



Republic of Iraq

Ministry of Higher Education & Scientific Research
Supervision and Scientific Evaluation

Directorate Quality Assurance and Academic
Accreditation



colleges and institutes Academic program description form

University: Northern Technical University
College/Institute: Health and Medical Technical College/Al-Dour
Scientific Department: Physical therapy techniques
Date of filling the file: 1/7/2024

signature:

Name of Department Head:

Dr. Louay Manna Ibrahim

Date: **2024/1/7**

signature:

Name of scientific assistant:

Dr. Abeer Talib Abdul Qader

Date: **2024/1/7**

Check the file before

Division of Quality Assurance and University Performance

Name of the Director of the Quality Assurance and University

Performance Division: Nada Wahab Ahmed

Date: 2024/1/7

:signature

Dean`s endorsement
Dr. Maqsood Adil Mahmood

Description of the academic program

This academic program description provides a summary of the most important characteristics of the program and the learning outcomes that the student is expected to achieve, demonstrating whether he or she has made the most of the opportunities available. It is accompanied by a description of each course within the program

| | |
|---|--|
| Health Northern Technical University / College of Al-Dur / and Medical Technology | <ul style="list-style-type: none"> • Educational institution |
| Physical Therapy Techniques | <ul style="list-style-type: none"> • Scientific department/center |
| Physical therapy techniques | <ul style="list-style-type: none"> • Name of the academic or professional program |
| Bachelor of Technology Physical therapist | <ul style="list-style-type: none"> • Name of the final certificate |
| Courses | <ul style="list-style-type: none"> • : system Annual/courses/others |
| Program of the Ministry of Higher Education and Scientific Research | <ul style="list-style-type: none"> • Accredited accreditation program |
| Practical training in state institutions, conferences and seminars | <ul style="list-style-type: none"> • Other external influences |
| 2024/7/1 | <ul style="list-style-type: none"> • Date the description was prepared |
| <ul style="list-style-type: none"> • Objectives of the academic program | |
| <ul style="list-style-type: none"> • The college's study aims to prepare a generation of graduates who have the ability to keep pace with development in the field of specialization and who have the ability and competence to provide services in institutions of the public and private sectors and in a way that serves the community and its individuals, in addition to building their personalities, considering that they are in an advanced stage that differs from the preparatory stage because it is the education stage. Higher construction stage And the .composition | |
| <ul style="list-style-type: none"> • Required program outcomes and teaching, learning and evaluation methods | |

● **Cognitive objectives**

A.1 . Qualifying the student to apply knowledge in the medical fields in general and the field of physical therapy techniques in particular

a . 2 . The student's knowledge of the professional and ethical principles and responsibilities of the field of specialization

a . 3 . Identify the priorities of laboratory machines, equipment, and workshops in the field of specialization

A4 . The student learns the main principles of how to deal with injured patients, whether in terms of the need for rehabilitation or physical therapy in all its branches

B. Skills objectives of the programme

The ability to work and integrate into multidisciplinary teams, whether .B 1 .for rehabilitation or physical therapy

B 2 . Providing medical services to sick citizens through consulting clinics in all its branches, which are managed by specialists and with the assistance of the technical staff of the department's graduates

B 3 . Preparing students to use modern techniques, skills and specialized tools in the field of physical therapy techniques

B.4 The ability to identify and formulate medical problems in the field of specialization

Teaching and learning methods

**/ Theoretical lectures / practical lectures / field visits / discussion circles)
(solving examples / graduation project / summer training**

Evaluation methods

/ Daily tests / quarterly exams - final exams / weekly reports within the subject seminars within the academic subjects, discussions and conversations during . the lesson

.C. Emotional and value goals

C1 . The ability to communicate effectively with those involved in the field of specialization

.C2 . Recognizing the need and ability to engage in lifelong education

. C3 . Knowledge of contemporary issues in the field of specialization

C4 . The broad education necessary to understand solutions at the global level and to economic, environmental, and social problems to provide health institutions with the specializations they need in rehabilitation and treatment .of patients in specialized hospitals and consulting clinics

Teaching and learning methods

/ Theoretical lectures / discussion and dialogue / practical lectures / field visits)
 / discussion circles / laboratories / office activities / solving examples
 .(graduation project / summer training

Evaluation methods

**Oral exams / written exams / observation / student's cumulative)
 (record**

**Dr . Transferable general and qualifying skills (other skills related to
 .(employability and personal development
 . D1 . Cooperation skills and teamwork
 .D2 . Computer typing skills
 .D3- Communication skills in English
 .D4 . Ability to perform work and solve problems
 .D5 . Skills for conducting incidents on the Internet**

