M.Pharm. Sci. Degree in Medicinal Chemistry

Program Report

(2018 – 2019)

M.Pharm. Sci. Degree in
Medicinal Chemistry

- **Basic information:**

1- Program title: M.Pharm. Sci. Degree in **Medicinal Chemistry**

2- Program type: single

3- Faculty/ University: Faculty of Pharmacy, Zagazig University

4- Department: Medicinal Chemistry

5- Program duration: 3-5 years

6- Coordinator: Prof. Dr. Sayed Lashin

7- External Evaluator: Prof.Dr.Samir El-Moghazy

8- Internal Evaluator: Prof.Dr.Mohammed El-sadek

9- Year of operation: 2018-2019

B- Statistics:

- **No. of all students in the program (2018-2019) :** 3
- **Percentage of students admitting the program this year (relative to the previous year)**

No. of students in	(2018-2019)	(2017-2018)
Premaster	1	1
Master	1	1

- **No. of students completing the program and as a percentage of those who in the program:**

No. admitting the program	No. of students completed the program this year	Percentage
3	3	100%

data of students completed the program 2018-2019

No.	Student	Date of admission	Date of completion	duration
1	Nariman Mohammed Tawfeek	14-5-2012	2-2-2019	6 years & 7 months
2	Asmaa Alaa El-din Sakr	11-1-2016	5-5-2019	3 years & 4 months
3	Amira Ali Abd El-Hamid	9-11-2015	23-5-2019	3 years & 6 months

- **Grades: no. and percentage of each grade:** Non applicable

C- Professional Information:

Academic Standards:

- **Achievement of Programme Intended learning Outcomes.**

İ-The following table presents the courses taught in the program and the covered ILOs`:

Course Code	Course Title	Credit hours	Program ILOs Covered
	General Courses:		
M109	Drug design	4	A1,A2,A3,B3,D2
M101	Advanced Instrumental Analysis & chromatography I	4	A1, A3, B1, D2
M106	Physical chemistry	4	A1,B1,B3,D2, D6

ME3	Elective A Good practice for analysis of drugs and quality control	4	A1, A5, A3, B1, B5, D2, D4
ME2	Elective B Drug Stability	4	A1, B6, B2, D2, D4
	Special Courses:		
Msp1	Computer Aided Drug Design	4	A1, A3, B3, D2, D4
Msp2	Validation Parameters in Drug Analysis	4	A1, A3, A5, B1, B6, D2, D4
Msp3	Advanced Medicinal Chemistry	4	A3, B2, D2, D4
	Thesis	30	A1, A2, A3, A4, A5, B1, B2, B3, B4, B5, B6, C1, C2, C3, C4, D1, D2, D3, D4, D5, D6, D7 and D8

2. Achievement of Program Aims:

a. The aim as well as the intended learning outcomes of the program have been evaluated regarding; students achievement using different assessment methods as described below indicated high achievement % and complete achievement of program ILOs.

3. Assessment Methods:

Method	item assessed
Written exam Oral exam Activity	**1- Courses:** General : 20 credit hours(Compulsory: 12, Elective: (2x4) 8) Special: (3courses x4 hours) 12 credit hours
Seminars Supervisors follow up reports Published article Thesis and oral presentation	**2- Thesis:** 30 hours
Pass	**3- General University Requirements:** 10 credit hours including: a- TOEFL (400 units) b- Computer course

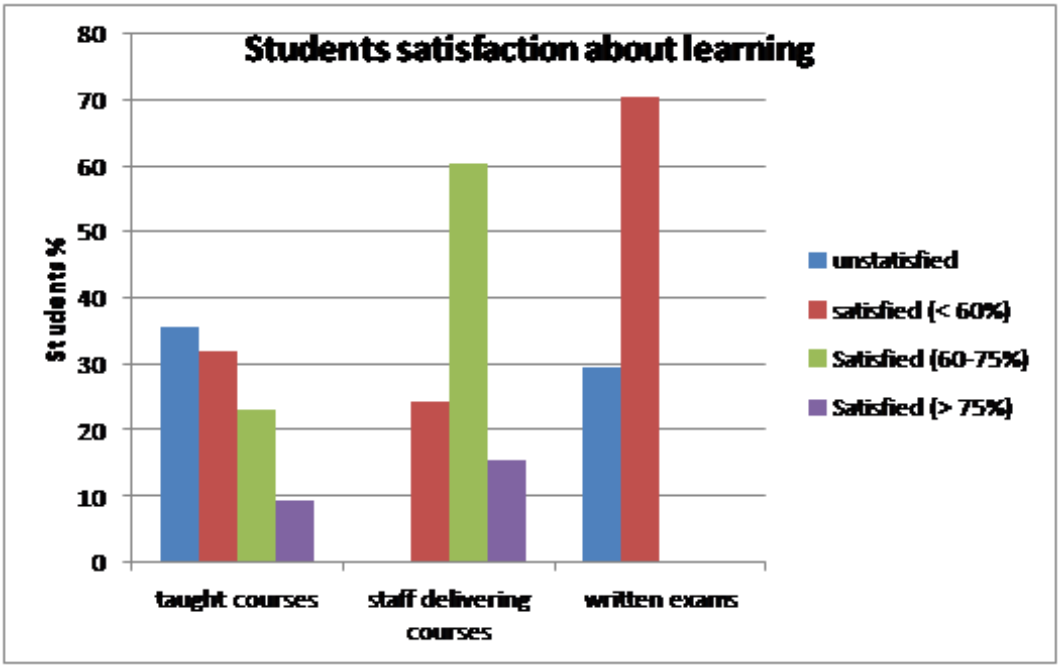
4. Student Achievement:

Course Code	Course Title	Student 1	Student 2	Student 3
1. General Courses:				
M109	Drug design	75(C+)	75 (C+)	82 (B)
M101	Advanced Instrumental Analysis & chromatography I	69(D+)	71 (C)	86 (B+)

M106	Physical chemistry	82(B)	91 (A)	98 (A+)
ME3	Elective A Good practice for analysis of drugs and quality control	71(C)	65 (D+)	89 (B+)
ME2	Elective B Drug Stability	98 (A+)	86 (B+)	86 (B+)
2-Special courses				
Msp1	Computer Aided Drug Design	82(B)	93 (A)	70 (C)
Msp2	Validation Parameters in Drug Analysis	68 (D+)	98 (A+)	85 (B+)
Msp3	Advanced Medicinal Chemistry	70 (C)	91 (A)	91 (A)
3-Others				
	English language	TOEFL	TOEFL	TOEFL
	Computer course	√	√	√
	Thesis eligibility report	√	√	√
	published articles	√	√	√

- **Quality of learning opportunities:**
- **Quality of Teaching and Learning:**

The quality of teaching and learning was evaluated through questionnaires distributed to all postgraduates students in the faculty. About 40- 45% of students were unsatisfied about the courses contents and their ability to develop intellectual skills. About 60% of the students were unsatisfied about the availability of the required references for the program. The overall questionnaire results are illustrated in the following figure:



b. Effectiveness of student support system:

- Academic advisor is available for student guidance during courses registration as well as solving problems encountered during their learning experience.

c. Availability and adequacy of program handbook.

The program handbook is available as a hard and soft copy demonstrating illegibility and registration requirements, list of courses, credit hours as well as teaching and assessment methods.

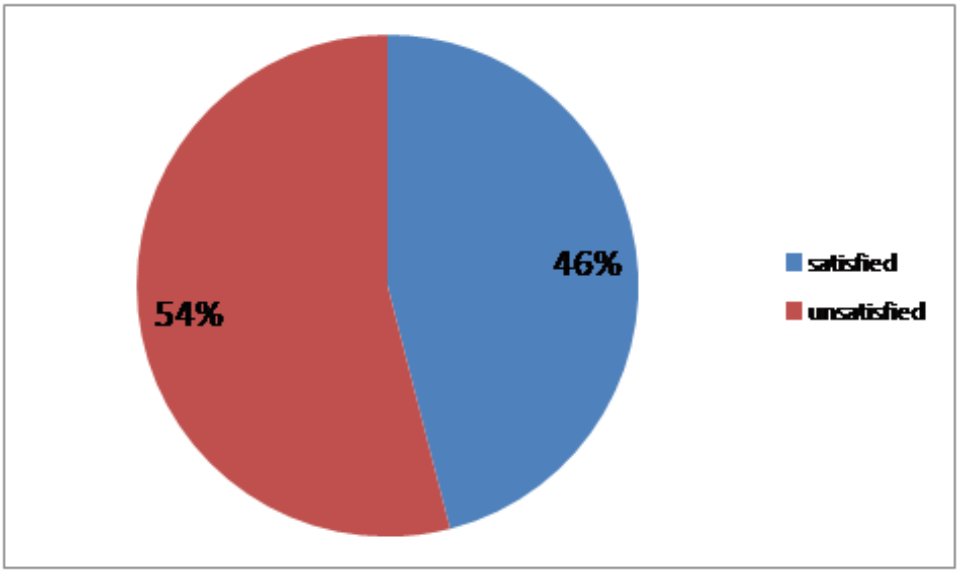
d. Learning Resources:

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

  - Number of department staff: 14
  - Number of master students: 3
  - Students/ staff ratio: 1: 4.6

- **Regarding teaching general courses**: staffs from the department and other departments in the faculty are participating in courses delivery
- **Regarding thesis supervision**: staff members
- ***Adequacy of facilities for thesis completion:***

- Students were unsatisfied about the available lab instruments, references and computer programs required for thesis preparation.



6. Quality Management.

a. Availability of regular evaluation and revision system for the program:

Program specification of the academic year 2017-2018 was reviewed by:

Internal and external reviewers as well as reviewers of NAQAAE and all their comments are reviewed and considered in program specification 2018-2019.

External reviewer comments: revision and rephrasing program ILOs to emphasize the program aim regrading developing the students' research abilities

Reviewers of NAQAAE: Benchmark of program ILOs with similar international master program

b. Effectiveness of the system:

- No administrative constraints present that may hinder achieving program ILOs.
- The faculty is seeking for increasing budget required for research to improve research facilities.

c-Effectiveness of Faculty and University Laws and Regulations for Progression and Completion.

The system effectively supports the students in a manner that fairly facilitates the progression and completion of the degree.

d. Faculty Response to Students and External Evaluations:

- Bench mark of the program ILOs was done with MSc Medicinal Chemistry provided by School of Pharmacy, University of Illinois at Chicago, USA.

8. Proposals for Program development:

a. Program structure: Refer to the attached program specification and postgraduates bylaws.

b. Courses, deletion, addition, modification:

Courses will be updated and new bylaws are in process after benchmark

c. Staff development: encourage staff members for conference and workshop attendance

9. Action plan for improvement:

Action	Person responsible	Completion date
Revision of program ILOs and courses then make required changes	• Program coordinator	2019-2020
Arrange at least one journal club per year	• Program coordinator	2019 - 2020
Improve research facilities	• Vice dean for postgraduate studies and research	2019-2020
Update course contents	• Program coordinator	2019-2020
Organize different workshops to build up students research abilities	• FLDP center • Faculty training unit	2019-2020

• Vice dean of postgraduate studies…….

• Program coordinator……