



Course specification
2018- 2019
Faculty of Pharmacy
Mansoura University



Fourth Level

Course Specification Clinical pharmacy

University: Mansoura University (MU)
Faculty: Pharmacy
Department: Pharmacy practice
Course title: Clinical pharmacy
Course code: PP 416

Program on which the course is given	B. Pharm
Academic Level	Fourth Level, First semester, 2017-2018
Date of course specification approval	9/9/2018

1. Basic Information: Course data:

Course title:	Clinical pharmacy	Code: PP 416
Specialization:	Pharmaceutical	
Prerequisite:		
Teaching Hours:	Lecture: 2	Practical: 2
Number of units: (credit hours)	3	

2. Course Aims:

1. Scoping of clinical pharmacy and its objectives
2. Knowing the types of drug interaction and how to manage them
3. Knowing the clinical laboratory data and its interpretation
4. Understanding the concept of clinical pharmacy and the role of clinical pharmacist
5. Providing patient care that optimizes the use of medication and promotes health, wellness, and disease prevention
6. Promoting the correct and appropriate use of medicinal products and devices
7. Maximising the clinical effect of medicines, i.e. using the most effective treatment for each type of patient

3. Intended learning outcomes (ILOs):

a- Knowledge and understanding



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[a1] Define the principles of body function in health and diseases states; as well as the etiology, epidemiology, laboratory diagnosis, clinical features of different diseases; and their pharmacotherapeutic approaches.

[a2] Classify the pharmacological properties of drugs including mechanism of action, therapeutic uses, dosage, contraindications, adverse drug reactions and drug interactions.

b- Intellectual skills

[b1] Assess possible drug interactions, adverse drug reactions, pharmacovigilance and other drug-related problems, as essential issues in implementing pharmaceutical care.

c- Professional and practical skills

[c1] Assess risks concerning drug-drug interaction, adverse reaction and incompatibilities in different pharmaceutical preparations.

[c12] Apply the concepts of pharmaceutical care in different pharmacy practice settings.

d- General and transferable skills

[d1] Retrieve and critically evaluate pharmaceutical information and clinical laboratory data from different sources to improve professional competencies.

[d2] Practice independent learning needed for continuous professional development.

[d3] Support patient, pharmaceutical and health care



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4. Contents:

Week No	Topics	No. of hours	Lecture credit hours	Practical credit hours
1.	Introduction of clinical pharmacy	2	2 hours	
2.	Case history and patient history	2	2 hours	
3.	Clinical problems solving	2	2 hours	
4.	Patient management approach	2	2 hours	
5	Clinical drug interactions	2	2 hours	
6	Patient management of various toxic exposures	2	2 hours	
7.	Mid-term Exam			
8.	Adverse drug reactions	2	2 hours	
9.	Clinical laboratory data	2	2 hours	
10.	Drugs in pregnancy	2	2 hours	
11.	Drugs for elderly patients	2	2 hours	
12.	Dose adjustment	2	2 hours	
13.	Case presentation	2	2 hours	
14.	Week 14-18 Final written & oral			
	Practical topics			
Week No	Topics	No. of hours	Lecture credit hours	Practical credit hours
1.	Case study case presentation	2		1 hour
2.	Case study patient management	2		1 hour
3.	Case study toxicity management	2		1 hour
4.	Case study Clinical problems solving	2		1 hour
5.	Case study Clinical problems solving	2		1 hour
6.	Case study drug interaction	2		1 hour
7.	Mid-term Exam			
8.	Case study Adverse drug reactions	2		1 hour



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9.	Case study Clinical laboratory data	2		1 hour
10.	Case study Drugs in pregnancy	2		1 hour
11.	Case study Drugs for elderly patients	2		1 hour
12.	Case study Dose adjustment	2		1 hour
13.	Practical Exam			

5. Teaching and learning Methods:

5.1	Lectures using whiteboard
5.2	Lectures using Data show, PowerPoint presentations
5.3	Research assignments
5.4	Case study
5.5	Discussion session

6. Student Assessment:

a- Assessment methods

1. Written exam	To assess understanding, intellectual and professional skills
2. Practical exam	To assess professional and practical skills
3. Oral	To assess knowledge, understanding, intellectual skills, general skills and confidence
4. Case study	To assess the skills of problem-solving

b- Assessment schedule

Assessment 1	Practical	12th week
Assessment 2	Mid-term	6th week
Assessment 3	Oral	15th week
Assessment 4	Written	15th week

c- Weighting of assessments

1.	Mid-term examination	10 %
2.	Final-term examination	50 %
3.	Oral examination	15 %
4.	Practical examination and Semester work	25 %
Total		100 %



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7. List of References

No	Reference	Type
1.	Practical course notes prepared by the department staff members	Course notes
2.	Clinical Pharmacy and Therapeutics by Roger Walker and Catherine Whittlesea, 2011.	Book
3.	Stokley's drug interaction, 8th Ed, by Karen Baxter (2011)	Book
4.	Oxford Handbook of Clinical Pharmacy (Oxford Handbook) by Philip Wiffen, Marc Mitchell, Melanie Snelling, and Nicola Stoner	Book
5.	British National Formulary	Website

8. Matrix of knowledge and skills of the course

No	Topics	Week	Basic knowledge	Intellectual skills	Professional skills	General skills
1	Introduction of clinical pharmacy	1	a1	b1	c2	d1
2	Case history and patient history	2	a1	b1	c2	d1,d2,d3
3	Clinical problems solving	3, 4	A2	b1	c2	d1,d2,d3
4	Patient management approach of various toxic exposures	5, 6	A2	b1	c1,c2	d1,d2
5	Clinical drug interactions	7, 8	A2	b1	c1	d3
6	Adverse drug reactions	9, 10	A2	b1	c1	d3
7	Clinical laboratory data	11, 12	a1,a2	b1	c1,c2	d1,d3

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