



Department of Medical Pharmacology

Course specifications

Medical Pharmacology Master Degree (3rd 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 8004

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 sciences needed in his career
- a.2-Demonstrate the interaction between medical practice and surrounding environment.
- a.3-Learn the recent advances in cardiovascular, renal, endocrine and blood pharmacology.
- a.4-Learn the principles and ethics of medical research
- b. Intellectual skills:
- b. 1- Analyze medical information and relate it to medical problem solving in cardiovascular, renal, endocrine and blood pharmacology.
- b.2-Solve medical problem related to pharmacology
- b. 3- Expect the relative risks and benefits of options of commonly used drugs
- b. 4- Plane to guide progress in his career (designing protocols for therapy, performing experiments to investigate the effect of different known and unknown drugs)
- 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
- d. General and transferable skills:
- d. 1- Apply self-evaluation and specify his medical educational needs
- d. 2-Use different learning resources to get knowledge and information
- 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
Cardiovascular pharmacology Blood pharmacology Renal pharmacology Endocrine pharmacology Vitamins and Nutritional supplements	Cardiovascular pharmacology (30 hours) Drugs used in treatment of angina (5 hours) Antihypertensive agents (7 hours) Drugs used in treatment of heart failure (9 hours) Drugs used in treatment of cardiac arrhythmia (6 hours) Drugs used in different types of shock (3 hours) Blood (15hours) Thromboxanes, Leukotrienes, & Related Compounds (5 hours) Anticoagulants and antiplatelets (6 hours) Hypolipidemic drugs (4 hours) Renal pharmacology: diuretic agents (15hours) Endocrine pharmacology (30 hours): Antidiabetic drugs (9 hours) Antithyroid drugs (5 hours) Drugs affecting bone and mineral metabolism (7	7	(10 hours) -Techniques in molecular biology, Techniques in radio-ligand binding. Immunotechniques -Techniques in fundamental pharmacology (10 hours) Effect of different drugs on smooth muscle Effect of different drugs on skeletal muscle Effect of different drugs on cardiac muscle Effect of different drugs on eye reflexes and pupil size) (10 hours) How to manage clinical cases through multiple problem scenarios	1

hours)		
Corticosteroids (6 hours)		
Sex hormones (3 hours)		
Vitamins and Nutritional supplements (15 hours)		

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 Woighing of assessments	

6- Weighing of assessments

	gy (PHAR 800)	بة الماجستير في الفار ical Pharmacolo	in Med	of Science	Master	1			
_	لمنامع		-			الإس	ندانات		
	البقرر الدراسي	ावा	لساعات لمعددة	عد الأوراق	115	على	شقوق	اللبكي	مجنوع الترجات
جز ه گول	يختار الطالب مادة و احدة من: 1 لكيمياء الحورية الطبية. ٢ الفمير لوجيا الطبية.	PHAR 8001 PHAR 8002	Α	1	170	γo	0.		Yo.
	مقررات اختيارية		3).			+			
	أنطنعه		1						_
ia.			SIT						
هزء تني	- مقرر علمي وعملي في علم الأنوية [- مقرر علمي وعملي في علم الأنوية? - مقرر علمي وعملي في علم الأنوية التقليقي	PHAR 8003 PHAR 8004 PHAR 8005		,	140	110	Vo Vo		Ya.
	مغررات لغنيارية		F:						
	الثمة غلوق		٢						
£34	U.		21		311	Tor	3		1

7- List of references

- 7-1 Essential books (text books)
- -Goodman & Gilman's: The Pharmacological Basis of Therapeutics.
- -Basic & Clinical Pharmacology (ed. G. Katzung)
- 7-2Recommended 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

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 Date	Signature					