



Quality Assurance Unit



Tanta University
Faculty of Medicine

Department of Physical Medicine, Rheumatology & rehabilitation

Course Specifications

Physical Medicine, Rehabilitation, Electro diagnosis & Orthotics & Prostheses for Physical Medicine, Rheumatology & Rehabilitation. diploma degree

2015-2016

Physical Medicine & electrodiagnosis & Orthotics & Prostheses for Physical Medicine,
Rheumatology & rehabilitation diploma degree: Course Specifications

University: Tanta Faculty: Medicine Department: Physical Medicine

A- Administrative Information

- 1. course title: Diploma Physical Medicine, Rheumatology & rehabilitation**
- 2. Department offering the program: Physical Medicine, Rheumatology & rehabilitation**
- 3. Department responsible for the course: Physical Medicine, Rheumatology & rehabilitation**
- 4. Course code: PRR 7006 physi-med**
- 5. Level: second part/semester D**
- 6. No. of Credit / taught hours: 6 credit hours**
- 7. Authorization date of course specification: 8/11/2015**

B- Professional Information

1 – Overall program aims:

The goals of this program is making candidate qualified as a searcher and specialist in the field of Rheumatology and Rehabilitation to make a proper diagnosis of different rheumatology disorders and rehabilitation problems on the basis of adequate history, physical examination and interpretation of supportive investigation, perceive and integrate progress in rheumatology and rehabilitation and maintain and improve his standards of knowledge and self education.

2 – Intended learning outcomes (ILOs):

a-knowledge and understanding:

By the end of the course graduate should be able to :

a.1-Describe the theories and principles, and up dates in electrodiagnosis, physical medicine , orthotics and prosthesis related sciences needed in his career.

a.2-Define the principles, methods, ethics, and various tools of medical researches.

a.3- Describe the ethical and legal principles of medical and professional practice

a.4- Discuss basic principles of rehabilitation medicine, impairments, disability and handicapping

A.5-Discuss basics of health and patient's safety and safety procedures during practice.

a.6- Identify the principles of quality assurance in medical practice

a.7- Identify the effect of medical practice on surrounding environment ,and how to develop and protect environment

a.8- Demonstrate knowledge and productivity in electrodiagnosis science

b-intellectual skills

By the end of the course, graduates should be able to:

b.1- Integrate basic science of anatomy, pathology, immunology and physiology of connective tissue, bone, joint and muscle .

- b.2- Choose pharmacology, pharmacokinetics, including drug metabolism, adverse effects, and interactions.
- b.3- Interpreting electromyography and nerve conduction studies.
- b.4- Apply physical medicine and design rehabilitation program in patients with rheumatic, neurological, orthopedic and other medical disorders.
- b.5- Evaluate, manage and construct rehabilitation of exercise-related illness(sport).
- b.6- Recognize indications, describe, prescribe and evaluate orthoses and prostheses of different parts of the body.
- b.7- Organize medical research to add new to electrodiagnosis and physical medicine rehabilitation.

c. Professional and practical skills:

By the end of the course, the candidate will be able to:

- c.1- Examine patients, to include a specific examination of structure and function of all joints, both axial and peripheral, as well as particular structure and muscle units.
- c.2-Apply and interpret bone and joint imaging techniques
- c.3-Apply and interpret bone density measurement
- c.4- Use nonsteroidal anti-inflammatory drugs, muscle relaxants, and all antispasticity drugs.
- c.5-Write a professional medical report related to electrodiagnosis and orthotics & prosthesis.
- c.6- Perform research and practice in electrodiagnosis science.
- c.7-Select the research methods relevant to electrodiagnosis science.

d. General and transferable skills (attitude and communication):

.By the end of the course, the candidate will be able to:

- d.1-Communicate effectively with his colleagues and patients
- d.2- Teach others and evaluate them.
- d.3- Apply self evaluation and specify his medical educational needs , and Perform continuous medical education.
- d.4-use different learning resources to get knowledge and information.
- d.5- practice team working ,and lead a team in specified professional job.
- d.6- Manage scientific seminars , with good time management and develop their communicative abilities within the various formats of presentations.
- d.7-Take a leadership role in preparing a grant application in rehabilitation
- d.8-Design and deliver scholarly presentations and facilitate effective discussions

3-Course contents

Topics	No. of credit hours	
	theoretical	practical
Rehabilitation of rheumatic diseases, Electrodiagnosis & Orthotics & Prostheses	4	2

Topics	No. of hours			
	lecture	tutorial	Clinical	Self directed learning
Rehabilitation	20		20	
Physical medicine	10		10	
Electrodiagnosis	15		15	
Orthotics & Prostheses	15		15	

Detailed contents of course topics: it will be annexed

I.Rehabilitation

II.Physical Therapy:

III.Electrodiagnosis:

IV.Orthotics & Prostheses:

4-Teaching and learning methods

- **illustrated lectures:** to discuss theoretical topics (a.1,2,3,4)
- **clinical training;** to develop the profitional and practical skills(b.1,2,3)
- **seminars and meetings:** to use the sources of rheumatic and rehabilitation information to remain current with their advances (c.1,2,3,4,5)

5-Student Assessment

- 5.1. MCQ: to assess (a.1, a.4 a.6,b.1, b.3, b.4)
- 5.2. log book: to assess...(a.2,3,7,b.5,6,c.5,d.1,2,3,4,6,8)

6- Assessment schedule

According to faculty rules of post graduate, exams will be done in the 15 th week of each senester

Assessment	date
1- <u>MCQ</u> : : at the end of the semester+ as a part of the exam of second part	

7- Weighing of assessments

MCQ examination	C 65- 70%
-----------------	-----------

8- List of references

8.1 Course notes

8.2 Text book:

*Krusen of Physical medicine and rehabilitation

* Merret's of Neurology

8.3 Recommended books: * AAOS atlas of orthoses and assistive devices

*Electromyography in clinical practice

8.4 Periodicals and web sites:

Archives of physical medicine & rehabilitation

Muscle & Nerve

www.emedicine.com

www.medscape.com

www.eulc.edu.eg

[www. Science direct. Com](http://www.Science direct. Com)

www.Wiley Blackwell.com

www.pubmed.com

9-we certify that all of the information required to deliver this course is contained in the above specifications and will be implemented

The annex:

I.Rrhabilitation:

v Evaluation of the patient

v Measurement of musculoskeletal function

v Rehabilitation of musculoskeletal dysfunction

v Rehabilitation of neurological diseases:

The cranial nerves

Cerebrovascular lesions

Paraplegia

Cauda Equina

Peripheral neuritis

Myopathies

Spondylosis

Sciatica

- PNF
- CP rehabilitation
- Floppy infant
- Paraplegia
- Rehabilitation of neuropathy
- Rehabilitation of proximal muscle weakness
- Joint replacement rehabilitation
- Post knee arthroscopic rehabilitation/ Rehabilitation of orthopedic problems
- Vascular rehabilitation
- Burn rehabilitation

II.Physical Therapy:

- Electrotherapy
- Heat therapy
- Acupuncture
- Magnetic field therapy
- shock wave therapy

II.Electrodiagnosis:

- Traditional electrodiagnosis
- Electromyography and NCS
- Late responses

III.Orthotics & Prostheses:

Indications, prescriptions and evaluation of orthosis and prostheses

***Course Specifications: Physical Medicine & electrodiagnosis & Orthotics & Prostheses for
Rheumatology & rehabilitation diploma degree, 2015-2016***

- Gait analysis & walking aid
- Upper limb orthosis
- Lower limb orthosis
- Spinal orthosis

***Course Specifications: Physical Medicine & electrodiagnosis & Orthotics &Prostheses for
Rheumatology & rehabilitation diploma degree, 2015-2016***

Course coordinator and head of department
name.....signature.....Date.....

Head of quality assurance unit:
name.....signature.....Date.....