution. Means of Human Rights protection.</p>

Spring Semester	
Course Code	BAS 2121
Course Name	Anatomy (4)
Pre-Requisite	BAS 2114
Total Credit Hours	3
Description	It provides the fundamental knowledge related to nervous system structures and functions including the brain, the cerebrum, the cerebellum, the spinal cord and the peripheral nervous system.

Course Code	BAS 2122
Course Name	Ergonomic
Pre-Requisite	BAS 2117
Total Credit Hours	2
Description	It provides the fundamental knowledge of the influence of works on the body mechanics & vice versa.

Course Code	BAS 2123
Course Name	Therapeutic Exercises
Pre-Requisite	BAS 1107, BAS 1108
Total Credit Hours	3
Description	It provides the fundamental knowledge to know and to analyze the underlying principles of the following types of therapeutic exercise: stretching, strengthening, endurance, balance co-ordination and PNF techniques.

Course Code	BAS 2124
Course Name	Manual Therapy
Pre-Requisite	BAS 1109 & BAS 2114
Total Credit Hours	3
Description	It provides the fundamental knowledge about the common manual techniques used to decrease pain, increases joint range of motion and relaxation. Students will also learn how to apply rhythmic massages to trigger point treatments as well as for supporting the patients breathing system.

Course Code	BAS 2125
Course Name	Exercises physiology
Pre-Requisite	BAS 1108 & BAS 1110
Total Credit Hours	2
Description	It provides the fundamental physiological knowledge for understanding the response of the pulmonary, cardiovascular, musculoskeletal, neuromuscular, and metabolic responses to exercise and their implications in physical therapy intervention. Energy delivery, utilization, and regulation of the major physiological systems during rest and exercise are discussed. Normal and abnormal responses to exercise, and the effects of exercise training on body composition, deconditioning, and health status are explored

Third Level

Fall Semester	
Course Code	BAS 3126
Course Name	Pharmacology (1)
Pre-Requisite	BAS 2116
Total Credit Hours	2
Description	It provides the fundamental knowledge of general pharmacology and the drugs used in the treatment of metabolic, cardiopulmonary & vascular disorders.

Course Code	BAS 3127
Course Name	Pathology (1)
Pre-Requisite	None
Total Credit Hours	2
Description	It provides the fundamental knowledge about the etiology, pathogenesis, structural changes and clinical manifestation of musculoskeletal, neuromuscular diseases.

Course Code	INM 3228
Course Name	Theories of Internal medicine & Geriatrics
Pre-Requisite	BAS 1108 & BAS 2114
Total Credit Hours	1
Description	It provides the fundamental knowledge of general internal medicine, metabolic, vascular disorders and theories of aging with emphasis on the common changes & disorders related to elderly.

Course Code	INM 3229
Course Name	Theories of Cardiopulmonary Diseases & its Surgeries
Pre-Requisite	BAS 1108 & BAS 2114
Total Credit Hours	2
Description	It provides the fundamental knowledge about the underlying pathological mechanism of cardiopulmonary diseases and medical intervention including cardiothoracic surgeries & intensive care.

Course Code	INM 3230
Course Name	Diagnostic Radiology (1)
Pre-Requisite	BAS 2114
Total Credit Hours	2
Description	It provides the fundamental knowledge about X-ray diagnosis of different heart, lung & vascular disorders. In addition to other imaging methods.

Course Code	INM 3231
Course Name	Physical therapy for Internal medicine & Geriatrics
Pre-Requisite	BAS 2118 & BAS 2120 & BAS 2123
Total Credit Hours	3
Description	It provides the fundamental knowledge about the examination, physical therapy treatment and reexamination of a patient with internal medicine, metabolic, vascular and geriatrics disorders.

Course Code	INM 3232
Course Name	Physical Therapy for Cardiopulmonary Diseases & its Surgeries
Pre-Requisite	BAS 2118 & BAS 2120 & BAS 2123
Total Credit Hours	4
Description	It provides the fundamental knowledge about the examination, physical therapy treatment and reexamination of a patient with pulmonary, cardiac diseases and cardiothoracic surgeries.

Course Code	PHI 1001
Course Name	Scientific Thinking
Pre-Requisite	
Total Credit Hours	1
Description	Science and Scientific thinking. Scientific thinking patterns. Elements and standards of Scientific thinking. Scientific thinking and critical thinking. Scientific thinking research. Multiple intelligences theory and Scientific thinking.

