COURSE REPORTS Faculty of Pharmacy

Fourth Year - Second Term

2019-2020

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COURSE REPORT

Hospital Pharmacy and Clinical Pharmacy

Fourth year – secondTerm 2019-2020

Annual Course Report of Hospital and clinical pharmacy

Consumer Research
Course Report
A- Basic Information
1. Title and code: Hospital pharmacy and Clinical pharmacy code: PP420
2. Programme(s) on which this course is given: Bachelor of Pharmacy
3. Year/ Level of programme: 4 th year (2 nd semester)
4. Units/Credit hours:
Lectures 2 Tutorial/Practical 1 Total 2.5
5. Names of lecturers contributing to the delivery of the course
i Assis Prof. Gehan Fathy Attia
ii Dr. Shereen Sabri
Course co-ordinator: Assis Prof. Gehan Fathy Attia
External evaluator: Prof. Mohamed Ali Attia Shafae- Assuit University
B- Statistical Information
No. of students attending the course: No. 970 % 100
No. of students completing the course: No. 970 % 100
Results:
Passed: No. 970 % 100 Failed: 0 % No.
Grading of successful students:
Excellent: No. Wery Good: % No.
Good: No. ass:
C- Professional Information
1 - Course teaching

Topics actually taught	No. of hours	Lecturer
Orientation to hospital pharmacy	2	Dr. Shereen Sabry
Introduction to hospital pharmacy	2	
-Responsibilities of hospital pharmacist		
- Pharmacy and therapeutic committee	2	
- Hospital formulary		
Hospital drug distribution systems	2	Dr. Gehan Fathy
Dispensing process	2	
- Dispensing of biotechnology products		_
Dispensing of radiopharmaceuticals	2	
Dispensing of vaccines	2	
dispensing of cytotoxics		_
Medication errors	4	
Dispensing of controlled drugs	2	
Pharmacovigilance & adverse drug reactions	2	Dr. Shereen Sabry
Rational drug use	2	
IV admixture and TPN	2	

ent specified:
% <70%
pecified, give reasons in detail
sessment method, students' activity
**
**
_
**
-

Other assignments/homework:

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- 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.

The practical exam was electronic exam, where different forms were distributed to different students groups

List of projects:

Teaching staff	List of projects		
Assis. Prof. Gehan Balata	1.Biotechnology products		
	2. Hazardous Drugs		
	3. Medication errors in critical care		
	4. Medication errors: World Health		
	Organization		
	5. Medication errors in hospitals: unit dose		
	drug dispensing system versus floor stock		
	distribution system:		
Assis. Prof. Shereen sabri	Pharmacovigilance		
	2. Intravenous admixture		
	3. Total parenteral nutrition		
	4. Hospitals		
	5. Hospital formulary		
	6. Dispensing during off-hours		

4- Facilities and teaching materials:

Totally adequate

Adequate to some extent **

Inadequate -

List any inadequacies

List any difficulties encountered

Poor internet and difficulty of lecture download for some students

6- Student evaluation of the course: Response of course team

List any criticisms

List any criticism	Response of course team
Generally students were satisfied	<u>-</u>
about the course but they	nsert preparation of projects as a
complained from assessment	tool for assessment
through projects preparation in the	-
following point:	ood planning for students projects
	regarding time, references and
No determination of list of	assessment criteria
references for each project	
Not enough time for projects	
preparation	

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 lecture

- 7- Comments from external evaluator(s): Response of course team
- The evaluators were satisfied about the course
- 8- Course enhancement:

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

Actions required Completion

1- Add handling and dispensing of completed

Biotechnology products and

cytotoxic drugs

2- Add simulation lab for developing Cancelled due to Corona

practice skills

3-Cancel hospital visit and change

the activity into run an interview with cancelled due to corona

a patient to collect required information

for patient profile and then prepare a video

for this interview

4-30% of the final exam questions will be change of assessment

method

short essay for proper estimation of students achievement of ILOs and to reach normal distribution

of grades

9- Action plan for academic year 2020 - 2021

Actions required Completion date Person responsible

- 1.Add simulation lab for developing Sep 2020 Course coordinator practice skills
- 2. 30% of the final exam questions will be Sep 2020 Course team short essay for proper estimation of students achievement of ILOs and to reach normal distribution of grades

3.Apply blended learning	Sep 2020	Course team
4.Apply electronic exams	Sep 2020	Course team
Signature: Dr. Geha	nn Fathy	
Date:	/ /	

