



**Department of: Pharmaceutical Organic Chemistry.**

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

**Course: Bioorganic Chemistry**  
**Code: (POP-302)**

**Course Report**

**Academic year: 2021/2022**  
**First Semester**

**البرنامج**

دكتوراه

**تقرير مقرر**

الكيمياء الحيوية

**رئيس القسم**

أ.د/ شاهنדה متولى المسيرى

**منسق المقرر**

أ.د/ ماجدة نصر أحمد نصر



University: Mansoura

Faculty: Pharmacy

Department: Pharm. Organic Chemistry

### A. Basic Information

Course Title and code:	Bioorganic Chemistry (POP 302)
Program on which this course is given:	PhD
Total Credit hours:	2
Lectures: 2	Tutorial/Practical: -
Academic Level	Postgraduate
Academic year	2021/2022 - first semester
Name of lecturers contributed to the delivery of this course	1. Prof .Magda Nasr Ahmed Nasr 2. Prof. Shahenda Metwally El-Messery
Course co-coordinator:	Prof. Magda Nasr Ahmed Nasr
External evaluator:	Assoc Prof Mohammed El-Sawah
Date of Department Council Approval	9- 4- 2022
Date of Faculty Council Approval	

### B. Statistical Information:

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



## C. Professional Information:

### 1. Course teaching:

No.	Topics actually taught
1.	Introduction to carbohydrates structure and classification
2.	Stereochemistry of monosaccharides
3.	Oxidation and reduction of carbohydrates,
4.	Reactions of carbohydrates, chain extension
5.	Carbohydrates role in biological function
6.	Classification of amino acids,
7.	stereochemistry of amino acids
8.	Synthesis of amino acids and peptides
9.	Synthesis of peptides
10.	Targeting proteins for 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:	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 .Magda Nasr Ahmed Nasr
2. Prof. Shahenda Metwally El-Messery

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

Present

Updating Scientific 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
Updating Scientific References	Changing Scientific References

### 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 and teaching strategy in theoretical sessions	√		

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

Action Required	Person responsible	Completion Date
1. Study the role of bioorganic chemistry in drug design and synthesis	Course Lecturers	<b>2022 - 2023</b>

	Name	Signature
<b>Course Coordinator</b>	<b>Prof .Magda Nasr Ahmed Nasr</b>	
<b>Head of Department</b>	<b>Prof. Shahenda Metwaly El-Messery</b>	



**Department of: Pharmaceutical Organic Chemistry.**

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

**Course: Organometallic Chemistry**  
**Code: (POP-301)**

**Course Report**

**Academic year: 2021/2022**  
**First Semester**

**البرنامج**

دكتوراه

**تقرير مقرر**

الكيمياء العضوية المعدنية

**رئيس القسم**

أ.د/ شاهنדה متولى المسيرى

**منسق المقرر**

أ.د/ محمد عادل مسعود



University: Mansoura

Faculty: Pharmacy

Department: Pharm. Organic Chemistry

### A. Basic Information

Course Title and code:	Organometallic Chemistry (POP 301)
Program on which this course is given:	PhD
Total Credit hours:	2
Lectures: 2	Tutorial/Practical: -
Academic Level	Postgraduate
Academic year	2021/2022 - first semester
Name of lecturers contributed to the delivery of this course	1. Prof .Mohamed Adel Massoud 2. Prof. Fatma Elnabawia
Course co-coordinator:	Prof. Mohamed Adel Massoud
External evaluator:	
Date of Department Council Approval	9/4/2022
Date of Faculty Council Approval	

### B. Statistical Information:

No. of students attending the course : 1

No. of students completing the course: 1

#### Exam Results

Passed No.:1

percentage: 100%

Failed No.: no

percentage: 0%

Grading of successful students (%):

A+	100%	A	A-
B+		B	B-
C+		C	C-
D+		D	D-



## C. Professional Information:

### 1. Course teaching:

No.	Topics actually taught
1.	Introduction to organometallic chemistry
2.	Covalent and ionic model: Ligands and transition metals
3.	General properties of organometallic complexes
4.	Metal Alkyls: preparations, properties, and reactions
5.	Metal hydrides: preparations, properties, and reactions
6.	Carbonyls: synthesis and ligand substitution reactions
7.	Olefinic complexes: synthesis and reactions
8.	Allylic complexes: synthesis and reactions
9.	Butadiene complexes: synthesis and reactions
10.	Oxidative addition and reductive elimination
11.	Group theory: symmetry elements and point 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 / 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. Mohamd Adel Massoud
2. Prof. Fatma Elnabawia

#### 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

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 and teaching strategy in theoretical sessions	√		

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

Action Required	Person responsible	Completion Date
1. Study the role of organometallic in drug polymers.	Course Lecturers	
2. More course subjects to be taught considering organometallic in pharmaceutical interest .	Course Lecturers	

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