# **COURSE REPORTS**



Advanced
Instrumental Analysis
and Chromatography
II

M102

2018-2019

# **Annual Course Report**

University: Zagazig Faculty: Pharmacy

**Department:** Pharmaceutical Analytical chemistry

# <u>A – Basic Information:</u>

**1- Title and Code:** Advanced Instrumental Analysis and Chromatography II **M102** 

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

**3- Year / Level of programs:** Pre-Master

4- Credit hours: 4

Lectures 4 hrs/week

- 5- Names of lecturers contributing to the delivery of the course:
- Prof.Dr/ Hisham Ezzat
- Prof Dr/ Magda El Henawee
- Prof Dr/ Abdalla Shalaby
- **6- Course coordinator:**
- Prof.Dr/Hisham Ezzat

#### 7- External evaluator:

• Prof. Dr. Gamal Saleh (Assuit University)

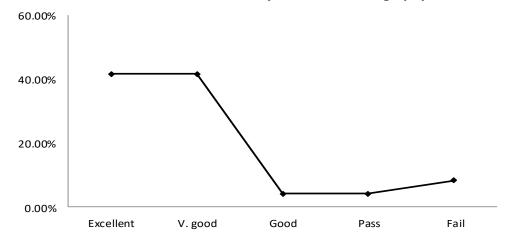
#### **B- Statistical Information:**

No. of students attending the course	No.26	100 %

<b>Results:</b>								
Passed	No. 22	91.67%	Fa	iled	No.	2	8.33%	
No. of students completing the course			No.24		92.3	31%		

Grading o	f successfu	l students:	,		
Excellent	10	41.67%	Very Good	No.10	41.67%
Good	No.1	4.17%	Pass	No.1	4.17%

المنحني التكراري لطلبة مقررتمهيدى ماجستير advanced instrumental analysis and chromatography II



# **C- Professional Information**:

# 1- Course Teaching:

2- Topic	No of hours	Lecturers
Introduction and classification of	20	Prof.Dr/ Hisham Ezzat
chromatographic methods, quantitative		
and qualitative TLC.		
Gas chromatography, HPLC,	20	Prof Dr/ Magda El
Electrophoresis.		Henawee
Polarography and voltamettry		
UV spectrophotometry,	20	Prof Dr/ Abdalla Shalaby
Spectrofluorimetry, Atomic absorption		
spectrophotometry		

# Topics taught as a percentage of the content specified:

>90 %	$\sqrt{}$	70 – 90 %	<70%	

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

# **2- Teaching and learning Methods:**

Lectures:	V
Seminar / Workshop:	V
Case study:	-
Other assignment / homework:	V
9	,

#### **3- Student Assessment:**

Method of Assessment	Percentage %
Written examination	75
Oral examination	15
Activity	10
Total	100

# **Members of examination committee:**

Prof.Dr/ Hisham Ezzat

Prof Dr/ Magda El Henawee

Prof Dr/ Abdalla Shalaby

#### **4- Facilities and Teaching Materials:**

Totally adequate	V
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
Practical sessions are required to carry out some experiments to clarify the theoretical content.	The department will discuss this suggestion.

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

Comments from external evaluator	Response of course team

Other methods in addition to the previous	
teaching methods are required for increase	Evaluator's comments will
the ability to solve problem e.g: practical	be carefully considered.
analysis of drugs.	

#### **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

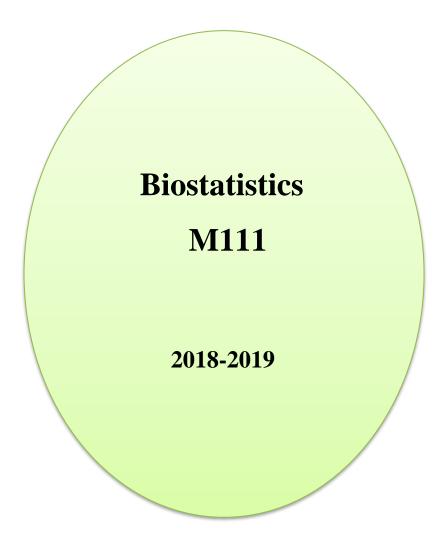
# 9- Action plan for academic year 2019–2020:

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

**Course coordinator**: Prof. Dr/ Hisham Ezzat

**Head of Department:** 

تم اعتماد التقرير في مجلس القسم بتاريخ بتاريخ



# **Annual Course Report**

University: Zagazig Faculty: Pharmacy

**Department:** Pharmacology and toxicology

# <u>A – Basic Information:</u>

1) **Title and Code:** Biostatistics M 111

2) **Program on which this course is given:** Pre-master

3) **Year / Level of programs:** Pre-master

4) Credit hours: 2 hours

Lectures	2hr/wk
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- 5) Names of lecturers contributing to the delivery of the course:
- Prof.Dr/ Hany Elbassosy
- Dr/Noura Ahmed