COURSE REPORT

Biotechnology of Natural Product

Fourth year – secondTerm 2019-2020

Passed: No. 971 % 100 Failed:	No. 0 % 0				
Course Report of Biotechnology of N	atural Products				
Institution: Zagazig University					
Faculty: Pharmacy					
A- Basic Information:					
1. Program (s) on which the course is given: Bachelor of ph	armacy				
2. Major or Minor element of programs: Major					
3. Code: PG 426					
4. Department offering the course: Pharmacognosy					
5. Academic year Level: Fourth year/Second semester					
5. Academic year Level. I out the year/second semester					
Units/Credit hours:					
Lectures 2 Tutorial/Practical 2	Total 3				
6. Names of lecturers contributing to the deli	very of the course:				
Prof. Samih ElDahmy,					
Prof. Rawia zaied,					
Prof. Zeinab Ibrahim,					
Ass. Prof. Rehab Hamed,					
Dr. Rasha Adel.					
7. Course coordinator: Prof. Samih El-Dahi	mv				
8. External evaluator: Prof. Ali Mohamed E	•				
o. External evaluator. 1101. An Monameu E	n-Bayeu.				
B- Statistical Information:					
No. of students attending the course:	No. 971 % 100				
No. of students completing the course:	No %				
1 0	971 100				
Results:					

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

C- Professional Information:

1 - Course teaching:

Topics actually taught	No. of	Lecturer
	hours	
 Introduction to plant tissue culture Plasticity and totipotency. The culture enlivenment. 	6	Prof. Zeinab Ibrahim.
- Plant cell culture media.		ioranini.
- Plant growth regulators - Culture types		
- Plant regeneration		
Micropropagation		
- Introduction to plant biotransformation		Dr. Rehab
- Biotransformation using plant cells and		Hamid.
organ culture.		
- Pathway transformation.	4	
- Biotransformation using immobilized cell culture.		
-Genetic engineering approach towards transformation.		
- Biotransformation using plant enzymes.		
- Biotransformation of selected secondary metabolites.		
- Introduction of plant genetics		
- A natural vehicle for introducing new gene into plant.		
- Horizontal gene transformation	6	Dr. Rasha
- The Ti plasmid and plant genetic engineering		Adel
- The role of organisms in genetic engineering.		
- Application and purpose of plant genetic engineering		
- Genetic engineering of biosynthetic enzymes for natural		Prof.
products		Samih El-
- Genetically engineered plant fats	4	Dahmy

- Production of candidate vaccines in plant tissue Genetic markers for plant breeding (DNA polymorphism) -Authentication of components from a mixture of herbal		Prof.			
- Other purposes of genetic engineering.	4	Rawia Zaied			
Topics taught as a percentage of the content specified: >90% √ 70-90%					

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

Other assignments/homework:

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

- Videos for demonstration.
- Activities (internet search about different topics including tissue culture techniques, DNA extraction...etc, then presenting data as a report and presentation).

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. Samih El-Dahmy	- If your college asked you about this problem. What is your
	advice to him?
	-1For the past 4 weeks I have been experiencing the growth
	of mould in my plant tissue culture plates. I have ensured
	that I am being "extra clean", I clean the flow hood with 70%
	ethanol three times. My media preparation is done in sterile
	conditions under the flow hood. All materials are sent to
	autoclave prior to use. My forceps are soaked in ethanol
	prior to the next plate and are flamed each time too. I then
	tape my petri dish/ boxes with micropore tape, twice. I do
	not let my hands go over any of the plates when I am using
	them. I check everyday for contamination and there always appears to be growth on one or two. I'm afraid that I will
	have no tissue left at this point.
	-2I am working on one of the flavor molecule producing it
	through biotechnological route. I have two recombinant
	genes that are involved in the enzymatic reaction that are
	transformed in E.coli Bl21. While setting the
	biotransformation reaction with the substrate along with the
	whole E.coli cells and lysed cells, whole cells are giving me
	better conversions as compared to lysed cells. My question is
	when I am using the fresh whole cells its conversion is less
	as compared to the cells resuspended in phosphate buffer
	ph7 and then stored at 4Co (refrigerator) for one two weeks.
	Why?
	3Does a gene show its expression during callus stage after
	Agrobacterium transformation ?
	-4 What are the benefits and disadvantages of transgenic
	plants ?
	-5With time, is it conceivable that biopesticides are going to
	replace (to a large extent) chemical pesticides?
	-6 Many people are against transgenic plants, do you think
	that we can nourish an increasing world population without

