

Faculty of pharmacy – Zagazig University

COURSE REPORT
Of higher studies
Programs

2018/ 2019

Faculty of pharmacy – Zagazig University

Course Report

Medicinal

Chemistry

Department

2018/2019



Annual Course Report

University: Zagazig

Faculty: Pharmacy

Department: Medicinal chemistry

A – Basic Information:

1- Title and code: Good practice for analysis of drugs and quality control ME-3

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	-	-

C- Professional Information:

1- Course Teaching:

Topic	No of hours	Lecturers
Validation parameters in analysis	4	Prof.Dr/ Sobhy ElAdl
Application of quantitative analysis for different drugs.	4	
Quality control and how to minimize the synthesis errors.	4	
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	Prof.Dr/Abdallah El-shanawany
Advanced techniques in mass spectroscopy	4	
Atomic absorption	4	
Fluorimetric analysis	4	
Radioimmune Assay	4	
Electrophoresis	4	Dr/Mahmoud seabaiy
Advanced GC-MS chemistry	4	
Activity		
Spectrodenistometric (TLC scanner)	4	
Forensic chemistry	4	
Final 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:	√
Seminar / Workshop:	√

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	√
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
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:

Annual Course Report

University: Zagazig

Faculty: Pharmacy

Department: Pharmaceutical Medicinal chemistry

A – Basic Information:

1- Title and code: Drug Design

M109

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%

C- Professional Information:**1- Course Teaching:**

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

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

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:	√
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 materilas	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

A – Basic Information:

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	22%
Good	4	44%	Pass	3	34%

C- Professional Information:

1- Course Teaching:

Topic	No of hours	Lecturers
Advanced Ultra-violet spectroscopy	4	Prof.Dr. Elsayed Lashen
New aspects in vibrational spectroscopy	4	

(IR spectroscopy)		Prof.Dr. Hisham Ezzet
Application of Nuclear magnetic resonance (NMR)	4	
Application of Mass spectrometry(MS)	4	
Medicinal application of spectroscopy in diagnosis of diseases	4	
Raman spectroscopy.	4	
Advanced HPLC.	4	
Activity (Reports)		
HPLC & its medicinal and pharmaceutical application	4	
High performance thin layer chromatography (HPTLC).	4	
Advanced Gas chromatography.	4	
GC & its medicinal and pharmaceutical application	4	
New aspects of Supercritical fluid chromatography (SFC) and ion exchange chromatography (IEC).	4	
Capillary electrophoresis(CE)	4	

Analytical application of dimeric and polymeric molecules. Activity (Reports)	4	
---	---	--

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:	√
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 materilas	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

A – Basic Information:

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)

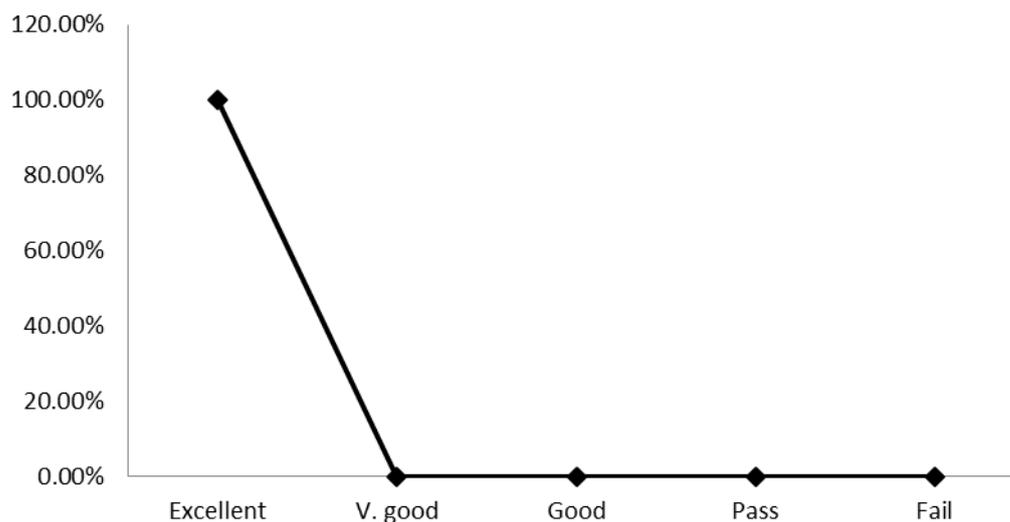
B- Statistical Information:

