



REPUBLIC OF YEMEN

Ministry of Education and Scientific Research

21 September University of Applied Medical Sciences

Faculty of Applied Medical Sciences

DEPARTMENT OF PHYSIOTHERAPY
BACHELOR OF SCIENCE/ PHYSIOTHERAPY
BSC/PHYS

Preparation Committee:

1. Assoc Prof Dr. Khaled Al-Sayani
2. Assoc Prof Dr. Abdul Salam Dallaq
3. Assis Prof Dr. Fares Mahdi



1. Program Identification and General Information:		
1	Scientific name of the program:	Physical Therapy program
2	Total credit hours required to award the degree	152 Credit Hours
3	Number of years needed for completion of the program:	4 Years [8 Academic semesters] + [1 semesters (Summer Training)]
4	The body responsible for granting the degree:	21 September University - for Medical and Applied Sciences
5	The body responsible for the program:	Department of Physical Therapy Faculty of Applied Science
6	Award granted on completion of the program:	Bachelor of SCIENCE/ PHYSIOTHERAPY BSC/PHYS
7	Study system:	Regular attendance (Semester based System)
8	Study Language of the Program:	English
9	Entry requirements:	Secondary School Certificate (Scientific)
10	Departments participating in the program:	Non
11	Starting year of the program:	2025
12	Study methods in the program:	Full time
13	Location of Delivery:	21 September University - for medical and Applied Sciences campus
14	The program resources:	21 September University - for Medical and Applied Sciences
15	Minimum grade requirements:	Following the Admission Rules made by Ministry of Higher Education and Scientific Research- Republic of Yemen.
16	Other admission requirements:	21 September University Admission and Regulations Rules.
17	Date of current development of the program:	2025
18	Prepared by:	Preparation Committee: 1. Assoc Prof Dr. Khaled Al-Sayani 2. Assoc Prof Dr. Abdul Salam Dallaq 3. Assoc Prof Dr. Fawzi Mahdi



Introduction



The Bachelor of Physical Therapy is a comprehensive academic and professional program designed to prepare qualified professionals in diagnosing and treating movement disorders and physical dysfunctions resulting from injuries or diseases affecting various body systems, such as the musculoskeletal, neurological, and cardiopulmonary systems. The program comprises 152 credit hours, encompassing both theoretical and practical courses. It covers diverse areas, including kinesiology, anatomy, physiology, clinical assessment, manual therapy techniques, and motor rehabilitation. Additionally, students engage in intensive clinical training across various healthcare facilities. The program emphasizes the development of critical thinking, scientific research, effective communication, teamwork, and adherence to ethical and professional standards.

Study Duration The program spans four academic years, followed by a mandatory one-year internship (clinical training) in accredited healthcare institutions, totaling five years of stud



University Vision, Mission, Values



University vision:

A contemporary University with National Responsibility and a Faith Identity.

University mission:

Leading the transformation in the management and delivery of health care with all partners by setting a standard of excellence in education and medical and applied research in a way that meets the needs of Yemeni society, its specificity and regional influence.

University Core values:

Leadership and influence

Excellence

Creativity

Teamwork



University Strategic goals

- 1. Ensuring the application of quality standards and setting standards of excellence in medical and applied sciences, scientific research and community service.**
- 2. The centrality of the student in the educational process, the partnership with them for life, the consolidation of the principles of national responsibility and faith identity, their care and the development of their capabilities after graduation and during work.**
- 3. Attracting, employing and retaining scholars, cadres and highly specialized talents to gain minds and reverse the trend of “brain drain” in a way that promotes and ensures the creation of thinkers, businessmen and good citizens.**
- 4. Continuous development of the distinguished academic infrastructure and the establishment of modern research and service centers with high efficiency and capable of making a real impact locally and regionally.**
- 5. Enhancing the university’s position as a preferred partner for local, regional and international partnership through implementing innovative models of education, exchanging research and knowledge, and providing real and effective outcomes for developing professional practices to benefit from them locally and regionally.**



Faculty Vision, Mission, Values

Vision:

A contemporary college in the field of applied medical sciences and scientific research with national responsibility and faith identity

Mission:

Participate in leading the transformation for the better in providing high-quality diagnostic and health care services according to the latest techniques and contemporary technology through excellence in research and applied medical education to meet the needs of Yemeni society with its specificity and regional influence.