Course Code	BAS 3133
Course Name	Quality Assurance in Health Care
Pre-Requisite	None
Total Credit Hours	1
Description	It provides the student with knowledge about the activities & procedures used to assure or improve the quality of care in a medical setting.

Spring Semester	
Course Code	BAS 3134
Course Name	Pharmacology (2)
Pre-Requisite	BAS 3126
Total Credit Hours	2
Description	It provides the fundamental knowledge of general pharmacology and the drugs used in the treatment of musculoskeletal, neurological, diseases related to physical therapy.

Course Code	BAS 3135
Course Name	Pathology (2)
Pre-Requisite	BAS 3127
Total Credit Hours	2
Description	It provides the fundamental knowledge about the etiology, pathogenesis, structural changes and clinical manifestation of cardiovascular, endocrine and immune disorders.

Course Code	SUR 3336
Course Name	Theories of Women Health
Pre-Requisite	BAS 2114
Total Credit Hours	2
Description	It provides the fundamental knowledge about the disorders of genitourinary system in females and its impact on physical function, pregnancy and delivery.

Course Code	BAS 3137
Course Name	First Aid
Pre-Requisite	BAS 1108
Total Credit Hours	2
Description	It provides the fundamental knowledge about the initial care for different illness and injuries until definitive medical treatment can be accessed.

Course Code	INM 3238
Course Name	Principles of Clinical Nutrition (1)
Pre-Requisite	BAS 2116
Total Credit Hours	2
Description	It provides the fundamental knowledge about the necessary elements to support life. The impact of poor diet on health such as deficiency diseases.

Course Code	SUR 3339
Course Name	Physical Therapy for Women Health
Pre-Requisite	BAS 2118 & BAS 2120 & BAS 2123
Total Credit Hours	5
Description	It provides the fundamental knowledge about physical therapy measures during pregnancy and delivery as well as in gynecological & obstetric disorders.

Course Code	PHI 1002
Course Name	Presentation & Communication Skills
Pre-Requisite	INT 1001
Total Credit Hours	2
Description	The communication process. Purpose and levels of communication. Communication models. Communication barriers and how to overcome them. Principles of effective communication. Setting objectives of oral presentations. Analyzing the audience and selecting the methods of presentation. Structuring and outlining the material. Utilizing word-power vocal attributes and body language for effective delivery. Dealing with questions efficiently. Individual and group presentations.

Course Code	BAS 3140
Course Name	Hospital Administration
Pre-Requisite	None
Total Credit Hours	1
Description	It provides the general knowledge about leadership, management and administration of public health systems, health care systems, hospitals and management of human & material resources and services.

Forth Level

Fall Semester	
Course Code	ORT 4441
Course Name	Theories of Orthopedic Diseases & Trauma
Pre-Requisite	BAS 1107
Total Credit Hours	2
Description	It provides the fundamental knowledge different types of fractures, musculoskeletal disorders, (sports injuries, degenerative diseases, infection, tumors, & congenital disorders).

Course Code	ORT 4442
Course Name	Theories of Orthopedic Surgery
Pre-Requisite	BAS 1107
Total Credit Hours	2
Description	It provides the general knowledge about different types of orthopedic surgeries related to physical therapy.

Course Code	ORT 4443
Course Name	Diagnostic Radiology 2 (Ortho)
Pre-Requisite	BAS 1107 & INM 3230
Total Credit Hours	2
Description	It provides the fundamental knowledge to read & understand radiological investigations of traumatology and orthopedics disorders. In addition to other imaging methods.

Course Code	ORT 4444
Course Name	Physical Therapy for Orthopedic Diseases & Trauma
Pre-Requisite	BAS 2118 & BAS 2120 & BAS 2123
Total Credit Hours	4
Description	It provides the fundamental knowledge of physical therapy management of patients with different types of fractures, musculoskeletal disorders, (sports injuries, degenerative diseases, infection, tumors, & congenital disorders).

Course Code	ORT 4445
Course Name	Physical Therapy for Orthopedic Surgery
Pre-Requisite	BAS 2118 & BAS 2120 & BAS 2123
Total Credit Hours	3
Description	It provides the fundamental knowledge of physical therapy management of patients with different types of orthopedic surgeries related to physical therapy.

Course Code	ORT 4446
Course Name	Orthotics & Prosthesis
Pre-Requisite	BAS 2117
Total Credit Hours	2
Description	It provides the fundamental knowledge of adults and pediatrics orthotics & prosthesis that used for different sports injury and deformities as well as prostheses for different levels of amputations, in order to correct structural and functional problems of neuromuscular and skeletal systems related physical therapy.

