



College Of Physical Therapy

Program Specification

For

**Bachelor`s Degree in
Physical Therapy**

Bylaw modified 2013

2022-2023



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Faculty of Physical Therapy



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The Vision and Mission of College of physical therapy

Vision

Leadership and excellence among colleges of physical therapy locally and regionally.

Mission

The College of Physical Therapy, Misr University of Science and Technology is committed to prepare physical therapy graduates capable of meeting the needs of the local labor market and researchers capable of conducting scientific research that contributes to the development of the professions, supports community services and development of the surrounding environment within the framework of moral values and traditions.



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University: Misr University for Science and technology

College: physical Therapy

Program Specification

For the bylaw Modified 2013(2022/2023)

I-Basic Information:

1-Program Title: Bachelor's degree of physical Therapy

2- Program Type: Single ☒ Double ☐ Multiple ☐

3- Departments:

- I. Basic Sciences of physical therapy-Biomechanics
- II. Physical therapy for diseases and surgeries of the cardio-Respiratory system and geriatrics
- III. Physical Therapy for diseases and surgeries of the Musculoskeletal System-Surgery and burns
- IV. Physical Therapy for diseases and surgeries of the neuromuscular system
- V. Physical Therapy for diseases and surgeries of pediatrics -Women Health.

4- Date of program specification approval: Faculty of Physical Therapy council session NO. (262) dated, 21/ 9/ 2022

5 - No. Of Credit hours: 203credit hours, Five years (10 semesters) and internship year.

6 - Coordinator: Dr. Samah Sheha

7 - External Evaluator: -----



II-Professional Information:

1. Program Aims:

This program is designed according to the faculty mission of blending enquiry with practical insight to enable graduates to:

- 1/1.** Collaborate with other health professionals to optimize patients' quality of life and health through restoring, maintaining, and promoting different body functions.
- 1/2.** Apply the elements of the patient's screening and examination to diagnose the subjects from physical therapy points of view.
- 1/3.** Monitor and document patient response to physiotherapy intervention and make decisions about the need to re-evaluation, referral, discharge, or consultation.
- 1/4.** Adhere to the universal protective measures, infection control guidelines and other sterile procedures for promotion of health and safety of self and others.
- 1/5.** Create a personalized physical therapy (intervention) plan to improve mobility, to recover from injury, and prevent future injury and chronic disease.
- 1/6.** Exhibit care and compassion and professional ethical behavior during all communications with patients or care givers as well as keeping their privacy and confidentiality.
- 1/7.** Provide professional and respectful communication with all related personnel to promote optimum interdisciplinary patient centered care.
- 1/8.** Develop the skills needed for self-learning and continuing professional development to be competent in physical therapy profession.
- 1/9.** Show competent practice in clinical research for safe and evidence-based physical therapy practice.
- 1/10.** Acquire the skills needed for effective patient education to become responsible for their own health care by taking an active part in the treatment process to improve patient's treatment outcomes.

2. Intended learning outcomes of the program (ILOS)

The overall objectives of the program are in practice both the intended student learning experiences and the student achievements that will demonstrate successful completion of the program of study. These intended experiences and achievements are expressed in terms of the intended learning outcomes of the program as shown below.

2/1- Knowledge and Understanding: -

On completion of the physical therapy program, graduates will be able to:

- A1.** Recognize the content of basic sciences including biological, physical, and behavioral and movement sciences explaining human structures and function.
- A2.** Describe the process of normal human development, theories, factors affecting it, risks as well as the aging process that occurs during life.
- A3.** Explain principles of mechanics, kinesiology, physiology, and exercises foundations that underpin advanced musculoskeletal and neuromuscular evaluation and therapy.
- A4.** Demonstrate the different components of normal movement analysis, function description and other complex movement of human body.
- A5.** Interpret the pharmacological aspects of common medicines relevant to physical therapy and its impact upon health, impairments, functional limitations, and disabilities.
- A6.** Illustrate the pathophysiologic and pathomechanical changes that occurred in response to different abnormal conditions for effective therapeutic program planning.
- A7.** Determine major components of Physical therapy evaluation and outline the various tools used in assessment.
- A8.** Identify the recent manual, mechanical and standardized physical therapy assessment and intervention tools and techniques used in different clinical settings.
- A9.** Realize the principles, indications, relative advantages, disadvantages as well as safety measures of various therapeutic modalities including aids, orthotics, and prosthetics.
- A10.** Outline the common musculoskeletal, neuromuscular, integumentary, cardiovascular, pulmonary, and emergency disorders, its investigation tools as well as medical and surgical interventions and procedures within the scope of physical therapy practice.
- A11.** Explain the fundamental cognitive, social, psychological human functions.
- A12.** Explain various contextual factors that can affect normal and abnormal subjects, as psychological, social, political, public health, infections, nutrition, or others relevant to physical therapy practice.
- A13.** Describe different theories of motor learning and motor control and its applications to foster motor skills analysis and acquisition in the different physical therapy services.
- A14.** Recognize the principles and methods of conducting and publishing research to support evidence based physical therapy practice.
- A15.** Illustrate the components and importance of different information technology tools for communication, teaching others, and application of physical therapy services.



A16. Demonstrate the common ways of thinking, making decisions, and reasoning as well as the use of English and Arabic languages and its importance during setting goals, planning application of physical therapy management.

A17. Describe the physical therapy ethical and legal principles that govern decision-making during patient interactions, peer collaborations, and practice management.

A18. Identify components and processes of total quality system as well as strategic plans, operations, and resources' management.

2/2- Intellectual Skills:-

On completion of the physical therapy program, graduates will be able to:

B1. Analyze signs, shapes, clinical pictures, and processes of different structures and functions of the human body in normal conditions and various pathologies.

B2. Examine the underlying mechanisms of normal and abnormal human movements that guide examination process and intervention planning.

B3. Analyze data from basic sciences to build upon and make clinical decisions.

B4. Criticize various findings of patient history, system review, tests, and measures accurately to reach physical therapy diagnosis.

B5. Select the suitable examination tool for each patient according to his\ her pathology, age, and available resources.

B6. Use critical thinking and clinical reasoning skills to predict the patient's expected outcome, discharge needs, and prognosis.