**6) Course coordinator:** Prof.Dr/ Hany Elbassosy

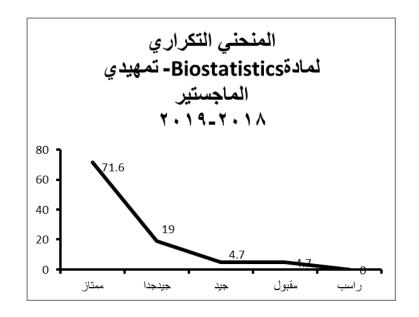
7) External evaluator: Prof-Dr: El-Sayed Kamel

## **B- Statistical Information:**

No. of students attending the course:	No. 35	100%
No. of students completing the course:	No. 21	60 %

Resul	ts:				
Passed	No.21	100%	Failed	-	-

Grading of successful students:					
Excellent	No.15	71.6%	Very Good	No.4	19%
Good	No.1	4.7%	Pass	No.1	4.7%



# **C- Professional Information**:

# 1- Course Teaching:

<b>Course Contents</b>	No. of hours	Lecturers
General principle of biostatistics 1		
General principle of biostatistics 2		
Presentation of data		• Dr/Noura
Descriptive statistics	15	Ahmed
Measures of central tendency		
Measures of variability		
Normal frequency distribution curve		
Probability		
Comparing of two means-		
Problem solving activity		
Comparing of more than two means		<ul><li>Prof.Dr/ Hany El-Bassossy</li></ul>
Chi square test		
Regression and correlation analysis	15	
Complex analysis		
Criteria of good experimental design		
Revision		

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

>90 %	$\sqrt{}$	70 – 90 %	<70%	

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

# 2- Teaching and learning Methods:

Lectures:	$\sqrt{}$
Seminar / Workshop:	
Case study:	_
•	_
Other assignment / homework:	V

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

#### **3- Student assessment:**

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

#### Members of examination committee:

- Prof. Dr/ Hany El-Bassossy
- Dr/Noura Ahmed

# **4- Facilities and Teaching Materials:**

Totally adequate	V
Adequate to some extent	
Inadequate	

#### **5- Administrative Constraints:**

None

#### **6- Students Evaluation of the Course:**

Students evaluation of the course	Response of course team
The students was satisfied about the	
course	

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

Comments from external evaluator	Response of course team
The course is well designed and the	
outcomes are clear	

#### **8- Course Enhancement**:

Action required	State whether or not complete and give reasons for any non-completion
Activating the new evaluation methods by including oral exam & activities in the student assessment methods.	completed
Measurement of the course ILOS	completed
Continuous development of course content to cope with program ILOS and labour market needs.	continuous

# 9- Action plan for academic year 2019-2020:

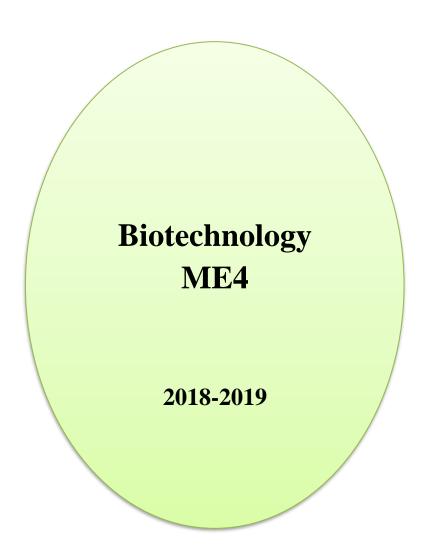
Action required	Completion date	Person responsible
Continuous course revision and development	2019-2020	Course instructors

• Course Coordinator: Prof. Dr/ Hany El-Bassossy

• Head of department: Pro. Dr/ Mona Fouad

Signature:

Date: 3/12/2019



# **Annual Course Report**

University: Zagazig Faculty: Pharmacy

**Department:** Biochemistry

#### **A – Basic Information:**

1- Title and Code: Biotechnology ME4

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

**3- Year / Level of programs:** Premaster

4-Units / Credit hours: 4 hours

Lectures 4 hrs/week

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

• Prof. Dr / Mohamed Elseweidy (Biochemistry department)

• Prof. Dr / AShraf kadry (Microbiology department)

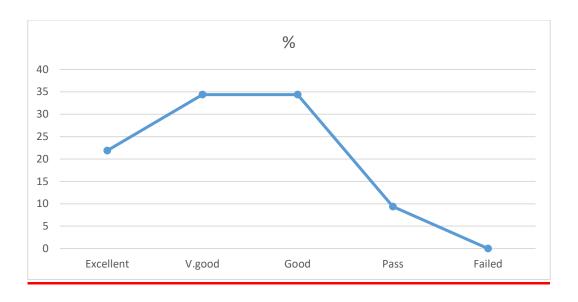
Course coordinator: Prof. Dr/ Mohamed Mahmoud ElSeweidy