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 of successful students:					
Excellent	No.9	100%	Very Good	No.0	0%
Good	No.0	0%	Pass	No.0	0%

المنحني التكراري لطلبة مقررتمهيدى ماجستير
physical chemistry



C- Professional Information:

1- Course Teaching:

Week number	Contents	lecturer
1	<ul style="list-style-type: none"> Introduction of kinetics and rate of reactions 	Prof. Dr/ Magda Ayad
2	<ul style="list-style-type: none"> Molecular and order of 	

	reaction.	
3	<ul style="list-style-type: none"> • Parallel and consecutive reactions. 	
4	<ul style="list-style-type: none"> • Methods used for determination of the order of reactions 	
5	<ul style="list-style-type: none"> • Theories of reaction rates and chain reaction 	Prof. Dr/ Mervat Hosny
6	<ul style="list-style-type: none"> • Criteria of catalysis. 	
7	<ul style="list-style-type: none"> • Homogenous and enzyme catalysis 	
8	<ul style="list-style-type: none"> • Heterogeneous catalysis 	
9	<ul style="list-style-type: none"> • Nature of electrolytes in solution. 	Prof. Dr/ Wafaa Hassan
10	<ul style="list-style-type: none"> • Photochemistry and properties of electromagnetic radiations. 	
11	<ul style="list-style-type: none"> • Laws of photochemical process, quantum yield and chain reaction. 	
12	<ul style="list-style-type: none"> • Solutions: • Principles and concentration and solubility. 	Prof. Dr/ Hawaa Mohamed
13	<ul style="list-style-type: none"> • Factors affecting solubility • Solute-solvent interaction. • Solubility and temperature. 	

	<ul style="list-style-type: none"> • Effect of pressure on solubility. 	
14	<ul style="list-style-type: none"> • Solutions of liquids in liquids • Solutions of solid in liquids (Colligative properties of solutions.) 	
15	<ul style="list-style-type: none"> • 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:	√
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 new post graduates by laws	2020	Course team

Course Coordinator: Prof. Dr. / Wafaa Hassan

Head of Department:

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

**COURSE
REPORT**

**Drug Stability
2018/2019**

Annual Course Report

University: Zagazig **Faculty:** Pharmacy

Department: Pharmaceutics

A – Basic Information:

1- Title and code: Drug stability ME2

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:

- Prof. Dr. / Osama Soliman (Mansoura 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	-	-

C- Professional Information:

1- Course Teaching:

Week number	Lecture content (4 hr/w)	Lecturer
1	<ul style="list-style-type: none"> • Drug stability (Overview – importance) 	Prof. Dr/ Mahmoud Abdel Ghany
2	<ul style="list-style-type: none"> • Stability regulations (overview) 	
3	<ul style="list-style-type: none"> • Critical regulatory requirements for a stability program 	
4	<ul style="list-style-type: none"> • Global stability practices 	
5	<ul style="list-style-type: none"> • Understanding and predicting pharmaceutical product shelf life 	
6	<ul style="list-style-type: none"> • Stability methodologies (overview) 	
7	<ul style="list-style-type: none"> • Development of stability indicating methods • (Presentation) 	
8	<ul style="list-style-type: none"> • Overview of USP-NF requirements for stability 	
9	<ul style="list-style-type: none"> • Non chromatographic 	

	methods for stability program	
10	<ul style="list-style-type: none"> Vibrational spectroscopic methods for quantitative analysis 	Prof.Dr/Hanaa El-Ghamry
11	<ul style="list-style-type: none"> Evaluation of stability data 	
12	<ul style="list-style-type: none"> Qualification, calibration and maintenance of stability chambers 	
13	<ul style="list-style-type: none"> Stability operation practices 	
14	<ul style="list-style-type: none"> Stability studies in biologics (Final Presentation) 	
15	<ul style="list-style-type: none"> 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:	√
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:

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
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



Master courses

2018-2019

Annual Course Report

University: Zagazig **Faculty:** Pharmacy

Department: Medicinal chemistry

A – Basic Information:

1- Title and code: Computer-aided drug design **Msp1**

2- Program(s) on which this course is given: Master

3- Year / Level of programs: Master

4- Credit hours:

Lectures	4hrs/week
-----------------	-----------

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

- Prof.Dr/ Samy megahed
- Dr/Hend Kothayer

6- Course coordinator:

- Prof.Dr/ Samy megahed

7- External evaluator:

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

- **B- Statistical Information:**

No. of students attending the course	No1	100 %
No. of students completing the course	No. 1	100 %