Teaching and learning methods

**,(In-person learning), summer and vocational training, graduation projects
 and graduate lessons in computing and communication laboratories**

Evaluation methods

**Conducting daily, quarterly and final tests , submitting reports Weekly tests, in
 addition to oral tests that express the ability to speak and communicate with
 . others using modern dialogue techniques**

• Program structure

| Credit hours | | Name of the course or course | Course or course code | Educational level |
|--------------|-------------|-------------------------------|-----------------------|-------------------|
| practical | theoretical | | | |
| | 2 | Human rights and democracy | NTU100 | The first |
| | 2 | English | NTU101 | The first |
| 1 | 1 | the computer | NTU102 | The first |
| | 2 | Arabic | NTU103 | The first |
| 1 | 1 | physical education | NTU104 | The first |
| 4 | 2 | Principles of medical biology | MTCD101 | The first |
| 4 | 2 | Medical microbiology | MTCD102 | The first |

| | | | | |
|------|------|---------------------------------------|--------|------------|
| | 2 | Biomechanics | PTT101 | The first |
| | 2 | Kinesiology | PTT102 | The first |
| 3 | 2 | Fundamentals of nursing and first aid | PTT103 | The first |
| 4 | 2 | Introduction to physical therapy | PTT104 | The first |
| 4 | 2 | Principles of physiology | PTT105 | The first |
| 4 | 2 | Human physiology | PTT106 | The first |
| 4 | 2 | Basics of anatomy | PTT107 | The first |
| 4 | 2 | Clinical biochemistry | PTT108 | The first |
| 4 | 2 | Medical physics | PTT109 | The first |
| ---- | ---- | ---- | ---- | the second |
| ---- | ---- | ---- | ---- | Third |
| ---- | ---- | ---- | ---- | Fourth |

- **Planning for personal development**
- **.Developmental and qualification courses to work in specialized centers**
- **Training courses to work on the physical therapy device with advanced .staff**
- **Conducting scientific studies and research specialized in the field of .physical therapy**
- **. Attending specialized scientific seminars**
- **Correspondence and self-education**
- **Admission standard (establishing regulations related to admission to the (college or institute**
- **Scientific section**
- **the average**
- **The most important sources of information about the program**
- **.Methodical books**
- **. Additional sources such as the digital library and Internet sources**
- **Specialized scientific articles**
- **The library inside the college**
- **scientific messages**

قسم تقنيات العلاج الطبيعي

المستوى الأول المحدث للعام الدراسي 2024-2023

حسب كتاب وزارة التعليم العالي والبحث العلمي / دائرة الدراسات والتخطيط

/قسم الدراسات والتخطيط ذي العدد ت م 3/4524 في 14/8/2023

وكتاب الجامعة التقنية الشمالية قسم الشؤون العلمية ذي العدد 7/2/10555 في

23/10/2023 وكتاب الجامعة التقنية الشمالية /قسم الدراسات والتخطيط ذي

العدد 7/2/11748 في 14/11/2023 وكتاب الجامعة التقنية الشمالية قسم

الدراسات والتخطيط ذي العدد 7/2/12398 في 29/11/2023

Study plan for the Department of Physical Therapy Technologies for the academic year 2023-2024

| Section: Physical therapy technique | | Medical Technical College role | | | | Northern Technical University | |
|-------------------------------------|--------------------------|--------------------------------|-----------------|---------------------------|-----------------------------|--|------------------------------------|
| level one | | | | | | | |
| code | Grader, if any | Semester | number of units | Number of practical hours | Number of theoretical hours | Course Name | Requirement type |
| | | | | | | In English | |
| NTU101 | | F2 | 2 | 0 | 2 | English Language | |
| NTU112 | One material is selected | | 2 | 0 | 2 | French Language | |
| NTU113 | | F1 | | 1 | 1 | Sports | |
| 10.8% | The ratio | | 4 | 1 | 5 | Total university units | |
| <hr/> | | | | | | | |
| MTCD 101 | | F1 | 2 | 2 | 1 | Computer principles | College requirements |
| MTCD 102 | | F1 | 1 | - | 1 | Human rights and democracy | |
| MTCD 103 | | F2 | 2 | - | 2 | Arabic Language | |
| 13.5% | The ratio | | 5 | 2 | 4 | Total college units | |
| <hr/> | | | | | | | |
| PTT 101 | | F1 | 2 | - | 2 | Biomechanics | Scientific department requirements |
| PTT 102 | | F2 | 2 | - | 2 | kinesiology | |
| PTT 103 | | F1 | 3 | 3 | 2 | Principle of Medical Biology | |
| PTT 104 | | F2 | 3 | 3 | 2 | Medical Microbiology | |
| PTT 105 | | F1 | 3 | 3 | 2 | Basic nursing and first aids | |
| PTT 106 | | F2 | 3 | 3 | 2 | introduction to physical therapy | |
| PTT 107 | | F1 | 3 | 3 | 2 | Human physiology | |
| PTT 108 | | F2 | 3 | 3 | 2 | Basics of anatomy | |
| PTT 109 | | F1 | 3 | 3 | 2 | Clinical biochemistry | |
| PTT 110 | | F2 | 3 | 3 | 2 | Medical physics | |
| 75.7% | The ratio | | 28 | 24 | 20 | Total units of the scientific department | |
| <hr/> | | | | | | | |
| | | | 37 | | | Total units of the first level | |

