



Department of Pharmacology course specifications

Pharmacology Doctorate Degree

2015/2016(8th semester)

Pharmacology Doctorate degree course specifications

Pharmacology	Doctorate degree course	e specifications				
University: Tanta	Faculty: Medicine	Department: Pharmacology				
A- Administrative specifications	5					
1- Course title: Medical Doctorate in medical pharmacology						
2- Department offering the program: Medical PARMACOLOGY DEPARTMENT.						
3- Department responsible for the course: Medical PARMACOLOGY DEPARTMENT.						
4- Course code: PHAR9008						
5- Level: Second part.						
6- No. of Credit						
No. of credit hours of the course	e: 9 credits as follows:					
Obligatory courses: 7 credits hours including: 4credit hours lectures and 3credit						
hours practical						
Elective courses: 1 credits hour						
Scientific activities: 1 credits hour						
Thesis: 16 credit hours						
7-Course Progress Supervisor: Prof. Sabeeha Hadeyya Prof. of pharmacology, Tanta						
faculty of medicine						
8-Internal Evaluator of the cours	se: Prof. Fleur Fathi Abd	El-Monem Prof. Of				
pharmacology, Tanta faculty of	medicine					
9-External Evaluator of the course: Prof. Nageh Al Mahdy professor of Pharmacy,						
tanta university.						
10- Course Coordinator: Shahinaz Mahmoud Shams el din Assistant lecturer of						
Pharmacology, Tanta Faculty of Medicine						
11- Authorization date of course specification:4-12-2015						

B- Professional Information

1 – Overall Course aims

Our course aims to:

Train students for research & education careers in the field of Pharmacology. By the end of the course the candidate will be able to:

Perfect the bases and methods of medical researches

Enrich pharmacology field through original medical researches.

Apply analytical and critical methods when dealing with medical problem

✤Deeply oriented with the current medical problems, and up to date hypothesis in pharmacology

Detect professional problems and suggest innovative solutions

♦Perfect large scale of professional skills in his specialty.

✦Adopt positive attitude towards the development of new modalities and methods of professional practice in pharmacology.

Perfect use of technological tools needed in his practice

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.

understand the fundamental information and general principles underlying the use of different pharmacological agents (drugs) including

• The ways that drugs work and affect the human body at the molecular, cellular, organ and organism level in both health and disease

- their therapeutic applications in various diseases
- learning drug adverse effects including toxicity, contraindications and drug interactions.
- · research that seeks to develop new and better drugs to treat diseases

2 – Intended learning outcomes (ILOs):

a-knowledge and understanding:

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

a1 .Describe The theories and principles , and updates in the field of pharmacology, in addition related biochemical , physiological, and pathological bases , so he/ she will be able to a2. Explain the pharmacokinetic, and The cellular and molecular mechanisms of drug actions of different groups of drugs affecting body systems with emphasis on gene-based approaches a3. Mention the adverse and toxic effects of commonly used drug groups, and their management

a4. Give an account on limitations to the use of drugs such as contraindications and drug interactions

a5. Define clinically relevant age, sex and genetic related variations that affect response to drugs

a6. Describe the mechanism of action of drugs with regard to pathophysiology of common diseases and explain the rational basis for proper choice of drugs in treating them

a7 Mention the impact of preventive pharmacology in promoting health and prevention of illness

a8 . Define the principles, indications, the relative advantages and disadvantages of various pharmacotherapy modalities

a9. Recognize the rational and general guidelines of the use of drugs in the proper dose in special population such as pediatrics, geriatrics, pregnancy and lactation and in cases of liver and/or kidney impairment

a10 . Mention the role, prevalence and limitations of alternative and complementary therapies commonly in use

a11. Recognize the principles of non-pharmacological therapies and their role in the management of diseases

a12. Expect the relative risks and benefits of options of commonly used drugs.

a13. Demonstrate a knowledge of drugs that relieve pain and ameliorate the suffering of patients The principles, methods, ethics, and various tools of medical researches.

a14. Mention the principles of quality assurance in therapy with different drugs & drug abuse.