External evaluator: Prof. Dr/ Ola Ali

## **B- Statistical Information:**

No. of students attending the course	no.40	100 %
No. of students completing the course	no.32	80 %

<b>Results:</b>					
Passed	No. 32	100 %	Failed	No. 0	0%
Grading of successful students:					
Excellent	No. 7	21.875%	Very Good	No. 11	34.375%
Good	No. 11	34.375%	Pass	No. 3	9.375%



# C- Professional Information: 1- Course Teaching:

Topic	No. of hours	Lecturers
<ul> <li>Introduction to Biotechnology, Bioprocess, Downstream processing, Cell culture, Hybridoma technology.</li> <li>Medical biotechnology.</li> <li>Medicine from cultured cells</li> <li>DNA Recombination &amp; Application of genetic engineering.</li> </ul>	30	Prof. Dr/ Mohamed El-Seweidy
<ul> <li>Principle of PCR technology and gene amplification.</li> <li>Applications and advances in PCR.</li> <li>Monoclonal antibody- technology production</li> <li>Pharmaceutically useful monoclonal antibodies</li> <li>Vaccine preparations</li> </ul>	30	Prof. Dr / AShraf Kadry

# Topics taught as a percentage of the content specified:

>90 %	7	70 – 90 %	<70%	

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

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

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2- Teaching and learning Methods:

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

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

#### 3- Student Assessment:

Assessment method	Marks	Percentage
Activity	10	10 %
Written exam	75	75 %
Oral exam	15	15 %
TOTAL	100	100%

#### **Members of examination committee:**

- Prof. Dr / Mohamed Mahmoud Elseweidy
- Prof. Dr / Ashraf kadry

#### 4- Facilities and Teaching Materials:

Totally adequate	V
Adequate to some extent	
Inadequate	

5- Administrative Constraints: -----

#### 6- Students Evaluation of the Course:

Students evaluation of the course	Response of course team
The course content should be matched with the determined time.	The time will be considered.
<ul> <li>The course content should be presented simply and clearly.</li> </ul>	The course content will be presented simply.

# 7- Comments from external evaluator(s):

Comments from external evaluator:	Response of course team
The course content should encourage	Holding open discussions
thinking skills instead of dependent	between students to increase
memorizing.	interaction.

# **8- Course Enhancement:**

Action	State whether or not completed and
	give reasons for any non completion
-Continuous development of course	Completed
content to cope with program ILOS.	
-Textbooks and references need to	Completed
be updated	

# 9- Action plan for academic year 2019-2020:

Action required	Completion date	Person responsible
The course content should be matched with the determined time.  The course content should be presented simply and clearly.	2019– 2020	Course coordinator &Course team

• Course Coordinator: Prof. Dr / Mohamed Mahmoud Elseweidy

• Head of department: Prof. Dr./ Sahar Elswefy

• Date: 2019/9/23 تم مناقشته واعتماده بمجلس القسم بتاريخ

# **COURSE REPORT**

**Physical Pharmacy** 

M103

2018/2019

# **Annual Course Report**

University: Zagazig Faculty: Pharmacy

**Department:** Pharmaceutics

# <u>A – Basic Information:</u>

1- Title and code: Physical Pharmacy M103

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

**3- Year / Level of programs:** Pre-master

**4- Credit hours:** 

Lectures	2 hrs/week
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- 5- Names of lecturers contributing to the delivery of the course:
  - Prof. Dr/ Mahmoud Abdul-Ghany Mahdy
  - Prof.Dr/ Hanaa El-Ghamry
- **6- Course coordinator:** 
  - Prof. Dr/ Mahmoud Abdul Ghany

#### 7- External evaluator:

• Prof. Dr. / Ali Abd Elzaher (Assuit University)

### **B- Statistical Information:**

No. of students attending the course	No.4	100 %
No. of students completing the course	No.4	100%

<b>Results:</b>					
Passed	No.4	100%	Failed	-	-

Grading o	f successfu	l students:			
Excellent	No.1	100%	Very Good	3	
Good	-	-	Pass	-	-

# **C- Professional Information:**

#### **1- Course Teaching:**

Topic	No of hours	Lecturers
Equilibrium phenomena, Complexation	15	Prof. Dr/ Mahmoud
and protein binding, Surface and		Abdul-Ghany
interfacial phenomena, Metal complexes		
&Organic molecular complexes.		
Occlusion compounds, Complexation	15	D., f D./H.,
and method of analysis, State of matter,		Prof.Dr/Hanaa El-
Colligative properties of solutions,		Ghamry
disperse system.		