	them?
	-7 Protoplast fusion for crop improvement.
	-8 Bacterial gene inserted in an engineered RNA virus: efficient expression in monocotyledonous plant cells.
	-9 Expression of genes transferred into monocot and dicot
	plant cells by electroporation.
	10- What is genetic modification (GM) of crops and how is
	it done?
Prof. Rawia Zaied	Suggest an example for the identification of medicinal plants by applying one of the following DNA molecular techniques
	1-Identification of Medicinal Plants using DNA Sequencing marker
	2-Identification of Medicinal Plants using Random Amplified Polymorphic DNA (RAPD).
	3-Identification of Medicinal Plants using Sequence Characterized Amplified Region (SCAR).
	4-Identification of Medicinal Plants using Restriction Fragment Length Polymorphism (RFLP)
	5-Identification of Medicinal Plants using Amplified Restriction Fragment Length Polymorphism (AFLP).
Prof. Zeinab Ibrahim	1-Scopes of Plant tissue culture
	2-Sterilization techniques are applied in vitro culturing of plants.
	3-Different growth medium_that capable of sustaining cell survival and growth in plant tissue culture.
	4-Plant growth regulator (PGR).
	5-Cell suspension culture .
	6-Roles of elicitors to improve the biosynthesis of specific compounds.
	7-Micropropagation .
	8-Somatic embryogenesis.
	9-Androgenesis .
Assis. Prof. Rehab Hamed	Dicuss one of these topics with examples
	1-Techniques of biotransformation
	2- Biotransformation Pathway
	3- Biotransformation using plant enzymes
	4- Factors affecting biotransformation
	5- Application of biotransformation on production of
	natural products
Dr. Rasha Adel	1-Heterologous gene expression in plants (concept,
	methods, applications)

2-Applications on Agrobacterium mediated transformation in the production of secondary metabolites
3-Applications on Arabidopsis transformation using floral dip method in the production of secondary metabolites
4- Compare between different victorless methods of genetic transformation in plants showing advantages and drawbacks of each method.

Evaluation of course content and final exam:

4- Facilities and teaching materials:

Totally adequate	
	V
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 lecture.

6- Student evaluation of the course:

The number of students participate in the student questionnaire is not representative (0.6% of total number of students)

7- Comments from external evaluator(s):

Comments	Response of course team
- Course aims are very clear and linked to	-
program aims	
- Course topics are recent.	-
- Student assessment methods are	-
suitable.	

8- Course Enhancement:

Action required	State whether or not complete to give
	reasons for any non completion
- Addition of other activities to enhance	Complete
the students to develop self-learning	
abilities.	
- Contextualization of the course at the	Complete
beginning of the course.	

9- Action plan for academic year 2020–2021:

Action required	Completion date	Person responsible
Addition of new topics related		
to production of natural		
products using advanced	2020/2021	- Course team.
techniques of molecular		
biology		
Holding electronic exams	2020/2021	- Course team.
		- Faculty administration

Course Co-coordinator: Prof. Dr. Samih El-Dahmy

Signature:

Date: / /2020

COURSE REPORT

Clinical Biochemistry 2

Fourth year – secondTerm 2019-2020

Course Report of Clinical Biochemistry 2

Institution: Zagazig University	
Faculty: Pharmacy	
A- Basic Information:	
1. Program (s) on which the course is given: Bache.	lor of pharmacy
	Major
3. Code: BC 423	
4. Department offering the course: Biochemistry	
5. Academic year Level: Fourth year / Second term	
Units/Credit hours:	
Lectures 2 Pract	ical 1 Total 3
5. Names of lecturers contributing to the	he delivery of the course:
Ass. Prof. Nahla Younis	•
Dr. Rana Gamal	
Dr. Gehad Elnaggar	
6. Course coordinator: Ass. Prof. Nahla	Younis
7. External evaluator: Prof. Mammdoul	n El-Shishtawi (Mansoura University)
B- Statistical Information:	
No. of students attending the course:	No. 977 % 100
-	100
No. of students completing the course:	No. 977 % 100
Results:	
Passed: 977 No. 100 %	Failed: 0 % 0%
Grading of successful students:	
Excellent: No. %	Very %
	Good:No.
Good: No. %	Pass: %
	No.

