



Quality Assurance Unit



**Tanta University
Faculty of Medicine**

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

Course Specifications

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

2015-2016

Rheumatology 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 9004 rheum 1

5- Level: second part/ semester C

6- No. of Credit / taught hours: 6 credit hours (4 theoretical & 2 practical)

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 rheumatology and rehabilitation of different rheumatic diseases.
2. Understand the fundamental information and general principles underlying the examination, treatment and rehabilitation of different rheumatic diseases.
3. Perfect large scale of professional skills in rheumatology and rehabilitation of different rheumatic diseases.
4. Adopt positive attitude towards the development of new modalities and methods of professional practice in rheumatology and rehabilitation of different rheumatic diseases.

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 Rheumatology and Rehabilitation of different rheumatic diseases and 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-Identfy basics & advanced of health and patient's safety and safety procedures during practice.
- a.5-Identify proper patient care and patient's rights to obtain the optimum health care & effective treatment of rheumatic diseases.
- 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
- a.8- Discuss advanced knowledge and productivity in reumatology science

b- intellectual skills

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

- b.1- Demonstrate basic science of anatomy, pathology, immunology and physiology of connective tissue, bone, joint and muscle with clinical care of patients with rheumatic disorders.
- b.2- Explain the scientific basis & advance of the methodology, list indications and interpret laboratory tests and imaging procedures used in diagnosis and management of rheumatic diseases.
- b.3- Understand pharmacology, pharmacokinetics, including drug metabolism, adverse effects, and interactions.
- b.4- Plan to develop progress in physical medicine and design rehabilitation program in patients with rheumatic and other medical disorders.

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-Perform diagnostic aspiration and analysis of synovial fluid.
- c.3- Perform therapeutic injection of diarthroidal joints, bursae, tenosynovial structures and enthuses.
- c.4- Assess bone and joint advanced imaging techniques
- c.5-Evaluate bone density advanced measurement
- c.6-Apply the usage of nonsteroidal anti-inflammatory drugs, disease modifying drugs, and biological agents, glucocorticoids, cytotoxic drugs, antihyperuricemic drugs and antibiotic therapy
- c.7- Evaluate a professional & advanced medical report related to rheumatology and rehabilitation of different rheumatic diseases
- c.8- Evaluate and synthesize advanced research in rheumatology science.
- c.9-Plan advanced research methods relevant to rheumatology science.

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 rheumatology
 d.8-Design and deliver scholarly presentations and facilitate effective discussions

3-Course contents

Topics	No. of credit hours	
	theoretical	practical
Rheumatology & Rehabilitation of rheumatic diseases	4	2

Detailed contents of course topics: it will be annexed

I.Rheumatology:

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:
 *Kelley's textbook of rheumatology
 *Arthritis and allied conditions

* Rheumatology examination and injection technique

8.3 Recommended books: *Primer in rheumatic diseases

8.4 Periodicals and web sites: Arthritis and Rheumatism

-Annals of rheumatic diseases

- Rheumatology

-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-General Concepts and Scientific Basis Of Rheumatic Diseases:

1. The musculoskeletal system ;structure ,function and Biomechanics of Joint, bones and muscles
2. Immune and inflammatory response
3. Aetiology and epidemiology of the rheumatic diseases
4. Etiopathogenesis of rheumatic diseases: role of free radicals ,endothelium ,adhesive molecules, cytokines and apoptosis
5. Neuro-endocrine aspect of the immune system
6. Genetic and gene therapy of rheumatic diseases
7. Stem cell in rheumatic diseases

II-Evaluation of patient with rheumatic disorders:

- 1- History, examination, differential diagnosis of different types of arthritis and extraarticular manifestations of rheumatic diseases
- 2- Diagnostic tests ,procedures and laboratory markers, hematological, biochemical and immunological in rheumatic diseases
- 3- Aspiration analysis and injection of joints and soft tissues
- 4- Imaging of musculoskeletal system

III- Rheumatic Diseases:

1. Rheumatoid arthritis
2. Spondyloarthropathies
3. Crystalline arthropathy
4. Rheumatic disease of childhood
5. Degenerative joint disease Osteoarthritis
6. Reflex sympathetic dystrophy
7. Fibromyalgia
8. Arthritis accompanying endocrine and metabolic disease

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.....