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

>90 %	V	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:	V
Seminar / Workshop:	
Case study:	-
Other assignment / homework:	
o mer usergament i nome work	V

#### **3- Student Assessment:**

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

## **Members of examination committee:**

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

# **4- Facilities and Teaching Materials:**

Totally adequate	V
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
Course content is update and gives an	
insight on different factors affecting	-
formulation design	

# 7- Comments from external evaluator(s):

Comments from external evaluator	Response of course team
References should be updated.	References are updated in the course specification 2019- 2020.

#### **8- Course Enhancement:**

Action required	State whether or not complete and
	give reasons for any non-
	completion
Continuous development of course	completed
content and learning materials	

# 9- Action plan for academic year 2019–2020:

Action required	Completion date	Person responsible
Discussion of articles	2019- 2020	Course coordinator
demonstrating manipulation		
of drug physical properties		
for bioavailability		
enhancement		

Course Coordinator: Prof. Dr/ Mahmoud Abdul Ghany

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

**Signature:** 

# **COURSE REPORT**

**Biopharmaceutics and Pharmacokinetics** 

M104

2018/2019

# **Annual Course Report**

University: Zagazig Faculty: Pharmacy

**Department:** Pharmaceutics

## A – Basic Information:

1- Title and code: Biopharmaceutics and Pharmacokinetics M104

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

**3- Year / Level of programs:** Pre-master

4- Credit hours:

Lectures 2 hrs/week
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- 5- Names of lecturers contributing to the delivery of the course:
  - Prof. Dr/ Fakhr El-Din Soliman Ghazy
  - Dr/ Mohamed Waly
- 6- Course coordinator:
  - Prof. Dr/ Fakhr El-Din Soliman Ghazy

#### 7- External evaluator:

• Prof. Dr. / Ali abd El zaher (Assuit University)

# **B- Statistical Information:**

No. of students attending the course	No.4	100 %
No. of students completing the course	No.4	100%

<b>Results:</b>					
Passed	No.4	100%	Failed		
Grading of successful students:					
Excellent	N0.1	25 %	Very Good	3	75%
Good			Pass		

# **C- Professional Information:**

# **1- Course Teaching:**

Topic	No of hours	Lecturers
Factors affecting bioavailability (biological and physiological)		Prof. Dr/ Fakhr El-Din Soliman
Physicochemical factors, advantages and disadvantages of oral administration.	1.5	
Distribution and factors affecting it.	15	
Elimination, biotransformation, and urinary excretion.		
Minor routes of drug elimination		
Use of physical and animal models to evaluate bioavailability.	15	Dr/ Mohamed Waly
Review on bioequivalence study through revision of certain scientific research		
Pharmacokinetic models, volume of		
distribution, and total body clearance.		

Problems in determination of	
bioavailability of urine and saliva sample.	
Loading dose, steady state, lag time, and	
flip-flop.	
Method of residuals, therapeutic drug	
monitoring, and dosage regimen design.	
Pharmacokinetic parameters.	
Kidney and liver function tests.	
Haemodialysis.	
Revision and open discussion.	
	<u> </u>

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

>90 %	 70 – 90 %	< <b>70%</b>	

- 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:	V
Seminar / Workshop:	
Case study:	_
·	
Other assignment / homework:	V

#### **3- Student Assessment:**

Method of Assessment	Percentage of total %		
<b>VV</b> /*44	7.5		
Written examination	75		
Oral Examination	15		
- 1			
Activity	10		

#### **Members of examination committee:**

- Prof. Dr/ Fakhr El-Din Soliman Ghazy
- Dr/ Mohamed Waly

# **4- Facilities and Teaching Materials:**

Totally adequate	$\sqrt{}$
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
Good content gives an insight on	
bioavailability of drugs and different	-
factors affecting drug kinetics	

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

Comments from external evaluator	Response of course team	
The course needs some refining and	References are updated and	
update.	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
Update course learning materials	completed

# 9- Action plan for academic year 2019–2020:

Action required	<b>Completion date</b>	Person responsible
Revision of course content	2019 - 2020	Course coordinator
and addition of research		
articles demonstrating		
modification of drug		
formulation and hence change		
of drug pharmacokinetics		

Course Coordinator: Prof. Dr/ Fakhr El-Din Soliman Ghazy Head of department: Prof. Dr. / Nagia Ahmed El-Megrab

**Signature:** 

# **COURSE REPORT**

**Pharmaceutical** 

**Technology** 

**M106** 

2018/2019

# **Annual Course Report**

University: Zagazig Faculty: Pharmacy

**Department:** Pharmaceutics

# <u>A – Basic Information:</u>

1- Title and code: Pharmaceutical Technology M106

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

**3- Year / Level of programs:** Pre-master

**4- Credit hours:** 

- 5- Names of lecturers contributing to the delivery of the course:
  - Prof. Dr/ Fakhr El-Din Soliman Ghazy
  - Dr/ Mohamed Waly
- 6- Course coordinator:
  - Prof. Dr/ Fakhr El-Din Soliman Ghazy