C- Professional Information:

1 - Course teaching:

Topics actually taught	No. of hours	Lecturer
- Organ biology (liver)	2	Ass.Prof. Nahla Younis
-Organ biology (kidney and heart)Gastrointestinal tract.	6	Dr. Rana Gamal
-Blood function and composition - Anemia	8	Dr. Gehad Elnaggar
- Urine analysis -Genetic testing	8	

Topics taught as a percentage of the content specified:		
>90% 70-	90% <70%	
Reasons in detail for not teaching any topic:		
If any topics were taught which are not specified, give reasons in detail:		
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 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	
Ass. Prof. Nahla Younis	Topic 1 : Pancreatic carcinoma	
	Topic 2 : Colorectal carcinoma	
	Topic 3: Bronchogenic carcinoma.	
	Topic 4: Prostate cancer.	
	Topic 5: Polycyctic ovary syndrome.	
	Topic 6: Brain and spinal cord cancers.	
	Topic 7: Breast cancer.	
	Topic 8: Hepatocellular carcinoma.	
	Topic 9: Osteosarcoma.	
	Topic 10: Wilms tumor.	
	Topic 11: Lymphoma.	
	Topic 12: Rehumatoid arthritis.	
	Topic 13: Hemophilia.	
	Topic 14: Multiple myeloma.	
	Topic 15: Multiple sclerosis.	
	Topic 16:Leukemia.	
Dr. Gehad Elnaggar	Topic 1: Diffriential diagnosis of the	
	different studied anemia.	
	Topic 2 : Mineral difficient anemia.	
	Topic 3: Hodgkin's disease.	
	Topic 4: Favism.	
	Topic 5: Sport anemia.	
	Topic 6: Fanconi anemia.	
	Topic 7: Sideroblastic anemia.	
	Topic 8: Congenital dyserythropoietic	
	anemia.	
	Topic 9: Diamond- blackfan anemia.	
	Topic 10: Cystic fibrosis.	
	Topic 11: Fragile X syndrome.	
	Topic 12: Fabry disease.	
	Topic 13: Y chromosome infertility.	
	Topic 14: Huntington's disease.	

Topic 15: Marfan syndrome.
Topic 16: Alzheimir's disease.
Topic 17: Ovarian cancer.
Topic 18: Urethral cancer.

Evaluation of course content and final exam:

4- Facilities and teaching materials:

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

List any inadequacies:

Internet was not available in addition to the difficulty of lecture download for some students

5- Administrative constraints:

Limited access to well-equipped computers with good internet connection

6- Student evaluation of the course:

List any criticism	Response of course team	
•	•	
he allowed time for performing the	tudents should organize their time to perform their	
research is short.	duties at the exact time; also lectures were	
	committed with specific time.	
Unavailability of good internet for	This point will be taken in consideration.	
some students.		
E-learning should not replace	There is no intention to replace traditional learning	
traditional ones	by e-learning. Both go side by side to achieve our	
	target	
There should be more online	More interactive online learning will be planned for	
communication between students and	the next year.	
lectures/ Unavailability of direct	Some communication was available either through	
contact between students and lecturers	the official page of the Biochemistry department	
	or e-mails of staff members announced for	
	students in the orientation lectures. Few staff	
	announced their contact numbers as well.	

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

Unavailable official platform to upload lectures and to evaluate students through more confidential and easily accessed procedures

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
Measurements of course ILOs.	Completed	Completed	Course ILOs was measured through assessing the student's research.

Actions Recommended for Further	Start	Completion	Person Responsible
Improvement	Date	Date	
Increase the interaction between students and lecturers.	2020-2021	2020-2021	Course team
Official platform to upload materials, interact and evaluate students	2020-2021	2020-2021	Faculty and course team
Offering student an alternative way to lectures due to difficulties they face in downloading and saving videos	2020-2021	2020-2021	Faculty and course team
More assignments and activities to train students to mange time and prepare research project in proper time frame	2020-2021	2020-2021	Course team

Course Coordinator: Ass. Prof. Nahla Nabil Younis

Signature:

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

Signature:

Date: Course report was approved in department council on

COURSE REPORT

Bioassay 2

Fourth year – secondTerm 2019-2020

COURSE REPORT

Toxicology 2

Fourth year – secondTerm 2019-2020

Course Report of Toxicology II

Faculty: Pharmacy Department:

University: Zagazig

Pharmacology and toxicology

A- Basic Information: 1. Title and code: Toxicology II PT427
2. Programme(s) on which this course is given: Bachelor of Pharmacy
3. Year/ Level of programme: Fourth year (second semester)
4. Units/Credit hours:
Lectures 2 hrs Tutorial/Practical 2 hr Total 3 hrs
5. Names of lecturers contributing to the delivery of the course:
Prof.Dr/ Salah Gharieb
Dr / Noura AhmedDr/Nesreen Ibrahim
6. Course coordinator: Prof.Dr/ Salah Gharieb
7. External evaluator: Prof.Dr/ Alaa El-sissy (Tanta university)
B- Statistical Information:
No. of students attending the course:
No. of students completing the course: No. 980 99.9
Results:
Passed: No. 980 % 99.9 Failed: 1 % 0.1 No.

C- Professional Information:

1 - Course teaching:

Topics actually taught	No. of hours	Lecturer
Introduction to anti-microbial	1	- Prof.Dr/Salah
Antimicrobial therapy	3	Ghareib
Antiviral drugs	2	• Dr/Noura
Antifungal drugs	1	Ahmed
Anthelmintics	1	
Antiprotozoals	1	• Dr/Nesreen
Anticancer drugs	3	Ibrahim
Teratogenicity	1	_
Revision	1	
open discussion	1	

Topics taught as a	a percentage	of the content spec	eified:	
>90%	$\sqrt{}$	70-90%	<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(on line):	
Practical training/ laboratory:	V
Seminar/Workshop:	-
Class activity:	-
Case Study:	V

Other assignments/homework:



-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.Dr. Salah Garieb	Doxycycline, amikacin, ampicillin, amoxycilline, cefotaxime, ceftriaxone, cloxacilline,cefclor,Streptomycine, Sulfamethoxazole, Teicoplanin.
Dr. Noura ahmed	Efavirine, efavirenz, ritonavir, nystatin, acyclovir, maraviroc, foscarnet, amivudine, pyrantel , Ivermectin, Niclosamide.
Dr. Nesreen Ibrahim	Tamoxifin, rituximab, paclitaxel, docetaxel, iodoquionol, tacrolimus, erythropoetin, metronidazole, suramin, melarsoprol, quinidine, atovaquone.

List of proposed topic of research for each drug: - Drug class & sub class - Pharmacokinetics - Mechanism of action - Therapeutics, uses, indications - Containdications

- Toxic dose
- Therapeutic dose
- Side effects
- Drug-Drug interaction
- Trade names

Members of examination committee:

- Prof.Dr/ Salah Gharieb
- Dr / Noura Ahmed Hassan
- Dr/Nesreen Ibrahim
- 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
-students were satisfied	

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
Using additional learning and teaching methods such as group discussion to encourage students to interact effectively with lecturers	Has been performed		
Using simulated video and computer aided learning in practical sessions	Not completed		

Supply the labs with	Has been	
data show and black-	performed	
out curtains to		
facilitate teaching.		

2. Action Plan for Next Semester/Year				
Actions Recommended for	Intended Action Points	Start	Completion	Person
Further Improvement	(should be measurable)	Date	Date	Responsible
Development of search skills			2020-2021	- Course
through course assignments				team.
Organizing field visits to the			2020-2021	- Course
university hospitals				team.
Calling the library to save			2020-2021	- Course
"Textbook of Modern				team.
Toxicology" as an important				
reference book.				
Activating the faculty			2020-2021	- Course
council decision by adopting				team.
a new mechanism for oral				
exam and using balanced				
question cards				
Measurement of ILOS of			2020-2021	- Course
course				team.

Signature:		
Date:	/	/

COURSE REPORT

Medicinal Chemistry-4

Fourth year – secondTerm 2019-2020

Course Report of Medicinal Chemistry-4

Institution, 7000 in University
Institution: Zagazig University
Faculty: Pharmacy
A- Basic Information:
1. Program (s) on which the course is given: Bachelor of pharmacy
2. Major or Minor element of programs: Major
3. Code: MC423
4. Department offering the course: Medicinal Chemistry
5. Academic year Level: fourth year /Second term
Units/Credit hours:
Lectures 2 Practical 2 Total 3
5. Names of lecturers contributing to the delivery of the course:
- Prof.Dr./ Mohamed El-hussieny Elsadek
-Prof.Dr./ Mohamed Baraka
-prof.Dr./Osama Elsabbagh
-Assist.Prof.Dr./ Samy Megahed Ibrahim
-Assist.prof.Dr./Hend Kothayer
-Dr. samer Albarmawi
6. Course coordinator: prof.Dr./Osama Elsabbagh
7. External evaluator:
B- Statistical Information:
No. of students attending the course: No. 973 % 100
No. of students completing the course:
9/3 100
Results:
Passed: 973 No. 100 % Failed: 0 % 0 %