Results:					
Passed	No.1	100%	Failed	-	-

Grading of successful students:					
excellent	-	-	Very good	1	100%
Good	-	-	passed	-	-

C- Professional Information:

1- Course Teaching:

Topics	No. of hours	Lecturers
History of Computer Aided Drug Design (CADD)	4	Prof.Dr/ Samy megahed
Types of Drug Design <ul style="list-style-type: none"> • Ligand based • Structure based 	4	
Structure based drug design	4	
Protein based drug design	4	
Computational chemistry (molecular properties)	4	
Computational chemistry (conformational analysis)	4	
Activity	4	
Relation between CADD and Combinatorial Chemistry	4	
Virtual Screening and machine learning	4	

Molecular De- Novo design (principles)	4	
Molecular De- Novo design (Automated de novo design)	4	
Drug target profiling and Polypharmacology	4	
Activity	4	
Fields of computational chemistry applications	4	
Revision & open discussion	4	

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:	√
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/ Samy megahed
- Dr/ Hend kothayer

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
Increase the number of application cases	Will be considered

7- Comments from external evaluator(s):

Comments from external evaluator	Response of course team
Properly structured course content	-----

8- Course Enhancement:

Action required	State whether or not complete and give reasons for any non-completion
Increase the number of applications	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/ Samy megahed
- **Head of department:** Prof. Dr. / Kamel abd elreheim metwally.

Signature:**Date:**

Annual Course Report

University: Zagazig **Faculty:** Pharmacy

Department: Medicinal chemistry

A – Basic Information:

1- Title and code: Validation Parameters in Drug Analysis **MSP2**

2- Program(s) on which this course is given: Master

3- Year / Level of programs: Master

4- Credit hours:

Lectures	4hrs/week
-----------------	-----------

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

- Prof.Dr/ lobna mohammed abd aziz
- Prof.Dr/ Mahmoud sebaiy

6- Course coordinator:

- Prof.Dr/ lobna mohammed abd aziz

7- External evaluator:

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

B- Statistical Information:

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

Results:					
Passed	No.1	100%	Failed	-	-

Grading of successful students:					
Excellent	No.1	100 %	Very Good	-	-%
Good	-	-	Pass	-	-

C- Professional Information:

1- Course Teaching:

Topics	No. of hours	lecturer
Sampling	4	<ul style="list-style-type: none"> Prof.Dr/ lobna mohammed abd aziz
Examples of experimental errors	4	
Choice of specific methods of analysis	4	
Statistic of data analysis		
Application of validation parameters of analytical procedures (specificity , linearity , range)	4	
Application of validation parameters of analytical procedures (accuracy , precision , detection limit , quantitation limit)	4	
Application validation parameters of analytical procedures	4	

(robustness , ruggedness , system suitability test) Activity		
Drug stability & stability indicating assay	4	Prof.Dr/ Mahmoud sebaiy
Radio-chemical purity & its control	4	
Application of functional group analysis Classical analysis	4	
Application of functional group analysis instrumental analysis	4	
Automation in pharmaceutical analysis Gas spectroscopy Mass spectroscopy Flow injection analysis	4	
Automation in pharmaceutical analysis HPLC chromatography with mass detection GC chromatography	4	
Examples of determination of active ingredients in different dosage forms in presence of degradation products. Activity	4	
Examples of determination of active ingredients in different dosage forms	4	

Revision & open discussion	4	
----------------------------	---	--

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:	√
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/ Abdullah Ahmed El- Shanawany

- Prof.Dr/Sobhy El-Adl

4- Facilities and Teaching Materials:

Totally adequate	
Adequate to some extent	√
Inadequate	

5- Administrative Constraints:

No permanent suitable 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
Proper structured course	-----

8- Course Enhancement:

Action	State whether or not completed and give reasons for any non completion
Updating learning materials	Completed
Student reports to develop writing and presentation skills	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/ lobna mohammed abd aziz

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

Signature:

Date:

Annual Course Report

University: Zagazig

Faculty: Pharmacy

Department: Medicinal chemistry

A – Basic Information:

1- Title and code: Advanced Medicinal Chemistry **MSP3**

2- Program(s) on which this course is given: Master

3- Year / Level of programs: Master

4- Credit hours:

Lectures	4hrs/week
----------	-----------

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

- Prof.Dr/ Mohammed baraka
- Dr/Hend kothayer

6- Course coordinator:

- Prof.Dr/ Mohammed baraka

7- External evaluator:

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

B- Statistical Information:

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

Results:

Passed	No.1	100%	Failed	-	-
--------	------	------	--------	---	---

Grading of successful students:

Excellent	-	-	Very Good	1	100%
Good	-	-	Pass	-	-

C- Professional Information:**1- Course Teaching:**

Topics	No. of hours	lecturer
Principles of gene therapy	4	Prof.Dr/ Mohammed baraka
Challenges in gene therapy :Gene therapy development	4	
Strategies for gene therapy	4	
Preventive gene therapy	4	
Gene therapy: Clinical applications of gene therapy	4	

Activity(Presentation)	4	Dr/Hend kothayer
Introduction about :Antisense therapy antisense drugs for treatment of cancer	4	
Example antisense therapies Cytomegalovirus retinitis Hemorrhagic fever viruses	4	
Example antisense therapies Cancer HIV/AIDS	4	
Antiaging drugs	4	
Activity	4	
Antioxidants as Drugs against Aging	4	
Antioxidant Drugs	4	
Proposed strategies of life extension (Nanotechnology)	4	
Revision & Open discussion	4	

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:	√
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 mohammed baraka
- Dr/ Hend kothayer

4- Facilities and Teaching Materials:

Totally adequate	
Adequate to some extent	√

Inadequate	
-------------------	--

5- Administrative Constraints: No permanent suitable 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
Properly written and measurable ILOs	-----

8- Course Enhancement:

Action required	State whether or not complete and give reasons for any non-completion
Course revision and update	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

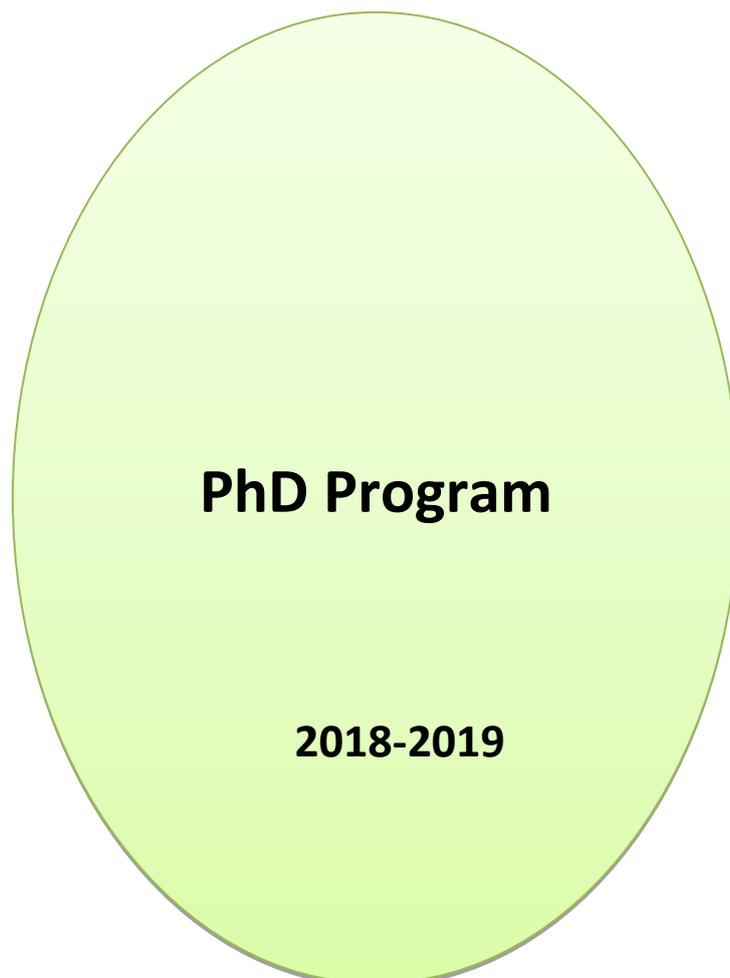
Course Coordinator:

- Prof.Dr/ Mohammed mohammed Baraka

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

Signature:

Date:



Annual Course Report

University: Zagazig

Faculty: Pharmacy

Department: Medicinal chemistry

A – Basic Information:

1- Title and code: Qualitative and Qualitative analysis of impurities in pharmaceutical preparations **MSP5.**

2- Program(s) on which this course is given: Ph.D.

3- Year / Level of programs: Ph.D.