B7. Evaluate the findings of examination process carefully and extract patient problems.

B8. Design realistic and achievable intervention goals considering underlying pathological mechanisms, socioeconomic condition, psychological factors, and other contextual factors.

B9. Prioritize specific Physical therapy interventions needed for the attainment of identified goals appropriate to improve function, safe mobility, and quality of movement and to achieve expected outcomes.

B10. Develop realistic goal directed plan of care in collaboration with interdisciplinary team.

B11. Construct a written and prioritized problem list in a concise well-organized form.

B12. Formulate a proper prescription of orthotic, prosthetic, and assistive devices to enhance patient activity and to reduce impairment, disability, and participation restriction as much as possible.

B13. Analyze, extract, and appraise the needed information from all available sources for planning physical therapy intervention considering right-protection issues.

B14. Use scientific thinking to analyze patient problems, planning interventions and re-evaluation of outcomes.

B15. Analyze conflicts accurately and develop effective resolutions for optimum health team collaboration.

B16. Formulate accurate and correct documentations of all physical therapy interventions according to quality standards.

B17. Modify intervention plan in response to different outcomes from patients, care givers, and other health care professionals.



2/3- Professional and Practical skills:-

On completion of the physical therapy program, graduates will be able to:

- C1.** Illustrate different signs, landmarks, biological components, and reactions of different body structures, functions, processes, as well as different pathologies.
- C2.** Obtain case history from patients, care givers, patient file, or any other available sources.
- C3.** Use recent and common examination tools, tests, and measures professionally in evaluation of musculoskeletal, neuromuscular, integumentary, cardiovascular, and pulmonary problems within the scope of physical therapy practice.
- C4.** Perform holistic patient examination to determine impairments, activity limitations, and social participation restrictions.
- C5.** Interpret examination findings into an individualized problem list based on patient's status, medical problems, and their related complications.
- C6.** Conduct physical therapy examination process to make clinical judgements through setting case diagnosis and prediction of patient prognosis based on interpretation of patient/client examination/reexamination data.
- C7.** Develop individualized plan of care that coordinates human and financial resources to ensure attainment of physical therapy identified goals.
- C8.** Apply recent and evidence-based plan of care including all recent and available therapeutic interventions for different cases of Cardiovascular, Pulmonary, Neurologic, Orthopedic, Pediatric, Sports and Women's Health.
- C9.** Implement therapeutic modalities, physical agents, and manual techniques considering their indication and contraindication effectively and safely to achieve patient goals and expected outcomes.
- C10.** Monitor and justify plan of care in collaboration with interdisciplinary professionals including modification, progression, discontinuation, and discharge considering various environmental factors.
- C11.** Modify plan of care according to the outcomes of periodical evaluation and update goals, expected outcomes, and the expected time needed to achieve the outcomes considering the available resources.
- C12.** Assess patient outcomes periodically using objective and standardized tests and measures and judge the effectiveness of initial intervention plan and determine any conflicts with other medical or surgical interventions.
- C13.** Demonstrate continuum of professional behavior and avoid the consequences of boundary crossings, violations to prevent professional misconduct.
- C14.** Determine if patients need further examination or consultation from other physical therapist or need referral to other health care professional according to outcomes assessment.
- C15.** Apply different physical therapy management techniques with professional attitude adhering to values, ethics, and legal practice standards considering patient safety, values, and preferences.
- C16.** Show professional attitude through controlling emotional reactions and responding effectively to different patients and care givers attitudes as well as any environmental emergencies.
- C17.** Demonstrate handling techniques, different tasks or home exercises to patients and care givers and provide effective patients and care givers education.



- C18.** Record all details of patient intervention effectively using information technology, official formats, and professional guidelines considering sound language.
- C19.** Assess health care safety and employ quality standards through monitoring outcomes by available outcome measures.
- C20.** Prescribe the proper orthotics, prosthetics, and other assistive devices for patients according to assessment findings and patient preference.
- C21.** Apply basic techniques of first aid, lifesaving modalities and other emergencies.

2/4 - General Skills:-

On completion of the physical therapy program, graduates will be able to:

- D1.** Use computer-based technology and internet as a source of information, knowledge processing, interpreting information and effective communications.
- D2.** Manage and prioritize workload and time effectively.
- D3.** Demonstrate effective managerial and leadership skills to influence behavior of the team towards the attainment of goals and objectives.
- D4.** Apply effective practices that minimize the risk of transmission of infections.
- D5.** Demonstrate compassion, caring, integrity, and respect for differences, values, and preferences in all interactions with patients, family members, health care providers, students, other consumers, and payers.
- D6.** Implement effectively appropriate teaching strategies of patients, families, peers, students, and community to achieve the planned treatment goals.
- D7.** Respect diversity and difference, including but not limited to the impact of gender, religion, and cultural beliefs on decision-making.
- D8.** Express thoughts and ideas effectively and proficiently in verbal and written forms using English and Arabic and/or any relevant language in formal and informal venues

III-External References for Standards (Benchmarks):

Not Applicable

IV-Program Structures and Content:

1. Program duration:

203 credit hours, Five years/levels (10 semesters) and internship year.

2. Program structure:

Item	Mandatory	Elective	University requirement	Total
Number of credit Hours	175 CH	7 CH	21 CH	203 CH

Item	Theoretical	Theoretical and Practical	Clinical
Number of credit Hours	83CH	104 CH	16 CH
Number of courses	42	32	7

Contact hours are calculated as follow:

- 1 CH = 1 Lecture
- 1 CH = 2 practical
- 1 CH = 3 clinical

NO	Subjects	NARS Range	Program	
			Credit Hours	Percentage
1	Biological and physical sciences	20 – 22%	45	22%
2	Behavioral Sciences	10 – 12%	25	12%
3	Core Professional sciences	53 – 55%	128	63%
4	Information Technology	3 – 4%	5	3%



