



Quality Assurance Unit



**Tanta University
Faculty of Medicine**

Department of Medical Pharmacology

Course specifications

Medical Pharmacology Master Degree (4th semester)

(2021 Bylaw)

2021-2022

Course Specifications of Medical Pharmacology Master degree

University: Tanta

Faculty: Medicine

**Department: Medical
Pharmacology**

A- Administrative Information

- 1. Course title: Master Medical Pharmacology**
- 2. Department offering the program: Medical Pharmacology Department**
- 3. Department responsible for the course: Medical Pharmacology Department**
- 4. Course code: PHAR 8005**
- 5. Level: second part**
- 6- No. of Credit hours of the course: 10 credits as follows: Obligatory courses including: 7credit hours lectures and 1 credit hours practical**
- 7-Course Progress Supervisor: Prof. Dr. Amany Abdin Prof. Of pharmacology, Tanta faculty of medicine**
- 8-Internal Evaluator of the course: Prof. Dr. Fleur Abdel Monem Prof. of pharmacology, Tanta faculty of medicine**
- 9-External Evaluator of the course: Prof. Dr. Mohammed Hesham Dabba, Prof. of clinical pharmacology, Damietta faculty of medicine**
- 10- Authorization date of course specification: 6-12-2021**

B- Professional Information

1 – Overall Course aims

By the end of the course, the graduate student should be able to do the following:

- 1. Perfect the bases and methods of medical researches**
- 2. Apply analytical methods when dealing with medical problem**
- 3. Apply medical knowledge and merge it with related knowledge**
- 4. Oriented with the current medical problems, and up dates in pharmacology**
- 5. Detect professional problems and suggest solutions**
- 6. Perfect professional skills, and use of technological tools needed in practice**
- 7. Communicate and lead team in systematic professional manner**
- 8. Decision making through analysis of available information**
- 9. Effectively manage available resources**
- 10. Oriented with role in community development, and environmental safety**

11. React in professional manner reflecting commitment towards impartiality, credibility, medical ethics, and responsibilities

12. Realize the importance of self-development and continuous medical education

2 – Intended learning outcomes (ILOs):

a. Knowledge and understanding:

a.1-Define the basic theories, principles of pharmacology and related to topics needed in his career

a.2-Learn the recent advances in pharmacology related to drugs used in treatment of infections ,cancer& drugs affecting the central nervous system &drugs acting on GIT& immunopharmacology &gene therapy &locally acting drugs

a.3-Learn the principles and ethics of medical research

a.4-Identify the principles of quality assurance in pharmacology & its importance in medical practice

b. Intellectual skills:

b. 1- Analyze medical information and relate it to medical problem solving related to drugs used in treatment of infections ,cancer& drugs affecting the central nervous system &drugs acting on GIT& immunopharmacology &gene therapy &locally acting drugs

b.2-Solve medical problem related to drugs used in treatment of infections ,cancer& drugs affecting the central nervous system &drugs acting on GIT& immunopharmacology &gene therapy &locally acting drugs

b. 3- Expect the relative risks and benefits of options of commonly used drugs

b. 4- Plan to guide progress in his career (analytical procedures using available laboratory equipment)

b. 5- Make professional medical decisions according to different situations when facing medical problem

c. Professional and practical skills:

c. 1-Perfect basic and recent professional medical skills in pharmacology

c. 2- Practice and interpret drug related research

c. 3- Evaluate medical methods and tools used in pharmacology

c. 4- Estimate accurately appropriate solutions of drugs to administer required doses and to achieve required concentration in vivo and in vitro situations.

- c. 5-Learn regarding principles, concepts, and applications of cell culture.
- c. 6-perform and standardizes the preclinical characterizations of nanomaterials.

So that, candidates can pursue productive and satisfying research, teaching, or related biomedical career.

d. General and transferable skills:

d.1-Communicate effectively with his colleagues

d. 2- Perfect basics of information technology using skills which serve his career development

d. 3- Practice team working, and lead teams in specified professional jobs

d. 4-Manage time perfectly

3-Course contents

Topics	Theoretical/actual hours	Credit hours	Practical	Credit hours
<u>Drugs used for treatment of, infections, cancer</u> <u>Drugs affecting central nervous system</u> <u>Drugs acting on gastrointestinal tract</u> <u>Immunopharmacology</u> <u>Gene therapy</u> <u>Locally acting drugs</u>	105 <u>Drugs used for treatment of, infections, cancer (30 hours):</u> Antibacterial drugs(8 hours) Antiviral drugs (8 hours) Antifungal (6 hour) Cancer chemotherapy (8 hours) <u>Drugs affecting central nervous system. (30 hours)</u> Antiseizure drugs (6 hours) General and Local Anesthetics (6 hours) Pharmacologic Management of Parkinsonism & Other Movement Disorders (6 hours) Treatment of mood disorders (5 hours) Opioid Analgesics &	7	Spectrophotometer (5 hours) ELISA (5 hours) Cell culture (10h) Nanopharmacology(10h)	1

Antagonists (5 hours)			
Drugs of Abuse (2 hour)			
<u>Drugs acting on gastrointestinal tract (17 hours)</u>			
Drugs used in peptic ulcer (10 hours)			
Diarrhea therapy (5 hours)			
Anti-emetic drugs (2 hours)			
<u>Immunopharmacology (15 hours)</u>			
<u>Gene therapy (8 hours)</u>			
<u>Locally acting drugs(5 hours)</u>			

4-Teaching and learning methods

Methods of teaching and learning	ILOS
Illustrated lectures	a1, a3, b1
Tutorial sessions	a2, a4, b3, b4, b5, d1
Practical Training	c1, c2, c3
Teaching under observation,	c1, c2. c3
PBL	b1, b2, b3, b4, b6

5-Student Assessment

- Final exam included as a part of the 2nd part exam.

Methods of assessment	ILOS
Practical	(b1, 2, 3, c1)
oral	(a1, 3, b1, 2, 5, c.1, 3, d4)
Written	(a1, 3, b1, 3, C3,)
Log book	D3,d6,d7

6- Weighing of assessments

الإمتحانات								المناهج	
مجموع الدرجات	النسبي	نظري	عملي	نظري	عدد الأوراق	الساعات المصنفة	الكود	المقرر الدراسي	
250		50	70	120	1	8	PHAR 8001 PHAR 8002	يختار الطالب مادة واحدة من: 1. الكيمياء الحيوية الطبية. 2. الفسيولوجيا الطبية.	الجزء الأول
						1		مقررات اختيارية.	
						1		لمنحة طبية.	
						12			الرسالة
750		70	120	170	1	8	PHAR 8003 PHAR 8004 PHAR 8005	- مقرر علمي وعملي في علم الأدوية 1 - مقرر علمي وعملي في علم الأدوية 2 - مقرر علمي وعملي في علم الأدوية التلثيني	الجزء الثاني
		70	100	200	1	8			
						3		مقررات اختيارية.	
						3		لمنحة طبية.	
1000		200	300	500		52			المجموع

7- List of references

7-1 Essential books (textbooks)

- 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
- www. biomed central com.
- www. medscape. Com.
- www. Science direct. Com
- www.Springer.com
- Biochemical Pharmacology
- www. Pubmed. Com
- www.eulc.edu.eg
- www.Wiley Blackwell.com

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

None

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

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

Course coordinator

Name: Dr. Amira el-saadany Signature. Date 12/2021

Head of department

Name: Prof .Amany Abdin Signature Date12/2021

Head of quality assurance unit:

Name Signature.

Date.....