Course Code	BAS 4147
Course Name	Infection Control
Pre-Requisite	None
Total Credit Hours	1
Description	It provides the fundamental knowledge to equip and update the physical therapist & other healthcare professionals on infection control principles and practices to enable them to function effectively as healthcare professionals in their respective clinical areas, as they an important role to play to ensure that their own safety and those of the patients under their care are not compromised.

Course Code	BAS 4148
Course Name	Introduction of Political Sciences
Pre-Requisite	None
Total Credit Hours	1
Description	It provides the fundamental knowledge about the systematic study of structures and processes pertaining to governing, policy making, and political life. It concerns ideas about governing and political participation, about rights and duties of governors and governed. Political science includes the study of modern state, its historical evolution, variations in its present configurations, and relations between and among nations, including institutions that organize these relations.

Spring Semester	
Course Code	SUR 4349
Course Name	Theories of General Surgery & Burn
Pre-Requisite	BAS 1109 & BAS 2114
Total Credit Hours	2
Description	It provides the fundamental knowledge of general surgery and types of burn and wound treatment related to physical therapy.

Course Code	SUR 4350
Course Name	Dermatology
Pre-Requisite	BAS 1109 & BAS 3127
Total Credit Hours	1
Description	It provides the fundamental knowledge about skin anatomy and histology, of skin epidermis, dermis, dermal-epidermal junction and subcutaneous tissue, skin appendages of hair, sebaceous gland, sweat glands, and skin microvasculature and sensitive nerve endings, and to the relationships between structures, functions and diseases related to physical therapy.

Course Code	SUR 4351
Course Name	Diagnostic Radiology 3 (neuro)
Pre-Requisite	BAS 2121 & INM 3230
Total Credit Hours	1
Description	It provides the fundamental knowledge to read & understand radiological investigations of neurological disorders. In addition to other imaging methods.

Course Code	INM 4252
Course Name	Medical Laboratory
Pre-Requisite	BAS 2116
Total Credit Hours	2
Description	It provides the fundamental knowledge about basic principles, techniques, and vocabulary applicable to medical laboratory technology. Topics include lab safety, specimen collection and transport, phlebotomy, urinalysis, immunology/serology, and computer technology as well as an overview of the four major laboratory disciplines of hematology/coagulation, immunohematology, chemistry, and microbiology.

Course Code	INM 4253
Course Name	Principles of Clinical Nutrition (2)
Pre-Requisite	INM 3238
Total Credit Hours	2
Description	It provides the fundamental knowledge about the role of nutrition in chronic diseases, health threatening conditions like obesity, pulmonary, cardiovascular, diabetes and osteoporosis diseases as well as in elderly.

Course Code	SUR 4354
Course Name	Physical Therapy for General Surgery: Burn & Dermatology
Pre-Requisite	BAS 2118 & BAS 2120 & BAS 2123
Total Credit Hours	5
Description	It provides the fundamental knowledge about physical therapy measures and modalities to evaluate and treat patient before and after surgery, after burn and wounds.

Course Code	SUR 4355
Course Name	Clinical Decision Making
Pre-Requisite	None
Total Credit Hours	2
Description	It provides the fundamental knowledge to enhance the professional health practitioner's clinical decision- making skills to support safe practice across various health settings and with different client populations with diverse health issues. Using a case-based approach and a clinical decision-making framework, participants are supported to explore the current knowledge required to implement best practices with respect to the assessment and care of clients with various actual or potential health challenges.

Course Code	BAS 4156
Course Name	Business Management in Physical Therapy
Pre-Requisite	None
Total Credit Hours	2
Description	It provides the fundamental knowledge about the strategies to grow practice & avoid costly mistakes. It provides the students with a better understanding of basic management principles essential to obtaining a competitive advantage in the physical therapy marketplace. This requires a clear strategic planning process, market analysis, quality improvement plan, and a solidified business plan.

Fifth Level

Fall semester	
Course Code	NUR 5557
Course Name	Theories of Neurology
Pre-Requisite	BAS 2121 & BAS 2115
Total Credit Hours	2
Description	It provides the fundamental knowledge of adult neurological diseases.

Course Code	NUR 5558
Course Name	Theories of Neurosurgery
Pre-Requisite	BAS 2121
Total Credit Hours	2
Description	It provides the fundamental knowledge of adult neurosurgery.