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Level 1

1st Semester

Code	Course	Number of Credit Hours/week				Final Score				Exam Duration
		Total	Theoretical	Practical	Clinical	Total	Theoretical	Practical	Clinical	Hours
ANAT PT111	Human Anatomy I	3	2	1	-	150	100	50	-	2
BIOC 111PT	Biochemistry I	2	2	-	-	100	100	-	-	2
HIST 111PT	Histology	3	2	1	-	150	100	50	-	2
HPHY 111PT	Human Physiology I	3	2	1	-	150	100	50	-	2
COMP 101	Introduction to Computer Applications	3	2	1	-	150	100	50	-	2
ENGL 101	English Language I	3	3	-	-	150	150	-	-	2
HUMN 101	Behavioral Psychology	3	3	-	-	150	150	-	-	2
	Total	20	16	4	-	-	-	-	-	-



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2nd Semester:

Code	Course	Number of Credit Hours/week				Final Score				Exam Duration
		Total	Theoretical	Practical	Clinical	Total	Theoretical	Practical	Clinical	Hours
ANAT 112PT	Human Anatomy II	3	2	1	-	150	100	50	-	2
BIOC 112PT	Biochemistry II	2	2	-	-	100	100	-	-	2
BIOP 112PT	Biophysics II	3	2	1	-	150	100	50	-	2
HPHY 112PT	Human Physiology II	3	2	1	-	150	100	50	-	2
BIOM 112	Kinesiology I	3	2	1	-	150	100	50	-	2
SOCL.112	Introduction to Sociology	1	1	-	-	50	50	-	-	1
ENGL 102	English Language II	3	3	-	-	150	150	-	-	2
HUMN 102	Scientific Thinking	3	3	-	-	150	150	-	-	2
	Total	21	17	4	-	-	-	-	-	-



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Level 2

3rd Semester

Code	Course	Number of Credit Hours/week				Final Score				Exam Duration
		Total	Theoretical	Practical	Clinical	Total	Theoretical	Practical	Clinical	Hours
ANATPT211	Human Anatomy III (Neuroanatomy)	3	2	1	-	150	100	50	-	2
HPHY211PT	Human Physiology III (Neurophysiology)	3	3	-	-	150	150	-	-	2
BIOM 211	Biomechanics II	2	2	-	-	100	100	-	-	2
BS 221	Electrotherapy I	3	2	1	-	150	100	50	-	2
BS 211	Evaluation / Measurements I	4	2	2	-	200	100	100	-	2
BS 231	Therapeutic Exercises	4	2	2	-	200	100	100	-	2
ENGL 201	English Language III	3	3	-	-	150	150	-	-	2
	Total	22	16	6	-	-	-	-	-	-



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4th Semester

Code	Course	Number of Credit Hours/week				Final Score				Exam Duration
		Total	Theoretical	Practical	Clinical	Total	Theoretical	Practical	Clinical	Hours
ANATPT212	Human Anatomy IV	3	2	1	-	150	100	50	-	2
HPHYPT212	Physiology IV (Exercise Physiology)	2	2	-	-	100	100	-	-	2
PATH212PT	Pathology for Physical Therapy	2	2	-	-	100	100	-	-	2
BIOM 212	Biomechanics III	2	1	1	-	100	50	50	-	1
BS 222	Electrotherapy II	2	1	1	-	100	50	50	-	1
BS 212	Evaluation / Measurements II	4	2	2	-	200	100	100	-	2
BS 232	Manual Therapy	4	2	2	-	200	100	100	-	2
CMED 211	Community Health and Hygiene	1	1	-	-	50	50	-	-	1
BS 255	Legal & Ethical Issues in Physiotherapy	1	1	-	-	50	50	-	-	1
	Total	21	14	7	-	-	-	-	-	-



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Level 3

5th Semester

Code	Course	Number of Credit Hours/week				Final Score				Exam Duration
		Total	Theoretical	Practical	Clinical	Total	Theoretical	Practical	Clinical	Hours
PAPH 311PT	Pathophysiology	1	1	-	-	50	50	-	-	1
PHAR 311PT	Pharmacology for Physical Therapy	2	2	-	-	100	100	-	-	2
BIOM .311	Biomechanics IV	2	1	1	-	100	50	50	-	1
BS 341	Hydrotherapy	2	1	1	-	100	50	50	-	1
REHA 311	Rehabilitation	2	2	-	-	100	100	-	-	2
BS 355	Research and Medical Statistics	2	2	-	-	100	100	-	-	2
BS 357	Management and Clinical Decision Making	2	2	-	-	100	100	-	-	2
ARAB 101	Arabic Language	3	3	-	-	150	150	-	-	2
	Elective Courses	-	-	-	-	-	-	-	-	-
	Total	19	14	2	-	-	-	-	-	-



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6th Semester

Code	Course	Number of Credit Hours/week				Final Score				Exam Duration
		Total	Theoretical	Practical	Clinical	Total	Theoretical	Practical	Clinical	Hours
MED.312PT	Clinical Medicine for Cardiovascular Conditions	2	2	-	-	100	100	-	-	2
MED 314PT	Clinical Medicine for Pulmonary and Internal Conditions	2	2	-	-	100	100	-	-	2
CAPU 312	Clinical Practice for Geriatrics	1	-	-	1	50	-	-	50	-
CAPU 314	Clinical Practice for Cardiovascular and Pulmonary Disorders	3	-	-	3	150	-	-	150	-
CAPU 322	Physical Therapy for Cardiovascular Conditions	3	2	1	-	150	100	50	-	2
CAPU 324	Physical Therapy for Pulmonary and Internal Conditions	4	2	2	-	200	100	100	-	2
CAPU 326	Geriatric Rehabilitation	2	2	-	-	100	100	-	-	2
RAD .312PT	Radiology	1	1	-	-	50	50	-	-	1



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BIOC 312PT	Clinical Nutrition	1	1	-	-	50	50	-	-	1
PSYC 312PT	Psychology for Handicapped	1	1	-	-	50	50	-	-	1
	Total	20	13	3	4	-	-	-	-	-

Level 4

7th Semester

Code	Course	Number of Credit Hours/week				Final Score				Exam Duration
		Total	Theoretical	Practical	Clinical	Total	Theoretical	Practical	Clinical	Hours
PT .441	Evidence Based Practice	1	1	-	-	50	50	-	-	1
MED 411PT	Clinical Medicine for Gynecology and Women Health	1	1	-	-	50	50	-	-	1
GYPD .411	Clinical Practice for Women Health	1	-	-	1	50	-	-	50	-
GYPD 421	Physical Therapy for Women Health	3	2	1	-	150	100	50	-	2
SURG .411	General Surgery and Intensive Care	2	2	-	-	100	100	-	-	2
SURG PT411	Clinical Practice for Integumentary and Surgical Conditions	2	-	-	2	100	-	-	100	-