#### 7- External evaluator:

• Prof. Dr. / Ali Abd Elzaher (Assuit University)

# **B- Statistical Information:**

No. of students attending the course	No.6	100 %
No. of students completing the course	No.6	100%

<b>Results:</b>					
Passed	No.5	83.3%	Failed	1	16.7%

Grading o	f successfu	l students:			
Excellent	2	33.3%	Very Good	N0.3	50%
Good	-	-	Pass		

# **C- Professional Information:**

Торіс	No of hours	Lecturers
<ul> <li>Preformulation, Material of fabrication and corrosion</li> <li>Granulation and factors affecting it</li> </ul>		Prof. Dr/ Fakhr El- Din Soliman Ghazy
<ul><li>Tablet manufacture</li><li>Types of tablet coating</li></ul>	15	
<ul><li>Sterilization</li><li>Packs of pharmaceutical preparation</li></ul>	_	
Size reduction and factors     affecting it		
<ul> <li>Technique of milling</li> <li>Wet and dry milling , types of mill</li> </ul>	15	Dr/ Mohamed Waly
<ul> <li>Determination of particle size</li> <li>Micromeritic and methods of particle size control</li> </ul>		
<ul> <li>Factors affecting solid mixing</li> </ul>		

# 1- Course Teaching:

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

>90 %	V	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:	V
Seminar / Workshop:	$\sqrt{}$
Case study:	-
Other assignment / homework:	$\sqrt{}$

# **3- Student Assessment:**

Method of Assessment	Percentage of total %
Oral Exam	15
A a4::4	10
Activity	10
Written examination	75

# **Members of examination committee:**

- Prof. Dr/ Fakhr El-Din Soliman Ghazy
- Prof. Dr/ Mohamed Waly

#### **4- Facilities and Teaching Materials:**

Totally adequate	V	

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
Update course content	Will be considered

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

Comments from external evaluator	Response of course team
The course needs some refining and	References are updated and
update.	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	
Update course learning materials	completed	

#### 9- Action plan for academic year 2019–2020:

Action required	<b>Completion date</b>	Person responsible
Revision of course content and update after benchmark with international course	2019- 2021	Vice dean of higher studies Course coordinator & head of department

**Course Coordinator**: Prof. Dr/ Fakhr El-Din Soliman Ghazy **Head of department**: Prof. Dr. / Nagia Ahmed El-Megrab

**Signature:** 



# **COURSE REPORT**

**Controlled Release** 

**Dosage Forms** 

ESp1

2018/2019

## **Annual Course Report**

University: Zagazig Faculty: Pharmacy

**Department:** Pharmaceutics

## <u>A – Basic Information:</u>

1- Title and code: Controlled release dosage forms ESp1

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

3- Year / Level of programs: Master

**4- Credit hours:** 

4hrs/week

- 5- Names of lecturers contributing to the delivery of the course:
  - Assis.Prof. Dr/ Azza Ali Hasan
  - Dr/Shreen sabry
- 6- Course coordinator:
  - Assis.Prof. Dr/ Azza Ali Hasan
- 7- External evaluator:

Prof. Dr. / Ali Abd elzaher (Assuit University)

### **B- Statistical Information:**

No. of students attending the course	4	100%
No. of students completing the course	4	100%

<b>Results:</b>				
Passed	4	100%	Failed	 -

Grading of successful students:					
Excellent	2	50%	Very Good	1	25%
Good	1	25%	Pass	-	-

# **C- Professional Information:**

# 1- Course Teaching:

Торіс	No of hours	Lecturers
General design principle for controlled- release drug delivery systems, Biological factors influencing design and performance of controlled-release formulations, Diffusion, dissolution and osmotic controlled drug delivery systems	35	Assis.Prof. Dr/ Azza Ali Hasan
Nanostructure-mediated controlled-release dosage forms, Technologies for developing transdermal dosage forms, Vaginal and uterine controlled-release dosage forms, Ocular controlled-release dosage forms.	25	Dr/Shreen Sabry

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

>90 %	 70 – 90 %	<70%	

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

ds:
$\sqrt{}$
V
-
V
Percentage of total %
75
15
10
ttee:
ials:
V

## 5- Administrative Constraints: no constrain

#### **6- Students Evaluation of the Course:**

Students evaluation of the course	Response of course team
The course should include different	
formulation problems with solution	Will be considered
strategies	

# 7- Comments from external evaluator(s):

Comments from external evaluator	Response of course team
The specified references require updating	References are updated

### **8- Course Enhancement:**

Action required	State whether or not complete and give reasons for any non-completion
Revision of the course content and make required changes	done

## 9- Action plan for academic year 2019–2020:

Action required	Completion date	Person responsible
Updating of course references and add case studies demonstrating formulation problems	2019- 2020	Course coordinator