4- Credit hours:

Lectures	4hrs/week
-----------------	-----------

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

- Prof.Dr/ Abdallah El-Shanawany
- Prof.Dr/ sobhy mohammed el adl
- Prof.Dr/ lobna mohammed abd aziz

6- Course coordinator:

- Prof.Dr/ sobhy mohammed el adl

7- External evaluator:

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

B- Statistical Information:

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

Results:

Passed	No.2	100%	Failed	-	-
--------	------	------	--------	---	---

Grading of successful students:

Excellent	No.2	100%	Very Good	-	-
Good	-	-	Pass	-	-

C- Professional Information:**2- Course Teaching:**

Topics	No. of hours	Lecturers
Principles of gene therapy	4	Prof.Dr/ Abdallah El- Shanawany
Challenges in gene therapy development:Gene therapy	4	
Strategies for gene therapy	4	
Preventive gene therapy	4	
Gene therapy: Clinical applications of gene therapy	4	

Activity(Presentation)	4	Prof.Dr/ sobhe mohammed
Introduction about antisense drugs for :Antisense therapy treatment of cancer	4	
Example antisense therapies Cytomegalovirus retinitis Hemorrhagic fever viruses	4	
Example antisense therapies Cancer HIV/AIDS	4	Prof.Dr/lobn a mohammed abd aziz
Antiaging drugs	4	
Activity	4	
Antioxidants as Drugs against Aging	4	
Antioxidant Drugs	4	
Proposed strategies of life extension (Nanotechnology)	4	
Revision & Open discussion	4	

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:	√
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/ Abdullah Ahmed El- Shanawany
- Prof.Dr/Sobhy Mohammed el- adl
- Prof.Dr/lobna mohammed abd aziz

4- Facilities and Teaching Materials:

Totally adequate	
Adequate to some extent	√

Inadequate	
-------------------	--

5- Administrative Constraints: No permanent suitable 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
Properly designed course	-----

8- Course Enhancement:

Action	State whether or not completed and give reasons for any non completion
Revision and updating the course	Completed
Student reports to develop writing and presentation skills	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
Update searches in the field of teaching course	2019-2020	Course coordinator & head of department

Course Coordinator: Prof.Dr/ sobhy mohammed el adl

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

Signature:

Annual Course Report

University: Zagazig **Faculty:** Pharmacy

Department: Medicinal chemistry

A – Basic Information:

1- Title and code: Selected Topics in drug design **MSP6.**

2- Program(s) on which this course is given: Ph.D.

3- Year / Level of programs: Ph.D.

4- Credit hours:

Lectures	4hrs/week
----------	-----------

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

- Prof.Dr/ El-sayed lashin
- Prof.Dr/Samy megahed

6- Course coordinator:

- Prof.Dr/El-sayed lashin
- Prof.Dr/samy megahed .

7- External evaluator:

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

B- Statistical Information:

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

Results:

Passed	No.2	100%	Failed	-	-
--------	------	------	--------	---	---

Grading of successful students:

Excellent	2	100%	Very Good	-	-
Good	-	-	Pass	-	-

C- Professional Information:**3- Course Teaching:**

Topics	No. of hours	Lecturers
Introduction to drug design.	4	Prof.Dr/el sayed lashin.
Principles of drug design.	4	
Different types of drug design.	4	
Aspects of drug design.	4	
Computerized applications in drug design.	4	Prof.Dr/ Samy
Design of 5-HT3 antagonists .	4	

Design of Acetylcholine receptor agonists .	4	megahed.
Design of Angiotensin receptor blockers .	4	
Design of Bcr-Abl tyrosine kinase inhibitors .	4	
Design of Cannabinoid receptor antagonists .	4	
Design of CCR5 receptor antagonists .	4	
Design of Cyclooxygenase 2 inhibitors .	4	
Design of Dipeptidyl peptidase-4 inhibitors .	4	
Design of HIV protease inhibitors .	4	

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:	√
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/ el sayed lashin
- Prof.Dr/samy megahed

4- Facilities and Teaching Materials:

Totally adequate	
Adequate to some extent	√
Inadequate	

5- Administrative Constraints: No permanent suitable 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.	Will be considered

7- Comments from external evaluator(s):

Comments from external evaluator	Response of course team
Properly structured course	-----

8- Course Enhancement:

Action	State whether or not completed and give reasons for any non completion
Revision and updating the course learning materials	Completed
Student reports to develop writing and presentation skills	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
Update searches in the field of teaching course	2019-2020	Course coordinator & head of department

Course Coordinator:Prof.Dr/ elsayed lashin

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

Signature:

Date: