

# Course Report

Advanced Heterocyclic  
Chemistry  
(osp3)

2019-2020

## Annual Course Report

**University:** Zagazig

**Faculty:** Pharmacy

**Department:** Pharmaceutical Organic Chemistry

### A – Basic Information:

1. **Title and Code:** Advanced Heterocyclic Chemistry (osp3)
2. **Program(s) on which this course is given:** Master Program.
3. **Year / Level of programs:**
4. **Units / Credit hours:** 4 hrs

<b>Lectures</b>	4 hrs/week.	<b>Practical sessions</b>	-	<b>Total</b>	4 hrs/week.
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### 5. Names of lecturers contributing to the delivery of the course:

- Prof. Dr. / Azza M. Kadry
- Prof. Dr. Eatedal H. Abd el-aal

### 6. Course coordinator:

- Prof. Dr. / Azza M. Kadry

### 7. External evaluator:

- Prof. Dr/ Manal Kandel (Cairo University)

### B- Statistical Information:

<b>No. of students attending the course</b>	1	100%
<b>No. of students completing the course</b>	1	100%

### **Results:**

Passed	1	100%	Failed	0	0%
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### **Grading of successful students:**

A	1	100%	A <sup>-</sup>	0	0%
B	0	0%	B <sup>-</sup>	0	0%
B <sup>+</sup>	0	0%	C	0	0%
C <sup>+</sup>	0	0%			

**C- Professional Information:**

1-Course Teaching:

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

>90 %                      √                      70 – 90 %                      <70%

- **Reasons in detail for not teaching any topic: -----**
- **If any topics were taught which are not specified, give reasons in detail:**

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Topic	No of hours	Lecturers
Heterocyclic nomenclature Structures and spectroscopic properties of aromatic heterocycles	4	Prof .Dr. /Azza M. Kadry
Ring synthesis of five-membered Heteroaromatics Ring synthesis of six-membered Heteroaromatics	4	
Ring synthesis of seven-membered Heteroaromatics Typical reactivity of pyridines, quinolines and isoquinolines	4	
Typical reactivity of pyrylium and benzopyrylium ions, pyrones and benzopyrones	4	
Typical reactivity of the diazine: pyridazine, pyrimidine and pyrazine	4	Prof. Dr. Eatedal H. Abd el-aal
Typical reactivity of pyrroles, furans and thiophenes	4	
Benzenellated azoles: reactions and synthesis	4	
Heterocycles containing more than two heteroatoms	4	
Heterocycles containing a ring-junction nitrogen	4	

(bridgehead compounds)		
Saturated and partially unsaturated heterocyclic compounds: reactions and synthesis	4	
Heterocycles in biochemistry and natural products	4	

## 2- Teaching and learning methods:

Lectures	√
Practical Training / Laboratory	-
Seminar / Workshop	√
Class activity	√
Case study	-
Other assignment / homework	√

- If teaching and learning methods were used other than those specified, list and give reasons: discussion session.

## 3- Student Assessment:

Method of Assessment	Percentage of total %
Written examination	75%
Oral examination	15%
Other Assignments/class work	10%
Total	100%

## Members of examination committee:

- Prof. Dr. /Azza Kadry
- Prof. Dr. Eatedal H. Abd el-aal

## 4- Facilities and Teaching Materials:

Totally adequate	√
Adequate to some extent	

Inadequate	
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**List any inadequacies:-----**

**5- Administrative Constraints:**

no administrative constrains

**6- Students evaluation of the course:**

Students evaluation of the course	Response of course team
Students were satisfied about the course	-

**7- Comments from external evaluator(s):**

Comments from external evaluator:	Response of course team
Well structured course	-

**8- Course Enhancement:**

Action	State whether or not completed and give reasons for any non-completion
The course was not delivered last year	

**9- Action plan for academic year 2020/2021**

Action required	Completion date	Person responsible
Revision of course content for any required updates	2020-2021	Course team

**Course Coordinator:** Prof. Dr. / Azza M. Kadry

**Signature:**

**Date:** Course report is approved in the departmental council on: 28/9/2020