Course Coordinator: Assis.Prof. Dr/ Azza Ali Hasan

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

**Signature:** 

# **COURSE REPORT**

Transdermal Drug
Delivery Systems

Esp3 2018/2019

# **Annual Course Report**

University: Zagazig Faculty: Pharmacy

**Department:** Pharmaceutics

### <u>A – Basic Information:</u>

1- Title and code: Transdermal drug delivery systems Esp3

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

3- Year / Level of programs: master

**4- Credit hours:** 

4hrs/week

- 5- Names of lecturers contributing to the delivery of the course:
  - Assist.Prof. Dr/ Azza Ali Hassan
  - Dr/Shreen Sabry
- **6- Course coordinator:** 
  - Assist.Prof. Dr/ Azza Ali Hassan

#### 7- External evaluator:

• Prof. Dr. / Ali Abd elzaher (Assuit University)

### **B- Statistical Information:**

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

<b>Results:</b>					
Passed	3	100%	Failed	-	-

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

# **C- Professional Information:**

# **1- Course Teaching:**

	Topic	No of hours	Lecturers
•	Skin		Assist.Prof. Dr/ Azza Ali
•	Advantages and disadvantages of transdermal drug delivery system		Hassan
•	Kinetics of transdermal permeation		
•	Basic components of transdermal drug delivery system	components of transdermal drug	
•	7 22 1 1		
•	Various methods for preparation of transdermal drug delivery system		
•	Types of transdermal patches		
•	Mechanism of action of transdermal patches (Presentation)	30	
•	Evaluation parameters		Dr/Shreen Sabry
•	Transdermal market		
•	Advance developments in transdermal drug delivery system		

•	Formulation of semisolid dosage		
	forms(Ointments) and equipments used		
•	• Formulation of semisolid dosage		
	forms(Creams) and equipments used		

#### 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:	V
Seminar / Workshop:	$\sqrt{}$
Case study:	-
Other assignment / homework:	$\sqrt{}$

### **3- Student Assessment:**

Method of Assessment	Percentage of total %
Written examination	75
O IE	1.5
Oral Exam	15
Activity	10

### **Members of examination committee:**

- Assist.Prof. Dr/ Azza Ali Hassan
- Dr/Shreen Sabry

## **4- Facilities and Teaching Materials:**

# 5- Administrative Constraints: no constrain

#### **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
References should be updated	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
Update learning materials	Completed

# 9- Action plan for academic year 2019–2020:

Action required	Completion date	Person responsible
Update teaching methods: add case study to develop critical thinking and problem solving skills	2019- 2020	Course coordinator

• Course Coordinator: Assist.Prof. Dr/ Azza Ali Hassan

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

• Signature:

# **COURSE REPORT**

**Drug Stability** 

Esp2

2018/2019

# **Annual Course Report**

University: Zagazig Faculty: Pharmacy

**Department:** Pharmaceutics

### <u>A – Basic Information:</u>

1- Title and code: Drug stability ESp2

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

3- Year / Level of programs: master

4- Credit hours:

- 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. / Ali Abd elzaher (Assuit University)

### **B- Statistical Information:**

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

<b>Results:</b>					
Passed	No.2	100%	Failed	-	-

Grading o	f successfu	l students:			
Excellent	2	66.6%	Very Good	1	33.3%
Good	-	-	Pass	-	-

# **C- Professional Information:**

### 1- Course Teaching:

Торіс	No of hours	Lecturers
Rate of chemical reactions, orders of reaction.	45	Prof. Dr/ Mahmoud Abdel Ghany
Determination of order of reaction		Troder Ghany
Substitution, Graphical, half-life method.		
Routes of degradation, Incompatibility,	15	Prof.Dr/Hanaa El-
Physical degradation routes		Ghamry
Complex reactions.		

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

>90 %	$\sqrt{}$	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:	V
Seminar / Workshop:	V
Case study:	-
Other assignment / homework:	V

### **3- Student Assessment:**

Method of Assessment	Percentage of total %
Written examination	75
O IE	1.5
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	V
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	2019- 2020	Course team
and make required updates:		
practical cases of instability		
Updating postgraduate	2019- 2020	Head of department
bylaws		XV. 1 C
		Vice dean for postgraduate
		studies

**Course Coordinator**: Prof. Dr/ Mahmoud Abdel Ghany **Head of department:** Prof. Dr. / Nagia Ahmed El-Megarb



# **COURSE REPORT**

**Packaging** 

Esp5

2018/2019

# **Annual Course Report**

University: Zagazig Faculty: Pharmacy

**Department:** Pharmaceutics

### <u>A – Basic Information:</u>

1- Title and code: packaging Esp5

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

3- Year / Level of programs: PhD

**4- Credit hours:** 

- 5- Names of lecturers contributing to the delivery of the course:
  - Prof. Dr/ Mahmoud Abdul Ghany
  - Prof.Dr. Hanna El-ghamry
- 6- Course coordinator:
  - Prof. Dr/ Mahmoud Abdul Ghany