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SURG PT421	Physical Therapy for Integumentary and Surgical Conditions	4	3	1	-	200	150	50	-	2
BIOM 411	Ergonomics	3	2	1	-	150	100	50	-	2
	Elective Courses	2	-	-	-	-	-	-	-	-
	Total	19	11	3	3	-	-	-	-	-

8th Semester

Code	Course	Number of Credit Hours/week				Final Score				Exam Duration
		Total	Theoretical	Practical	Clinical	Total	Theoretical	Practical	Clinical	Hours
RAD .412PT	Radio-diagnosis	1	1	-	-	50	50	-	-	1
MED 412PT	Clinical Medicine for Traumatology	2	2	-	-	100	100	-	-	2
SURG PT412	Clinical Medicine for Orthopedic Surgery	2	2	-	-	100	100	-	-	2
MUSK 422	Physical Diagnosis and Examination	2	1	1	-	100	50	50	-	1
MUSK .424	Physical Therapy for Orthopedics	6	4	2	-	300	200	100	-	2
MUSK 426	Sport Physical Therapy	3	2	1	-	150	100	50	-	2
PROS .412	Orthotics and Prosthetics	2	1	1	-	100	50	50	-	1



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MUSK 412	Clinical Practice for Traumatology and Orthopedic Surgery	3	-	-	3	150	-	-	150	-
	Total	21	13	5	3	-	-	-	-	-

Level 5

9th Semester

Code	Course	Number of Credit Hours/week				Final Score				Exam Duration
		Total	Theoretical	Practical	Clinical	Total	Theoretical	Practical	Clinical	Hours
MED .511PT	Clinical Medicine for Pediatrics and Surgical Cases	3	3	-	-	150	150	-	-	2
GYPD 511	Clinical Practice for Pediatrics and Surgical Cases	3	-	-	3	150	-	-	150	-
GYPD .521	Motor Development Across Life Span	3	3	-	-	150	150	-	-	2
GYPD 525	Physical Therapy for Pediatrics	4	2	2	-	200	100	100	-	2
GYPD 527	Physical Therapy for Pediatric Surgical Conditions	2	1	1	-	100	50	50	-	1
GYPD 529	Speech Therapy	1	1	-	-	50	50	-	-	1
OT .511	Occupational Therapy	1	1	-	-	50	50	-	-	1



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	Elective Courses	2	-	-	-	-	-	-	-	-
	Total	19	11	3	3	-	-	-	-	-

10th Semester

Code	Course	Number of Credit Hours/week				Final Score				Exam Duration
		Total	Theoretical	Practical	Clinical	Total	Theoretical	Practical	Clinical	Hours
MED 512PT	Clinical Medicine for Neurology	3	3	-	-	150	150	-	-	2
SURG 512PT	Neurosurgery	2	2	-	-	100	100	-	-	2
NEUR 512	Clinical Practice for Neurological and Neuro-Surgical Conditions	3	-	-	3	150	-	-	150	-
NEUR .522	Physical Therapy for Neurological Conditions	4	2	2	-	200	100	100	-	2
NEUR 524	Physical Therapy for Neurosurgical Conditions	2	1	1	-	100	50	50	-	1
NEUR .525	Electro-diagnosis	3	2	1	-	150	100	50	-	2
NEUR 526	Recent Approaches in Neuro-Rehabilitation	2	1	1	-	100	50	50	-	1
PT 541	Motor Learning and Control	2	2	-	-	100	100	-	-	2
	Total	21	13	5	3	-	-	-	-	-



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Code	Course	Number of Credit Hours/week				Final Score				Exam Duration
		Total	Theoretical	Practical	Clinical	Total	Theoretical	Practical	Clinical	Hours
ACTAE107**	Lifetime Sports: Aerobics	1	1	-	-	1	50	-	-	1
ACTFE107**	Lifetime sports	1	1	-	-	1	50	-	-	1
ACTXE108**	Marshal and Self-defending Sports	1	1	-	-	1	50	-	-	1
ACTBE106**	Team Sports I: Basketball	1	1	-	-	1	50	-	-	1
ACTHE105**	Team Sports I: Handball	1	1	-	-	1	50	-	-	1
ACTSE105**	Team Sports I: Soccer	1	1	-	-	1	50	-	-	1
ACTVE106**	Team Sports II: Volleyball	1	1	-	-	1	50	-	-	1
SPORTSE**	Sports culture	2	2	-	-	2	100	-	-	2
BIOM 412E*	Clinical Biomechanics	3	2	-	1	150	100	-	50	2
BS 353E*	Quality in Health Care	1	1	-	-	50	50	-	-	1
BUS 311E*	Hospital Management	2	2	-	-	100	100	-	-	2
FIRS 411E***	First Aid	2	1	1	-	100	50	50	-	1
GYPD 422E*	Pediatric Respiratory Therapy	2	2	-	-	100	100	-	-	2
MIC 311E*	Infection Control	1	1	-	-	50	50	-	-	1
PT 341E*	Teaching and Learning	1	1	-	-	50	50	-	-	1
PT 442E*	Communication Skills	1	1	-	-	50	50	-	-	1



PT 444E*	Independent Study	2	-	2	-	100	-	100	-	-
PT 446E*	Scientific Writing	1	1	-	-	50	50	-	-	1
PT 448E*	Differential Diagnosis in Physical Therapy	2	2	-	-	100	100	-	-	2
PYSC 412E*	Psychiatry	1	1	-	-	50	50	-	-	1

List of selective Courses (required a total of 7 credit hours) as follows:

1. All students are obligated to register for a total of seven credit hours. Five credit hours must be chosen from College-selective elective courses, while the remaining two must be selected from University-selective elective courses.
2. Internship Program: Completion of a twelve-month internship program is mandatory following the successful completion of five academic years (ten semesters) of coursework. This program serves as an integral educational experience, offering students invaluable practical training. Under the guidance and supervision of experienced professionals, students gain hands-on experience practicing safe and effective physical therapy techniques in diverse clinical scenarios, thereby minimizing risk to patients, themselves, and others.
3. Program Prerequisites: To be eligible for the internship program, students must successfully complete the five-year physical therapy program at Misr University for Science & Technology, achieving a minimum cumulative credit total of 190-200.

