

Annual Course Report

M109

University: Zagazig Faculty: Pharmacy

Department: Pharmaceutical Medicinal chemistry

<u>A – Basic Information:</u>

- 1- Title and code: Drug Design
- 2- Program(s) on which this course is given: master
- 3- Year / Level of programs: Pre-master
- 4- Credit hours:

Lectures 4hrs/week

5- Names of lecturers contributing to the delivery of the course:

- Prof.Dr. / Mohammed Al-Hussany
- Prof.Dr. / Mohammed mohammed Baraka
- Prof.Dr/Kamel abd eireheim metwally

6- Course coordinators:

• Prof. Dr. / Mohammed Al-Hussany

7- External evaluator:

• Prof. Dr. / Samir El- Moghazy (Cairo University)

B- Statistical Information:

No. of students attending the course	<u>6</u>	100%
No. of students completing the course	<u>6</u>	100%

Results:					
Passed	6	100%	Failed	-	-

Grading of successful students:					
Excellent	0	0%	Very Good	2	33.33%
Good	2	33.33%	Pass	2	33.33%

<u>C- Professional Information</u>:

1- Course Teaching:

Торіс	No of hours	Lecturers
Principles of drug design	4	Prof. Dr. /
Combinatorial chemistry (combinatorial and parallel synthesis in medicinal chemistry projects)	4	Mohammed Al- Hussany
Combinatorial chemistry (solid phase techniques)	4	Prof. Dr. / mohammed
QSAR (hydrophobicity, electronic effects)	4	mohammed Baraka

QSAR(steric factors, other physicochemical	4	
parameters)		
Activity(Reports)	4	
	4	
Drug design and relationship of functional	4	
groups to biological activity (hydrophilic/		
hydrophobic properties)		
Drug design and relationship of functional	4	Prof.Dr kamel abd
groups to biological activity (resistance to		elreheim metwally
chemical and enzymatic degradation)		
Relationship between molecular structure	4	
and biological activity		
Docking (Introduction)	4	
Docking (procedures)	4	
	4	
Activity(Reports)	4	
Applications of drug design (self destruct	1	
Applications of drug design (sen destruct	-	
arugs, peptidomimetics)		
Applications of drug design (targeting	Δ	
Among)	-+	
arugs)		

Topics taught as a percentage of the content specified:

>90 %	 70 – 90 %	<70%	

• Reasons in detail for not teaching any topics: -----

• If any topics were taught are not specified, give reasons in detail: ------

2- Teaching and learning Methods:

Lectures:	
Seminar / Workshop:	\checkmark
Case study:	-
Other assignment / homework:	

3- Student Assessment:

Method of Assessment	Percentage of total %
Written examination	75%
Oral Examination	15%
Activity	10%

Members of examination committee:

- Prof.Dr. Mohammed Al-hussany
- Prof.Dr. Mohammed mohammed Baraka
- Prof.Dr/kamel abdelreheim metwally

4- Facilities and Teaching Materials:

Totally adequate	
Adequate to some extent	
Inadequate	

5- Administrative Constraints: No permanent places for lectures.

6- Students Evaluation of the Course:

Students evaluation of the course	Response of course team
Internet services are inadequate	Internet services have been enhanced.
The course is too long.	The new system already applied from this year

7- Comments from external evaluator(s):

Comments from external evaluator	Response of course team
Well designed course	

8- Course Enhancement:

Action required	State whether or not complete and give reasons for any non-completion
Updating course learning materials	Completed

9- Action plan for academic year 2019-2020:

Action required	Completion date	Person responsible
Continuous development of course content to cope with program ILOS and labour market needs.	2019- 2020	Course coordinator & head of department

Course Coordinator:

Prof. Dr / Prof.Dr. Mohammed Al-Hussany

Head of department: Prof. Dr. / kamel abd elreheim metwally Signature:

Annual Course Report

University: Zagazig Faculty: Pharmacy

Department: Pharmaceutical Medicinal chemistry

<u>A – Basic Information:</u>

- 1- Title and code: Advanced instrumental analysis & chromatographyI M101
- 2- Program(s) on which this course is given: master
- 3- Year / Level of programs: Pre-master
- 4- Credit hours:

Lectures 4hrs/week

5- Names of lecturers contributing to the delivery of the course:

- Prof.Dr. Elsayed Lashen (Medicinal chemistry department)
- Prof.Dr. Hisham Ezzet(Analytical chemistry department)

6- Course coordinators:

- Prof.Dr. Elsayed Lashen
- Prof.Dr. Hisham Ezzet

7- External evaluator:

• Prof. Dr. / Samir El-Moghazy(Cairo University)

B- Statistical Information:

No. of students attending the course	No. 10	100 %
No. of students completing the course	No. 10	100 %

Results:					
Passed	9	90 %	Failed	1	10%

Grading of successful students:					
Excellent	-	-	Very Good	2	20%
Good	4	40%	Pass	3	30%

<u>C- Professional Information</u>:

1- Course Teaching:

Торіс	No of hours	Lecturers
Advanced Ultra-violet spectroscopy	4	
New aspects in vibrational spectroscopy	4	Prof.Dr. Elsayed
(IR spectroscopy)		Lashen
Application of Nuclear magnetic	4	
resonance (NMR)		Prof.Dr. Hisham Ezzet
Application of Mass spectrometry(MS)	4	

Medicinal application of spectroscopy in	4	
diagnosis of diseases		
Domon graattaggaany	1	
Kaman spectroscopy.	4	
Advanced HPLC.	4	
Activity (Reports)		
neuvity (neports)		
HPLC & its medicinal and	4	
pharmaceutical application		
High performance thin laver	<u></u>	
abromatography (HDTLC)		
chromatography (HFTLC).		
Advanced Gas chromatography.	4	
GC & its medicinal and pharmaceutical	1	
or a no medicinar and pharmaceuticar		
application		
New aspects of Supercritical fluid	4	
chromatography (SFC) and ion exchange		
chromatography (IEC).		
	4	
Capillary electrophoresis(CE)	4	
Analytical application of dimeric and	4	
polymeric molecules.		
A stimiter (Demente)		
Acuvity (keports)		

Topics taught as a percentage of the content specified:

>90 %	 70 – 90 %	<70%	

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

2- Teaching and learning Methods:

Lectures:	
Seminar / Workshon:	<u></u>
Semmar / Workshop.	N
Case study:	-
Other assignment / homework:	

3- Student Assessment:

Method of Assessment	Percentage of total %
Written examination	75%
Oral examination	15%
Activities	10%

Members of examination committee:

- Prof.Dr. Elsayed Lashen
- Prof.Dr. Hisham Ezzet

4- Facilities and Teaching Materials:

Totally adequate	
Adequate to some extent	
Inadequate	

5- Administrative Constraints: No permanent lectures places

6- Students Evaluation of the Course:

Students evaluation of the course	Response of course team
Internet services are inadequate	Internet services have been enhanced.
The course is too long.	The new system already applied from this year

7- Comments from external evaluator(s):

Comments from external evaluator	Response of course team
Well designed course	

8- Course Enhancement:

Action required	State whether or not complete and give reasons for any non-completion
Updating course learning materials	Completed

9- Action plan for academic year 2019–2020:

Action required	Completion date	Person responsible
Continuous development of course content to cope with program ILOS and labour market needs.	2019- 2020	Course coordinator & head of department

Course Coordinator:

- Prof.Dr. Elsayed Lashen
- Prof.Dr. Hisham Ezzet

Head of department: Prof. Dr. / kamel abdelreheim metwally

Signature:

Annual Course Report

University: Zagazig

Faculty: Pharmacy

Department: Pharmaceutical Analytical chemistry

<u>A – Basic Information:</u>

- 1- Title and Code Physical Chemistry M106
- 2- Program(s) on which this course is given: Master
- 3- Year / Level of programs: Pre-Master
- 4- Credit hours: ------

Lectures 4hrs/week

5- Names of lecturers contributing to the delivery of the course:

- Prof. Dr/ Magda Ayad
- Prof. Dr/ Mervat Hosny
- Prof. Dr/ Wafaa Hassan Prof. Dr/ Hawaa Mohamed
- 6- Course coordinator:
 - Prof. Dr. / Wafaa Hassan

7- External evaluator:

• Prof.Dr. / Gamal Saleh (Assuit University)

B- Statistical Information:

No. of students attending the course:	No. 9	100%
No. of students completing the course:	No. 9	100%

Results:					
Passed	No.9	100%	Failed	No.0	0%

Grading o	f successfu	ll students:	:		
Excellent	No.9	100%	Very Good	No.0	0%
Good	No.0	0%	Pass	No.0	0%



<u>C- Professional Information</u>:

1- Course Teaching:

Week number	Contents	lecturer
1	• Introduction of kinetics and	Prof. Dr/ Magda
	rate of reactions	Ayad
2	• Molecular and order of	
	reaction.	

3	Parallel and consecutive	
	reactions.	
4	Methods used for	
	determination of the order of	
	reactions	
5	• Theories of reaction rates and	Prof. Dr/ Mervat
	chain reaction	Hosny
6	• Criteria of catalysis.	
7	Homogenous and enzyme	-
	catalysis	
8	Heterogeneous catalysis	-
9	• Nature of electrolytes in	Prof. Dr/ Wafaa
	solution.	Hassan
10	Photochemistry and properties	-
	of electromagnetic radiations.	
11	Laws of photochemical	
	process, quantum yield and	
	chain reaction.	
12	• Solutions:	Prof. Dr/ Hawaa
	• Principles and concentration	Mohamed
	and solubility.	
13	• Factors affecting solubility	_
	• Solute-solvent interaction.	
	• Solubility and temperature.	

	• Effect of pressure on
	solubility.
14	Solutions of liquids in liquids
	• Solutions of solid in liquids
	(Colligative properties of
	solutions.)
15	Written Exam

Topics taught as a percentage of the content specified:

>90 %	 70 - 90 %	<70%	

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

2- Teaching and learning Methods:

Lectures:	\checkmark
Seminar / Workshop:	
Case study:	-
Other assignment / homework:	

3- Student assessment:

Method of Assessment	Percentage %

Written examination	75
Oral examination	15
Activity	10
Total	100

Members of examination committee:

- Prof. Dr/ Magda Ayad
- Prof. Dr/ Mervat Hosny
- Prof. Dr/ Wafaa Hassan

4- Facilities and Teaching Materials:

Totally adequate	
Adequate to some extent	
Inadequate	

5- Administrative Constraints: no constrain

6- Students Evaluation of the Course:

Students evaluation of the course	Response of course team
Increase number of the practice cases within the course	The department will discuss this suggestion.

7- Comments from external evaluator(s):

Comments from external evaluator	Response of course team
The course aims are clear, well designed and linked to program ILOS	

8- Course Enhancement:

Action required	State whether or not complete and give reasons for any non- completion
Revision of the course with updating references used.	completed

9- Action plan for academic year 2019–2020:

Action required	Completion date	Person responsible
Revision of the course content for the preparation of	2020	Course team
new post graduates by laws		

Course Coordinator: Prof. Dr. / Wafaa Hassan

Head of Department:

تم اعتماد التقرير في مجلس القسم بتاريخ 2019/10/8

COURSE REPORT Drug Stability 2018/2019

Annual Course Report

University: Zagazig Faculty: Pharmacy

Department: Pharmaceutics

<u>A – Basic Information:</u>

- **1- Title and code:** Drug stability ME3
- **2- Program(s) on which this course is given:** master
- 3- Year / Level of programs: pre-master
- 4- Credit hours:

Lectures 4hrs/week

- **5-** Names of lecturers contributing to the delivery of the course:
 - Prof. Dr/ Mahmoud Abdul Ghany
 - Prof.Dr/Hanaa El-Ghamry

6- Course coordinator:

• Prof. Dr/ Mahmoud Abdul Ghany

7- External evaluator:

Ali abd elzaher (Assuit university)

B- Statistical Information:

No. of students attending the course	3	100 %
No. of students completing the course	3	100%

Results:					
Passed	No.2	100%	Failed	-	-

Grading of successful students:					
Excellent	2	66.6%	Very Good	1	33.3%
Good	-	-	Pass	-	-

<u>C- Professional Information</u>:

1- Course Teaching:

Week number	Lecture content (4 hr/w)	Lecturer
1	 Drug stability (Overview – importance) 	Prof. Dr/ Mahmoud Abdel Ghany
2	• Stability regulations (overview)	
3	• Critical regulatory requirements for a stability program	
4	• Global stability practices	
5	• Understanding and predicting pharmaceutical product shelf life	
6	• Stability methodologies (overview)	
7	 Development of stability indicating methods (Presentation) 	
8	• Overview of USP-NF requirements for stability	

9	 Non chromatographic methods for stability program 	
10	• Vibrational spectroscopic methods for quantitative analysis	Prof.Dr/Hanaa El-Ghamry
11	• Evaluation of stability data	
12	• Qualification, calibration and maintenance of stability chambers	
13	 Stability operation practices 	
14	 Stability studies in biologics (Final Presentation) 	
15	• Written exam	

Topics taught as a percentage of the content specified:

>90 %	\checkmark	70 – 90 %	<70%	

• Reasons in detail for not teaching any topics: ------

• If any topics were taught are not specified , give reasons in detail: ------

2- Teaching and learning Methods:

Lectures:	
Seminar / Workshop:	
Case study:	-
Other assignment / homework:	

3- Student Assessment:

Method of Assessment	Percentage of total %
Written examination	75
Oral Exam	15
Activity	10

Members of examination committee:

- Prof. Dr/ Mahmoud Abdul Ghany
- Prof.Dr/Hanaa El-Ghamry

4- Facilities and Teaching Materials:

v

5- Administrative Constraints: no constrain

6- Students Evaluation of the Course:

Students evaluation of the course	Response of course team
Addition of practical cases and	
management strategies for stability	Will be considered
problems	

7- Comments from external evaluator(s):

Comments from external evaluator	Response of course team

The course needs some refining and update.	References are updated and	
	course will include activities in	
	course specification 2019- 2020.	

8- Course Enhancement:

Action required	State whether or not complete and
	give reasons for any non-
	completion
Updating learning materials	completed

9- Action plan for academic year 2019–2020:

Action required	Completion date	Person responsible
Revision of course content and make required updates: practical cases of instability	2019- 2020	Course team
Updating postgraduate bylaws	2019- 2020	Head of department Vice dean for postgraduate studies

Course Coordinator: Prof. Dr/ Mahmoud Abdel Ghany

Head of department: Prof. Dr. / Nagia Ahmed El-Megarb

Annual Course Report

University: Zagazig Faculty: Pharmacy

Department: Medicinal chemistry

<u>A – Basic Information:</u>

- 1- Title and code: Good practice for analysis of drugs and quality control ME-1
- **2- Program(s) on which this course is given:** master
- 3- Year / Level of programs: Pre-master
- 4- Credit hours:

Lectures 4hrs/week

- **5-** Names of lecturers contributing to the delivery of the course:
 - Prof.Dr/ Sobhy ElAdl
 - Prof.Dr/Abd allah El shanawany
 - Dr/ Mohammed Sebaiy

6- Course coordinator:

- Prof.Dr/ Sobhy ElAdl
- Prof.Dr/Abd allah El-shanawany

7- External evaluator:

• Prof. Dr. / Samir Elmoghazy (Cairo University)

B- Statistical Information:

No. of students attending the course	No. 9	100 %
No. of students completing the course	No. 9	100 %

Results:					
Passed	No. 8	88.89 %	Failed	1	11.12%

Grading of successful students:					
Excellent	2	22.22%	Very Good	No. 6	66.67 %
Good	-	-	Pass	-	-

<u>C- Professional Information</u>:

1- Course Teaching:

Торіс	No of hours	Lecturers
Validation parameters in analysis	4	
Application of quantitative analysis for different drugs.	4	
Quality control and how to minimize the synthesis errors.	4	Prof.Dr/ Sobhy ElAdl
Quality assurance and basic requirement.	4	
Applications of Spectrophotometric analysis for dosage forms	4	

Activity		
$H^{1}, C^{13}, N^{15}, F^{19}$ - NMR	4	
Advanced techniques in mass spectroscopy	4	Prof.Dr/Abdallah El-
Atomic absorption	4	shanawany
Fluorimetric analysis	4	
Radioimmune Assay	4	
Electrophoresis	4	
Advanced GC-MS chemistry	4	
Activity		
Spectrodenistometric (TLC scanner)	4	Dr/Mahmoud sebaiy
Forensic chemistry	4	
Final exam		

Topics taught as a percentage of the content specified:

>90 %	\checkmark	70 – 90 %	<70%	

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

2- Teaching and learning Methods:

Lectures:	
Seminar / Workshop:	\checkmark

Case study:	-
Other assignment / homework:	

3- Student Assessment:

Method of Assessment	Percentage of total %
Written examination	75%
Oral examination	15%
Activity	10%

Members of examination committee:

- Prof.Dr/ Sobhy ElAdl
- Prof.Dr/abdallah el-shanawany
- Dr/Mahmoud elsebaiy

4- Facilities and Teaching Materials:

Totally adequate	
Adequate to some extent	\checkmark
Inadequate	

5- Administrative Constraints: No permenant lectures places.

6- Students Evaluation of the Course:

Students evaluation of the course	Response of course team		
Internet services are inadequate	Internet services have been enhanced.		

The course is too long.	The new system already applied from this year

7- Comments from external evaluator(s):

Comments from external evaluator	Response of course team
Course is appropriately designed	

8- Course Enhancement:

Action required	State whether or not complete and give reasons for any non-completion
Updating course learning materials	Completed

9- Action plan for academic year 2019–2020:

Action required	Completion date	Person responsible
Continuous development of course content to cope with program ILOS and labour market needs.	2019- 2020	Course coordinator & head of department

Course Coordinator:

- Prof.Dr/ Sobhy ElAdl
- Prof.Dr/ abdallah el shanawany

Head of department: Prof. Dr. / Kamel abd-elreheim metwally. Signature:

Course Report

Advanced Organic Chemistry: Structure and Mechanism

Annual Course Report

University: Zagazig

Faculty: Pharmacy

Department: Pharmaceutical Organic Chemistry

<u>A – Basic Information:</u>

- **1. Title and Code:** Advanced Organic chemistry-1: Structure and Mechanism (osp1)
- 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	-	Total	4 hrs/week.
		sessions			

5. Names of lecturers contributing to the delivery of the course:

- Prof. Dr. / Aza M. Kadry
- Prof. Dr./Said El-feky

6. Course coordinator:

• Prof. Dr. / Aza 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%
Grading of successful students:					

А	1	100%	A	0	0%
В	0	0%	B-	0	0%
\mathbf{B}^+	0	0%	С	0	0%
C^+	0	0%			

<u>C- Professional Information</u>:

1-Course Teaching:

Topics taught as a percentage of the content specified:

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

 	 	 	-

Week number	Lecture contents (4hrs/week)	Lecturer
1	Valence bond and molecular orbital theories	Prof .Dr. /Aza M. Kadry
2	Factors affecting molecular structure	
3	Stereochemistry and conformation	
4	Stereoselectivity	
5	Structural effects on stability and reactivity	
6	Nucleophilic substitution	Prof. Dr. /Said El-Feky
7	Polar addition and elimination reaction	
8	Carbanions and other carbon nucleophile	

9	Addition, condensation and substitution reactions	
	of carbonyl compounds	
	Activity (review article)/	
10	Aromaticity	
11	Aromatic substitution	
12	Concerted pericyclic reaction	
13	Free radical reaction	
	Photochemistry	
	Illustrative examples for stability of organic	
14	pharmaceuticals	
15	Final exam	

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. /Aza Kadry
- Prof. Dr/ Said El-Feky.

4- Facilities and Teaching Materials:

Totally adequate	\checkmark
Adequate to some extent	
Inadequate	

List any inadequacies:----5- Administrative Constraints:

No constraints

6- Students evaluation of the course:

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

7- Comments from external evaluator(s):

Comments from external evaluator:	Response of course team
The course is well designed	-

8- Course Enhancement:

Action	State whether or not completed and give reasons for any non-completion
Update references for the course	Completed

9- Action plan for academic year 2019/2020

Action required	Completion	Person responsible
	date	
Update the contents and learning materials	2020	Course team
Addition of more appreciable topics related to the practical research	2020	Course team

Course Coordinator: Prof. Dr. / Aza M. Kadry **Signature:**

Date: Course report is approved in the departmental council on: 26/11/2019

Course Report

Advanced Organic Chemistry: Reactions and Synthesis

(osp2)

Annual Course Report

University: Zagazig

Faculty: Pharmacy

Department: Pharmaceutical Organic Chemistry

<u>A – Basic Information:</u>

- **1. Title and Code:** Advanced Organic chemistry-2: Reactions and Synthesis: (osp2)
- 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	-	Total	4 hrs/week.
		sessions			

5. Names of lecturers contributing to the delivery of the course:

- Prof. Dr. / Aza M. Kadry
- Prof. Dr./Said El-feky

6. Course coordinator:

• Prof. Dr. / Aza M. Kadry

7. External evaluator:

• Prof. Dr/ Manal Kandel (Cairo University)

B- Statistical Information:

No. of students attending the course	2	100%
No. of students completing the course	2	100%

Results:					
Passed	2	100%	Failed	0	0%
Grading of successful students:					

А	2	100%	A	0	0%
В	0	0%	B-	0	0%
\mathbf{B}^+	0	0%	С	0	0%
C^+	0	0%			

<u>C- Professional Information</u>:

1-Course Teaching:

Topics taught as a percentage of the content specified:

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

 	 	 	-

Week number	Lecture contents (4hrs/week)	Lecturer
1	Alkylation of enolates and other carbon	Prof .Dr. /Aza M.
	nucleophiles	Kadry
2	Reactions of carbon nucleophiles with	
2	cardonyi	
	compounds	
3	Functional group interconversion by	
	substitution, including protection and	
	deprotection	
4	Electrophilic addition to carbon-carbon	
	bonds	
5	Reduction of carbon-carbon multiple	

	bonds, carbonyl groups and other functional	
	groups	
6	Concerted cycloadditions,unimolecular	Prot. Dr. /Said El-
	rearrangement, and thermal eliminations	I'UNY
7	Organometallic compounds of group 1 and	
,	<u></u>	
	metals	
8	Reactions involving transition metals	
	Reactions involving carbocations as	
9	reactive	
	intermediates	
	Reactions involving carbenes, and radicals	
10	as	
	reactive intermediates	
	Activity (Problem solving) /Aromatic	
11	substitution reactions	
12	Oxidations	
13	Retrosynthetic analysis	
14	Synthetic equivalence and control of	
	Stereochemistry	
	Illustrative examples for multistep	
	synthesis / Activity (Problem solving)	
15	Final exam	
1		1

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. /Aza Kadry
- Prof. Dr/ Said El-Feky.

4- Facilities and Teaching Materials:

Totally adequate	\checkmark
Adequate to some extent	
Inadequate	

List any inadequacies:-----

5- Administrative Constraints:

No constraints

6- Students evaluation of the course:

Students evaluation of the course	Response of course team
The students were satisfied about the	_
course	

7- Comments from external evaluator(s):

Comments from external evaluator:	Response of course team
Course ILOs are properly written and	_
can be measured	-

8- Course Enhancement:

Action	State whether or not completed and give reasons for any non-completion
Updating learning materials	Completed

9- Action plan for academic year 2019/2020

Action required	Completion date	Person responsible
Addition of topics more related to practical research	2020	Course team

Course Coordinator: Prof. Dr. / Aza M. Kadry

Signature:

Date: Course report is approved in the departmental council on: 26/11/2019