#### 7- External evaluator:

• Prof. Dr. / Ali abd elzaher (Assuit University)

# **B- Statistical Information:**

No. of students attending the course	4	100 %
No. of students completing the course	4	100%

#### **Results:**

Passed	4	100%	Failed	-	-

Grading of successful students:					
Excellent	3	75%	Very Good	1	25%
Good			Pass		

# **C- Professional Information:**

# **1- Course Teaching:**

Topic	No of hours	Lecturers
<ul> <li>Properties of good packaging</li> <li>Factors affecting packaging</li> <li>Moisture, Volatility, Heat, Light, Oxygen, Sterilization and mechanical shock</li> <li>Glass Types of glass Protection of light sensitive drugs in glass</li> <li>Advantages and disadvantages of glass</li> <li>Plastics</li> <li>General properties of plastics</li> <li>Types of plastics</li> <li>Thermoplastic</li> </ul>	30	Prof. Dr/ Mahmoud Abdul Ghany
<ul> <li>Types of plastics</li> <li>Thermosetting</li> <li>Drug-plastic possible interactions</li> <li>Leaching, permeation         (Presentation)</li> <li>Drug-plastic possible interactions         Sorption , Chemical reactions</li> <li>Physical alterations</li> </ul>	30	Prof.DR/Hanaa El-Ghamry

	N. f 1
•	Metals
•	Rubber
•	Forms of pharmaceutical package
•	For liquids
•	Forms of pharmaceutical package
•	For semi-solid
•	Forms of pharmaceutical package
•	For solid
•	Pouches, plaster package and unit
	dose packaging
•	Revision and open discussion
	(Final Presentation)

### 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:	V
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/Hanna El-Ghamry

### **4- Facilities and Teaching Materials:**

Totally adequate	V
Adequate to some extent	
Inadequate	
mucquiic	

## 5- Administrative Constraints: no constrain

#### **6- Students Evaluation of the Course:**

Students evaluation of the course	Response of course team
Discuss research articles	
demonstrating incompatibility between	Will be considered
drug and packaging materials	

#### 7- Comments from external evaluator:

Comments from external evaluator	Response of course team
Well designed course with measurable	
ILOs	

### **8- Course Enhancement:**

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

# 9- Action plan for academic year 2019–2020:

Action required	Completion date	Person responsible
Add practical case studies	2019- 2020	Course coordinator

Course Coordinator: Prof. Dr/ Mahmoud Abdul Ghany

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

**Signature:** 

# **COURSE REPORT**

**Solid Dosage Forms** 

Esp6

2018/2019

# **Annual Course Report**

University: Zagazig Faculty: Pharmacy

**Department:** Pharmaceutics

### <u>A – Basic Information:</u>

1- Title and code: solid dosage forms Esp6

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

3- Year / Level of programs: PhD

4- Credit hours:

4hrs/week

- 5- Names of lecturers contributing to the delivery of the course:
  - Prof. Dr/ Mahmoud Abdul Ghany
  - Prof.Dr/Hanan Mohamed El-Nahas
  - Prof.Dr/ Nagia Ahmed El-Megrab
- 6- Course coordinator:
  - Prof. Dr/ Mahmoud Abdul Ghany
- 7- External evaluator:
  - Prof. Dr. / Ali Abd el zaher (Assuit University)

### **B- Statistical Information:**

No. of students attending the course	4	100 %
No. of students completing the course	4	100%

<b>Results:</b>					
Passed	4	100%	Failed	-	-

Grading of successful students:							
Excellent 4 100% Very Good							
Good			Pass				

# **C- Professional Information:**

# **1- Course Teaching:**

Topic	No of hours	Lecturers
<ul> <li>Design and formulation of compressed tablets</li> <li>Tablet manufacture</li> <li>Tableting equipment</li> <li>Coated tablets</li> <li>Evaluation of tablets</li> </ul>	20	Prof. Dr/ Mahmoud Abdel Ghany
<ul> <li>Recent developments in tableting</li> <li>Historical development and role of capsules as a dosage form         (Presentation)     </li> </ul>	20	Prof.Dr/Hanan Mohamed El-Nahas
<ul> <li>Hard gelatin capsules</li> <li>Manufacture of hard gelatin capsules</li> <li>Filling of hard gelatin capsules</li> </ul>	_	
<ul> <li>Soft gelatin capsules</li> <li>Formulation and Manufacture of soft gelatin capsules</li> </ul>	20	Prof.Dr/ Nagia Ahmed El-Megrab

Soft/liquid-filled hard gelatin capsules		
<ul> <li>Evaluation of capsules</li> </ul>		
<ul> <li>Revision and Open discussion (Final Presentation)</li> </ul>		

