# **COURSE REPORTS**

# Faculty of Pharmacy

**Bachelor of pharmacy** 

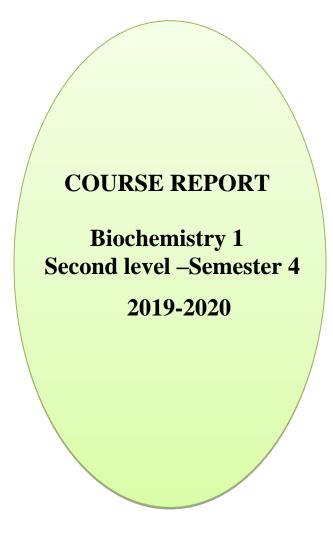
(Clinical Pharmacy)

Second level – Semester 4

2019-2020

# **CONTENTS:**

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# **Course Report of Biochemistry 1**

A- Basic Information:  1. Program (s) on which the course is given: Bachelor of pharmacy – Clinical pharmacy  2. Major or Minor element of programs: Major  3. Code: PB401  4. Department offering the course: Biochemistry  5. Academic year Level: Second level / Fourth semester  Units/Credit hours:  Lectures 2 Practical 1 Total 3  5. Names of lecturers contributing to the delivery of the course:  • Prof.Dr.Hoda Elsayed • Prof. Dr.Mervat Asker
<ol> <li>Program (s) on which the course is given: Bachelor of pharmacy – Clinical pharmacy</li> <li>Major or Minor element of programs: Major</li> <li>Code: PB401</li> <li>Department offering the course: Biochemistry</li> <li>Academic year Level: Second level / Fourth semester</li> <li>Units/Credit hours:</li> <li>Lectures 2 Practical 1 Total 3</li> <li>Names of lecturers contributing to the delivery of the course:         <ul> <li>Prof.Dr.Hoda Elsayed</li> </ul> </li> </ol>
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4. Department offering the course: Biochemistry  5. Academic year Level: Second level / Fourth semester  Units/Credit hours:  Lectures 2 Practical 1 Total 3  5. Names of lecturers contributing to the delivery of the course:  • Prof.Dr.Hoda Elsayed
4. Department offering the course: Biochemistry  5. Academic year Level: Second level / Fourth semester  Units/Credit hours:  Lectures 2 Practical 1 Total 3  5. Names of lecturers contributing to the delivery of the course:  • Prof.Dr.Hoda Elsayed
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Prof.Dr.Hoda Elsayed
•
Prof. Dr.Mervat Asker
1 101, 2111,101 , at 1 101101
Dr.Gehad Elnaggar
6. Course coordinator: Prof. Dr. Hoda Elsayed
7. External evaluator:
Prof. Mammdouh El-Shishtawy (Mansoura University)
1101. Wallindouli El-Silishtawy (Wallsoula Olliversity)
B- Statistical Information:
No. of students attending the course:  No. 216 % 100
No. of students completing the course:  No. 216 % 100
Results:
Passed: 216 No. 100 % Failed: 0 % 0 %

Grading of	successfi	ul students:	•			
Excellent:		No.	%	Very	%	
		<u> </u>		Good:No.		
Good:		No.	%	Pass:	%	
				No.	L	

### **C- Professional Information:**

1 - Course teaching:

Topic	No of hours	Lecturers
- Biological oxidation.	2	
- Substrate level phosphorylatin -Oxidative phosphrylation.		Dr.GehadElnagar
- Electron transport chain	2	
-Uncouplers		
- Energy gain from glucose oxidation in cells.		
-Enzymes structure	2	
-Properties of enzymes		
- Enzymes: mechanism of actions and		
coenzymes		
- Factors affecting reaction velocity	2	
- Inhibition of enzyme activity		<ul> <li>Prof.Dr.HodaElsayed</li> </ul>
- Regulation of enzyme activity		
- Correlation of enzymes with diseases	2	
- Chemistry of heme -Regulation of heme metabolism and metabolic disorders.	2	Prof. Dr.Mervat Asker
- Structure and classification of amino	2	Dr.GehadElnagar
acids		
- Acidic and basic properties of amino		
acids		
- Structure of proteins	2	
- Functions of proteins		
- Plasma proteins		

-Chemistry of nucleic acid including	2					
nucleic acid.						
-Definition and function of lipids	2					
- Classification of lipids						
Distribution of lipids in the body						
- Types of fatty acids and essential fatty acids.						
Definition and functions of	2					
carbohydrates.		<ul> <li>Prof. Dr.Mervat Asker</li> </ul>				
Classification of carbohydrates		TIOI. DI.IVICIVAL TISRCI				
(monosaccharaides, disaccharides, oligosaccharides examples with structure).						
ongosacenariues examples with structure).						
Deliver de side e	2					
Polysaccharides: examples and	2					
classification						
- Physical and chemical properties of carbohydrates.						
Topics taught as a percentage of the content specified: $>90\%$ $\sqrt{}$ 70-90% $<70\%$						
Reasons in detail for not teaching any topic:						
Because of Corona pandemic and o	change of as	ssessment method, students'				
activity through the course w	as cancelled	d				
If any topics were taught which are not specified, give reasons in detail:						
2- Teaching and learning methods:						
Lectures:	V					
Practical training/laboratory:	-					
Seminar/Workshop:	-					
I						

Case Study:	-
Other assignment / homework:	V

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

Because of Corona pandemic and suspension of the study since 15 March, the lectures and laboratory were delivered to the students through telegram channel.

#### **3- Course learning outcome assessment:**

Because of Corona Pandemic, the assessment methods were modified according to the descision of Supreme Council of Universities.

The final written exam was replaced by preparation of project in a topic related to the course. Each project objectives were announced to the students through orientation lecture as well as rules for preparation and assessment of the project. After receiving and assessing the projects, feedback about students performance was announced to the students as well. All the projects were evaluated according the the scale of pass or fail and so no marks or grades were recorded.

List of projects:

Teaching staff	List of projects		
Prof. Hoda Elsayed	Topics:		
	Drugs containing lipids search for:		
	• Trade name		
	<ul> <li>Composition</li> </ul>		
	Chemical structure of the active		
	constituents (lipid)		
	• Indications		
	Side effects		
	Dosage form		
Prof. Mervat Asker	Topics:		
	1- Drug contain monosaccharide in its		
	ingredients write:		
	structure, physical properties,		
	physiological importance		
	2- Drug contains polysaccharide write:		
	structure, properties		

	3-Mucopolysaccharides: Types, function, mention two drugs containing them 4- Lipids 5- Essential fatty acids 6-Phospholipids	
Dr.GehadElnagar	Topics:	
	Drugs containing protein search for:	
	Trade name	
	<ul> <li>Composition</li> </ul>	
	Chemical structure of the active	
	constituents (protein)	
	• Indications	
	Side effects	
	Dosage form	

#### **Evaluation of course content and final exam:**

#### 4- Facilities and teaching materials:

Totally adequate	-
Adequate to some extent	
Inadequate	-

#### List any inadequacies:

- Poor internet and difficulty of lecture download for some students

#### **5- Administrative constraints:**

Absence of well-equipped computer lab with good internet connection and IT technician to help teaching staff if there is any difficulty in preparing and uploading lectures.

#### 6- Student evaluation of the course:

List any criticism	Response of course team	
There should be more online communication between students and lecturers.	Good communication is already present either through the official page of biochemistry department or the e-mails of lecturers.	
Effective use of technological	Technology already has been	

methods of E-learning should be used.	used in students learning either through video- recording or other methods.
E-learning is not suitable for all students due to different and difficult circumstances.	Providing those students with all methods they need will be considered.
E-learning shouldn't replace traditional one.	There is no intention to replace traditional learning by E-learning. Both go side by side to achieve our targets.
Poor experience and knowledge required for research preparation and writing.	Providing more lectures about how to prepare a scientific research will be considered.

# 7- Teaching staff evaluation of online learning and student assessment by projects:

Generally, staff members were satisfied about online learning but they mentioned problems that students may face like unavailability of computers or weak internet connection

Unavailability of formal platform for the faculty to organize the interaction process with students

Unavailability of teaching studio equipped with audiovisual facilities for recording lectures

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

Well structured course design

#### 9- Course enhancement:

1. Progress on actions proposed for improving the course in previous course reports (if any).					
Actions recommended from the most recent course report(s)	Actions Taken	Action Results	Action Analysis		
Updating the course content and presenting it simply.	Course team     added the nucleic     acid part	Students identified the main items in biochemistry 1	More enhancement of the course		

Using additional	Course team	more student interaction	maintenance of action is
learning and teaching	Divided the	with lecturers.	required
methods such as group	students into		
discussion to	groups of 25		
encourage students to	students		
interact effectively	responsible for a		
with lecturers.	certain activity.		

Actions Recommended for Further Improvement	Start Date	Completion Date	Person Responsible
Apply electronic practical exam	2020- 2021	2020-2021	Course team
Apply blended learning strategy	9/2020	6/ 2021	Course team
Development of search skills through course assignments	9/2020	6/ 2021	Course team
Arrangements for platform creation	2021	2022	Faculty administration

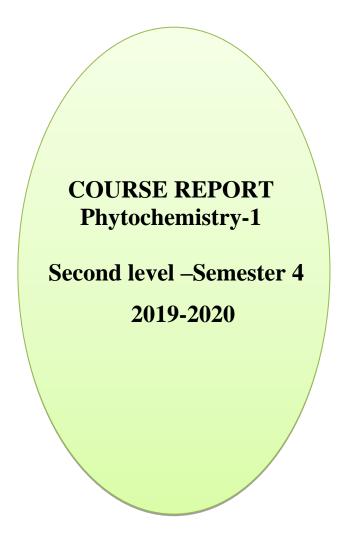
Course Coordinator: Prof.Dr. Hoda Elsayed

**Signature:** 

Head of Biochemistry department: Ass. Prof. Nahla Nabil Younis

**Signature:** 

Date: Course report was approved in department council on



# **Annual Course Report (2019-2020)**

University: Zagazig	Faculty: Pharmacy	Department: Pharmacogno	osy
Course Report			
A- Basic Information			
1. Title and code: Phytochem	nistry I	Code: PG404	
2. Programme(s) on which the Pharmacy)	this course is given:	Bachelor of Pharmacy (Cla	inical
3. Year/ Level of programme	: Second year / 4 <sup>th</sup> ser	mester	
4. Units/Credit hours:			
Lectures 2	Tutorial/Practical	2 Total 3	
5. Names of lecturers contrib	outing to the delivery o	of the course:	
Prof. Dr. Maher El-Domia	nty		
Prof. Dr. Mahmoud AbdA	Maal		
Prof. Dr. Azza Al-Shafeay	1		
A Prof. Maged Abou-Has	hem		
Dr. Islam Mostafa			
Dr. Nora Tawfeek			
Course co-ordinator: Prof. External evaluator: Prof. I		laal	

# B- Statistical Information

No. of stude	ents attending	the	course:		No.	193	%	100
No. of stude	ents completin	ng th	ne course	• •	No.	193	%	100
Results:								
Passed:	No. 191	%	98.96	Failed: No.		2	] %	1.03
Grading of	successful stu	den	ts:					
Excellent:	No.	%		Very Good No.	•		] %	
Good:	No.	]%		Pass: No.		191	]%	98.96

# C- Professional Information

# 1 - Course teaching

Topics actually taught	No. of hours	Lecturer
Carbohydrates Definition, classification, properties, evaluation	2	A Prof. Maged Abou-Hashem
Carbohydrates Monosaccharides	2	Prof. Dr. Mahmoud AbdAlaal
Carbohydrates Disaccharides	2	Prof. Dr. Azza Al-Shafeay
Carbohydrates Heteropolysaccharides and holopolysaccharides	2	
Bitter principals and Tannins	2	Dr. Nora Tawfeek
Resin and resin combination	2	
Volatile oils - Occurrence, physical properties Preparation and determination Chemistry and uses Classification of vol. oils components.	2	Dr. Islam Mostafa
-Biosynthesis of volatile oils	2	
Volatile oils Hydrocarbons.	2	
Volatile oils Oxygenated components.	2	Prof. Dr. Maher El-Domiaty
Volatile oils Oxygenated components.	2	
Volatile oils  N and S containing components.	2	

Topics taught as a percentage of the content specified:

>90%  \[ \sqrt{0-90\%}	<70%
Reasons in detail for not teaching any topic	
Because of Corona pandemic and change	e of assessment method, students'
activity through the course was cance	elled
If any topics were taught which are no 2- Teaching and learning methods:	ot specified, give reasons in detail
Lectures: Practical training/laboratory: Seminar/Workshop: Class activity: Case Study:	

Other assignments/homework:

If teaching and learning methods were used other than those specified, list and give reasons: Internet based research and visits to community pharmacy to be in touch with applications of the course in the market and renew information.

3- Student assessment:

Because of Corona Pandemic, the assessment methods were modified according to the descision of Supreme Council of Universities.

The final written exam was replaced by preparation of project in a topic related to the course. Each project objectives were announced to the students through orientation lecture as well as rules for preparation and assessment of the project. After receiving and assessing the projects, feedback about students performance was announced to the students as well. All the projects were

evaluated according the the scale of pass or fail and so no marks or grades were recorded.

#### List of projects:

Teaching staff	List of projects
A. Prof. Maged Abou-Hashem	Carbohydrates Chromatography
Dr. Islam Mostafa	Terpenes

4- Facilities and teaching materials:

Totally adequate

Adequate to some extent

Inadequate

List any inadequacies

-√ -

#### Poor internet and difficulty of lecture download for some students

5- Administrative constraints

Absence of well equipped computer lab with good internet connection and IT technician to help teaching staff if there is any difficulty in preparing and uploading lectures

6- Student evaluation of the course:

List any criticism	Response of course team
Generally students were satisfied about the course but they complained from assessment through projects preparation in the following point:  No follow up from some staff members.  No determination of list of references for each project.  Not enough time for projects preparation	-Insert preparation of projects as a tool for assessment -Good planning for students projects regarding time.

# 7- Teaching staff evaluation of online learning and student assessment by projects:

-Generally, staff members were satisfied about online learning but they mentioned problems that students may face like unavailability of computers or weak internet connection.

-Unavailability of formal platform for the faculty to organize the interaction process with students.

-Unavailability of teaching studio equipped with audiovisual facilities for recording lectures.

8- Comments from external evaluator(s): Response of course team

-List of references must be updated consideration Will be taken into

9- Course enhancement:

Progress on actions identified in the previous year's action plan:

Action

Availability of some chemicals and material required for practical

Completed

9- Action plan for academic year 2020 - 2021

Actions required Completion date Person responsible

Improvement of course books 2020-2021 Course coordinator

Using illustrative videos

Renew of the practical schedule

Continuous evaluation for the students

during practical sessions (3 exams)

Course coordinator: Prof. Dr. Mahmoud AbdAlaal Head of Department: Prof Dr. Amal Al-Gendy

Signature:

Date: 29/09/2020



# **Course Report of community pharmacy practice**

Institution: Zagazig University	
Faculty: Pharmacy	
A- Basic Information:	
1. Program (s) on which the course is given: B	Sachelor of pharmacy – clinical pharmacy
2. Major or Minor element of programs:	Major
3. Code: PC407	
4. Department offering the course: Analytical	l Chemistry Department
5. Academic year Level: Second level /Four	rth semester
Units/Credit hours:	
Lectures 1 P	Practical 1 Total 2
5. Names of lecturers contributing to the	he delivery of the course:
Prof. Wafaa Hassan	
Dr. Sara Anis	
<b>6. Course coordinator:</b> Prof. Wafaa Hass	san
7. External evaluator:	
External evaluator: Prof. Dr. Yasser Sh	naker (Cairo University)
<b>B- Statistical Information:</b>	
o. of students attending the course:	No. 213 % 100
o. of students completing the course:	No. \( \begin{array}{c c} \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
or or ordered comprehing the course.	213 70 100

	Results:					
Passed:	213	No.	100 %	Failed: 0	%	0 %
Grading of	f successful s	tudents:				
Excellent:		No.	%	Very Good: No.	%	
Good:		No.	%	Pass: No.	%	

### **C- Professional Information:**

1 - Course teaching:

1 - Course teaching.		_
Topics actually taught	No. of	Lecturer
	hours	
Introduction to instrumental methods of analysis	1	Prof. Wafaa Hassan
Electromagnetic Radiation, Light as energy, types of	1	
electronic transitions, laws of light absorption and		
Beer-lambert's law		
Absorption spectrum, Chromophore, Auxochrome,	1	
bathochromic shift, hypochromic shift, hypochromic		
effect and hyperchromic effect, Effect of pH on		
absorption spectra		
Colorimetry, General requirements of the colored	1	
product, General requirement of an ideal chromogen		
Instrumentation	1	
Spectrophotometer, Light source, Monochromator,		
Sample compartment, Light detector, Types of		
Transducer, Signal processor (meter or recorder)	4	
Application of spectrophotometry	1	
Continue Application of spectrophotometry	1	
Spectrofluorimetry	1	Dr. Sara Anis
☐ Theory of luminescence.		
☐ Fluorescence, phosphorescence, internal		
conversion, intersystem crossing		
Spectrofluorimetry	1	
☐ Factors affecting fluoresce intensity		
☐ Instrumentation		
Principals of chemical separation	1	

Separation efficiency Resolution		
Theory of HPLC And Modes of separation	1	
HPLC - Instrumentation	1	
UPLC and applications	1	
Revision	1	
Theoretical Exam	1	

Topics taught as a	narcantage of t	he content sne	ocified:		
>90%	percentage of the	70-90%	cineu.	<70% □	
	·				
Reasons in detail	for not teaching	g any topic:			

Because of Corona pandemic and change of assessment method, students' activity through the course was cancelled

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

### 2- Teaching and learning methods:

Lectures:	
Practical training/ laboratory:	-
Seminar/Workshop:	-
Class activity: role play	$\sqrt{}$
Case Study:	V

Other assignments/homework:

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

Because of the widespread of Corona pandemic and suspension of the study since 15 March, the university established an online lecturing policy where the lectures and

laboratory were delivered to the students through telegram channel.

#### **3-** Course learning outcome assessment:

Because of Corona Pandemic, the assessment methods were modified according to the descision of Supreme Council of Universities.

The final written exam was replaced by preparation of project in a topic related to the course. Each project objectives were announced to the students through orientation lecture as well as rules for preparation and assessment of the project. After receiving and assessing the projects, feedback about students performance was announced to the students as well. All the projects were evaluated according the the scale of pass or fail and so no marks or grades were recorded.

List of projects:

Dist of projects.	<u>,                                      </u>
Teaching staff	List of projects
Prof. Wafaa Hassan	<ul> <li>Spectrophotometeric applications to analysis of different class of pharmaceuticals.</li> <li>Each student was assigned a specific drug name.</li> </ul>
Dr. Sara Anis	<ul> <li>HPLC applications to analysis of different class of pharmaceuticals.</li> <li>Each student was assigned a specific drug name.</li> </ul>

#### **Evaluation of course content and final exam:**

#### 4- Facilities and teaching materials:

Totally adequate	-
Adequate to some extent	V
Inadequate	-
List any inadequacies:	

- Poor internet and difficulty of lecture download for some students

#### **5- Administrative constraints:**

Absence of well equipped computer lab with good internet connection and IT technician to help teaching staff if there is any difficulty in preparing and uploading

#### lectures

#### 6- Student evaluation of the course:

List any criticism	Response of course team	
Over 80% of the students	- A	Add
were very satisfied with the	more applications into the curriculum.	
course content and the	-	
teaching methods, they also		
were happy about being able		
to reach out to the teaching		
staff during the pandemic		
which was done through		
online communication.		
The only concern was with		
regards to the inability of		
some students to access high		
speed internet, also some		
students asked for more		
applications to be added to		
the curriculum.		

# 7- Teaching staff evaluation of online learning and student assessment by projects:

Online teaching experience was relatively new to most staff members, they were mostly satisfied about it, however, some problems must be addressed for further improvements including:

- 1. Improving internet connection speed and performance.
- 2. Establishing an online platform e.g. portal system, for the faculty to organize the interaction process with students
- 3. Purchasing fully licensed softwares that enables faculty staff to meet with large number of students through online lecturing.

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

Comments from external evaluator:	Response of course team
The aim of the course is convenient with the goals of the	
year	
All skills (knowledge, practical and intellectual) are good	

#### 9- Course enhancement:

Progress on actions proposed for improving the course in previous course reports (if any).

Students were satisfied about the course contents, there were no specific concerns to be addressed

Actions Recommended for Further Improvement	Start Date	Completion Date	Person Responsible
Update curriculum with more applications.	9/2020	9/2020	Course instructors
Apply electronic practical exam	2020-2021	2020-2021	Course instructors
Use storyboard that, program for preparing different scenarios about good and bad communication as an activity	9/2020	6/2021	Course instructors
Apply blended learning strategy	9/2020	6/ 2021	Course instructors
Development of search skills through course assignments	9/2020	6/ 2021	Course instructors

Signature: Wafaa Hassan		
Date:	/	/

# **COURSE REPORT**

General microbiology & Immunology

Second level –Semester 4 2019-2020

# **Course report of General Microbiology and Immunology**

Institution: Zagazig University
Faculty: Pharmacy
A- Basic Information:
1. Program (s) on which the course is given: Bachelor of pharmacy, clinical pharmacy
2. Major or Minor element of programs: Major
3. Code: PM 401
4. Department offering the course: Microbiology & Immunology
5. Academic year Level: Second Level -Semester 4
4. Units/Credit hours:
Lectures 3 Tutorial/Practical 1 Total 4
5. Names of lecturers contributing to the delivery of the course
i) Prof. / Fathy Serry
ii) Prof. Ashraf Kadry
iii) Prof. / Nehal El-sayed
iv) Ass. Prof. / Amira El-Ganiny
1v) 7355. 1 101. / 7 Milita El-Gailiny
Course coordinator: Prof. / Ashraf Kadry
External evaluator: Prof. Mohamed Abdel Halim Ramadan—
Microbiology –Cairo University
D. Statistical Information.
B- Statistical Information:
No. of students <b>attending</b> the course:  No. 218 % 100
No. of students <b>completing</b> the No. 217 % 99.5
course.

#### **Results**:

Passed: No.**217** % 99.6 Failed: **1** % 0.4

# Grading of successful students:

ery Good: Excellent: No. % % 0 0 No. Good: No. Pass: % |% 0 217 99.6 No.

#### **C-Professional Information:**

### 1 - Course teaching

Topics actually taught	No. of hours	Lecturer
General introduction to microbiology and historical review	11	
•Description of microorganisms		Drof Nahal Elagyad Vagaaf
Classification and types of Microorganisms		Prof. Nehal Elsayed Yossef
•Brief description of viruses, fungi and		
protozoa		
Bacteria: description and classification		
•Anatomy and structure of bacterial cells		
•Growth and cultivation of bacteria, bacterial		
growth curve		
• Microbial metabolism	10	Prof. Fathy Serry
Bacterial catabolism		
Bacterial anabolism		
• Microbial genetics		
•Transcription and Protein synthesis		
•Genetic variation		
Mutation		
• •Genetic Transfer among bacteria		
Cell mediated immunity		
•		
<ul> <li>Introduction to immunology</li> </ul>	10	Prof. Ashraf Kadry
• Immune system		
• — innate immunity		
• Cells of immune response		
Immunogens or antigens		
Acquired immune response		
Humoral immune response		

Serological reactions		11	Ass. Prof. Amira El-Ganiny
• Cell mediated immunity and Cytokines	-	11	Ass. 1101. Annia El-Ganniy
Immunologic mechanisms of tissue			
damage			
<ul> <li>Hypersensitivity reactions</li> </ul>			
• Transplantation immunology			
<ul> <li>Autoimmune diseases</li> </ul>			
Tumour immunology			
• Immunoprophylaxis			
Topics taught as a percentage of >90% $\sqrt{}$ 70	the con	tent speci	fied:
any topic  Because of Corona pandemic and cha through the course was cancelled	inge of a	ssessment	method, students' activity
If any topics were taught which	are not s	specified,	give reasons in detail
2- Teaching and learning meth	ods:		
Lectures		٧	
Practical training/ laboratory:	L		
Seminar/Workshop:			
Class activity:			
Case Study:			
Others: videos			

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

Because of Corona pandemic and suspension of the study since 15 March, the lectures and laboratory were delivered to the students through telegram channel.

#### **3-** Course learning outcome assessment:

Because of Corona Pandemic, the assessment methods were modified according to the descision of Supreme Council of Universities.

The final written exam was replaced by preparation of project in a topic related to the course. Each project objectives were announced to the students through orientation lecture as well as rules for preparation and assessment of the project. After receiving and assessing the projects, feedback about students performance was announced to the students as well. All the projects were evaluated according the the scale of pass or fail and so no marks or grades were recorded.

#### **Evaluation of course content and final exam:**

#### **4- Facilities and teaching materials:**

Totally adequate	-
Adequate to some extent	
Inadequate	-
List any	

Poor internet and difficulty of lecture download for some students
 5- Administrative constraints:

Absence of well equipped computer lab with good internet connection and IT technician to help teaching staff if there is any difficulty in preparing and uploading lectures

#### 6- Student evaluation of the course:

List any criticism	Response of course team
-Generally students were satisfied about the course but	Insert preparation of projects as a tool for
they complained from assessment through projects	assessment
preparation in the following	Good planning for
point: - No determination of list of	students projects regarding time, follow up,

references for each project	determination of
<ul> <li>Not enough time for projects</li> <li>preparation</li> </ul>	objectives, references and assessment criteria

# 7- Teaching staff evaluation of online learning and student assessment by projects:

Generally, staff members were satisfied about online learning but they mentioned problems that students may face like unavailability of computers or weak internet connection

Unavailability of formal platform for the faculty to organize the interaction process with students

Unavailability of teaching studio equipped with audiovisual facilities for recording lectures

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

- The course was well designed
- ILOs were properly written

#### 9- Course enhancement:

Progress on actions identified in the previous year's action plan:

Action State whether or not completed

and give reasons for any non-

completion

Updating Students Notes Completed

#### 10- Action plan for academic year 2020 - 2021

Actions required	<b>Completion date</b>	Person responsible
Revision of the course references	2020-2021	Course team

Apply electronic practical exam	2020-2021	Course team
Apply blended learning strategy	2020-2021	Course team
Development of search skills through course assignments	2020-2021	Course team
Arrangements for platform creation	2020-2021	Faculty administration

**Course Coordinator**: Prof. Dr/ Ashraf Kadry

**Head of Department**: Prof. Dr. Nehal Elsayed Youssef

تم مناقشة و اعتماد تقرير المقرر من مجلس القسم بتاريخ 2020/ 9 /30 تم مناقشة و



# **Course Report of Parasitology**

Institution: Zagazig University	
Faculty: Pharmacy	
A- Basic Information:	
1. Program (s) on which the course is given:	Bachelor of pharmacy – clinical pharmacy
2. Major or Minor element of programs:	Major
3. Code: <b>MD 406</b>	
4. Department offering the course: Microbio	ology & Immunology
5. Academic year Level: second level /fou	rth comactor
3. Academic year Level, second level/10d	itii semestei
II. '4./O - 1'.1	
Units/Credit hours:	
Lectures 1	Practical 1 Total 2
5. Names of lecturers contributing to	the delivery of the course:
<ul> <li>Prof. Dr/ Ghada Hamed St</li> </ul>	haker.
• Dr / Momen Ezz EL-Arab	
,	
<b>6. Course coordinator:</b> Prof. Dr/ Ghad	a Hamed Shaker
7. External evaluator:	
External evaluator: Prof. Dr/ Abdel G	awad Hashem
<b>B- Statistical Information:</b>	
	27
o. of students attending the course:	No. 180 % 100
o. of students completing the course:	No. 179 % 99%
Results:	
assed: 179 No. 100 %	Failed: 1 % 1%
100 /0	No.

Grading of successful students:  Excellent: No. %  Good: No. %	Very Good: No. Pass: No.	%
C- Professional Information:		
1 - Course teaching:	27 01	
Topics actually taught	No. of hours	Lecturer
General introduction	6	Prof. Dr/ Ghada
Trematodes		Hamed Shaker
Cestodes		Dr / Momen Ezz
Nematodes		,
Protozoology	9	Elarab
Entomology		
Revision& Open discussion		
Topics taught as a percentage of the content specified:  >90% √ <70% □		
Reasons in detail for not teaching any topic:		
Because of Corona pandemic and change of assessment method, students' activity through the		
course was cancelled		
If any topics were taught which are not specified, give reasons in detail:		
2- Teaching and learning methods:		

Lectures:	
Practical training/laboratory:	-
Seminar/Workshop:	-
Class activity: role play	
Case Study:	-
Other assignments/homework: If teaching and learning methods were reasons:	used other than those specified, list and give
Because of Corona pandemic and suspe	nsion of the study since 15 March, the
lectures and laboratory were delivered to	o the students through telegram channel.
3- Course learning outcome assessme	ent:
the course. Each project objectives orientation lecture as well as rules for After receiving and assessing the pro-	
G	
Totally adequate	<u>-</u> √
Adequate to some extent  Inadequate	_
List any inadequacies:	
- Poor internet and difficulty of lea	cture download for some students
5- Administrative constraints:	
Absence of well equipped computer lab	with good internet connection and IT
technician to help teaching staff if there	e is any difficulty in preparing and uploading

## lectures

### 6- Student evaluation of the course:

List any criticism	Response of course team
Generally students were satisfied about the course but they complained from assessment through projects preparation in the following point:	nsert preparation of projects as a tool for assessment
o follow up from some staff members  No determination of list of references for each project	ood planning for students projects regarding time, follow up,
Not enough time for projects preparation	determination of objectives, references and assessment criteria

# 7- Teaching staff evaluation of online learning and student assessment by projects:

Generally, staff members were satisfied about online learning but they mentioned problems that students may face like unavailability of computers or weak internet connection

Unavailability of formal platform for the faculty to organize the interaction process with students

Unavailability of teaching studio equipped with audiovisual facilities for recording lectures

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

- The course was well designed
- ILOs were properly written

## 9- Course enhancement:

1. Progress on actions proposed for improving the course in previous course reports (if any).				
Actions recommended from the most recent course report(s)	Actions Taken	Action Results	Action Analysis	
Revision of the course and implement any required updates.	Revision done	Students are more satisfied		

Actions Recommended for Further Improvement	Start	Completion	Person
_	Date	Date	Responsible
Revision of the course references	9/2020	9/2020	Course instructors
Apply electronic practical exam	2020-	2020-2021	Course instructors
	2021		
Apply blended learning strategy	9/2020	6/ 2021	Course instructors
Development of search skills through course	9/2020	6/ 2021	Course instructors
assignments			
Arrangements for platform creation	2021	2022	Faculty
			administration

Course Coordinator: Prof. Dr/ Ghada Hamed Shaker Head of Department: Prof. Dr. Nehal Elsayed Youssef

تم مناقشة و اعتماد تقرير المقرر من مجلس القسم بتاريخ 30 / 9 /2020 م

# COURSE REPORT

Pharmaceutical dosage forms 1

Second level –Semester 4 2019-2020

## **Annual Course Report of Pharmaceutical Dosage Forms-1**

University: Zagazig Faculty: Pharmacy

**Department:** Pharmaceutics

# <u>A – Basic Information:</u>

- **1. Title and Code:** Pharmaceutical Dosage Forms-1 (PT403)
- 2. Program(s) on which this course is given:

Clinical Pharmacy program

- **3. Year / Level of programs:** Second year (Forth semester)
- **4.** Units / Credit hours: 3 hrs/week

- 5. Names of lecturers contributing to the delivery of the course:
  - Prof. Dr. Hanaa El-Ghamry
  - Prof. Dr. Fakhr Eldin Ghazy
  - Assistant Prof. Dr. Azza Ali Hassan
- **6. Course coordinator:** Assistant Prof. Dr. Azza Ali Hassan
- 7. External evaluator:....

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

Number of students attending the course	218	100 %
Number of students completing the course	218	100%

<b>Results:</b>					
Passed	218	100%	Failed	0	0%
<b>Grading:</b>	1				1
Grade	No.	Percentage	Grade	No.	Percentage
Grade A	No.	Percentage	Grade A-	No.	Percentage

B-		<b>C</b> +	
С		C-	
$\mathbf{D}^{+}$		D	
F			

# **C- Professional Information**:

# 1. Course teaching:

Topic	No. of hours	Lecturers
Emulsion		
-Definition	2	
-Types of emulsion		
-Theories of emulsification		
- ideal characters of Emulsifying agents	2	
-examples of emulsifying agents	2	
-Stability of emulsions		
Different methods for Preparation of	2	
emulsion		Prof. Dr. Hanaa
Suspensions		Atia El-Ghamry
-definition		
-Reasons for preparing suspension		
-Characters of ideal suspension		
- ideal characters of suspending agents	2	
with examples		
-Formulation and evaluation of		
suspensions		
'-Stability of suspensions		
- solution		Prof. Dr. Fakhr
- Water, aromatic water, syrups		Eldin Ghazy
- , elixirs, liniments, lotions	2	Diam Ghazy
- Factors affecting solubility		
Solubility curves of solids in liquids		

Tablets - Advantages, disadvantages - Main excipients (diluents, binders, disintegrant, lubricant) - Methods of preparations (dry, directly compressible vehicles ,wet granulation)	4	
- Powders and granules -definitions	2	
-powders as dosage forms -Advantaged and disadvantages		
Introduction to disperse system Colloids -definition	2	
-Pharmaceutical application of colloids -Types of colloidal systems -ideal characters of colloids -Stability of colloids	2	
Powders and granules -definitions -powders as dosage forms -Advantaged and disadvantages	2	
Powders and granules -flow properties -effervescent granules	2	
Capsules  - Definition, advantages and disadvantages  - Hard gelatin capsules: composition of the shell, Types of excipients, limitations.  - Different sizes of capsules  - Stability of hard gelatin capsule     Quality Control Tests: Disintegration test, Weight variation test, Dissolution	2	Assistant prof.Dr. Azza Ali Hassan

test.		
- Soft Gelatin Capsule, advantages and		
disadvantages		
- Comparison between Hard and soft		
gelatin Capsules	2	
- Vegicaps Soft Capsules	<i>L</i>	
- Enteric coated capsules:		
Sustained release capsules; Spansule and		
medules.		
- Microencapsulation		
- Definition, Applications and		
Advantages of Micro-encapsulation.		
- Methods of preparation:		
- Pan coating		
- Air-suspension coating,	2.	
- Spray techniques: spray drying &	<i>L</i>	
spray congealing.		
- Coacervation – Phase Separation		
Process.		
Solvent Evaporations method for		
preparation of microspheres.		

# Topics taught as a percentage of the content specified:

>90 % \qquad \qqquad \qqquad \qqquad \qqquad \qqqqq \qqqq \qqq \qqqq \qqq \qqqq \qqq \qqqq \qqq \qqqq \qqq \qqqq \qqq \qqqq \qqq \qqqq \qqq \qqqq \qqq \qqqq \qqq \qqqq \qqq \qqqq \qqqqq

# Reasons in detail for not teaching any topic

Because of corona pandemic and change assessment method, student's activity through the course was cancelled

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

## 3. Teaching and learning methods:

Lectures	V
Practical Training / Laboratory	V
Seminar / Workshop	V
Class activity	V

Case study	
Other assignment / homework	

• Teaching and learning methods were used other than those specified, list and give reasons:

Because of corona pandemic and suspension of study since 15 March, the lecture and laboratory were delivered to students through telegram channels

### 4. Course learning outcome assessment:

Because of corona pandemic the assessment method were modified according to the decision of supreme council of universities

The final written exam was replaced by preparation of project in topic related to the course. Each project objective was announced to the students through orientation lecture as well as rules for preparation and assessment of project. After receiving and assessing the projects. Feedback about student performance was announced to the students as well. All the projects were evaluated according to the scale of pass or fail and so no marks or grades were

# List of projects: Project 1

- **1.** Particle size reduction (comminution), advantages, different apparatuses used for size reduction with explanation for mechanisms of each apparatus. (Explain with sketches)
- 2. The mechanism of emulsion formation
- **3.** advantages and disadvantages of tablets as dosage form.

# **Project 2**

recorded

- 1. diluents used in tablet manufacture
- **2.** The role of surface active agent in emulsion preparation

**3.** Hard gelatin capsules; advantages, disadvantages, composition of shell and excipients used, small scale and large scale preparations methods, problems in production, limitations in properties of materials for filling into capsules, Types of materials for filling into hard gelatin capsules.

# **Project 3**

- **1.** Different types of Coacervation Phase Separation techniques for preparation of microcapsules; schematic diagram, advantages, disadvantages, applications in pharmacy.
- **2.** The different type of natural emulsifying agent
- 3. binders used in tablet manufacture

# **Project 4**

- 1. disintegrants and their role in tablets
- **2.** The reason for choice of synthetic emulsifier than the other types in the preparation of emulsion
- **3.** Pharmaceutical applications of Colloids.

# **Project 5**

- 1. Quality control tests for hard and soft gelatin capsules. (Draw different instruments used in these tests)
- **2.** The factor which effect the Stability of emulsion
- 3. soluble and insoluble lubricants used in tablets

# **Project 6**

- 1. dry methods for tablet preparation
- **2.** Types of disperse system
- **3.** Different forms of dispensed powders in pharmacy and their packaging.

# **Project 7**

- **1.** Spray techniques; Spray drying and spray congealing; apparatus, advantages, disadvantages, applications.
- 2. The type of wetting agent
- **3.** wet methods for tablet preparation

# **Project 8**

- 1. tabletting problems
- 2. The viscosity modifier
- **3.** Kinetic, optical and electrical properties of colloids.

# **Project 9**

- 1. Soft gelatin capsules; advantages, disadvantages, composition of shell and excipients used, methods of manufacture, limitations in properties of materials for filling into capsules, Types of materials for filling into soft gelatin capsules.
- **2.** Suspension formulation additives
- 3. physical evaluation of tablets

# **Project 10**

- 1. chemical evaluation of tablets
- 2. The mechanism of emulsion formation
- **3.** Granules; Advantages, disadvantages, types, preparation and dispensed forms in pharmacy.

# Project 11

- **1.** Solvent evaporation technique for preparation of microspheres; procedure, advantages, disadvantages, applications.
- **2.** The role of surface active agent in emulsion preparation
- 3. sugar coating process of tablets

# **Project 12**

- 1. film coating process of tablets
- 2. The different type of natural emulsifying agent
- 3. Pharmaceutical applications of dialysis and electro dialysis.

# **Project 13**

- 1. Special forms of capsules; e.g. enteric coated, sustained release, vegicaps, aplicaps, suckable, chewable, meltable ......etc.
- **2.** The reason for choice of synthetic emulsifier than the other types in the preparation of emulsion
- 3. factors affecting solubility and solubility curves

# **Project 14**

- 1. water, aromatic waters, syrups, elixirs and spirits
- **2.** The factor which effect the Stability of emulsion
- 3. Blending of powders; methods, advantages, disadvantages and applications.

# **Project 15**

- 1. Pan coating technology; apparatus, advantages, disadvantages, applications.
- **2.** Types of disperse system
- **3.** advantages and disadvantages of tablets as dosage form.

# **Project 16**

- 1. diluents used in tablet manufacture
- **2.** The type of wetting agent
- **3.** Classification and preparation of different types of colloids.

# **Project 17**

- **1.** Flow properties of powders; factors affecting, Methods of improving, measurement and applications in pharmaceutics. (Explain with drawing)
- **2.** The viscosity modifier
- 3. binders used in tablet manufacture

# **Project 18**

- 1. disintegrants and their role in tablets
- 2. Suspension formulation additives
- **3.** Air-suspension technique of coating; apparatus, advantages, disadvantages, applications.

# **Project 19**

- **1.** Special Problems arises during powder manufacture, solving these problems, applications.
- **2.** The mechanism of emulsion formation
- 3. soluble and insoluble lubricants used in tablets

### 5. Members of examination committee:

- Prof. Dr. Hanaa Atia El-Ghamry
- Prof. Dr. Fakhr Eldin Ghazy
- Assistant prof. Dr. Azza Ali Hassan

## 6. Facilities and Teaching Materials:

Totally adequate	
Adequate to some extent	$\sqrt{}$
Inadequate	

### List any inadequacies:

Poor internet and difficulty of lecture download for some students

### **7- Administrative Constraints:**

Absence of well-equipped computer labs with good internet connection

### 8- Students evaluation of the course:

Students evaluation of the course	Response of course team
Students asking for new techniques	We will try in the next course to
about formulation of new dosage	update some practical labs.
forms of several active ingredients	

### 9- Comments from external evaluator(s): evaluation was done 2018-2019

<b>Comments from external evaluator:</b>	Response of course team
Aim of the course is suitable and	
connected in the theoretical and	
practical sides	

### **10- Course Enhancement:**

Action	State whether or not completed and give reasons for any non-completion
Measurement of ILOS of course.	Completed.

Providing the student with an	Completed.
electronic source for the course.	

