

Postgraduate Studies





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

البريامج

<u>تقرير مقرر</u> الكيمياء الحيوية

رئیس القسم أ.د/ شاهندة متولى المسيرى منسق المقرر أ.د/ ماجدة نصر أحمد نصر



Postgraduate Studies



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 | Prof .Magda Nasr Ahmed Nasr 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

Exam Results

Passed No.:1 percentage: 100%

Failed No.: no percentage:0%

Grading of successful students (%):

| A + | A | 100% A- | |
|------------|---|---------|--|
| B + | В | В- | |
| 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 % |
|----------|-----------|--------|
|----------|-----------|--------|

Lecturers commitment of the course content:

| √ > 90 % | 70 - 90 % | < 70 % |
|----------|-----------|--------|
|----------|-----------|--------|

Coverage of exam topics to course content:

| √ > 90 % | 70 - 90 % | < 70 % |
|----------|-----------|--------|
|----------|-----------|--------|

2. Used teaching and Learning Methods:

| Lectures: | \checkmark |
|---------------------------------|-----------------------------|
| Practical Training/ Laboratory: | - |
| Seminar / Work shop: | - |
| Class Activity: | √ |
| Case Study: | √ |
| Other assignments / home work: | Self-learning Self-learning |







3. Student Assessment:

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

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| h. | Viem | bers o | t exam | ination | 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 |
|------------|-------------------------|
| - | - |
| | |





Postgraduate Studies

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 | $\sqrt{}$ | | |

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 | 2022 - 2023 |

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



Postgraduate Studies





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 دكته، اه

<u>تفرير مفرر</u> الكيمياء العضوية المعدنية

رئیس القسم أ.د/ شاهندة متولى المسيرى منسق المقرر أ.د/ محمد عادل مسعود





Postgraduate Studies

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 |
| delivery of this course | 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 (%):

| \mathbf{A} + | 100% | A | A- |
|----------------|------|---|-----------|
| B + | | В | В- |
| C + | | C | C- |
| D+ | | D | D- |





Postgraduate Studies

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 % |
|----------|-----------|--------|
|----------|-----------|--------|

Lecturers commitment of the course content:

| $\sqrt{} > 90 \%$ $70 - 90 \%$ $< 70 \%$ |
|--|
|--|

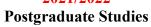
Coverage of exam topics to course content:

| √ > 90 % | 70 - 90 % | < 70 % |
|----------|-----------|--------|
|----------|-----------|--------|

2. Used teaching and Learning Methods:

| Lectures: | V |
|---------------------------------|---------------|
| Practical Training/ Laboratory: | - |
| Seminar / Work shop: | - |
| Class Activity: | \checkmark |
| 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 | - |

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- 1. Prof. Mohamd Adel Massoud
- 2. Prof. Fatma Elnabawia

| c. Role of external evaluator (If any): |
|---|
| None |

4. Facilities and Teaching Materials

| Totally adequate | $\sqrt{}$ |
|-------------------------|-----------|
| Adequate to some extent | |
| Inadequate | |
| List any inadequacies: | |

5. Administrative constraints

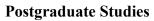
| List any difficulties encountered: - | | |
|--------------------------------------|--|--|
| | | |
| | | |

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 | $\sqrt{}$ | | |

9. Action plan for academic year 2021 - 2022:

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

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