



Department of: Pharmaceutical Organic Chemistry

Program: PhD in Pharmaceutical Sciences
(*Pharmaceutical Organic Chemistry*)

Course: **Advanced Heterocyclic Chemistry**
Code: (POP-303)

Course Report

Academic year: *2020/2021*
Second Semester

البرنامج

دكتورة

تقرير مقرر

الكيمياء الحلقية الغيرمتجانسة

رئيس القسم

أ.د. شاهنדה متولي المسيري

منسق المقرر

إ.د. ماجدة نصر أحمد نصر



University: Mansoura

Faculty: Pharmacy

Department: Pharmaceutical Organic Chemistry

A. Basic Information

Course Title and code:	Advanced Heterocyclic Chemistry (POP-303)
Program on which this course is given:	PhD degree in Pharmaceutical science
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. Dr. Magda Nasr Ahmed Nasr 2. Prof. Dr. Shahenda Metwally El-Messery
Course co-coordinator:	Prof. Dr. Magda Nasr Ahmed Nasr
External evaluator:	---
Date of Department Council Approval	10/7/2021
Date of Faculty Council Approval	25/8/2021

B. Statistical Information:

No. of students attending the course : 4					
No. of students completing the course: 4					
Exam Results					
Passed No.: 3		percentage: 75%			
Failed No.: 1		percentage: 25%			
Grading of successful students (%):					
A+	33.33	A	33.33	A-	
B+		B		B-	
C+		C	33.33	C-	
D+		D		D-	



C. Professional Information:

1. Course teaching:

No.	Topics actually taught
1.	Introduction to heterocyclic chemistry: Nomenclature, Classification, Reactivity
2.	Five-membered Heterocycles (with 1 heteroatom)
3.	Five-membered Heterocycles (with more than 1 heteroatom)
4.	Drugs containing five-membered Heterocycles and its uses
5.	Six-membered Heterocycles (with 1 heteroatom)
6.	Six-membered Heterocycles (with more than 1 heteroatom)
7.	Drugs containing six-membered Heterocycles and its uses

Topics taught as a percentage of the content specified:

√ > 90 %	70 - 90 %	< 70 %
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Lecturer's 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. Magda Nasr Ahmed Nasr
2. Prof. Dr. Shahenda Metwally El-Messery

c. Role of external evaluator (If any):

1. Suggest new topics. .
2. Revision of course notes and suggest enhancement plan
3. Use new recent references

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

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?
Upgrade course note	√		

9. Action plan for academic year 2021 - 2022:

Action Required	Person responsible	Completion Date
1. Study of more recent drugs containing heterocyclic nucleus	Staff members of this course for the academic year 2021-2022	2022

	Name	Signature
Course Coordinator	Prof. Dr. Magda Nasr Ahmed Nasr	
Head of Department	Prof. Shahenda Metwally El-Messery	



Mansoura University
Faculty of Pharmacy
Quality Assurance Unit
Course Report
2020/ 2021
Postgraduate Studies



Department of Pharmaceutical Organic chemistry



Program: PhD in Pharmaceutical Sciences
(*Pharmaceutical Organic chemistry*)

Course: New Trends in Drug Synthesis NanooChemistry,
Biotechnology, Green Chemistry
Code: (POP 303)

Academic year: 2020/2021
Second Semester

البرنامج

دكتوراة

تقرير مقرر

الاتجاهات الحديثة في تشييد الادوية -كيمياء
النانو-التقنية الحيوية-الكيمياء النظيفة

رئيس القسم

أ.د. شاهنده متولي المسيري

منسق المقرر

أ.د/ محمد عادل مسعود



University: Mansoura

Faculty: Pharmacy

Department: Pharmaceutical Organic Chemistry

A. Basic Information

Course Title and code:	New Trends in Drug Synthesis NanooChemistry, Biotechnology, Green Chemistry
Program on which this course is given:	PhD
Total Credit hours:	2
Lectures: Tutorial	
Academic Level	Postgraduate
Academic year	2019/ 2020 – First semester
Name of lecturers contributed to the delivery of this course	1- Prof. Dr. Mohamed Adel Masoud 2- Prof. Dr. Fatma Goda
Course co-coordinator:	Prof. Dr. Mohamed Adel Masoud
External evaluator:	None
Date of Department Approval	10/7/2021
Date of Faculty Council Approval	25/8/2021

B. Statistical Information:

No. of students attending the course : 4					
No. of students completing the course: 3					
Exam Results					
Passed No.: 3		percentage: 100%			
Failed No.: 0		percentage: 0%			
Grading of successful students (%):					
A+		A		A-	
B+		B	66.67	B-	
C+		C		C-	
D+	33.33	D		D-	



C. Professional Information:

1. Course teaching:

No.	Topics actually taught
1.	Introduction in Nano chemistry
2.	Basic concepts of Nano chemistry
3.	Nanochemistry applications in chemistry.
4.	Introduction in Biotechnology
5.	Basic Concepts in Biotechnology
6.	Applications of Biotechnology in chemistry
7.	Green Chemistry Concepts
8.	Multi-step Synthesis
9.	Naturally synthesized products, applications in pharmaceutical field
10.	Environmental persistence and environmental fate and transport applied to chemical use and release
11.	Selected synthetic 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:	Self-learning



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 Adel Masoud
2. Prof. Dr. Fatma Goda

c. Role of external evaluator (If any):

None

4. Facilities and Teaching Materials

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

5. Administrative constraints

None

6. Student evaluation of the course:

Criticisms	response of course team
Corona Epidemic	Recording Lectures and Uploading through Electronic Education Platform

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

Comment	Response
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None	
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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?
Upgrade course subjects	√		

9. Action plan for academic year 2021 - 2022:

Action Required	Person responsible	Completion Date
1. Study the role of nanochemistry from drug industry point of view.	Course Lecturers	2022
2. More course subjects to be taught considering green chemistry.	Course Lecturers	2022

	Name	Signature
Course Coordinator	Prof. Mohamed Adel Masoud	
Head of Department	Prof. Shahenda Metwaly El-Messery	