



**Quality Assurance Unit**



**Tanta University  
Faculty of Medicine**

**Department of Medical Pharmacology**

**Course Specifications**

**Pharmacology for  
Neuropsychiatry Master  
Degree**

**2015-2016**

**Pharmacology for Neuropsychiatry Master Degree Course Specifications**

University: T anta

Faculty: Medicine

Department: Pharmacology

**A- Administrative Information**

- 1-Course title: Master and Diploma in Neuropsychiatry
- 2- Department offering the program: Neuropsychiatry Department
- 3- Department responsible for the course: Medical pharmacology
- 4- Course code: **TMED 03 A01-pharma**
- 5- Level: First part
- 6- No. of Credit / taught hours: (First part): 1 credit hour, theoretical only (1 hour /week for 15 weeks)
- 7- Authorization date of course specification: 02/ 12/2015

**B- Professional Information**

**1 – Overall Course aims**

1. Perfect the bases and methods of medical researches
2. Apply analytical methods when dealing with medical problem
3. Apply his medical knowledge and merge it with related knowledge

**2 – Intended learning outcomes (ILOs):**

**a. Knowledge and understanding:**

*By the end of the program graduate should be able to:*

- a1- Describe the basic theories and principles of pharmacology and related sciences needed in his career.

**3-Course contents**

1. General pharmacology:
  - i. Drug drug interaction.
  - ii. Adverse drug effects
  
2. Neuropharmacology
  - i. Neurotransmitter and receptor systems in the brain
  - ii. Muscarinic receptor agonists and antagonists
  - iii. Pharmacotherapy of organophosphorus poisoning
  - iv. Pharmacotherapy of myasthenia gravis
  - v. Agents acting at the neuromuscular Junction and Autonomic Ganglia
  - vi. Adrenergic agonists and antagonists
  - vii. 5-Hydroxytryptamine (Serotonin) and dopamine

- viii. Neurodegenerative Disorders – and drugs used to treat them
  - ix. Pharmacotherapy of depression and anxiety disorders
  - x. Pharmacotherapy of psychosis and mania
  - xi. Pharmacotherapy of epilepsy
  - xii. Pharmacotherapy of migraine headache
  - xiii. Analgesics (narcotic and non narcotic)
  - xiv. Hypnotics and sedatives
  - xv. Drug addiction and drug abuse
3. Hematological pharmacology
- i. Pharmacotherapy of coagulation disorders
  - ii. Pharmacotherapy of anemia
4. Chemotherapy
- i. General Principles of Antimicrobial Therapy
  - ii. Penicillins, Cephalosporins and Other  $\beta$ -Lactam Antibiotics
  - iii. Vancomycin
  - iv. Sulfonamides, Trimethoprim-Sulfamethoxazole
  - v. Aminoglycosides
  - vi. Chloramphenicol
  - vii. Macrolide antibiotics
  - viii. Tetracyclins
  - ix. Metronidazole
  - x. Chemotherapy of Malaria
  - xi. Chemotherapy of Tuberculosis and Leprosy
  - xii. Antifungal Agents
  - xiii. Antiviral Agents

#### 4-Teaching and learning methods

**Illustrated lectures.**  
**tutorial sessions .**

#### 5-Student Assessment

- 5.1 written examination. One written paper contains multiple long questions.
- 5.2 oral examination. One sitting (3 staff members including in this sitting)

#### 6- Weighing of assessments

Written examination

marks (50%)

Oral examination

marks (50%)

**Course specifications: Pharmacology for Neuropsychiatry Master Degree, 2015-2016**

Other types of assessment	Through log book
Total	200

**- Assessment schedule**

- ✚ بعد نهاية المقرر يتم تقييم الطالب عن طريق اختبار نهائي .
- ✚ يعقد الاختبار مرتين سنويا في شهرى ابريل و أكتوبر من كل عام
- ✚ يحق للطالب التقدم للامتحان وفق بنود المادة 24 من اللائحة و التى تشترط استكمال logbook 75% و الحصول على موافقة رئيس القسم قبل شهر من موعد الامتحان .
- ✚ يتكون الامتحان من الاختبارات الآتية طبقا للمادة 58 -5 من اللائحة
  - ١ -اختبار تحريري في الفارماكولوجي
  - ٢ -اختبار شفوى في الفارماكولوجي

**7- List of references**

**7-1 Essential books (text books)**

- Goodman & Gilman's : The Pharmacological Basis of Therapeutics.
- Basic & Clinical Pharmacology (ed. G. Katzung)

**7-2 Recommended books**

- Pharmacology (ed. Rang H.P.& Dale M.)
- Lippincott (illustrated pharmacology Review).
- Pharmacology board review (Gary C.Rosenfeld & David S. Loose)
- Clinical Pharmacology (DR. laurence)

**7-3- Periodical, web sites:**

- Br. J. Pharmacology
- Biochemical Pharmacology
- www. biomed central com.
- www. Pubmed. Com
- www. medscape. Com.
- www.eulc.edu.eg
- www. Science direct. Com
- www.Wiley Blackwell.com
- [www.Springer.com](http://www.Springer.com)

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

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

***Course specifications: Pharmacology for Neuropsychiatry Master Degree, 2015-2016***

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Course coordinator and head of department

name :Prof. Mohamed Nabih Abdel Rahman Abdel Dayem

signature

Date 02/12/2015

Head of quality assurance unit

name: Prof. Essam Al Halaby

Signature

Date