C- Professional Information:

1 - Course teaching:

2		
2	Prof.Dr./ Mohamed El-hussieny Elsadek	
2	prof.Dr./Osama Elsabbagh	
2		
2	Assist.Prof.Dr./ Samy Megahed Ibrahim	
2	& Assist.prof.Dr./Hend Kothayer	
2	Drof Dr. / Mohamad	
2	Prof.Dr./ Mohamed Baraka	
2	prof.Dr./Osama	
2	Elsabbagh & Dr. samer Albarmawi	
	2 2 2 2 2 2 2 2 2	

Topics taught as a p	ercentage	of the content	specified:		
>90%	\checkmark	70-90%		< 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:	V

Other assignments/homework:

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:

code	List of projects		
A	Medicinal Chemistry of vitamin A.		
В	Medicinal Chemistry of vitamin D.		
С	Medicinal Chemistry of vitamin E.		
D	Medicinal Chemistry of glucocorticoids with very little or no salt		

	retention.
E	Medicinal Chemistry of inhalation and intranasal glucocorticoids.
F	Medicinal Chemistry of different types of drug targets.
G	Medicinal Chemistry of sources of lead compounds in drug discovery.
Н	Medicinal Chemistry of binding forces in drug target interaction.
I	Medicinal Chemistry of drug design-optimization binding interactions.
J	Medicinal Chemistry of drug design-optimization pharmacokinetic properties.
K	Medicinal Chemistry of esterogenic agents.
L	Medicinal Chemistry of antiesterogenic agents.
M	Medicinal Chemistry of progestrons.
N	Medicinal Chemistry of androgenic agents.
O	Medicinal Chemistry for first generation antihistaminics.
P	Medicinal Chemistry for second and third generation antihistaminics.
Q	Medicinal Chemistry for H2-blockers antihistaminics.
R	Medicinal Chemistry for proton pump inhibitors.
S	Medicinal Chemistry for role of CYP-450 enzymes and drug metabolism.
T	Medicinal Chemistry for role of drug metabolism in drug discovery.
U	Medicinal Chemistry for effects of metabolic enzymes in drug-drug interactions.
V	Medicinal Chemistry aspects of drug metabolism and pharmacokinetics.
W	Medicinal Chemistry aspects of phase II metabolism.
X	Medicinal Chemistry of thiamine hydrochloride (vitamin B1).
Y	Medicinal Chemistry of vitamin B6.
Z	Medicinal Chemistry of folic acid.

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
Generally students were satisfied about the course	-
but they complained from assessment through	nsert preparation
projects preparation in the following point:	of projects as a
	tool for
	assessment
-No determination of list of references for each	-
project	ood planning for
	students projects
-Not enough time for projects preparation	regarding time,
	follow up,
	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):

Because of corona pandemic, external evaluation was unavailable

9- Course enhancement:

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

Action	State whether or not complete & give reasons for any non completion
Providing the students with electronic sources for the	Accomplished
courses	
Modifying the course specification for more	Accomplished
correlation between ILOs and course objectives	

Actions Recommended for Further Improvement	Start	Completion	Person
	Date	Date	Responsible
Development of search skills through course assignments	9/2020	6/ 2021	Course instructors

- Course Coordinator: Prof. Dr. Osama El-Sabbagh
- Head of department:Prof.Dr. Kamel A. Metwally

COURSE REPORT

Biotechnology

Fourth year – secondTerm 2019-2020

Course Report of Biotechnology

Faculty: Pharmacy

Department:

University: Zagazig

Microbiology & Immunology

A- Basic Informa	tion:	
2. Programi of pharmacy		MI424. Durse is given: Bachelor Fourth level (Second
4. Units/Cre	<u>edi</u> t hours:	
Lectures 2 hr	Tutorial/Practic	ral - Total 2 hrs
5. Names of	f lecturers contributin	g to the delivery of the
course:		
Prof. D	r. Fathy El-Sayed Serry	
Prof. D	r. Ashraf Kadry.	
6. Course co	ordinator: Prof. Dr. Fat	thy Serry.
7. External	evaluator: Prof. Dr/ A	Abdel Gawad Mohamed
Hashem.		
B- Statistical Info		
No. of studen	ts attending the	No. 983 % 100
course:		
No. of studen	ts completing the	No. 983 % 100
course:		300
Results:		
Passed: N	Io. 983 % 100 F No.	Failed: %
Grading of su	ccessful students:	
Excellent: N	Io Wery No.	y Good: %
Good: N	Io	983 0 100

C- Professional Information:

1 - Course teaching:

Topics actually taught	No. of hours	Lecturer
Traditional biotechnology and its applications	10	
Gene cloning and recombinant DNA technology	8	Prof. Dr. Fathy
 Production of human proteins Chemical synthesis of DNA DNA sequensing 	4	Serry
Applications of recombinant DNA technology	4	Prof Dr. Ashraf
Important Molecular biology techniques PCR DNA sequencing DNA Microarray	4	Kadry

Topics taught as a percentage of the content specified:						
>90%	V	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:	✓	
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:

Because of the recent outbreak of COVID-19 and the consequent suspension of the study since 15 March, remaining lectures and practical sessions were uploaded on telegram channel to be available to all students.

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

The assigned topics as projects included 30 topics as listed:

- 1. Recombinant DNA technology
- 2. Specialized (restricted) transduction as natural recombination
- 3. Types and roles and uses of Vectors (or cloning vehicle) used in recombinant DNA
- 4. Obtaining the target genes used in recombinant technology
- 5. Application of Genetic recombination (engineering) in medicine
- 6. Application of Genetic recombination (engineering) in Agriculture
- 7. Application of Genetic engineering in Bioremediation
- 8. **PCR Technology**
- 9. Application of PCR
- 10. Monoclonal antibody technology
- 11. Application of monoclonal antibodies in therapy
- 12. Stem cells and regenerative medicine
- 13. **DNA** sequencing
- 14. Application of DNA sequencing
- 15. Microarray assay
- 16. Application of Microarray assay
- 17. Historical review of biotechnology
- 18. Upstream processes in fermentation
- 19. **Types of bioreactors**
- 20. Industrial microbial strains
- 21. Fermentation products
- 22. Sources of antibiotics
- 23. **Biotransformation**
- 24. Manufacture of immunological products
- 25. Microorganisms as source of organic acids
- 26. Microorganisms as source of amino acids
- 27. Microorganisms as source of organic solvents
- 28. Fermentation of vitamins
- 29. Microbial enzymes in medicine and pharmacy
- 30. biopharmaceuticals

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
Generally students were satisfied about the course	- Insert preparation of projects as a
but they complained from assessment through	tool for assessment.
projects preparation in the following points :	
 no follow up from some staff member 	-Good planning for students projects
-absence of assigned reference list for each	regarding time, follow up,
project	determination of objectives,
-allowed time for projects	references and assessment criteria
preparation wasn't enough	

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 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	
Internet services are	Addressing faculty dean to	Students are		
inadequate	enhance internet services	satisfied		
Text books for the course	Calling faculty	Students are	Sustainment of	
in the library are not	administration to provide the	satisfied	action is required	
sufficient and difficult to	library with additional copies			
be borrowed from the	of textbooks.			
library				
	-Addressing the faculty Vice			
	Dean for student affairs to			
	make it easy for the students			
	to borrow books from the			
	library			

10- Action plan for academic year 2020-2021

Actions Recommended for Further	Start	Completion	Person
Improvement	Date	Date	Responsible
Revision of the course references	9/2020	9/2020	Course
			instructors
Apply electronic practical exam	2020-	2020-2021	Course
	2021		instructors
Use storyboard that, program for preparing	9/2020	6/2021	Course
different scenarios about good and bad			instructors
communication as an activity			
Apply blended learning strategy	9/2020	6/ 2021	Course
			instructors
Development of search skills through course	9/2020	6/ 2021	Course
assignments			instructors
Arrangements for platform creation	2021	2022	Faculty
			administration

Course Coordinator: Prof. Dr/ Fathy Serry

Head of Department: Prof. Dr. Nehal Elsayed Youssef

تم اعتماد ومناقشة تقرير المقررات من مجلس القسم بتاريخ 2020/9/23