Course Code	NUR 5559
Course Name	Physical Therapy for Neurology
Pre-Requisite	BAS 2118 & BAS 2120 & BAS 2123
Total Credit Hours	4
Description	It provides the fundamental knowledge about physical therapeutic management of people with functional movement limitations and quality of life issues following a neurological disease.

Course Code	NUR 5560
Course Name	Physical Therapy for Neurosurgery
Pre-Requisite	BAS 2118 & BAS 2120 & BAS 2123
Total Credit Hours	3
Description	It provides the fundamental knowledge about physical therapeutic management of people with functional movement limitations and quality of life issues before and after neurosurgery.

Course Code	NUR 5561
Course Name	Electro-Diagnosis
Pre-Requisite	BAS 2121 & BAS 2115
Total Credit Hours	2
Description	It provides the fundamental knowledge about theory, principle, indication and practice of nerve conduction studies, needle electromyography (EMG) and evoked potentials. Additionally, report writing, and interpretation will be discussed.

Course Code	NUR 5562
Course Name	Occupational Therapy
Pre-Requisite	BAS 2122
Total Credit Hours	2
Description	It provides the fundamental knowledge about the concepts, principles and application of occupational therapy procedures for various neurological, pediatric and geriatrics.

Course Code	NUR 5563
Course Name	Differential Diagnosis in Physical Therapy
Pre-Requisite	BAS 2121 & BAS 2115
Total Credit Hours	2
Description	It provides the fundamental knowledge with the ability to screen the multiple body organ systems for diseases and syndromes that are not of musculoskeletal origin and determine the best course of action with a patient utilizing the best available assessment tools and measures and evidence-based practice to determine diagnosis, need for referral, or method of treatment.

Spring Semester	
Course Code	PED 5664
Course Name	Theories of Pediatrics
Pre-Requisite	BAS 2015 & BAS 2121
Total Credit Hours	2
Description	It provides the fundamental knowledge about neuropsychiatric, orthopedic pediatric and genetic disorders.

Course Code	PED 5665
Course Name	Theories of Pediatrics surgery
Pre-Requisite	BAS 2121
Total Credit Hours	1
Description	It provides the fundamental knowledge about pediatric surgeries.

Course Code	PED 5666
Course Name	Psychiatry
Pre-Requisite	BAS 1112
Total Credit Hours	2
Description	It provides the fundamental knowledge about psychiatric disorders & diseases.

Course Code	PED 5667
Course Name	Community Medicine
Pre-Requisite	None
Total Credit Hours	1
Description	It provides the fundamental knowledge of public and industrial health and its relation to human movement and activities. It also provides general ideas about the etiology, ways of prevention and treatment of common community diseases.

Course Code	PED 5668
Course Name	Growth & Development
Pre-Requisite	BAS 2121
Total Credit Hours	2
Description	It provides the fundamental knowledge of sequences and theories of motor development from neonate to adult and the motor learning of movement and skills.

Course Code	PED 5669
Course Name	Speech Disorders & Therapy
Pre-Requisite	BAS 2115 & BAS 2121
Total Credit Hours	1
Description	It provides the fundamental knowledge of speech disorders and speech therapy from infancy to childhood period.

Course Code	PED 5670
Course Name	Physical Therapy for Pediatrics & Pediatrics Surgery
Pre-Requisite	BAS 2118 & BAS 2120 & BAS 2123
Total Credit Hours	7
Description	It provides the fundamental knowledge of physical therapy measures and modalities to evaluate and treat neuropsychiatric diseases and before and after pediatric surgeries

Elective Courses Description (of Faculty Requirements) Third Level

Course Code	INM 3201
Course Name	Industrial Physical Therapy
Pre-Requisite	None
Total Credit Hours	2
Description	It provides the fundamental knowledge about the different diseases and problems affecting all body systems as a result of industrial hazard and different physical therapy procedures used to treat these problems

Course Code	INM 3202
Course Name	Evidence Based Practice in Cardiopulmonary Disorders
Pre-Requisite	None
Total Credit Hours	2
Description	It provides the fundamental knowledge to introduce general research and evidence-based principles by exploring research methodologies used in cardiopulmonary disorders research. Examines the formulation of clinical questions, searches appropriate literature sources, and critically appraises the evidence. Addresses literature searches and evidence-based analysis of research with emphasis on clinical decision-making.

Course Code	INM 3203
Course Name	Physical Therapy for Critical Cases
Pre-Requisite	None
Total Credit Hours	2
Description	It provides the fundamental knowledge about the rehabilitation in the critical care setting for improving functional outcomes in the acute care population and management of critical illness; outcome measures; new rehabilitative interventions; and issues related to optimal timing, intensity, and dosage.

