



## Department of Medicinal Chemistry



Program: Master in Pharmaceutical Sciences  
(Medicinal Chemistry)

Course: Drug Pharmacokinetics  
Code: (PDM-202)

Academic year: 2020/2021  
Second Semester

البرنامج  
ماجستير

تقرير مقرر

Drug Pharmacokinetics

رئيس القسم

أ.د. محمد أحمد أحمد مصطفى

منسق المقرر

أ.د. محمد أحمد أحمد مصطفى

University: Mansoura

Faculty: Pharmacy

Department: Medicinal Chemistry

### A. Basic Information

Course Title and code:	Drug Pharmacokinetics (PDM-20Y)
Program on which this course is given:	Master in Pharmaceutical Sciences
Total Credit hours:	2
Lectures: 2	Tutorial/Practical:
Academic Level	Postgraduate
Academic year	2020/2022 - second semester
Name of lecturers contributed to the delivery of this course	1. Prof. Dr. Mohamed Ahmed Mostafa 2. Dr. Hazem Ghabour
Course co-coordinator:	Prof. Dr. Mohamed Ahmed Mostafa
External evaluator:	Prof. Dr. Osama Elsabagh
Date of Department Council Approval	10-5-2022
Date of Faculty Council Approval	5-2022

### B. Statistical Information:

No. of students attending the course:	4			
No. of students completing the course:	3			
<b>Exam Results</b>				
Passed No.: 3	percentage: 100%			
Failed No.: 0	percentage: 0%			
Grading of successful students (%) :				
A+	66.6%	A	A-	
B+		B	B-	33.3%
C+		C	C-	
D+		D	D-	



### C. Professional Information:

#### 1. Course teaching:

No.	Topics actually taught
1.	Introduction to drug pharmacokinetics
2.	Rules for drug metabolism
3.	Advanced concepts in drug metabolism
4.	Pharmacokinetics and clearance
5.	Solubility and permeability
6.	Barriers to drug exposure in living systems
7.	Transporters and blood brain barrier
8.	Metabolic stability and plasma protein binding
9.	Structural modification strategies to improve solution stability
10.	Permeability and permeability structure modification strategies.

#### Topics taught as a percentage of the content specified:

√ > 90 %	70 - 90 %	< 70 %
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#### Lecturers commitment of the course content:

√ > 90 %	70 - 90 %	< 70 %
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#### Coverage of exam topics to course content:

√ > 90 %	70 - 90 %	< 70 %
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#### 2. Used teaching and Learning Methods:

Lectures:	√
Practical Training/ Laboratory:	-
Seminar / Work shop:	√
Class Activity:	√
Case Study:	-
Other assignments / home work:	-

### 3. Student Assessment:

a. Method of Assessment	Percentage of total
Written examination	90
Oral examination	10
Practical / laboratory work	-
Semester Work	-

#### b. Members of examination committee:

1. Prof. Dr. Mohamed Ahmed Mostafa
2. Dr. Hazem Ghabour

#### c. Role of external evaluator (If any):

1. Revision of course contents, and suggestion of new topics.
2. Revision of teaching and learning strategy.
3. Suggest enhancement plan for course notes
4. Revision of Exam and related assignments

#### 4. Facilities and Teaching Materials

Totally adequate	
Adequate to some extent	√
Inadequate	
List any inadequacies:	

#### 5. Administrative constraints

##### List any difficulties encountered:

-

#### 6. Student evaluation of the course:

##### List any criticisms and response of course team

criticisms	response of course team
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7. Comments from external evaluator(s) (if exists) and response of course team:

Comment	Response

8. Course enhancement suggestions:

Progress on actions identified in the previous year's action plan:

Action	Completed	Not completed	Why not completed?
To discuss general synthetic reactions	√		

9. Action plan for academic year 2020 - 2021:

Action Required	Person responsible	Completion Date
Inclusion of more practical examples	Course Team of 2022	6/2022

	Name	Signature
Course Coordinator	Prof. Dr. Mohamed A. Mostafa	
Head of Department	Prof. Dr. Mohamed A. Mostafa	



Department of Medicinal Chemistry

Program: Master in Pharmaceutical Sciences  
(Medicinal Chemistry)

Synthetic Chemistry of Drugs  
Code: PDM-204

Course Report

Academic year: 2020/2021  
Second Semester

البرنامج

ماجستير كيمياء دوائية

تقرير مقرر

التشديد الكيميائي للأدوية

رئيس القسم

أ.د. محمد أحمد أحمد مصطفى

منسق المقرر

أ.د. محمد محمود الكرداوي



University: Mansoura

Faculty: Pharmacy

Department: Medicinal Chemistry

### A. Basic Information

Course Title and code:	Drug Synthesis (PDM-204)
Program on which this course is given:	Master
Total Credit hours:	2
Lectures: 2	Tutorial/Practical: -
Academic Level	Postgraduate
Academic year	2020/2021 - Second semester
Name of lecturers contributed to the delivery of this course	1. Prof. Mohamed El-Kerdawy 2. Dr. Mariam A. Ghaly
Course co-coordinator:	Prof. Mohamed El-Kerdawy
External evaluator:	Prof. Dr. Osama Elsabagh
Date of Department Council Approval	10-5-2022
Date of Faculty Council Approval	5-2022

### B. Statistical Information:

No. of students attending the course : 3					
No. of students completing the course: 2 , 1 absent					
<b>Exam Results</b>					
Passed No.: 2		percentage: 100%			
Failed No.: 0		percentage: 0%			
Grading of successful students (%):					
A+	50%	A	50%	A-	0%
B+	0%	B	0%	B-	0%
C+	0%	C	0%	C-	0%
D+	0%	D	0%	D-	0%

### C. Professional Information:

#### 1. Course teaching:

No.	Topics actually taught
1.	Introduction to Drug Synthesis
2.	Aromatase Inhibitors for breast Cancer
3.	Calcium Channel Blockers
4.	Amphetamine and Methyl phenidate
5.	Quinolone Antibiotics
6.	Angiotensin Inhibitors for Hypertension
7.	Triazole Antifungals
8.	Named Organic Reactions

#### Topics taught as a percentage of the content specified:

√ > 90 %	70 - 90 %	< 70 %
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#### Lecturers commitment of the course content:

√ > 90 %	70 - 90 %	< 70 %
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#### Coverage of exam topics to course content:

√ > 90 %	70 - 90 %	< 70 %
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#### 2. Used teaching and Learning Methods:

Lectures:	√
Practical Training/ Laboratory:	
Seminar / Work shop:	
Class Activity:	
Case Study:	
Other assignments / home work:	√

#### 3. Student Assessment:

a. Method of Assessment	Percentage of total
Written examination	90%
Oral examination	10%
Practical / laboratory work	-
Semester Work	-



**b. Members of examination committee:**

1. Prof. Mohamed El-Kerdawy
2. Dr. Mariam A. Ghaly

**c. Role of external evaluator (If any):**

Please make paraphrasing to the following sentences, or suggest new one

1. Revision of course contents, and suggest new topics.
2. Revision of teaching and learning strategy.
3. Revision of course notes and suggest enhancement plan
4. Revision of Exam and related assignments

**4. Facilities and Teaching Materials**

Totally adequate	√
Adequate to some extent	
Inadequate	
List any inadequacies:	

**5. Administrative constraints**

List any difficulties encountered:

**6. Student evaluation of the course: ....**

List any criticisms and response of course team

criticisms	response of course team
Reduction of some topics in Named Organic Reactions	Reduced to some extent

**7. Comments from external evaluator(s) (if exists) and response of course team:**

Comment	Response

**8. Course enhancement suggestions:**

Progress on actions identified in the previous year's action plan:

Action	Completed	Not completed	Why not completed?
Inclusion of types of reactions in students' assignments	√		

**9. Action plan for academic year 2021 - 2022:**

Action Required	Person responsible	Completion Date
Inclusion of more practical demonstrations	Teaching Team	March 2022

	Name	Signature
Course Coordinator	Prof. Mohamed El-Kerdawy	
Head of Department	Prof. Mohamed A. A. Moustafa	



## Department of Medicinal Chemistry



### Master in Pharmaceutical Sciences Course Report Academic year: 2020/2021 Second Semester

البرنامج  
ماجستير العلوم الصيدلانية (الكيمياء  
الدوائية)

رئيس القسم  
أ.د. محمد أحمد أحمد مصطفى

تقرير مقرر  
تطوير الأدوية

منسق المقرر  
أ.د. محمود بكر

## General

University	Mansoura
Faculty	Pharmacy
Department offering the course	Medicinal Chemistry
Department supervising the course	Medicinal Chemistry
Program on which the course is given	Master in Pharmaceutical Sciences Program
Academic Level	Postgraduate
Academic year	2020/2021 - Second semester

## A. Basic Information

Course Title and code:	Drug Development (PDM-201)
Program on which this course is given:	Master in Pharmaceutical Sciences
Total Credit hours:	2 hours
Lectures:	Tutorial/Practical:
Academic Level	Postgraduate
Academic year	2020/2021 - Second semester
Name of lecturers contributed to the delivery of this course	1. Prof. Dr. Mahmoud Bakr 2. Prof. Dr. Ihsan Ahmed
Course co-coordinator:	Prof. Dr. Mahmoud Bakr
External evaluator:	Prof. Dr. Osama Elsabagh
Date of Department Council Approval	10-5-2022
Date of Faculty Council Approval	5-2022

## B. Statistical Information:

No. of students attending the course: 4					
No. of students completing the course: 4					
<b>Exam Results</b>					
Passed No.: 4			Percentage: 100%		
Failed No.: 0			Percentage: 0%		
Grading of successful students (%):					
A+	50%	A	50%	A-	0%
B+	0%	B	0%	B-	0%
C+	0%	C	0%	C-	0%
D+	0%	D	0%	D-	0%



### C. Professional Information:

#### 1. Course teaching:

No.	Topics actually taught
1.	Introduction: the drug design and development processes.
2.	Drug Design Strategies
3.	Preclinical trials: Testing of Toxicity and safety, Drug metabolism, Pharmacology, Formulation and stability
4.	Clinical Trials: different phases and Ethical Issues
5.	Patents & Regulatory Affairs
6.	Chemical and Process Development
7.	Code of Practice: GLP, GMP & GCP.

#### Topics taught as a percentage of the content specified:

√ > 90 %	70 - 90 %	< 70 %
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#### Lecturers commitment of the course content:

√ > 90 %	70 - 90 %	< 70 %
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#### Coverage of exam topics to course content:

√ > 90 %	70 - 90 %	< 70 %
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#### 2. Used teaching and Learning Methods:

Lectures:	Lectures using available facilities as PPT, data-show. Lectures presented as videos on the University Portal Online learning
Seminar / Workshop:	Seminars by students on the topics
Class Activity:	Research assignments on the topics
Other assignments / homework:	Interactive Sessions using Microsoft Teams Online Assignments to enhance students' self-learning

#### 3. Student Assessment:

a. Method of Assessment	Percentage of total
Written examination	90%
Oral examination	10%
Practical / laboratory work	0%
Semester Work	0%

#### b. Members of examination committee:

1. Prof. Dr. Mahmoud Bakr
2. Prof. Dr. Ihsan Ahmed

#### c. Role of external evaluator (If any):

1. Revision of course contents, and Suggestion of new topics.
2. Revision of teaching and learning strategy.
3. Suggestion of enhancement plan
4. Revision of Exam and related assignments

#### 4. Facilities and Teaching Materials

Totally adequate	√
Adequate to some extent	
Inadequate	
List any inadequacies:	

#### 5. Administrative constraints

No constraints

#### 6. Student evaluation of the course: ....

List any criticisms and response of course team

Criticisms	Response of course team
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#### 7. Comments from external evaluator(s) (if exists) and response of course team:

Comment	Response
No comments	-----

#### 8. Course enhancement suggestions:

Progress on actions identified in the previous year's action plan:

Action	Completed	Not completed	Why not completed?
.....			



#### 9. Action plan for academic year 2021 - 2022:

Action Required	Person responsible	Completion Date
Nothing at the moment		

	Name	Signature
Course Coordinator	Prof. Dr. Mahmoud Bakr	
Head of Department	Prof. Dr. Mohamed A. A. Moustafa	



Department of Medicinal Chemistry



Master in Pharmaceutical Sciences  
Course Report  
Academic year: 2020/2021  
Second Semester

البرنامج  
ماجستير العلوم الصيدلانية (الكيمياء  
الدوائية)

رئيس القسم  
أ.د. محمد أحمد أحمد مصطفى

تقرير مقرر  
إثبات التركيب البنائي للأدوية  
Structure Elucidation of Drugs

منسق المقرر  
أ.د. نادية صبرى الجوهري





## General

University	Mansoura
Faculty	Pharmacy
Department offering the course	Medicinal Chemistry
Department supervising the course	Medicinal Chemistry
Program on which the course is given	Master in Pharmaceutical Sciences Program
Academic Level	Postgraduate
Academic year	2020/2021 - Second semester

## A. Basic Information

Course Title and code:	Structure Elucidation of Drugs (PDM-203)
Program on which this course is given:	Master in Pharmaceutical Sciences
Total Credit hours:	20 hours
Lectures:	<b>Tutorial/Practical:</b>
Academic Level	Postgraduate
Academic year	2020/2021 - Second semester
Name of lecturers contributed to the delivery of this course	1. Prof. Dr. Hussein I. El-Subbagh 2. Prof. Dr. Nadia S. El-Gohary
Course co-coordinator:	Prof. Dr. Nadia S. El-Gohary
External evaluator:	Prof. Dr. Osama Elsabagh
Date of Department Council Approval	10-5-2022
Date of Faculty Council Approval	5-2022

## B. Statistical Information:

No. of students attending the course: 4					
No. of students completing the course: 4					
<b>Exam Results</b>					
Passed No.: 4		Percentage: 100%			
Failed No.: 0		Percentage: 0%			
Grading of successful students (%):					
A+	0%	A	50%	A-	0%
B+	0%	B	0%	B-	0%
C+	0%	C	50%	C-	0%
D+	0%	D	0%	D-	0%

## C. Professional Information:

### 1. Course teaching:

No.	Topics actually taught
1.	NMR spectroscopy [1H and 13C, 2D (1H1H COSY&HETCOR spectrum, ESR, MRI, saturation transfer, Collective spectroscopic problems)]
2.	IR spectroscopy
3.	The mass spectrometry and exact mass determinations

Topics taught as a percentage of the content specified:

√ > 90 %	70 - 90 %	< 70 %
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Lecturers commitment of the course content:

√ > 90 %	70 - 90 %	< 70 %
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Coverage of exam topics to course content:

√ > 90 %	70 - 90 %	< 70 %
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### 2. Used teaching and Learning Methods:

Lectures:	Online through Microsoft teams
Class Activity:	Open discussion

### 3. Student Assessment:

a. Method of Assessment	Percentage of total
Written examination	90%
Oral examination	10%
Practical / laboratory work	0%
Semester Work	0%

### b. Members of examination committee:

1. Prof. Dr. Hussein I. El-Subbagh
2. Prof. Dr. Nadia S. El-Gohary

### c. Role of external evaluator (If any):

1. Revision of course contents.
2. Revision of teaching and learning strategy.
3. Revision of course notes and suggest enhancement plan.
4. Revision of exam and related assignments.



#### 4. Facilities and Teaching Materials

Totally adequate	√
Adequate to some extent	
Inadequate	
List any inadequacies:	

#### 5. Administrative constraints

No constraints
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#### 6. Student evaluation of the course: ....

List any criticisms and response of course team

criticisms	Response of course team
There are no criticisms from students	-----

#### 7. Comments from external evaluator(s) (if exists) and response of course team:

Comment	Response
No comments	-----

#### 8. Course enhancement suggestions:

Progress on actions identified in the previous year's action plan:

Action	Completed	Not completed	Why not completed?
1. Performing periodical quizzes on topics that have been taught.	√		
2. Teaching what we intend to test.			
3. Arranging periodical sessions with students. Ask them what is working; what is not working? Be ready to facilitate the discussion.			

#### 9. Action plan for academic year 2021 - 2022:

Action Required	Person responsible	Completion Date
Implementing technology in teaching	Lecturers teaching the course	April-June 2022
Encouraging self-learning	Lecturers teaching the course	April-June 2022
Encouraging the students to develop their own questions about the taught topics	Lecturers teaching the course	April-June 2022

	Name	Signature
Course Coordinator	Prof. Dr. Nadia S. El-Gohary	
Head of Department	Prof. Dr. Mohamed A. A. Moustafa	