Values:

- Respect and Appreciation**
- 2. Commitment and professionalism**
- 3. Loyalty**
- 4. Transparency and Accountability**
- 5. Social Responsibility**
- 6. National Identity**



Faculty Objectives (Educational)



- 1. Preparing a graduate who is able to interact positively with the problems of society.**
- 2. Providing the student with modern skills and providing him with a culture of self-reliance in renewal, development and innovation.**
- 3. Attracting and retaining distinguished faculty members.**
- 4. Providing a stimulating environment for teaching and learning.**
- 5. . Ensuring a high-quality educational and training level through which the graduate gains basic academic knowledge and scientific and clinical applications in line with the needs of the labor market.**
- 6. Creating postgraduate programs, enhancing scientific research and working to develop the capabilities of faculty members to be familiar with everything new in the educational process.**



Program Mission

The mission of the bachelor in physical therapy program is “to prepare competent physical therapists contributing in health services and scientific research for the purpose of community development”.



Program Objectives



- 1- Introducing a high-quality education in the field of physical therapy within an attractive academic environment.**
- 2. Providing the essential knowledge, skills, and values for long-life professional development in physical therapy.**
- 3. Promoting basic research skills contributing to the creativity in the practice of physical therapy profession.**
- 4. Generating effective partnership with the community within different physical therapy disciplines enhancing the social awareness of the profession.**



Program Standards

A. Academic Standards:

- 1- Council for Accreditation of Quality Assurance Standards, Yemen Republic
- 2- National Academic Reference Standards (NARS) for Undergraduate Medical Education Programs,
- 3-World Federation for Medical Education (WFME).

B. Strategies :-

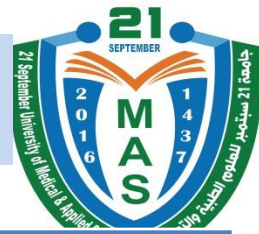
- 1-University Strategy .
- 2-Faculty Strategy .

C. Rules and Regulation :-

- 1-Higher Education rules
- 2-Private Education Laws
- 3-Student affairs regulation.



Program Benchmarks



NR	University	Country	Resources
1	Sana,a university	Yemen	https://su.edu.ye/chm/en/physiotherapy-program/
2	Saud-College of Applied Medical Sciences	SK	https://cams.ksu.edu.sa/en
3	Sharjah University	UAE	https://www.sharjah.ac.ae/en/academics
4	Noida International University	India	https://niu.edu.in/



Graduate Attributes



Upon successful completion of an undergraduate medicine program, graduates will be able to:

- 1.They have a deep knowledge of the concepts, terminology, and theories of physical therapy and rehabilitation.**
- 2.They have the ability to: communicate effectively in Arabic and English in both academic and professional settings.**
- 3.They can work effectively in a team environment, build teams, exert positive influence, and demonstrate project management skills.**
- 4.They have a strong understanding of ethical, social, cultural, and environmental issues related to their specializations.**
- 5.They have a desire to be lifelong learners.**
- 6.They are open-minded, curious, and willing to investigate and explore new knowledge and ways of thinking.**
- 7.They are committed to continuous professional development, personal growth, and enhancement.**
- 8.They have the ability to conduct original and distinguished scientific research in the field of physical therapy..**



Program Intended Learning Outcomes (PILOs)



A. KNOWLEDGE AND UNDERSTANDING:

Upon successful completion of an undergraduate medical education program, the graduates will be able to:

A1. Recognize anatomical, physiological, and mechanical bases of human movement and basic concepts of scientific research and ethics

A2. Identify the pathology and clinical presentation of various functional disabilities that require physical therapy intervention

A3. Describe the principles of physical therapy interventions and its relation to pharmacologic and supportive rehabilitation specialties



Program Intended Learning Outcomes (PILOs)



B. COGNITIVE/INTELLECTUAL SKILL

Upon successful completion of an undergraduate medical education program, the graduates will be able to:

B1- Analyze the human motion and patient's functional disabilities within physical therapy perspective

B2- Develop critical thinking necessary for interpretation of patient's physical and functional assessment findings

B3- Design a proper physical therapy program based on patient's disabilities and prognosis

B4- Justify indications for, and proper use of



Program Intended Learning Outcomes (PILOs)

C. PRACTICAL AND PROFESSIONAL SKILLS:

Upon successful completion of an undergraduate medical education program, the graduates will be able to:

C1- Apply physical therapy assessment and intervention tasks properly, safely, and independently

C2- Assess structural, functional impairments, compare performance and capacity through clinical examination and risk evaluation, prioritize goals, recommend Physiotherapy treatment and carry out independent consultation with a patient

C3- Design and manage a specific physical therapy Plan of care



Program Intended Learning Outcomes (PILOs)



D. GENERAL / TRANSFERABLE SKILLS:

Upon successful completion of an undergraduate medical education program, the graduates will be able to:

D1- Commit to the Islamic, ethical, professional standards and administrative aspect during physical therapy practice.

D2- Interact effectively with colleagues, patients, and health team in a responsible manner.

D3- Adapt self-learning and physical therapy evidence-based practice.

D4- Participate in the development of physical therapy profession and the health of the society.



