



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

Lectures	4 hrs/week.	Practical sessions	-	Total	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:

No. of students attending the course	1	100%
No. of students completing the course	1	100%

Results:

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

A	1	100%	A ⁻	0	0%
B	0	0%	B ⁻	0	0%
B ⁺	0	0%	C	0	0%
C ⁺	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:

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	
Benzanellated 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 constraints

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