



Quality Assurance Unit



**Tanta University
Faculty of Medicine**

**Department of Physical Medicine, Rheumatology &
Rehabilitation**

Course Specifications

**Orthotic & prosthesis for Physical
Medicine, Rheumatology &
Rehabilitation, Doctorate degree**

2015-2016

Orthotic & prosthesis for Physical Medicine, Rheumatology & rehabilitation Doctorate Degree
Course Specifications

*University: Tanta Faculty: Medicine Department: Physical Medicine
program: Doctorate degree*

A- Administrative Information

1- Course title: Doctorate degree of 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 9009 ortho-proth

5- Level: second part/semester H

6- No. of Credit / taught hours: 6 credit hours

7- Authorization date of course specification: 8/11/2015

B- Professional Information

1 – Overall Course aims

By end of the course, graduate should be able to

1. Deeply oriented with the current medical problems, and up to date hypothesis in orthotic & prosthesis.
2. Understand the fundamental information and general principles underlying the orthotic & prosthesis.
3. Adopt positive attitude towards the development of new modalities in orthotic & prosthesis.

2 – Intended learning outcomes (ILOs):

a- knowledge and understanding:

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

- a.1-Discuss the theories and principles, and up dates in advanced orthotic & prosthesis related sciences needed in his career
- a.2-Define the principles, methods, ethics, and various tools of advanced medical researches.
- a.3- Describe the ethical and legal principles of advanced medical and professional practice
- a.4- Describe basic & advanced principles of orthotic & prosthesis
- a.5-Identfy basics & advanced of health and patient's safety and safety procedures during practice.
- a.6- -Identify the principles & advanced of quality assurance in medical practice
- a.7- -Identify the effect of medical practice on surrounding environment ,and how to develop and protect environment

b- intellectual skills

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

- b.1- Demonstrate basic science of anatomy and physiology of connective tissue, bone, joint and muscle with clinical care of patients.
b.2- Discuss indications, describe, prescribe and evaluate advanced orthoses and prostheses of different parts of the body.

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 advanced examination of structure and function of all joints, both axial and peripheral, as well as particular structure and muscle units.
c.2- Evaluate and synthesize advanced research in orthotic & prosthesis.
c.3-Plan advanced research methods relevant to orthotic & prosthesis.

d. General and transferable skills:

.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 advanced medical educational needs , and Perform continuous medical education.
d.4-use different learning resources to get advanced 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-Share in preparing a grant application in orthotic & prosthesis
d.8-Design and deliver scholarly presentations and facilitate effective discussions

3-Course contents

Topics	No. of credit hours	
	theoretical	practical
Orthotics & Prosthesis	4	2

Detailed contents of course topics: it will be annexed

I.Orthotics & Prosthesis:

4-Teaching and learning methods

- **Illustrated lectures:** to discuss theoretical topics (a.1,2,3,4)
- **Clinical training;** to develop the intellectual skills& professional and practical skills(b.1,2,3,c.1,2,3)
- **Seminars and meetings:** to use the sources of rheumatic and rehabilitation information to remain current with their advances (c.4,5,6,7,8,9,d.7,9)

5-Student Assessment

5.1. MCQ: to assess (a.1, a.4 a.6,b.1, b.1, b.3, b.4) at the end of the semester + as a part of the exam of second part

5.2. log book: to assess....(a.2,3,5,7,8,9,b.5,6,7, c.5,6,7,8,9,d.1,2,3,4,6,8)

6- Assessment schedule

According to faculty rules of post graduate, exam will be done in the 15 th week of each semester+ as a part of the final exam of second part

Assessment	date
1-MCQ : at the end of the semester	

7- Weighing of assessments

MCQ examination C 65-70 %

8- List of references

8.1 Course notes

8.2 Text book:

Orthotics and Prosthetics in Rehabilitation

8.3 Recommended books:

* AAOS atlas of orthoses and assistive devices

8.4 Periodicals and web sites:

-Archives of physical medicine & rehabilitation

-Muscle & Nerve

-www.emedicine.com

- www.eulc.edu.eg

-www.medscape.com

- www.pubmed.com

-www. Science direct. Com

- www.Wiley Blackwell.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.Orthotics & Prosthesis:

Indications, prescriptions and evaluation of orthosis and prostheses

Upper limb prosthesis

Lower limb prosthesis

FES

Robotic rehabilitation

Wheel chair & waking aid

Modern braces for scoliosis

Myoelectric hand

Childhood orthosis

Update in

Upper limb orthosis

Lower limb orthosis

Spinal orthosis

We verify that the above report and the analysis of students and external evaluator opinions are accurate.

Course coordinator and head of department

Name.....

Signature..... Date.....

Head of quality assurance unit:

Name.....

Signature..... Date.....