Course Code	BAS 3104
Course Name	Scientific Criticism
Pre-Requisite	None
Total Credit Hours	1
Description	It provides the fundamental knowledge to develop skills for critically and professionally evaluating the significance, logic and presentation of scientific studies. Class sessions will emphasize student discussion and debate of topics including experimental design, the logical interpretation of results, scientific fraud, controversial results, dogma, and effective critique. Through class exercises students will gain understanding of the peer review process and will develop skills required to write critiques of manuscripts and research proposals.

Course Code	INM 3206
Course Name	Introduction to patient compliance
Pre-Requisite	None
Total Credit Hours	1
Description	It provides the fundamental knowledge to develop skills to understand the extent and nature of the adherence challenges that patients face, and in particular the evidence-based drivers of their non-adherent behavior and be able to identify adherence opportunities to effectively contribute to commercial brand outcomes and decrease healthcare resource utilization.

Course Code	BAS 3105
Course Name	Research Design & Methodology
Pre-Requisite	None
Total Credit Hours	1
Description	It provides a strong foundation in the conceptualization and operationalization of research, how to design a research project and 'hands-on' skills in the utilization of different research methods.

Forth Level

Course Code	ORT 4407
Course Name	Sport Injuries
Pre-Requisite	None
Total Credit Hours	2
Description	It provides students with an overview of the field of sports medicine. The course will specifically have geared for students who have a special interest in athletics, and/or who may be interested in pursuing a career in sports medicine, physical therapy, or other health related fields.

Course Code	ORT 4408
Course Name	Evidence Based Practice in Musculoskeletal Disorders
Pre-Requisite	None
Total Credit Hours	2
Description	It provides the fundamental knowledge to introduce general research and evidence-based principles by exploring research methodologies used in orthopedic disorders research. Examines the formulation of clinical questions, searches appropriate literature sources, and critically appraises the evidence. Addresses literature searches and evidence-based analysis of research with emphasis on clinical decision-making.

Course Code	ORT 4409
Course Name	Physical Therapy D.D. in Musculoskeletal Disorders
Pre-Requisite	None
Total Credit Hours	2
Description	It provides analysis of the decision with special focus on clinical guideline, is addressed through comparison of systematic signs and symptoms as well as appropriate diagnostic tests which may indicate involvement of a problem outside of the scope of physical therapy practice.

Course Code	SUR 4310
Course Name	Physical Therapy in Lymphatic Disorders
Pre-Requisite	None
Total Credit Hours	2
Description	It provides the students with the basic and practical information about lymphedema management and the evaluation and new approaches of those patients.

Course Code	SUR 4311
Course Name	Evidence Based Practice in Oncology
Pre-Requisite	None
Total Credit Hours	2
Description	It provides the fundamental knowledge to introduce general research and evidence-based principles by exploring research methodologies used in oncology research. Examines the formulation of clinical questions, searches appropriate literature sources, and critically appraises the evidence. Addresses literature searches and evidence-based analysis of research with emphasis on clinical decision- making.

Fifth Level

Course Code	NUR 5512
Course Name	Rehabilitation for Adults
Pre-Requisite	None
Total Credit Hours	2
Description	It provides the students with fundamental knowledge and application of rehabilitation for various neurological, psychiatric and geriatric patients.




Course Code	NUR 5513
Course Name	Evidence Based Practice in Neuromuscular Disorders
Pre-Requisite	None
Total Credit Hours	2
Description	<p>It provides the fundamental knowledge to introduce general research and evidence-based principles by exploring research methodologies used in neuromuscular disorders research.</p> <p>Examines the formulation of clinical questions, searches appropriate literature sources, and critically appraises the evidence. Addresses literature searches and evidence-based analysis of research with emphasis on clinical decision-making.</p>

Course Code	PED 5614
Course Name	Care of Premature
Pre-Requisite	None
Total Credit Hours	2
Description	It provides the fundamental knowledge about the physical therapy management and care of babies in the neonate intensive care unit.

Course Code	PED 5615
Course Name	Education for Children with Special Needs
Pre-Requisite	None
Total Credit Hours	2
Description	It provides the fundamental knowledge about common special needs and additional educational services for children with emotional and behavioral disorders, physical disabilities and developmental disorders.

Course Code	BAS 5116
Course Name	Biostatistics
Pre-Requisite	None
Total Credit Hours	1
Description	It provides the fundamental knowledge of medical statistics.



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