The internship program includes the following department periods:

Pediatric	Two month
Neurology	Two month
Orthopedic	Two month
Internal	Two month
Surgery	One month
Gynecology	One month
Specialty	Two month

V- Academic Rules and Regulations

1-Program Admission Requirements:

- Applicants must hold the Egyptian Secondary School Certificate or an official equivalent.
- Applicants are nominated for admission to the faculty according to the rules of the Supreme Council of Private Universities.
- Applicants must pass admission Personal Interview (with 50% pass mark).
- All registering students must pass a medical checkup and complete the medical form supplied by the faculty.
- Foreign students are nominated for admission to the faculty according to the general regulations of the Ministry of Higher Education.
- Full-time study is a requirement for all students.

• 2-Regulations rules for program course completion:

- The Faculty of Physical Therapy offers a Bachelor of Science (B.Sc.) Degree in Physical Therapy. To successfully complete this program and earn the degree, students must fulfill the following requirements:
 - Credit Hour Completion: Successful completion of a total of two hundred and three (203) credit hours of academic coursework.
 - Internship Requirement: Successful completion of a twelve (12) month internship program following the academic coursework.
- Each course offered within the program carries a designated credit value. As a standard measure, one credit hour equates to one hour of theoretical study per week for the duration of a semester (generally fifty minutes per session). Alternatively, for courses with a practical or applied focus, one credit hour is represented by two hours of practical or applied work per week for one semester (again, typically fifty minutes per session)



- The academic year consists of two semesters (Fall and Spring) and an optional summer session. Fall and Spring semesters each span fifteen weeks, while the summer session comprises six weeks. It is important to note that the weekly duration of each summer course is double that of its counterpart during regular semesters (Fall or Spring). In other words, a course requiring three hours of instruction per week during Fall or Spring semesters would necessitate six hours of instruction per week during the summer session.
- Contact hours are calculated as follows:
 - 1 CH = 1 Lecture
 - 1 CH = 2 practical
 - 1 CH = 3 clinical

2-1-Examinations & Grading System

A. Weighting Of Assessments

1-Mark distribution for theoretical courses:

Assessment Methods	Weight
1.Course work	40%
2. Final written Exam	60%

B-Mark distribution for Clinical Courses

Assessment Methods	Course work	Final Exam	
Weight	40%	60%	
		20% Oral exam	40% clinical exam

C-Theoretical and Practical Courses:

Credit hours	Course work	Final Exam 60%	
		Written exam	Oral and Practical exam
2 (1+ 1)	40 %	30 %	30 %
3 (2 + 1)	40 %	40 %	20 %
4 (3 + 1)	40 %	45 %	15 %
4 (2 + 2)	40 %	30 %	30 %
6 (4 + 2)	40 %	40 %	20 %

2-2- Grading System

Points	Grade Symbol	Grade	Faculties
4	A*	Excellent	95-100
4	A		90-<95
3.6	A-		85-<90
3.3	B+	Very Good	80-<85
3	B		75-<80
2.7	B-		72-<75

2.3	C+	Good	70-<72
2	C		65-<70
1.7	C-	Pass	63-<65
1.3	D+	Pass	62-<63
1	D		60-<62
0	F	Fail	<60

2-3- Grades not included in the GPA:

In addition to the previously mentioned 12 letter grades (from A+ to F), the letter grades below may appear on the student official transcript.

Grade Description	Percentage	Letter Grade		Grade Point
In-progress	—		IP	—
Withdraw	—		W	—
Incomplete	—		I	—
Absence with Excuse	—		E	—
Absence with No Excuse	0.00		NE	0.0
Denial	0.00		DN	0.0

- **IP (In-Progress)** is a provisional grade that appears on transcripts issued before the end of a given semester. At the end of the semester, IP grades are replaced by the actual course grades earned by the student.
- **W (withdraw)** is a grade assigned to the course(s) from which a student has withdrawn.
(W) grade is not included in the calculation of CGPA.

- **I (Incomplete)** is a provisional grade assigned to the course(s) in which a student was unable to complete course work by the due date. After completion of the course, (I) grade is replaced by the actual course grade earned by the student. (I) grade is not included in the calculation of CGPA.
- **E (Absence with Excuse)** is a provisional grade assigned to the course(s) in which a student has missed the final exam with an accepted excuse. After sitting for a substitute exam, the (E) grade is replaced by the actual course grade earned by the student. (E) grade is not included in the calculation of CGPA.
- **NE (Absence with No Excuse)** is a grade assigned to the course(s) in which a student has missed the final exam with no presented excuse. (NE) grade is equivalent to "0" points and is included in the calculation of CGPA.
- **DN (Denial)** is a grade assigned to students denied from completing the course. (DN) grade is equivalent to "0" points and is included in the calculation of CGPA.

2-4- Grade Point Average

The current grade point average (G P A) (a term average) is calculated as follows:

Course	%	Grade	Quality Point	Credits	PTS Product
Course 1	83	B+	3.3	3	9.9
Course 2	58	C-	1.7	3	5.1
Course 3	78	B	3.0	4	12.0
Course 4	76	B	3.0	3	9.0
Course 5	63	C	2.0	3	6.0
Total				16	42.0

To calculate the term average, add the resultant (credits X quality points) and divide by the number of credit hours taken. e.g., 42 divided by 16 equals 2.63. The cumulative average [C G P A] “total average of grades from two or more terms” equals the sum of the resultant of all the grades divided by the total number of credits taken.