a15. Expect the effect of medical practice on surrounding environment ,and how to develop and protect environment

b-intellectual skills

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

b1 Analyze medical information to elicit new conclusions

b2 Innovate solutions to medical problems in pharmacology with potential creativity b3 Design rational therapeutic strategies for both acute and chronic clinical conditions and take into account the various variables that influence these strategies and evaluate risks in medical practice

b4 Monitor the effectiveness and toxicity of therapy

b5 Argue, and discuss medical issues on evidence based manner

b6 plan to develop progress in his career practice

c-professional &practical skills

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

c1- Practice his career in Pharmacology in a professional manner

c2-. Demonstrate skills and knowledge required to perform laboratory experiments safely with appropriate equipment.

c3- Practice and interpret drug related research

c4- follow a written schedule in a laboratory setting over a range of methodologies and to know and be able to observe appropriate safety measures to ensure safe working

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

d-general transferable skills

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

- d1 Use different learning recourses to get knowledge and information
- d2 Communicate effectively with his colleagues
- d3 Teach others and evaluate them
- d4 practice team working ,and lead a team in specified professional job
- **d5** Apply self evaluation and specify his medical educational needs, and Perform continuous medical education..
- d6 Manage scientific seminars , with good time management, and develop their
- communicative abilities within the various formats of presentations

3-Course contents

	contents	Hours
Obligatory courses	Adverse drug	Adverse drug reactions
	reactions	Drug and food drug interactions
	Drug and food drug interactions	Drug therapy in liver and kidney diseases(30 hs)
	Drug therapy in liver and kidney diseases	Dermatology pharmacology
	Dermatology pharmacology	Eye pharmacology(30hs)
	Eye pharmacology	
Practiacl training	Use of emergency	3 credit hours
	drugs	
	Calculation of	
	doses needed in certain diseases	
Elective courses	2 courses	1 credit hour
Scientific activity	Seminars	1 credit hour
	Conferences	
	Dissertation	
	attendance:	
	Training course	
	Workshops	

4-Teaching and learning methods

illustrated lectures tutorial sessions, practical techniques, , Teaching under observation, Assignment

5-Student Assessment

5.1...practical .to assess (c.1-4)
5.2 ...oralto assess...(a.1-16,b1-4)
5.3..written to assess (a1-16,b1,2,3,4)
5.4 logbook to assess (Preparing Seminars to assess (a2,4,b4,5,6, d1,2,3,4,5,6)

5.5 Designing Up-to-date Clinical Pharmacology Modules to assess (b6, d1, 2, 6)

- Assessment schedule				
Assessment				
1.performance in course work,	3 months			
2. End semester exam	15 th week of each semester			
3. participation in department activities, such as Journal Club Department Seminar Series and educational work research progress	2 weeks			
5. research progress	6 months			

6- Weighing of assessments

الامتحانات						المناهج			
مجموع	اكلينيكي	شفوى	عملى	تحريرى	عدد	النقاط	الساعات	الكود	المقرر الدراسي
الدرجات					الاوراق	المعتمدة	المعتمدة		
1500		100	150	300	1	18	6	PHAR 9001	المقررات 1. مقرران علميان وعمليان في علم الأدوية العام.
		100	150	300	1	18	6	PHAR 9002	الدراسية الدران عمون وعمون في عم روبوب العام. الدراسية
		100		300	1	18	6	PHAR 9003	2. مقرران علميان وعمليان في علم الادوية التطبيقي.
						18	6	PHAR 9004	
						18	6	PHAR 9005	 مقرران علميان وعمليان في علم الادوية التجريبي.
						18	6	PHAR 9006	
						18	6	PHAR 9007	4. مقرران علميان وعمليان في علم الادوية السريري.
						18	6	PHAR 9008	
						48	16		مقررات اختیاریة.
				_		16	8		أنشطة علمية
						10	0		
						32	16		لرسالة
1500		300	300	900		240	88		المجموع

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-Program assessment and evaluation:

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 and head of department name......Date......Date.....

Head of quality assurance unit:

name......Date......