Teaching and Learning Strategies

- **Interactive lectures.**
- **Seminars.**
- **Practical session.**
- **Clinical Training.**
- **Discussion.**
- **Self-learning.**
- **Presentation.**
- **Case Based Learning (CBL).**
- **Problem Based Learning (PBL).**



Assessment Methods



- **Written exam (mid and final terms and quiz**
- **practical exam.**
- **Clinical exam.**
- **OSCE.**
- **oral exam.**
- **Research.**
- **Homework.**
- **Team work.**
- **Log Book .**
- **Case discussion.**
- **Internship.**



Program Structure



No	Requirements	Type	No. of Courses	Credit Hours	Rational Weight %
1	University Requirements	Compulsory	8	17	11.2%
2	Faculty Requirements	Compulsory	17	38	25%
3	Program Requirements	Compulsory	35	97	63.8%
Total:			60	152	100%



Study Plan

Level: 1



1st Semester

Course Code	Subject Name	Credit Hours
UIS 111	Islamic Culture	2
UEN 112	English Language (101)	2
UAR 113	Arabic Languages 101	2
AMS 111	Anatomy and histology (1)	3
AMS 112	biochemistry	2
AMS 113	medical terminology	2
AMS 114	Medical ethics	2
AMS 115	Fundamental of Nursing 1	3



Study Plan

Level: 1



2nd Semester

Course Code	Subject Name	Credit Hours
UEN 121	English Language (102)	2
UNC 122	National Culture	2
UIT 123	Computer Skills	3
UAR 124	Arabic Languages (102)	2
UAR 125	arabic israeli conflict	2
AMS 121	Communication Skills	2
AMS 122	Physiology	2
AMS 123	Anatomy and histology 2	3
AMS 124	Fundamental of Nursing 2	3
PHY 121	Introduction to the physiotherapy	2
Total		23



Study Plan

Level: 2



1st Semester

Course Code	Subject Name	Credit Hours
AMS 211	Fundamental of Infection Control	2
AMS 212	Basic Pharmacology	2
AMS 213	Microbiology and Parasitology	2
PHY ٢١١	Biomechanics and kinesiology 1	2
PHY ٢١٢	Therapeutic exercise 1	3
PHY ٢١٣	Therapeutic modalities 1	3
PHY ٢١٤	Medical physics	2
PHY ٢١٥	Functional anatomy	2
Total		18



Study Plan

Level: 2



2nd Semester

Course Code	Subject Name	Credit Hours
AMS 221	Basic Pathology	2
AMS 222	Basic Pharmacology	2
AMS 223	Psychology	2
AMS 224	Biostatistics	2
PHY ٢٢١	Therapeutic exercise 2	3
PHY ٢٢٢	Biomechanics and kinesiology 2	2
PHY ٢٢٣	Manual therapy	3
PHY 224	Therapeutic modalities ٢	3
PHY ٢٢5	Evaluation and measurement	3



Study Plan

Level: 3



1st Semester

Course Code	Subject Name	Credit Hours
PHY 311	Clinical cardio-pulmonary	2
PHY 312	Clinical for Musculoskeletal condition	2
PHY 313	Internal Medicine	2
PHY 314	Physiotherapy in cardio-pulmonary conditions	4
PHY 315	Physiotherapy in Musculoskeletal conditions 1	4
PHY 316	Neuroscience	2
PHY 317	Radiology	2



Study Plan

Level: 3



2nd Semester

Course Code	Subject Name	Credit Hours
PHY 321	Physiotherapy in neurology ١	4
PHY 322	Physiotherapy in sport injury	4
PHY 323	Clinical medical and surgical conditions	2
PHY 324	Physiotherapy in Musculoskeletal conditions 2	4
PHY 325	Clinical pediatrics	2
AMS ٣٢١	Research Methods	2
Total		18



Study Plan

Level: 4



1st Semester

Course Code	Subject Name	Credit Hours
PHY 411	Physiotherapy in pediatric	4
PHY 412	Physiotherapy for Surgery and burns conditions	4
PHY 413	Physiotherapy in neurology ^٢	4
PHY 414	Prosthetic and orthotic	2
PHY 415	Ergonomics	2
PHY 416	Occupational Therapy	2
Total		18



Study Plan

Level: 4



2nd Semester

Course Code	Subject Name	Credit Hours
PHY٤٢١	Research project	2
PHY٤٢٢	Evidence base practice	2
PHY٤٢٣	Leadership and management	2
PHY٤24	Physiotherapy in geriatrics	4
PHY٤25	PT for obstetrics and gynecology	4
PHY 426	Physiotherapy for internal medicine	3
Total		17

شكراً لأصفائكم
أعداد الدكتور / فضل محمد
شجاع الدين