(2023-2024) Study plan for the year

| Action: Physical therapy technique | | Medical Technical College role | | | | Northern Technical University | |
|------------------------------------|----------------|--------------------------------|-----------------|---------------------------|-----------------------------|---|-------------------------------------|
| Second Level | | | | | | | |
| code | Grader, if any | Semester | number of units | Number of practical hours | Number of theoretical hours | Course Name | Requirement type |
| | | | | | | In English | |
| NTU200 | | | 2 | 0 | 2 | English Language | University requirements |
| | | | 2 | 0 | 2 | Baath Party crimes | |
| 10.0% | The ratio | | 4 | 0 | 4 | Total university units | |
| MTCD201 | | | 2 | - | 2 | Medical psychology | College requirements |
| MTCD202 | | | 3 | 2 | 2 | Metabolism | |
| MTCD203 | | | 3 | 2 | 2 | Biostatistics | |
| MTCD204 | | | Satisfied | | | summer training | |
| 20.0% | The ratio | | 8 | 4 | 6 | Total college units | |
| PTT201 | | | 3 | 3 | 2 | Basic of Therapeutic Exercises | Department specialized requirements |
| PTT202 | | | 3 | 3 | 2 | Advanced therapeutic exercises | |
| PTT203 | | | 3 | 3 | 2 | Physiotherapy for general surgery | |
| PTT204 | | | 3 | 3 | 2 | Physical therapy for diseases of the nervous system | |
| PTT205 | | | 3 | 3 | 2 | Primary therapeutic equipment | |
| PTT206 | | | 3 | 3 | 2 | Specialized treatment devices | |
| PTT207 | | | 2 | - | 2 | Pathology | |
| PTT208 | | | 2 | - | 2 | pharmacology | |
| PTT209 | | | 3 | 3 | 2 | Physiotherapy for Orthopedics | |
| PTT210 | | | 3 | 3 | 2 | Human anatomy | |
| 70.0% | The ratio | | 28 | 24 | 20 | Total units of the scientific department | |
| | | | 40 | | | Total second level units | |

(2023-2024) Study plan for the year

Department: Physical therapy technique Medical Technical College role Northern Technical University

The third level

| code | Grader, if any | Semester | number of units | Number of practical hours | Number of theoretical hours | Course Name | Requirement type |
|---------|----------------|----------|-----------------|---------------------------|-----------------------------|--|-------------------------------------|
| | | | | | | In English | |
| NTU300 | | | 2 | - | 2 | English Language | University requirements |
| NTU301 | | | 2 | - | 2 | English Language | |
| 10.5% | The ratio | | 4 | 0 | 4 | Total university units | |
| MTCD301 | | | 2 | 2 | 1 | computer applications | College requirements |
| MTCD302 | | | 2 | - | 2 | Safety in laboratories | |
| MTCD303 | | | 2 | - | 2 | Medical research methods | |
| MTCD304 | | | Satisfied | | | summer training | |
| 15.8% | The ratio | | 6 | 2 | 5 | Total college units | the total |
| PTT301 | | | 3 | 3 | 2 | Physiotherapy for Medical Diseases | Department specialized requirements |
| PTT302 | | | 3 | 3 | 2 | Physiotherapy for advanced surgery | |
| PTT303 | | | 3 | 3 | 2 | Basic Physiotherapy for Neurological Diseases | |
| PTT304 | | | 3 | 3 | 2 | Physiotherapy for Spinal Cord Injuries | |
| PTT305 | | | 3 | 3 | 2 | Physical therapy for diseases of the skeletal system | |
| PTT306 | | | 3 | 3 | 2 | Physiotherapy for Sport Injuries | |
| PTT307 | | | 2 | 3 | 1 | Prostheses and Orthotics | |
| PTT308 | | | 2 | 3 | 1 | Amputee rehabilitation | |
| PTT309 | | | 3 | 3 | 2 | Therapeutic exercises | |
| PTT310 | | | 3 | 3 | 2 | Therapeutic equipment | |
| 73.7% | The ratio | | 28 | 30 | 18 | Total units of the scientific department | |
| | | | 38 | | | Total third level units | |