# 11- Action plan for academic year 2020–2021:

Action required	<b>Completion date</b>	Person responsible
Measurement of ILOS of course	2018-2019	Course team
Implementation of blended learning	2018-2019	Course team.

Course coordinator: Prof. Dr. Azza Ali Hasan

**Head of Department**: Prof . Dr. Nagia Ahmed Al-Amin

**Signature:** 

• Date: course report is approved on

# COURSE REPORT Pharmacy Legislation Second level –Semester4 2019-2020

# **Course Report of Pharmacy Legislation**

Institution: Zagazig University		
Faculty: Pharmacy		
A- Basic Information:		
1. Program (s) on which the course is given:	Bachelor of pharmacy – cli	nical pharmacy
2. Major or Minor element of programs:	Major	
3. Code: PT404		
4. Department offering the course: Pharmac	eutics	
5. Academic year Level: Second level /Fou	ırth semester	
Units/Credit hours:		
Units/Credit nours:		
Lectures 1	Practical	Total 1
5. Names of lecturers contributing to	the delivery of the cour	rse:
Prof. Dr. Hanaa Elghamry		
Prof.Dr. Mahmoud Abdelghany		
6. Course coordinator: Prof. Dr. Hana	a Elghamry	
7. External evaluator:		
External evaluator: Prof. Gamal Elmsg	hraby – Pharmaceutics -	-Tanta University
B- Statistical Information:	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
B- Statistical finormation.		
o. of students attending the course:	No. 192	% 100
o. of students completing the course:	No.	
	192	100
Results:		
nssed: 192 No. 100 %	Failed: 0	% 0 %

Grading of successful students:

Excellent:	0	No. 0	%	Very Good	: [	1	%	0.52
Good:	)	No. 0	%	No. Pass: [ No.	191		%	99.47

Topic	No of hours	Lectures
قانون مزاولة مهنة الصيدلة	2	
المؤسسات الصيدلية	2	
الصيدليات العامة.		
المؤسسات الصيدلية الصيدليات الخاصة مخازن الادوية	2	
المؤسسات الصيدلية	2	
مجال الاتجار في النباتات الطبية .		
المؤسسات الصيدلية	2	Prof. Dr. Hanaa
المستحضرات الصيدلية الخاصة و المستورية.		Elghamry
المستورية.		
جداول المواد المخدرة و طريقة تخزينها	3	
		Prof.Dr. Mahmoud
المواد المؤثرة على الحالة النفسية	2	Abdelghany
جداول المواد المؤثرة على الحالة النفسية	2	7 Tode Ignarry
قواعد تكليف الصيادلة	2	
قانون مكافحة المخدرات و تنظيم . استعمالها و الاتجار بها	2	

C- Professional Information:	
1 - Course teaching:	
Topics taught as a percentage of the co >90% √ 7	ontent specified: 70-90% <70%
Reasons in detail for not teaching any	topic:
If any topics were taught which are no	ot specified, give reasons in detail:
2- Teaching and learning methods:	
Lectures:	
Practical training/laboratory:	_
Seminar/Workshop:	-
Class activity: role play	-
Case Study:	-
Other assignments/homework:	
If teaching and learning methods were	used other than those specified list and give

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

Because of Corona pandemic and suspension of the study since 15 March, the lectures were delivered to the students online through telegram channel.

### **3- Course learning outcome assessment:**

Due to Corona Pandemic, the final written exam was replaced by preparation of project in a topic related to the course according to the descision of Supreme Council of Universities. Each project objectives and rules for preparation were announced to the students through online orientation lecture. Feedback about students performance was announced to the students after assessing students' projects. All the projects were evaluated according the the scale of pass or fail and so no marks or grades were recorded.

# List of projects:

Teaching staff	List of projects
Prof. Hanaa Elghamry	مسئوليات وواجبات الصيدلي تجاه المريض و الطرق السليمة . 1
	التي يتبعها الصيدلي مع المريض
	علاقة , القواعد العامة التي تحكم اخلاقيات المهن الطبية. 2
	الصيدلي بالمجتمع
	المؤسسات الصيدلية المختلفة و علاقتها بالصيدلي و المريض. 3
Prof.Mahmoud	المواد المخدرة أضرارها و طرق تقنينها. 1
Abdelghany	النباتات الطبية و دورها الحديث في العلاج .2
	3 اخلاقيات مزاولة مهنة الصيدلة و علاقة الصيدلي
	بالمجتمع

### Evaluation of course content and final exam:

## 4- Facilities and teaching materials:

Totally adequate	-
Adequate to some extent	V
Inadequate	_
•	

List any inadequacies:

- Poor internet connection for some students.

### **5- Administrative constraints:**

The teaching staff needs good internet connection and IT technician to help them for uploading lectures

### 6- Student evaluation of the course:

List any criticism	Response of course team
In general, most students were	Insert preparation of projects as a tool for
satisfied about the course but they	assessment
complained from assessment	Making lectures for training of students
through projects preparation in the	of online learning.
following point:	
need more training to cope with the	
online learning rather than the	
traditional education	

# 7- Teaching staff evaluation of online learning and student assessment by projects:

Generally, staff members were satisfied about online learning but they mentioned problems that face both students and the staff members such as weak internet connection, unavailability of formal platform for the faculty to organize the interaction process with students

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

- The course was well designed
- ILOs were properly written

### 9- Course enhancement:

1. Progress on actions proposed for improving the course in previous course reports (if any).							
Actions recommended from the most recent course report(s)	Actions Taken	Action Results	Action Analysis				
Providing the students with an electronic source for the course	online lectures was given to students	Students had access to the source of the course at any time	More enhancement of the online educatione of pharmacy				

Actions Recommended for Further Improvement	Start	Completion	Person
	Date	Date	Responsible
Revision of the course references	9/2020	9/2020	Course instructors
Apply blended learning strategy	9/2020	6/ 2021	Course instructors
Development of search skills through course	9/2020	6/ 2021	Course instructors
assignments			

Arrangements for platform creation	2021	2022	Faculty
			administration

Signature: Hanaa Elghamry

Date: / /