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

>90 %	V	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:	V
Seminar / Workshop:	$\sqrt{}$
Case study:	-
	,
Other assignment / homework:	$\sqrt{}$

#### **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/Hanan Mohamed El-Nahas
- prof.Dr/ Nagia Ahmed El-Megrab

### **4- Facilities and Teaching Materials:**

$\sqrt{}$	Totally adequate
	Adequate to some extent
	•
	Inadequate
	1
	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
The course is well designed but it is	
preferable to add case studies	Will be considered
demonstrating formulation problems	

### 7- Comments from external evaluator:

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
Update course learning materials	Completed

# 9- Action plan for academic year 2019–2020:

Action required	Completion date	Person responsible
Addition of practical cases of formulation problems and solution startegies	2019- 2020	Course coordinator

Course Coordinator: Prof. Dr/ Mahmoud Abdul Ghany

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

**Signature:** 

# **COURSE REPORT**

**Drug Targeting** 

Esp4

2018/2019

# **Annual Course Report**

University: Zagazig Faculty: Pharmacy

**Department:** Pharmaceutics

### <u>A – Basic Information:</u>

1- Title and code: Drug targeting Esp4

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

3- Year / Level of programs: Phd

4- Credit hours:

week

- 5- Names of lecturers contributing to the delivery of the course:
  - Prof.Dr/ Nagia Ahmed El-Megrab
  - Assist.Prof.Dr/Gehan Fathy Balata
- 6- Course coordinator:
  - Prof. Dr/ Nagia Ahmed El-Megrab
- 7- External evaluator:
  - Prof. Dr. / Ali Abd elzaher (Assuit University)

### **B- Statistical Information:**

No. of students attending the course	No.4	100 %
No. of students completing the course	No.4	100%

<b>Results:</b>					
Passed	No.4	100%	Failed	-	-

Grading of successful students:				
Excellent			Very Good	 
Good	No.4	100%	Pass	 

# **C- Professional Information:**

# **1- Course Teaching:**

Торіс	No of hours	Lecturers
Drug Delivery: The Basic Concepts: The concept of bioavailability The process of drug absorption	30	
Drug Delivery: The Basic Concepts: (Cont.) Pharmacokinetic processes Timing for optimal therapy Drug delivery considerations for the 'new biotherapeutics' Drug Delivery: Market Perspectives: Commercial importance of advanced drug delivery technologies Market analysis Industry evolution and structure Terminology of drug delivery and targeting Rate-controlled release in drug delivery and targeting Drug targeting systems Dosage forms for advanced drug delivery and targeting systems Rate Control in Drug Delivery and Targeting: Fundamentals and Applications to Implantable Systems: Advantages and disadvantages of implantation therapy		Prof. Dr/ Nagia Ahmed El-Megrab

Rate Control in Drug Delivery and Targeting: Fundamentals and Applications to Implantable Systems(Cont.) Biodegradable polymeric implants Implantable pumps Transdermal Drug Delivery Introduction Structure and physiology of the skin Factors affecting transdermal bioavailability Transdermal Drug Delivery Advantages and disadvantages of transdermal drug delivery Current technologies for transdermal drug delivery Transdermal Drug Delivery New and evolving technologies for transdermal drug delivery Vaginal Drug Delivery Introduction Structure and physiology of the vagina Physiological factors affecting vaginal drug delivery Vaginal Drug Delivery Formulation factors affecting vaginal drug delivery Advantages and disadvantages of vaginal delivery Vaginal Drug Delivery Current technologies in vaccinel drug	30	Assist. Prof. Dr/Gehan Fathy Balata
Vaginal Drug Delivery Formulation factors affecting vaginal drug delivery Advantages and disadvantages of vaginal		
Tutorial Tutorial Presentation about selected topics (self learning part)		

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

>90 %	V	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:	V
Seminar / Workshop:	V
Seminar / Workshop	V
Case study:	-
	,
Other assignment / homework:	$\sqrt{}$

#### **3- Student Assessment:**

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

### **Members of examination committee:**

- Prof. Dr/ Nagia Ahmed El-Megrab
- Assist.Prof.Dr/Gehan Fathy Balata

# **4- Facilities and Teaching Materials:**

Totally adequate	V
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
Discussion of research articles demonstrating effect of drug targeting on bioavailability and drug action optimization	Will be considered

### 7- Comments from external evaluator:

Comments from external evaluator	Response of course team
Course is well designed and ILOs are measurable	

### **8- Course Enhancement:**

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

# 9- Action plan for academic year 2019–2020:

Action required	Completion date	Person responsible
Discussion of research articles demonstrating effect of targeting strategy on drug action	2019- 2020	Course coordinator

Course Coordinator: Prof. Dr/ Nagia Ahmed El-Megrab

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

Signature: