



Program: Master in Pharmaceutical Sciences
(*Pharmacognosy*)



Program Report for Master of Pharmacognosy

Academic Year:
2020/2021

رئيس القسم
أ.د/ منى جودة زغلول

signature



A-Basic Information

1.	Faculty	Pharmacy
2.	Program Title:	Master in Pharmaceutical Sciences (<i>Pharmacognosy</i>)
3.	Program Type:	Single
4.	Department responsible:	<i>Pharmacognosy</i>
5.	Final award of the Program:	Master degree of Pharmaceutical Sciences (<i>Pharmacognosy</i>)
6.	External Evaluator(s):	Prof. Dr. Maged Abo Hashem
7.	Year of operation:	2020/2021

B-Statistical Information

Item	Number of students
Started the program	5
Withdrawn	0
Absence	0
Attending the exam	5
Pass	5
Failed	0
% Pass (with respect to those attending the examination)	100%

1. **Number of students started the program 2020/2021:** 5 students.

2. **Percentage of students starting the program this year (relative to the previous year):**

No. of students this year (2020/2021)	No. of students last year (2019/2020)	No. of students last year (2018/2019)
5	8	7



3. Number of students completing the program:

No. students completed the program 2020/2021	Starting year of these students
7	Alaa Emad Shams A: 2014/2015 Ghada Mahmoud Elsayed B: 2014/2015 Mennatallah Ebrahim Elshorbagy C: 2014/2015 May Salah Elhendawy D: 2014/2015 Walid Amir Sabry E: 2014/2015 Abdallah Mohamed Heikal F: Fall 2015 Nouran Hussein Raafat G: Fall 2016

4. Grades of students completed the program in the academic year 2020/2021:

	Course title	Grade	
		Student F	Student G
First Semester General courses:	<i>Instrumental Analysis (GCM-201)</i>	82 (B)	75 (B-)
	<i>Statistics and biostatistics (GCM-202)</i>	93 (A+)	81 (B)
	<i>Physical chemistry (GCM-203)</i>	82 (B)	86 (A)
	<i>Bioinformatics (GCM-204)</i>	84 (B+)	94 (A+)
	<i>Research Methodology & Ethics (GCM-205)</i>	89 (A)	92 (A+)
	<i>Scientific writing and Seminar (GCM-206)</i>	92 (A+)	96 (A+)
Second semester Special courses:	<i>Modern applications of chromatographic analyses for natural products. PGM-201</i>	89 (A)	90 (A+)
	<i>Application of advanced spectroscopic techniques PGM-202</i>	92 (A+)	87 (A)
	<i>Herbal remedies PGM-204</i>	81 (B)	84 (B+)
	<i>Complementary, Alternative medicines and Aromatherapy PGM-205</i>	93 (A+)	90 (A+)
General University requirements	TOEFL/IELTS	√	√
	Thesis Eligibility report	√	√
	One published manuscript	√	√

✚ Grades: no. and percentage of each grade: Non applicable



C. Professional information

Academic standards

- 1. Reference academic standards:** Academic reference standards (ARS) for graduate studies.
- 2. Achievement of program Intended Learning Outcomes (ILOs):**

Course Title	ILOs covered
<i>Instrumental Analysis (GCM-201)</i>	A1 B1, B5, B11 C1, C2 D1, D3, D4
<i>Statistics and biostatistics (GCM-202)</i>	A1 B1, B5, B11 C1 D1, D2, D3, D5
<i>Physical chemistry (GCM-203)</i>	A1 B1, B5, B11 C1, C2 D1, D3, D6
<i>Bioinformatics (GCM-204)</i>	A1 B1, B5, B11 C1 D1, D3
<i>Research Methodology & Ethics (GCM-205)</i>	A5 B1, B5, B11 C1, C2 D1, D3, D5, D8
<i>Scientific writing and Seminar (GCM-206)</i>	A7 B1, B5, B11 C1, C2 D1, D3, D5
<i>Modern applications of chromatographic analyses for natural products. PGM-201</i>	A3, A4, A6 B2, B4, B11 C1, C2, C4 D1, D3, D6
<i>Application of advanced spectroscopic techniques PGM-202</i>	A3, A6, A9 B3, B5, B7 C1, C4 D2, D3, D4
<i>Herbal remedies PGM-204</i>	A2, A4, A5, A8 B2, B6 C3, C4 D1, D2, D3
<i>Complementary, Alternative medicines and Aromatherapy PGM-205</i>	A2, A4, A5 B2, B6 C3, C4 D1, D2, D3
Thesis	A3, A4, A5, A6, A7, A9 B3, B4, B5, B6, B7, B8, B9, B10 C1, C2, C4, C5, C6, C7 D1, D2, D3, D4, D5, D6, D7, D8



