



## Department of Medicinal Chemistry

Program:  
Drug Design Diploma

Course: Drug Regulations  
Code: (PDD-104)

Academic year: 2020/2021  
First Semester

### البرنامج

دبلوم تصميم الأدوية

### تقرير مقرر

قواعد ترخيص الدواء

### رئيس القسم

أ.د. محمد أحمد أحمد مصطفى

### منسق المقرر

أ.د. محمود بكر

University: Mansoura

Faculty: Pharmacy

Department: Medicinal Chemistry

### A. Basic Information

Course Title and code:	Drug Regulations (PDD-104)
Program on which this course is given:	Drug Design Diploma
Total Credit hours:	3 C.H.
Lectures:	2 hrs
Tutorial/Practical:	2 hrs
Academic Level	Postgraduate
Academic year	2020/2021 - First semester
Name of lecturers contributed to the delivery of this course	1. Prof Dr Mahmoud Bakr 2. Dr Ahmed Abou-Bakr 3. Mrs. Amal El-Masry
Course co-coordinator:	Prof Dr Mahmoud Bakr
External evaluator:	Prof. Dr. Osama Elsabagh
Date of Department Council Approval	10 /05/ 2022
Date of Faculty Council Approval	05/ 2022

### B. Statistical Information:

No. of students attending the course : 16					
No. of students completing the course: 13					
<b>Exam Results</b>					
Passed No.: 13			percentage: 100%		
Failed No.: -			percentage: 0%		
Grading of successful students (%) :					
A+	3	A	4	A-	-
B+	2	B	1	B-	1
C+	-	C	-	C-	-
D+	1	D	1	D-	-



### C. Professional Information:

#### 1. Course teaching:

No.	Topics actually taught
1.	Definitions and Historical background
2.	Drug discovery and pre-clinical studies & IND application
3.	Clinical trials & New Drug Application
4.	Drug approval and Marketing
5.	Examples of newly approved drugs
6.	Egyptian Drug Authority

#### 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 lectures
Practical Training/ Laboratory:	Tutorial online sessions
Seminar / Work shop:	Seminars presented online by students
Class Activity:	
Case Study:	
Other assignments / home work:	

#### 3. Student Assessment:

a. Method of Assessment	Percentage of total
Written examination	70
Oral examination	10
Practical / laboratory work	20
Semester Work	--



<b>b. Members of examination committee:</b> 1. Prof Dr Mahmoud Bakr ( Coordinator) 2. Dr Ahmed Abo-bakr
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<b>c. Role of external evaluator (If any):</b> 1. Revision of course contents, and suggest new topics. X 2. Revision of teaching and learning strategy. X 3. Revision of course notes and suggest enhancement plan X 4. Revision of Exam and related assignments √
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#### 4. Facilities and Teaching Materials

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

#### 5. Administrative constraints

List any difficulties encountered: -----
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#### 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
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#### 8. Course enhancement suggestions:

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

Action	Completed	Not completed	Why not completed?
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#### 9. Action plan for academic year 2021/2022:

Action Required	Person responsible	Completion Date

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



Department of Medicinal Chemistry

Program: Diploma of Design and Chemical Synthesis of  
Drugs)

Course: Drug Metabolism.  
Code: (PDD-103)

Course Report

Academic year: 2020/2021  
First Semester

البرنامج

دبلوم

تقرير مقرر

الأيض الدوائي

رئيس القسم

أ.د. محمد أحمد مصطفى

منسق المقرر

أ.د. علي عبد الرحمن الإمام



**University:** Mansoura

**Faculty:** Pharmacy

**Department:** Medicinal Chemistry

### A. Basic Information

Course Title and code:	Drug Metabolism PDD-103
Program on which this course is given:	Diploma of Design and Chemical Synthesis of Drugs
Total Credit hours:	24
Lectures:	Tutorial/Practical:
Academic Level	Postgraduate
Academic year	2020/2021-
Name of lecturers contributed to the delivery of this course	1. Prof. Dr. Ali A. El-Emam 2. Dr. Mariam A. Ghaly
Course co-coordinator:	Prof. Dr. Ali A. El-Emam
External evaluator:	Prof. Dr. Osama Elsabagh
Date of Department Council Approval	10/05/2022
Date of Faculty Council Approval	05/2022

### B. Statistical Information:

No. of students attending the course : No 16					
No. of students completing the course: No 13					
<b>Exam Results</b>					
Passed No.:	13	percentage: %	100		
Failed No.:	0	percentage: %	0		
Grading of successful students (%) :					
A+	0 %	A	50 %	A-	0 %
B+	0 %	B	50 %	B-	0 %
C+	50 %	C	50 %	C-	0 %
D+	50 %	D	50 %	D-	0 %

### C. Professional Information:

#### 1. Course teaching:

No.	Topics actually taught
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1.	Introduction to drug metabolism
2.	Phase I reactions: Oxidation
3.	Phase I reactions: Reduction and Hydrolysis
4.	Phase II reactions
5.	Pharmacologically active metabolites
6.	Factors affecting drug metabolism

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:	Power Point Presentation
Practical Training/ Laboratory:	---
Seminar / Work shop:	Scientific Articles
Class Activity:	Open Discussion
Case Study:	---
Other assignments / home work:	---

### 3. Student Assessment:

a. Method of Assessment	Percentage of total
Written examination	70 %
Oral examination	10 %
Practical / laboratory work	20 %
Semester Work	---

#### b. Members of examination committee:

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- i. Prof. Dr. Ali A. El-Emam
- ii. 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:  
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**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
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**8. Course enhancement suggestions:**

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

Action	Completed	Not completed	Why not completed?
EX: . Upgrade course note Or Upgrading teaching strategy in practical sessions from drawing and illustration to presentations ..... .....	√		

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

Action Required	Person responsible	Completion Date
To discuss virtual prediction of metabolism of new compounds	Course Team of 2022	7 / 2022

	Name	Signature
Course Coordinator	Prof. Dr. Ali A. El-Emam	
Head of Department	Prof. Dr. Mohammed A. A. Moustafa	



Department of : Medicinal chemistry

Program: Diploma in Pharmaceutical Sciences  
(Drug Design)

Course: Drug targeting  
Code: (PDD 102)

Course Report

Academic year: 2020/2021  
First Semester

البرنامج

دبلوم تصميم الادوية

تقرير مقرر

تهديف الدواء

رئيس القسم

أ.د. محمد أحمد أحمد مصطفى

منسق المقرر

د/ حازم غبور



University: Mansoura University

Faculty: Faculty of pharmacy.

Department: Medicinal chemistry.

#### A. Basic Information

Course Title and code:	Drug targeting Code: (PDD 102)
Program on which this course is given:	Diploma in drug design
Total Credit hours:	3
Lectures:	Tutorial/Practical:
Academic Level	Postgraduate
Academic year	2020 /2021- First
Name of lecturers contributed to the delivery of this course	1. Dr/ Hazem ghabor
Course co-coordinator:	Dr/ Hazem ghabor
External evaluator:	Prof. Dr. Osama Elsabagh
Date of Department Council Approval	10/05/2022
Date of Faculty Council Approval	05/2022

#### B. Statistical Information:

No. of students attending the course : 16					
No. of students completing the course: 13					
<u>Exam Results</u>					
Passed No.:13			percentage:100%		
Failed No.:0			percentage:0%		
Grading of successful students (%) :					
A+		A		A-	
B+		B		B-	
C+		C		C-	
D+		D		D-	

#### C. Professional Information:

##### 1. Course teaching:



No.	Topics actually taught
1.	Protein structure and function
2.	Enzyme structure and function
3.	Enzymes as drug targets
4.	Receptor structure and function
5.	Receptor as drug targets
6.	Design of agonist and antagonist
7.	Nucleic acid as drug targets

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	70%
Oral examination	10%
Practical / laboratory work	20%
Semester Work	-----

<b>b. Members of examination committee:</b> 1. Dr/ Hazem ghabor
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<b>c. Role of external evaluator (If any):</b> 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
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4. Facilities and Teaching Materials

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

5. Administrative constraints

List any difficulties encountered: Covid 19 pandemic
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6. Student evaluation of the course: ....

List any criticisms and response of course team

criticisms	response of course team

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?
EX: . Upgrade course note Or Upgrading teaching strategy in practical sessions from drawing and illustration to presentations ..... .....	√		

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

Action Required	Person responsible	Completion Date
Upgrading teaching strategy in practical sessions from drawing and illustration to presentations	Dr/ Hazem ghabor	2020/2021

	Name	Signature
Course Coordinator	Dr/ Hazem ghabor	
Head of Department	Prof. Dr. Mohammed A. A. Moustafa	



Department of : Medicinal chemistry

Program: Diploma in Pharmaceutical Sciences  
(Drug Design)

Course: Principles Of Drug Design  
Code: (PDD 101)

Course Report

Academic year: 2020/2021  
First Semester

البرنامج

دبلوم تصميم الادوية

تقرير مقرر

اساسيات تصميم الدواء

رئيس القسم

أ.د. محمد أحمد أحمد مصطفى

منسق المقرر

أ.د. محمد أحمد أحمد مصطفى





University: Mansoura University  
Faculty: Faculty of pharmacy.  
Department: Medicinal chemistry.

### A. Basic Information

Course Title and code:	Principles of drug design Code:(PDD 101)
Program on which this course is given:	Diploma in drug design
Total Credit hours:	3
Lectures:	Tutorial/Practical:
Academic Level	Postgraduate
Academic year	2020 /2021- First
Name of lecturers contributed to the delivery of this course	1. Prof Dr/ Mohamed Ahmed Mostufa 2. Dr/ Selwan Mahmoud
Course co-coordinator:	
External evaluator:	Prof. Dr. Osama Elsabagh
Date of Department Council Approval	10/05/2022
Date of Faculty Council Approval	05/2022

### B. Statistical Information:

No. of students attending the course : 16				
No. of students completing the course: 14				
<b>Exam Results</b>				
Passed No.:13		percentage:100%		
Failed No.:0		percentage:0%		
Grading of successful students (%) :				
A+		A		A-
B+		B		B-
C+		C		C-
D+		D		D-

### C. Professional Information:

#### 1. Course teaching:

No.	Topics actually taught
1.	Fundamentals of drug design
2.	Drug metabolism
3.	Chiral switch.
4.	Pro-drugs.
5.	Depot forms of prodrugs
6.	Bio-precursors
7.	QSAR
8.	Bio-isosteric substitution in drug design

#### 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	70%
Oral examination	10%
Practical / laboratory work	20%
Semester Work	-----



**b. Members of examination committee:**

1. Prof Dr/ Mohamed Ahmed Mostufa
2. Dr/ Selwan Mahmoud

**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:  
Covid 19 pandemic

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

List any criticisms and response of course team

criticisms	response of course team

**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?
EX: . Upgrade course note Or Upgrading teaching strategy in practical sessions from drawing and illustration to presentations ..... .....	√		

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

Action Required	Person responsible	Completion Date
Upgrading teaching strategy in practical sessions from drawing and illustration to presentations	Dr/ Selwan Mahmoud	2020/2021

	Name	Signature
Course Coordinator	Prof. Dr. Mohammed A. A. Moustafa	
Head of Department	Prof. Dr. Mohammed A. A. Moustafa	



### Department of Medicinal Chemistry



### Drug Design Diploma Course Report Academic year: 2020/2021 Second Semester

#### البرنامج

دبلوم تصميم الأدوية (الكيمياء الدوائية)

#### تقرير مقرر

موضوعات متقدمة في تصميم  
الأدوية

#### رئيس القسم

أ.د. محمد أحمد أحمد مصطفى

#### منسق المقرر

د. حازم أحمد المرسي عبور

### A. Basic Information

Course Title and code:	Advanced Courses in Drug Design (PDD-107)
Program on which this course is given:	Diploma in Pharmaceutical Sciences (Medicinal Chemistry)
Total Credit hours:	Total : 2 Credit 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. Ihsan Ahmed AboDahab 2. Dr. Hazem Ahmed Ghabbour
Course co-coordinator:	Dr. Hazem Ahmed Ghabbour
External evaluator:	
Date of Department Council Approval	10/5/2022
Date of Faculty Council Approval	5/2022

### B. Statistical Information:

No. of students attending the course: 13					
No. of students completing the course: 13					
<b>Exam Results</b>					
Passed No.: 12		percentage: 92.3%			
Failed No.: 1		percentage: 7.7%			
Grading of successful students (%) :					
A+	7.7%	A	38.5%	A-	
B+	15.4%	B	7.7%	B-	7.7%
C+	7.7%	C		C-	
D+		D	7.7%	D-	

### C. Professional Information:

#### 1. Course teaching:

No.	Topics actually taught
1.	<ul style="list-style-type: none"> <li>Drug Discovery and drug development</li> <li>ADMET</li> <li>Active mapping</li> <li>Pharmacophore predication</li> <li>Unique properties of Fluorine and their relevance to medicinal chemistry and chemical biology.</li> <li>Mimic and block effect of Fluorine atom</li> </ul>
2.	<ul style="list-style-type: none"> <li>Advances in X-ray crystallography</li> </ul>



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 / Workshop:	√
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. Ihsan Ahmed AboDahab
2. Dr. Hazem Ahmed Ghabbour

c. Role of external evaluator (If any):

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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: None
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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?
Ex: . Upgrade course note	√		

	Name	Signature
Course Coordinator	Dr. Hazem Ahmed Ghabbour	
Head of Department	Prof. Mohamed A. Moustafa	



## Department of Medicinal Chemistry



### Drug Design Diploma Course Report Academic year: 2020/2021 Second Semester

#### البرنامج

دبلوم تصميم الأدوية (الكيمياء الدوائية)

#### تقرير مقرر

تشبيد الأدوية

Drug Synthesis

#### 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 (PDD-106)
Program on which this course is given:	Drug Design Diploma
Total Credit hours:	3
Lectures: 2	Tutorial/Practical: 1
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:	
Date of Department Council Approval	10/5/2022
Date of Faculty Council Approval	5/2022

#### B. Statistical Information:

No. of students attending the course : 13					
No. of students completing the course: 11 , 2 absent					
<u>Exam Results</u>					
Passed No.: 10/11		percentage: 76.92%			
Failed No.: 1/11		percentage: 7.69%			
Grading of successful students (%) :					
A+	40%	A	20%	A-	
B+		B	10%	B-	10%
C+		C	10%	C-	10%
D+		D		D-	



### 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	70%
Oral examination	10%
Practical / laboratory work	20%
Semester Work	-

<b>b. Members of examination committee:</b>
1. Prof. Mohamed El-Kerdawy
2. Dr. Mariam A. Ghaly

<b>c. Role of external evaluator (If any):</b>
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:
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#### 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	Practical Teaching Team	March 2022

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



Department of Medicinal Chemistry



Program: Diploma in Pharmaceutical Sciences(Medicinal Chemistry)

Course: Drug Quality control

Code: (PDD-105)

(2020/2021)

Academic year: 2020/2021

First Semester

البرنامج

دبلومته

تقرير مقرر

الرقابة النوعية الادوية

Drug quality control

رئيس القسم

أ.د. محمد أحمد أحمد مصطفى

منسق المقرر

د. احمد حلمي ابراهيم



### A. Basic Information

Course Title and code:	Drug Quality control (PDD-105)
Program on which this course is given:	Diploma in Pharmaceutical Sciences (Medicinal Chemistry)
Total Credit hours:	Total : 2 Credit hours.
Lectures:	Tutorial/Practical:
Academic Level	Postgraduate
Academic year	2020/2021 - Second semester
Name of lecturers contributed to the delivery of this course	1. Dr. Ahmed Helmy Ibrahim 2. Dr. Ahmed AbuBakr Mohamed
Course co-coordinator:	Dr. Ahmed Helmy Ibrahim
External evaluator:	
Date of Department Council Approval	10/5/2022
Date of Faculty Council Approval	5/2022

### B. Statistical Information:

No. of students attending the course : 14				
No. of students completing the course: 13				
<b>Exam Results</b>				
Passed No.: 12		percentage: 92.3%		
Failed No.: 1		percentage: 7.7%		
Grading of successful students (%) :				
A+	7.7%	A	15.4%	A-
B+	7.7%	B	23%	B-
C+	7.7%	C	15.4%	C-
D+		D		D-

### C. Professional Information:

#### 1. Course teaching:

No.	Topics actually taught
1.	The fundamental concepts of functional group analysis.
2.	Analysis of phenolic compounds. Analysis of amine containing compounds. Analysis of thiol containing compounds.
3.	Micro emulsion HPLC. Pharmaceutical stress testing predicting drug degradation. Overview of hydrolytic degradation.
4.	Degradation of common functional groups.



### 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 / Workshop:	√
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. Dr. Ahmed Helmy Ibrahim
2. Dr. Ahmed AbuBakr Mohamed





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

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: None

**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
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**8. Course enhancement suggestions:**

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

Action	Completed	Not completed	Why not completed?
Ex: . Upgrade course note	√		

	Name	Signature
Course Coordinator	Dr. Ahmed Helmy Ibrahim	
Head of Department	Prof. Mohamed A. Moustafa	



**Department of Medicinal Chemistry**



**Drug Design Diploma  
Course Report  
Academic year: 2020/2021  
Second Semester**

البرنامج  
دبلوم تصميم الأدوية (الكيمياء الدوائية)

تقرير مقرر  
إثبات التركيب البنائي للأدوية  
Structure Elucidation of Drugs

رئيس القسم  
أ. د. محمد أحمد أحمد مصطفى

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	Drug Design Diploma
Academic Level	Postgraduate
Academic year	2020/2021 - Second semester

## A. Basic Information

Course Title and code:	Structure Elucidation of Drugs (PDD-109)
Program on which this course is given:	Drug Design Diploma
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:	
Date of Department Council Approval	مجلس قسم شهر مايو
Date of Faculty Council Approval	

## B. Statistical Information:

No. of students attending the course: 13					
No. of students completing the course: 12					
<b>Exam Results</b>					
Passed No.: 11		Percentage: 91.67%			
Failed No.: 1		Percentage: 8.33%			
Grading of successful students (%):					
A+	0%	A	36.36%	A-	0%
B+	9.09%	B	27.27%	B-	0%
C+	0%	C	9.09%	C-	9.09%
D+	0%	D	9.09%	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	