



Quality Assurance Unit



**Tanta University
Faculty of Medicine**

Department of Physical Medicine, Rheumatology & rehabilitation

Course Specifications

**Rheumatology & Rehabilitation of rheumatic for Physical
Medicine ,Rheumatology & Rehabilitation Diploma
Degree**

2015-2016

*Course Specifications: Rheumatology & Rehabilitation of rheumatic for Physical Medicine
Diploma degree, 2015-2016*

Rheumatology & Rehabilitation of rheumatic for Physical Medicine, **Rheumatology & Rehabilitation** Diploma Degree: Course Specifications

University: Tanta Faculty: Medicine Department: Physical Medicine

A- Administrative Information

- 1- Course title: Rheumatology & Rehabilitation of rheumatic for Physical Medicine, Rheumatology & rehabilitation Diploma degree**
- 2- Department offering the program: Physical Medicine, Rheumatology & rehabilitation**
- 3- Department responsible for the course: Physical Medicine, Rheumatology & rehabilitation**
- 4- Course code: PRR 7005 Rheum- Rehab**
- 5- Level: second / 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 program aims:

By end of the program graduate should be able to

- Apply analytical and critical methods when dealing with rheumatology, musculoskeletal and rehabilitation problems.
- Merge medical knowledge to hypothesize new relations and explain pathogenesis.
- Deeply oriented with the current medical problems, and up to date hypothesis in rheumatology and rehabilitation.
- Detect professional problems and suggest innovative solutions
- Perfect large scale of professional skills in rheumatology and rehabilitation of rheumatic diseases.
- Adopt positive attitude towards the development of new modalities and methods of professional practice in his specialty.
- Perfect use of technological tools needed in rheumatology and rehabilitation
- Communicate and lead team in systematic professional manner
- Decision making through analysis of available information
- Effectively manage available resources, planning to increase it, and develop new resources.
- Oriented with his role in community development, and environmental safety
- React in professional manner reflecting his commitment towards impartiality, credibility, medical ethics, and responsibilities
- Commit to continuous self development and transfer of his medical experience to others.

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- React in professional & advanced manner reflecting his commitment towards impartiality, credibility, medical ethics, and responsibilities
- Commit to continuous self development and transfer of his medical experience to others.
- understand the fundamental information and general principles underlying the examination, treatment and rehabilitation of different rheumatic diseases

While not necessarily taught explicitly, the following attitudes would be **developed throughout the course:**

- * A questioning attitude based on intellectual curiosity and an open mind
- * Professional responsibility & integrity
- * Adaptability and motivation
- * Constructive self criticism & ability to reflect on performance
- * An eagerness to achieve objectives
- * A willingness to share with colleagues within the confines of confidentiality

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 rheumatology and rehabilitation and 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-Identify basics of health and patient's safety and safety procedures during practice.
- a.6-Identify proper patient care and patient's rights to obtain the optimum health care & effective treatment of rheumatic diseases.
- a.7- Identify the principles of quality assurance in medical practice
- a.8- Identify the effect of medical practice on surrounding environment ,and how to develop and protect environment
- a.9- Demonstrate knowledge and productivity in rehabilitation science

b-intellectual skills

1. By the end of the course, graduates should be able to:
2. b.1- Integrate 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 of the methodology, list indications and interpret laboratory tests and imaging procedures used in diagnosis and management of rheumatic diseases.
- b.3- Interpret pharmacology, pharmacokinetics, including drug metabolism, adverse effects, and interactions.

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- b.4- Choose rehabilitation program in patients with rheumatic, neurological, orthopedic and other medical disorders.
- b.5- Select rehabilitation program of exercise-related illness (sport).
- b.6- Organize medical research to add new to rheumatology and rehabilitation.

c. Professional and practical skills:

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

- C.1- Exam in 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- Perform diagnostic aspiration of synovial fluid.
- C.3- Perform therapeutic injection of diarthroidal joints, bursae, tenosynovial structures and enthuses.
- c.4- Interpret bone and joint imaging techniques with proper interpretation of its report
- c.5- Interpret bone density measurement
- c.6- Evaluate the use of nonsteroidal anti-inflammatory drugs, disease modifying drugs, and biological agents, glucocorticoids, cytotoxic drugs, antihyperuricemic drugs and antibiotic therapy
- C.7- Write and evaluate a professional medical report related to rheumatology and rehabilitation
- C.8- Evaluate and synthesize research in rehabilitation science.
- C.9- selects the research methods relevant to rehabilitation 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 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
Rheumatology & Rehabilitation of rheumatic diseases	4	2

Detailed contents of course topics: it will be annexed

4-Teaching and learning methods

- illustrated lectures: to discuss theoretical topics (a.1,2,3,4,5,6,7)
- clinical training: to develop the profitional and practical skills(b.1,2,3,5)
- seminars and meetings: to use the sources of rheumatic and rehabilitation information to remain current with their advances (c.1,2,3,4)

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.2,3,6,7,8,9,b.4,5,6,c.5,6,7,8,9,d.1,2,3,4,6,8)

- Assessment schedule

According to faculty rules of post graduate, exam will be done in 15 th week of each semester

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

6- Weighing of assessments

Method of Assessment	%
MCQ	C 65-70%

7- List of references

- 7.1 Course notes
 - 7.2 Text book:
 - *Kelley's textbook of rheumatology
 - *Arthritis and allied conditions
 - * Rheumatology examination and injection technique
 - * Merret's of Neurology
 - 7.3 Recommended books: *Primer in rheumatic diseases
 - 7.4 Periodicals and web sites: Arthritis and Rheumatism
 - Annals of rheumatic diseases
- Rheumatology**
- www.emedicine.com
 - www.medscap.com
 - www.eulc.edu.eg
 - www. Science direct. Com
 - www.Wiley Blackwell.com
 - www.pubmed.com

8-Other resources/ facilities required for teaching and learning to achieve the above ILOs

Non

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

II-Evaluation of patient with rheumatic disorders:

- 1-History, examination, differential diagnosis of different types of arthritis and extra -articular 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

I.Rheumatology:

- v Rheumatoid arthritis
- V SLE
- V Scleroderma
- V polymyositis
- V Osteoporosis
- V Pregnancy with rheumatic diseases
- v Spondyloarthropathies
- v Crystalline arthritis
- v JIA
- v degenerative joint diseases Osteoarthritis

v Reflex sympathetic dystrophy

v Fibromyalgia

- Sjogren syndrome
- Classification criteria of vasculities

II-Management of rheumatic diseases

1- Pharmacological Approaches:

- NSAID
- CORTICOSTEROIDS
- DMARDS
- IMMUNOREGULATORY
- BIOLOGICAL DRUGS
- ANTI-HYPERURICEMIC DRUGS

2- Surgery of rheumatic diseases

3- Nutrition in rheumatic diseases and alternative medicine

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

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