3. Assessment methods:

Assessment Method	Item assessed	ILOs assessed
Written Assessment (written exam, Thesis writing)	1- Courses General 8 Credit Hours Special 8 (6+2) Cr. Hours	A1,A5, B1, B5, B11,C1, C2,C3
Oral Assessment (Oral exam,)		A7, B1, C4, D8
Activity		
Seminars	2- Thesis 30 Cr Hours	A7, B1, C4, D8
Supervisors follow up reports		
Practical Assessment (practical work of thesis)		A5, B5, C4, D1, D2, D3, D4, D5, D6, D7, D8
One published manuscript		
Oral presentation of thesis.		A7, B1, C4, D8
Pass	3- General University Requirements: including: a- TOEFL / IELTS b- Computer course	

4. Learning resources:

Adequacy of the number and specialty of the faculty members to the requirements of the program:

-Number of department staff: 27

-Number of master students: 21

-Students/ staff ratio: 1:1.3

•**Regarding teaching general courses:** staffs from different departments are participating in courses delivery

•**Regarding teaching of special courses & thesis supervision:** Pharmacognosy staffs are responsible for courses delivery

•**Adequacy of facilities for thesis completion:**

-research laboratories in the department supported with different instruments in addition to central laboratory in the faculty.



Resources are available for the students such as:

- **Books: Text books as**

*"Introduction to Spectroscopy: A Guide For Students of Organic Chemistry",
"Spectrometric Identification of Organic Compounds ", "Fundamentals of Analytical
Chemistry", " Braithwaite and F.J. Smith "Chromatographic Methods" Fifth edition, "
Dewick, P. M. Medicinal Natural Products, A biosynthetic approach. 2002"*

- **References:** Scientific papers taken from international journals in the field of pharmacognosy, chemistry and structure elucidation of natural products.

Others: web sites:

- www.biomed central.com
- www.science direct.com
- www. medscape.com.
- www.Pubmed.com

5. The basis of formation of committees' examiners:

For courses and seminars: Teaching members and the head of department.

For thesis: The examiner committee is composed of:

- The principal supervisor with or without one supervisor from the co-supervision committee plus two evaluators at least one from outside the faculty.

6. System of external examiners: Available Not available

Department response to student and external evaluation system:

Department staff members usually respond to the interests of postgraduate students if they prefer to go deep in specific fields.

7. Proposals for program development

a- Program stucture



- **Program duration:** At least 2 years from the date of enrollment or 18 months from the date of registration of the master thesis.
- **Program level:** Graduate
- **Structure of program hours:**

	Code	Course Title	Lecture	Total Credit Hours
Semester 1	GCM-201	Instrumental Analysis	2	2
	GCM-202	Biostatistics	2	2
	GCM-203	Physical Chemistry	1	1
	GCM-204	Bioinformatics	1	1
	GCM-205	Research Methodology & Ethics	1	1
	GCM-206	Scientific writing and Seminar	1	1
Semester 2	PGM-201	Modern applications of chromatographic analyses for natural products.	2	2
	PGM-202	Application of advanced spectroscopic techniques	2	2
	PGM-204	Herbal remedies	2	2
		مقرر واحد اختياري من المقررات التالية Elective		
	PGM-203	Bench-top Biological Assay.	2	2
	PGM-205	Complementary, Alternative medicines and Aromatherapy	2	2
Total (courses)			16	16
		Thesis	30	30
Total			46	46

b. Distribution of program courses:

	Course title	Credit hours	Degree			
			Written	Oral	Total	Exam time
Semester 1	Instrumental Analysis	2	80	20	100	2
	Biostatistics	2	80	20	100	2
	Physical Chemistry	1	80	20	100	2
	Bioinformatics	1	80	20	100	2
	Research Methodology & Ethics	1	80	20	100	2



	Scientific writing and Seminar	1	80	20	100	2
Semester 2	Modern applications of chromatographic analyses for natural products.	2	90	10	100	2
	Application of advanced spectroscopic techniques	2	90	10	100	2
	Herbal remedies	2	90	10	100	2
	Complementary, Alternative medicines and Aromatherapy	2	90	10	100	2

c. Completed Thesis details

Title	Name of candidate	Supervised by	Date of master degree
Biotechnological studies on the production of tropane alkaloids from <i>Atropa belladonna</i> L.	Alaa Emad Shams	Prof.Dr. Souzan M. Ibrahim. Prof. Dr. Kamelia Abou El-seoud. Dr. Ahmed I. Abd El-Maksoud	02/ 02/ 2021
Biologically active compounds of the genus <i>Paralymanalia</i> and <i>Vallozia</i> <i>Nagra</i>	Ghada Mahmoud Elsayed	Dr. Mohammed Farid Ibrahim Mohammed Lahlob Dr. Ashraf Taha Khalil (Principal Supervisor)	13/ 06/ 2021
Rosemary : A potential natural source for diverse bioactive compounds	Mennatallah Ebrahim Elshorbagy	Prof. Dr. Mohamed Farid Ibrahim Lahloub (main supervisor) Dr. Hani Nashaat Baraka Dr. Marwa Elsbaey Ali	24/ 09/ 2020
Chemical and biological study of <i>Cuscuta campstris</i> Yunck	May Salah Elhendawy	Prof. Dr. Mohamed Amer (main supervisor) Prof. Dr. Mohamed Farid Ibrahim Lahloub Dr. Zein Eabedeem Naem	27/ 06/ 2021
Phytochemical investigation of <i>Polyalthia longifolia</i> , Annonaceae	Walid Amir Sabry	Prof. Dr. Saleh Hassan Elsharkawy Prof. Dr. Ashraf Taha Khalil (main supervisor) Dr. Mahmoud Fahmy Elsebai	07/ 12/ 2020



Investigation of Bioactive Compounds from Wild Plants Belonging to Family Lamiaceae .	Abdallah Mohamed Heikal	Prof. Dr. Ahmed Abu EL-Ghait Ahmed Gohar Prof. Dr. Madiha Amin Hassan Tawfek (main supervisor) Dr. Mona Farouk M. M. El-Neketi	23/ 02/ 2021
Phytochemical and biological study of <i>Lactuca Serriola</i>	Nouran Hussein Raafat	Dr. Ahmed Fouad Ahmed Halim Dr. Hassan-Elrady Ali Saad (Principal Supervisor) Dr. / Fatima Mohammed AbdulRahman AbdulBar	03/ 08/ 2021

d. Course, deletions, additions and modifications

*More advanced techniques in chromatographic and spectroscopic analysis will be added to the course.

e. Staff development requirements:

- More advanced text books are needed.
- Improvement of IT facilities.

8. Action plan



Mansoura University
Faculty of Pharmacy
Quality Assurance Unit
Master Program Report
2020/2021
Postgraduate Studies



The following action plan will be acted upon throughout year (2021/2022)

Action	Completion date	Responsible party
Updating the course according to the most up-to-date scientific research.	September 2022	All members of the staff team.

Program coordinator / Head of the department:

Prof. Dr. Mona Zaghloul

Vice dean of graduate studies and research

Prof. Dr. Khaled B. Selim



Department of : Pharmacognosy

Program: PhD in Pharmaceutical Sciences
(specialization)

Course: Modern applications of chromatographic analyses for natural products
Code: (PGM-201)

Course Report

Academic year: 2020/2021
Second Semester

البرنامج

ماجستير العقاقير

تقرير مقرر

**Modern applications of chromatographic
analyses for natural products**

رئيس القسم

أ.د. منى جودة زغلول

منسق المقرر

أ.د. احمد محمد زغلول



University: Mansoura

Faculty: pharmacy

Department: Pharmacognosy

A. Basic Information

Course Title and code:	Modern applications of chromatographic analyses for natural products (PGM-201)
Program on which this course is given:	Master in pharmaceutical science (pharmacognosy)
Total Credit hours:	2
Lectures: 2	Tutorial/Practical: 0
Academic Level	Postgraduate – master degree
Academic year	2020/2021 - second semester
Name of lecturers contributed to the delivery of this course	

1.

Name of lecturers contributed to the delivery of this course	1.Prof. Dr. Ahmed Mohamed Zaghlol 2. Dr. Kadria F.Ahmed 3. Dr.Mona Faroul EL-Neketi
Course co-coordinator:	Prof. dr. Ahmed Mohamed Khalel Zaghlol
External evaluator:	Prof. Dr. Hany N. Baraka
Date of Department Council Approval	15/8/2021
Date of Faculty Council Approval	25/8/2021

B. Statistical Information:

No. of students attending the course : 3					
No. of students completing the course: 3					
Exam Results					
Passed No.: 3		percentage: 100%			
Failed No.: 0		percentage: 0%			
Grading of successful students (%) :					
A+	33.33	A		A-	
B+		B		B-	33.33
C+		C	33.33	C-	
D+		D		D-	



C. Professional Information:

1. Course teaching:

No.	Topics actually taught
1.	Introduction to chromatography, Chromatographic terms and Classification of chromatography
2.	Column Chromatography
3.	Bonded phase, Diol, and Reversed Phase
4.	Ion exchange chromatography and Size exclusion chromatography
5.	Separation techniques and quantitative analysis using TLC
6.	Separation techniques using paper chromatography (PC)
7.	Gas Chromatography (GC)
8.	High Performance Liquid Chromatography (HPLC)

Topics taught as a percentage of the content specified:

√ > 90 %	70 - 90 %	< 70 %
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Lecturers commitment of the course content:

√ > 90 %	70 - 90 %	< 70 %
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Coverage of exam topics to course content:

√ > 90 %	70 - 90 %	< 70 %
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2. Used teaching and Learning Methods:

Lectures:	+
Practical Training/ Laboratory:	-
Seminar / Work shop:	+
Class Activity:	-
Case Study:	-
Other assignments / home work:	+

3. Student Assessment:

a. Method of Assessment	Percentage of total
Written examination	90%



Oral examination	10 %
Practical / laboratory work	-
Semester Work	-

b. Members of examination committee:

1. Prof. Dr. Ahmed Zaghloul
2. Assistant Prof. Dr. Kadria Fawzia.
3. Assistant Prof. Dr. Mona Farouk El-Neketi

c. Role of external evaluator (If any):

1. Revision of course contents, and suggest new topics.
2. Revision of teaching and learning strategy.
3. Revision of course notes and suggest enhancement plan
4. Revision of Exam and related assignments

4. Facilities and Teaching Materials

Totally adequate	√
Adequate to some extent	
Inadequate	
List any inadequacies:	

5. Administrative constraints

List any difficulties encountered: non

6. Student evaluation of the course:

List any criticisms and response of course team

criticisms	response of course team
-	

7. Comments from external evaluator(s) (if exists) and response of course team:

Comment	Response
The method of assessment should be modified to enable adding semester work marks	Vice dean for post graduate studies will consider this comment in bylaw modifications



8. Course enhancement suggestions:

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

Action	Completed	Not completed	Why not completed?
Upgrade course note and Upgrading teaching strategy to include part as self-learning	√		

9. Action plan for academic year 2021 - 2022:

Action Required	Person responsible	Completion Date
Upgrading teaching strategy to include part as self-learning	Teaching committee	Every year
Update the course content	Teaching committee	next year
The method of assessment should be modified to enable adding semester work marks	Vice dean for post graduate studies	2 year for bylaw modifications

	Name	Signature
Course Coordinator	Ahmed Mohamed Khalel Zaghlol	
Head of Department	Mona Goudah Zaghloul	



Department of :Pharmacognosy

Program: Master degree in Pharmaceutical Sciences
(Pharmacognosy)

Course: Biological Assays
Code: (PGM-203)

Course Report

Academic year: 2020/2021
Second Semester

البرنامج

ماجستير

تقرير عن مقرر

الاختبارات البيولوجية

رئيس القسم

أ.د. منى زغلول

منسق المقرر

أ.د. فريد عبدالرحيم بدرية



University: Mansoura University

Faculty: Pharmacy

Department: Pharmacognosy

A. Basic Information

Course Title and code:	Biological Assays (PGM 203)
Program on which this course is given:	Master program
Total Credit hours:	
Lectures:	Tutorial/Practical:
Academic Level	Postgraduate
Academic year	2020/2021 - Second Semester
Name of lecturers contributed to the delivery of this course	1. Prof. Dr. Farid A. Badria 2. Dr. Sara A. Abouzeid
Course co-coordinator:	Dr. Sara A. Abouzeid
External evaluator:	not Available
Date of Department Council Approval	مجلس قسم شهر 4 او مجلس قسم شهر 7
Date of Faculty Council Approval	

B. Statistical Information:

No. of students attending the course : 3					
No. of students completing the course: 3					
Exam Results					
Passed No.:3		percentage: 100%			
Failed No.		percentage: 0%			
Grading of successful students (%) :					
A+	-	A	-	A-	-
B+	-	B	-	B-	33.33
C+	-	C	66.67	C-	-
D+	-	D	-	D-	-



C. Professional Information:

1. Course teaching:

No.	Topics actually taught
A. Biological Assays	
1. Bioassay Techniques for Drug Development By Atta-Ur-Rahman	
2. Examples of Farid Badria's and FAB-Lab (Liver Research Lab) Publications and Drug Discovery:	
i. How to Design A biological Assays and Biological Models:	
ii. Designing a biological assays and Establishing a model for testing natural Products:	
iii. Antimutagens, , Immune-Modulatory and Cancer, Schistosomiasis, Clinical Trials, Histochemical Localization:, Enzymes Inhibitors, Antiviral, Click Chemistry, Green Chemistry, Hepatoprotective and Liver fibrosis, Iron Chelation	
B. Modulation of Secondary Metabolites in Medicinal Plants	
1. Thoughts and the criteria for selecting plant material for drug development	
2. Elicitation, a new tool for plant chemodiversity and phytochemical drug discovery	
3. The modern chemical screening techniques for plant extracts	
4. Phytoalexin-enriched functional foods	

Topics taught as a percentage of the content specified:

√ > 90 %	70 - 90 %	< 70 %
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Lecturers commitment of the course content:

√ > 90 %	70 - 90 %	< 70 %
----------	-----------	--------

Coverage of exam topics to course content:

√ > 90 %	70 - 90 %	< 70 %
----------	-----------	--------

2. Used teaching and Learning Methods:

Lectures:	+
Practical Training/ Laboratory:	-
Seminar / Work shop:	-
Class Activity:	-
Case Study:	-
Other assignments / home work:	-



3. Student Assessment:

a. Method of Assessment	Percentage of total
Written examination	90%
Oral examination	10%
Practical / laboratory work	--
Semester Work	--

b. Members of examination committee:

1. Prof. Dr. Farid A. Badria
2. Dr. Sara A. Abouzeid

c. Role of external evaluator (If any):

Please make paraphrasing to the following sentences, or suggest new one

1. Revision of course contents, and suggest new topics.
2. Revision of teaching and learning strategy.
3. Revision of course notes and suggest enhancement plan
4. Revision of Exam and related assignments

4. Facilities and Teaching Materials

Totally adequate	√
Adequate to some extent	
Inadequate	
List any inadequacies:	

5. Administrative constraints

List any difficulties encountered: -----

6. Student evaluation of the course:

List any criticisms and response of course team

criticisms	response of course team
-----	-----



7. Comments from external evaluator(s) (if exists) and response of course team:

Comment	Response
-----	-----

8. Course enhancement suggestions:

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

Action	Completed	Not completed	Why not completed?
Ex: Upgrade course note Or Upgrading teaching strategy in practical sessions from drawing and illustration to presentations	√		

9. Action plan for academic year 2021 - 2022:

Action Required	Person responsible	Completion Date
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	Name	Signature
Course Coordinator	Prof. Dr. Farid A. Badria	
Head of Department	Mona Goudah Mohamed Zaghlol	