(2023-2024) Study plan for the year

Department: Physical therapy technique Medical Technical College role Northern Technical University

fourth level

| code | Grader, if any | Semester | number | Number of practical | Number of theoretical | Course Name | Requirement |
|------|----------------|----------|--------|---------------------|-----------------------|-------------|-------------|
|------|----------------|----------|--------|---------------------|-----------------------|-------------|-------------|

| Code | any | r | of units | practical hours | theoretical hours | In English | ment type |
|---------|--------------------------|---|----------|-----------------|-------------------|---|--|
| NTU400 | | | 2 | - | 2 | English Language 4 | University requirements (cognitive requirements) |
| NTU401 | | | 2 | - | 2 | Scientific research methodology | |
| 10.8% | The ratio | | 4 | 0 | 4 | Total university units | |
| MTCD401 | | | 2 | - | 2 | Professional behaviour | College requirements |
| MTCD402 | One material is selected | | 2 | - | 2 | Preventive and social medicine | |
| MTCD403 | | | | - | 2 | Serology and Vaccines | |
| MTCD404 | | | 4 | - | - | Graduation Project | |
| 21.6% | The ratio | | 8 | 0 | 6 | Total college units | |
| PTT401 | | | 3 | 3 | 2 | Physiotherapy for Neurological Diseases | Department specialized requirements |
| PTT402 | | | 3 | 3 | 2 | Advance Physiotherapy for Neurological Diseases | |
| PTT403 | | | 3 | 3 | 2 | Physiotherapy for Growth and Development of Pediatric | |
| PTT404 | | | 3 | 3 | 2 | Physiotherapy for Pediatric Diseases | |
| PTT405 | | | 2 | - | 2 | Radiology and Diagnostic Imaging for physiotherapy | |
| PTT406 | | | 3 | 3 | 2 | Physiotherapy for Cardiopulmonary Diseases | |
| PTT407 | | | 2 | 4 | - | Workshop Therapeutic Exercises | |
| PTT408 | | | 3 | 3 | 2 | Hearing and Speech Rehabilitation | |
| PTT409 | | | 3 | 3 | 2 | Health Psychology | |
| 68% | The ratio | | 25 | 25 | 16 | Total units of the scientific department | |
| | | | 37 | | | Total units of the fourth level | |
| | | | 152 | | | The total number of units for all levels | |

Curriculum skills chart

Please tick the boxes corresponding to the individual learning outcomes from the program being assessed

Learning outcomes required from the programme

| Transferable general and qualifying skills (other skills related to employability and personal development) | | | | Emotional and value goals | | | | Skills objectives of the programme | | | | Cognitive objectives | | | | Basic Or optional | Course Name | Course Code | Year/level |
|---|---|----|----|---------------------------|--|----|---|------------------------------------|---|--|----|----------------------|----|---|-----------|-------------------|---------------------|------------------|------------------|
| | | | | | | | | | | | | | | | | | | | |
| A | | | Kh | Kh | | s | n | Kh | K | | n | | | | n | Basic | human rights | | The first stage |
| T | | n | | T | | T | | | s | | n | | | | n | Basic | English | | |
| T | | A | | | | A | | n | | | Kh | | K | | n | Basic | Microscopic revival | | The second phase |
| K | | Kh | | n | | | | | | | | A | K | n | Basic | calculator | | | |
| | n | | | | | Kh | | T | | | s | | | K | n | Basic | medical terminology | | third level |
| | A | | | n | | | | A | | | K | | A | n | Basic | General chemistry | | | |
| M | n | | | | | | | Kh | | | K | | Kh | n | Basic | Tissue | | The fourth stage | |
| M | | | | | | | | | | | | K | Kh | n | assistant | Human physiology | | | |

**/K/ Book N/ Theoretical T/ Report S/ Seminar M/ Project P
Practical**