Grade	CGPA
Excellent (A ⁺ , A ⁻ ,)	(3.7 ,4.0,)
Very Good (B, B+)	(3.0 , 3.3)
Good (C ⁺ , B ⁻)	(2.3 , 2.7)
Pass (C)	(2.0)

The number of Repetition times:

Students are allowed to re-register any course (i.e. fully re-scheduled) but not more than three times per academic decision (where mandatory or elective course) and so to correct any repetition of estimates BL, F, NE or DN

VI-Learning and teaching methods:

Methods.	Intended Learning Outcomes (ILOS) to be measured
Lecture (Active Learning)	Knowledge and understanding
Blended learning.	Knowledge and Understanding, Intellectual Skills and General Skills
Brain Storming	Knowledge and Understanding, Intellectual Skills, General Skills.
Power point/Video	Knowledge and Understanding, Intellectual Skills
Flipped Classroom	Knowledge and Understanding, Intellectual Skills
Cooperative learning (Group Discussions)	Knowledge and Understanding, Intellectual Skills and General

	Skills
Self-learning (presentation & project)	Knowledge and Understanding, Intellectual Skills, Professional and practical Skills, and General Skills.
E-Learning	Knowledge and Understanding, Intellectual Skills, Professional and practical Skills, and General Skills
Case Study	Knowledge and Understanding, Intellectual Skills, Professional skills and General Skills
Practical sections	Knowledge and Understanding, Intellectual Skill Professional skills and General Skills s,
Role Play	
Simulation/Models	Professional skills and General Skills.
Field visit	Professional skills and General Skills.

VII-Teaching and learning Facilities

Lecture theatres and classrooms	Data show
Practical classrooms	Models
Library	Hospitals
Online platform (Smart learning -Microsoft teams)	
Labs	Research labs
IT support	computer labs



VIII- Evaluation of Program Intended Learning Outcomes

Assessment Methods:

Different assessment methods are used for the students of the physical therapy program as seen in the next table:

Method	Intended Learning Outcomes ILOS
Quizzes	To assess Knowledge and Understanding and intellectual skills.
Oral exam	To assess Knowledge and Understanding, intellectual skills, General and transferable skills.
Practical exam	Knowledge and Understanding, Intellectual Skills, Professional skills and General Skills.
Final written examinations	To assess Knowledge and Understanding and intellectual skills.
Clinical exam	Knowledge and Understanding, Intellectual Skills, Professional skills and General Skills.
Assignments - presentation and projects	To assess Knowledge and Understanding, Intellectual Skills, and General Skills.

IX-Evaluation of the Program

Methods	Tool
1- Senior students	Questionnaire
2- Graduates	Questionnaire
3- Stakeholders (Employers)	Interview- Questionnaire
4- External Evaluator	Report
5- Internal evaluator	Report

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X- Matrices of The program

Appendix no	Matrix
Appendix 1	Matrix of the attributes of Physical Therapy graduates with Program's Aims
Appendix 2	Matrix of NARS with Program's ILO's
Appendix 3	Matrix of the Program's ILO's with the program Courses
Appendix 4	Matrix of vision and mission with program aims



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Appendix 1

Matrix of the attributes of Physical Therapy graduates with Program's Aims



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The Attributes of Physical Therapy graduates	Program's Aims
1. Act as a member of health care team in restoring, maintaining, and improving functions of different body systems.	1/1. Collaborate with other health professionals to optimize patients' quality of life and health through restoring, maintaining, and promoting different body functions.
2. Provide comprehensive practice management and maintain patient's record in complete and accurate forms.	1/2. Apply the elements of the patient's screening and examination to diagnose the subjects from physical therapy points of view.
	1/3. Monitor and document patient response to physiotherapy intervention and make decisions about the need to re-evaluation, referral, discharge, or consultation.
	1/5. Create a personalized physical therapy (intervention) plan to improve mobility, to recover from injury, and prevent future injury and chronic disease.



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3. Understand the legal responsibilities and ethical considerations of professional practice.	1/4. Adhere to the universal protective measures, infection control guidelines and other sterile procedures for promotion of health and safety of self and others.
	1/6. Exhibit care and compassion and professional ethical behavior during all communications with patients or care givers as well as keeping their privacy and confidentiality.
4. Communicate effectively, accurately, clearly, confidently in written and oral in both English and Arabic languages.	1/7. Provide professional and respectful communication with all related personnel to promote optimum interdisciplinary patient centered care.
5. Be committed to continuing professional development (life- long learning).	1/8. Develop the skills needed for self-learning and continuing professional development to be competent in the physical therapy profession.
6. Recognize the importance of conducting research studies on evidence-based practice.	1/9. Show competent practice in clinical research for safe and evidence-based physical therapy practice.
7. Acquire basic administration and teaching skills for patient and care given.	1/10. Acquire the skills needed for effective patient education to become responsible for their own health care by taking an active part in the treatment process to improve patient's treatment outcomes.



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Appendix 2

Matrix of NARS with Program's ILO's



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National Academic Reference Standards (NARS)	Program's ILO's
1. Knowledge and Understanding: The award holder must be able to demonstrate knowledge and understanding of:	A. Knowledge and Understanding Upon completion of the program, the graduate will be able to
1.1. Human anatomy and physiology (emphasizing the dynamic relationships of human structure and function).	A1. Recognize the content of basic sciences including biological, physical, and behavioral and movement sciences explaining human structures and function.
1.2. Human growth and development across life span.	A2. Describe the process of normal human development, theories, factors affecting it, risks as well as the aging process that occurs during life.
1.3. Basic principles and theories from physics, biomechanics, electrophysiology and applied exercise sciences that can be utilized in physical	A3. Explain principles of mechanics, kinesiology, physiology, and exercises foundations that underpin advanced musculoskeletal and neuromuscular evaluation and therapy.



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National Academic Reference Standards (NARS)	Program's ILO's
therapy.	
1.4. Principles of movement and function analysis based on anatomical, physiological and mechanical understanding considerations.	A4. Demonstrate the different components of normal movement analysis, function description and other complex movement of human body.
1.5. The effects of pharmacological intervention and its impact on physical therapy procedures.	A5. Interpret the pharmacological aspects of common medicines relevant to physical therapy and its impact upon health, impairments, functional limitations, and disabilities.
1.6. Clinical sequel of pathology and their relationship to physical therapy intervention.	A6. Illustrate the pathophysiologic and pathomechanical changes that occurred in response to different abnormal conditions for effective therapeutic program planning.
1.7. Principles of physical therapy assessment and treatment (tools & techniques).	A7. Determine major components of Physical therapy evaluation and outline the various tools used in assessment.
	A8. Identify the recent manual, mechanical and standardized physical therapy assessment and intervention tools and techniques used in different clinical settings.



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National Academic Reference Standards (NARS)	Program's ILO's
	A9. Realize the principles, indications, relative advantages, disadvantages as well as safety measures of various therapeutic modalities including aids, orthotics, and prosthetics.
1.8. Medical and surgical interventions for different body systems and tissues as it related to physical therapy field.	A10. Outline the common musculoskeletal, neuromuscular, integumentary, cardiovascular, pulmonary, and emergency disorders, its investigation tools as well as medical and surgical interventions and procedures within the scope of physical therapy practice.
1.9. Psychological and social factors that influence an individual in health and illness and their impact on physical therapy practice.	A11. Explain the fundamental cognitive, social, psychological human functions.
	A12. Explain various contextual factors that can affect normal and abnormal subjects, as psychological, social, political, public health, infections, nutrition, or others relevant to physical therapy practice.
1.10. Different theories of motor learning and motor control.	A13. Describe different theories of motor learning and motor control and its applications to foster motor skills analysis and acquisition in the different physical therapy services.
1.11. Principles of research and evidence based	A14. Recognize the principles and methods of conducting and publishing research to support evidence based physical therapy



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National Academic Reference Standards (NARS)	Program's ILO's
physical therapy practice.	practice.
	A15. Illustrate the components and importance of different information technology tools for communication, teaching others, and application of physical therapy services.
	A16. Demonstrate the common ways of thinking, making decisions, and reasoning as well as the use of English and Arabic languages and its importance during setting goals, planning application of physical therapy management.
1.12. The legal responsibilities and ethical considerations of professional practice.	A17. Describe the physical therapy ethical and legal principles that govern decision-making during patient interactions, peer collaborations, and practice management.
	A18. Identify components and processes of total quality system as well as strategic plans, operations, and resources' management.



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National Academic Reference Standards (NARS)	Program's ILO's
1. Intellectual skills The award holder must be able to practice the following skills:	B. Intellectual skills Upon completion of the program, the graduate will be able to
2.1. Integrate basic anatomical, physiological, and biomechanical knowledge with clinical data.	B1. Analyze signs, shapes, clinical pictures, and processes of different structures and functions of the human body in normal conditions and various pathologies. B3. Analyze data from basic sciences to build upon and make clinical decisions.
2.2. Conduct a comprehensive examination and evaluation to reach a physical therapy diagnosis.	B2. Examine the underlying mechanisms of normal and abnormal human movements that guide examination process and intervention planning. B4. Criticize various findings of patient history, system review, tests, and measures accurately to reach physical therapy diagnosis.



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National Academic Reference Standards (NARS)	Program's ILO's
	B5. Select the suitable examination tool for each patient according to his\ her pathology, age, and available resources.
2.3. Synthesize relevant obtained data to predict prognosis.	B6. Use critical thinking and clinical reasoning skills to predict the patient's expected outcome, discharge needs, and prognosis.
2.4. Formulate plan of care to achieve realistic goals.	B8. Design realistic and achievable intervention goals considering underlying pathological mechanisms, socioeconomic condition, psychological factors, and other contextual factors.
	B9. Prioritize specific Physical therapy interventions needed for the attainment of identified goals appropriate to improve function, safe mobility, and quality of movement and to achieve expected outcomes.
	B10. Develop realistic goal directed plan of care in collaboration with interdisciplinary team.
	B17. Modify intervention plan in response to different outcomes from



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National Academic Reference Standards (NARS)	Program's ILO's
	patients, care givers, and other health care professionals.
2.5. Write concise, accurate and understandable patient's problems.	B7. Evaluate the findings of examination process carefully and extract patient problems. B11. Construct a written and prioritized problem list in a concise well-organized form.
2.6. Justify indications for, and proper use of orthotics and prosthetic devices.	B12. Formulate a proper prescription of orthotic, prosthetic, and assistive devices to enhance patient activity and to reduce impairment, disability, and participation restriction as much as possible.
2.7. Extract data from literature, using information technology and library resources to solve patients' problems.	B13. Analyze, extract, and appraise the needed information from all available sources for planning physical therapy intervention considering right-protection issues.
2.8. Utilize scientific thinking in solving problems related to patients, work management, and among	B14. Use scientific thinking to analyze patient problems, planning interventions and re-evaluation of outcomes.



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National Academic Reference Standards (NARS)	Program's ILO's
rehabilitation team.	B15. Analyze conflicts accurately and develop effective resolutions for optimum health team collaboration.
2.9. Value the framework of quality assurance mechanisms within physical therapy practice.	B16. Formulate accurate and correct documentations of all physical therapy interventions according to quality standards.
1. Professional skills The award holder must be able to practice the following skills	C. Professional skills Upon completion of the program, the graduate will be able to
3.1. Performance of definitive physical therapy examinations.	C1. Illustrate different signs, landmarks, biological components, and reactions of different body structures, functions, processes, as well as different pathologies.
	C3. Use recent and common examination tools, tests, and measures professionally in evaluation of musculoskeletal, neuromuscular, integumentary, cardiovascular, and pulmonary problems within the scope of physical therapy practice.



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National Academic Reference Standards (NARS)	Program's ILO's
3.2. Construct the problem list, strengths, abilities, and buffers.	C2. Obtain case history from patients, care givers, patient file, or any other available sources.
	C4. Perform holistic patient examination to determine impairments, activity limitations, and social participation restrictions.
	C5. Interpret examination findings into an individualized problem list based on patient's status, medical problems, and their related complications.
3.3. Formulation of physical therapy diagnosis.	C6. Conduct physical therapy examination process to make clinical judgements through setting case diagnosis and prediction of patient prognosis based on interpretation of patient/client examination/reexamination data.
3.4. Design and manage a specific physical therapy Plan of care.	C7. Develop individualized plan of care that coordinates human and financial resources to ensure attainment of physical therapy identified goals.
	C18. Record all details of patient intervention effectively using



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National Academic Reference Standards (NARS)	Program's ILO's
	information technology, official formats, and professional guidelines considering sound language.
	C20. Prescribe the proper orthotics, prosthetics, and other assistive devices for patients according to assessment findings and patient preference.
3.5. Implement in a safe and effective manner a specific physical therapy plan of care.	C8. Apply recent and evidence-based plan of care including all recent and available therapeutic interventions for different cases of Cardiovascular, Pulmonary, Neurologic, Orthopedic, Pediatric, Sports and Women's Health.
	C9. Implement therapeutic modalities, physical agents, and manual techniques considering their indication and contraindication effectively and safely to achieve patient goals and expected outcomes.
	C15. Apply different physical therapy management techniques with professional attitude adhering to values, ethics, and legal practice standards considering patient safety, values, and preferences.
	C17. Demonstrate handling techniques, different tasks or home exercises to patients and care givers and provide effective patients and care givers education.



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National Academic Reference Standards (NARS)	Program's ILO's
	C21. Apply basic techniques of first aid, lifesaving modalities and other emergencies.
3.6. Conduction initial and periodical patient's evaluation.	C12. Assess patient outcomes periodically using objective and standardized tests and measures and judge the effectiveness of initial intervention plan and determine any conflicts with other medical or surgical interventions.
	C19. Assess health care safety and employ quality standards through monitoring outcomes by available outcome measures.
3.7. Modify physical therapy program, terminate intervention and induce discharge plan as related to changes in physical status.	C10. Monitor and justify plan of care in collaboration with interdisciplinary professionals including modification, progression, discontinuation, and discharge considering various environmental factors.
	C11. Modify plan of care according to the outcomes of periodical evaluation and update goals, expected outcomes, and the expected time needed to achieve the outcomes considering the available



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National Academic Reference Standards (NARS)	Program's ILO's
	resources.
3.8. Acknowledge cross-professional boundaries and limitations.	C13. Demonstrate continuum of professional behavior and avoid the consequences of boundary crossings, violations to prevent professional misconduct.
3.9. Employ appropriate referral procedures.	C14. Determine if patients need further examination or consultation from other physical therapist or need referral to other health care professional according to outcomes assessment.
3.10. Cope with his/her own emotional reactions in different situation.	C16. Show professional attitude through controlling emotional reactions and responding effectively to different patients and care givers attitudes as well as any environmental emergencies.
1. General Skills The award holder must be able to practice the following skills	D. General Skills Upon completion of the program, the graduate will be able to



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National Academic Reference Standards (NARS)	Program's ILO's
4.1. Demonstrate competence in the use of computer based information.	D1. Use of computer based technology and internet as a source of information, knowledge processing, interpreting information and effective communications.
4.2. Manage time, personal emotion stress, and prioritize workloads.	D2. Manage and prioritize workload and time effectively.
4.3. Display the potential for leadership and team skills.	D3. Demonstrate effective managerial and leadership skills to influence behavior of the team towards the attainment of goals and objectives.
4.4. Comply with infection control principles and sterile procedures.	D4. Apply effective practices that minimize the risk of transmission of infections.
4.5. Enhance personal and rapport with patients and family members.	D5. Demonstrate compassion, caring, integrity, and respect for differences, values, and preferences in all interactions with patients/clients, family members, health care providers, students, other consumers, and payers.



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National Academic Reference Standards (NARS)	Program's ILO's
4.6. Teach patients, families and significant others to perform or assist with selected physical therapy procedures.	D6. Implement effectively appropriate teaching strategies of patients, families, peers, students and community to achieve the planned treatment goals.
4.7. Respond appropriately to individual and cultural differences in all aspects of physical therapy services.	D7. Respect diversity and difference, including but not limited to the impact of gender, religion and cultural beliefs on decision-making.
4.8. Communicate verbally and non-verbally with patient health care delivery personnel and others in an effective, appropriate and capable manner.	D8. Express thoughts and ideas effectively and proficiently in verbal and written forms using English and Arabic and/or any relevant language in formal and informal venues.



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Appendix 3

Matrix of the Program's ILO's with the program Courses

[illegible]

[illegible]



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Appendix 4

Matrix of vision and mission with program aims

رسالة الكلية

تلتزم كلية العلاج الطبيعي بجامعة مصر للعلوم و التكنولوجيا باعداد خريجين علاج طبيعي قادرين على تلبية إحتياجات سوق العمل المحلي و باحثين قادرين على اجراء ابحاث علميه تسهم في تطوير المهنة و تدعم خدمة المجتمع وتنمية البيئه المحيطة في إطار القيم و العادات الأخلاقية.

Program's Aims	تعليمية اعداد خريجين علاج طبيعي قادرين على تلبية إحتياجات سوق العمل المحلي	بحثية باحثين قادرين على اجراء ابحاث علميه	مجتمعية اجراء ابحاث علميه تسهم في تطوير المهنة و تدعم خدمة المجتمع في إطار القيم و العادات الأخلاقية.
1/1. Collaborate with other health professionals to optimize patients' quality of life and health through restoring, maintaining, and promoting different body functions.	×		
1/2. Apply the elements of the patient's screening and examination to diagnose the subjects from physical therapy points of view.	×		
1/3. Monitor and document patient response to physiotherapy intervention and make decisions about the need to re-evaluation, referral, discharge, or consultation.	×		
1/4. Adhere to the universal protective measures, infection control guidelines and other sterile procedures for promotion of health and safety of self and others.	×		
1/5. Create a personalized physical therapy (intervention) plan to improve mobility, to recover from injury, and prevent future injury and chronic disease.	×		
1/6 Exhibit care and compassion and professional ethical behavior during all communications with patients or care givers as well as keeping their privacy and confidentiality.	×		
1/7. Provide professional and respectful communication with all related personnel to promote optimum interdisciplinary patient centered care		×	×
1/8. Develop the skills needed for self-learning and continuing professional development to be competent in physical therapy profession.	×		
1/9. Show competent practice in clinical research for safe and evidence-based physical therapy practice.		×	
1/10. Acquire the skills needed for effective patient education to become responsible for their own health care by taking an active part in the treatment process to improve patient's treatment outcomes.	×		×