M. Pharm. Sci. Degree in Pharmacognosy

Program Report

(2018 – 2019)

M.Pharm. Sci. Degree in Pharmacognosy

A- Basic information:

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

2- Program type: Single

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

4- Department: Pharmacognosy

5- Program duration: 3-5 years

6- Coordinator: Assis. Prof. Maged M.M. Abo-Hashem

7- Internal evaluator: Prof. Dr. Ehsan Abo-Zeid

8- External Evaluator: Prof. Dr. Mona Gouda Zaghlool (Head of Pharmacognosy department – Faculty of Pharmacy – Mansoura University)

9- Year of operation: 2018-2019

B- Statistics:

1. **No. of students admitting the program (2014/2015):** 2
2. **Percentage of students admitting the program this year (relative to the previous year):**

No. of students this year (2018-2019)	No. of students last year (2017-2018)
3	3

3. **No. of students completing the program and as a percentage of those who started:**

No. admitting the program	No. of students entered the exam	No. of students completed the program this year	Percentage
2	2	2	100%

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

C- Professional Information:

Academic Standards:

1. Achievement of Programme Intended learning Outcomes.

i-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:		
M108	Advanced Taxonomy	4	A4, A8, A10, B1, D4.
M113	Natural Products Biotechnology	4	A5, A10, B1, B3, B7, D1, D6.
M107	Recent applications of plant tissue culture techniques	4	A5, A6, A10, B1, D1, D4
M101	Advanced Instrumental Analysis & chromatography I	4	A1, B1, D2
ME3	Elective A Good practice for analysis of drugs and quality control	4	A3, B1, B3, D2, D4
ME2	**Elective B:** Drug Stability	4	A2, B2, B5, D2, D4
	Special Courses:		
Gsp1	Advanced Chemistry of natural products	4	A1, A6, A10, B3, D1, D6.
Gsp2	Structure Determination of Natural Products	4	A1, A7, A10, B1, B3, D4.
Gsp3	Methods in natural products research	4	A4, A6, A7, A8, A10, B1, B3, D1 and D6.
	Thesis	30	A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, B1, B2, B3, B4,

			B5, C1, C2, C3, C4, D1, D2, D3, D4, D5, D6, D7, 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	**1- Courses:** General : 20 credit hours (Compulsory: 16, Elective: 4) Special: (3 courses x4 hours) 12 credit hours
Oral exam	
Activity	
Seminars	**2- Thesis:** 30 hours
Supervisors follow up reports	
One published article	
Thesis and oral presentation	
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 grades**	**Student 2 grades**
1. General Courses:			
M108	Advanced Taxonomy	86 (B+)	94 (A)
M113	Natural Products Biotechnology	78 (C+)	85 (B+)

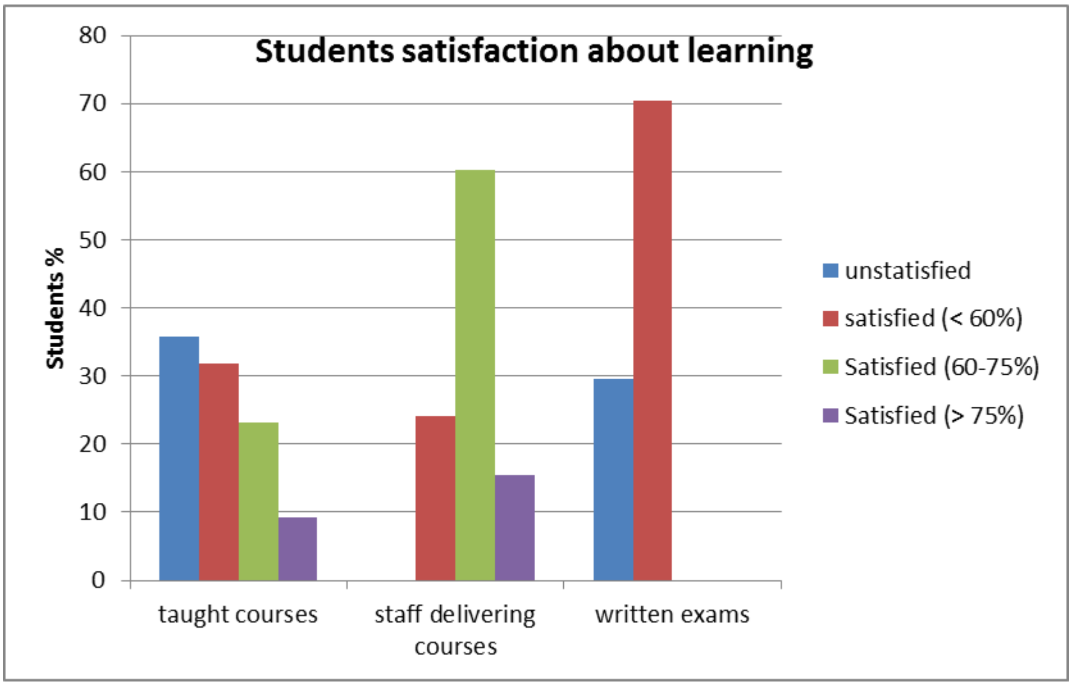
M107	Recent applications of plant tissue culture techniques	73 (C)	86 (B+)
M101	Advanced Instrumental Analysis & chromatography I	74 (C)	85 (B+)
ME3	Elective A Good practice for analysis of drugs and quality control	81 (B)	94 (A)
ME2	Elective B Drug Stability	91 (A)	97 (A)
2. Special courses:			
Gsp1	Advanced Chemistry of natural products	77 (C+)	93 (A)
Gsp2	Structure Determination of Natural Products	82 (B)	82 (B)
Gsp3	Methods in natural products research	83 (B)	76 (C+)
	English language	TOEFL	TOEFL
	Computer course	√	√
	Thesis eligibility report	√	√
	One published article	√	√

5. Quality of learning opportunities:

a. 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.

In fact, a 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:

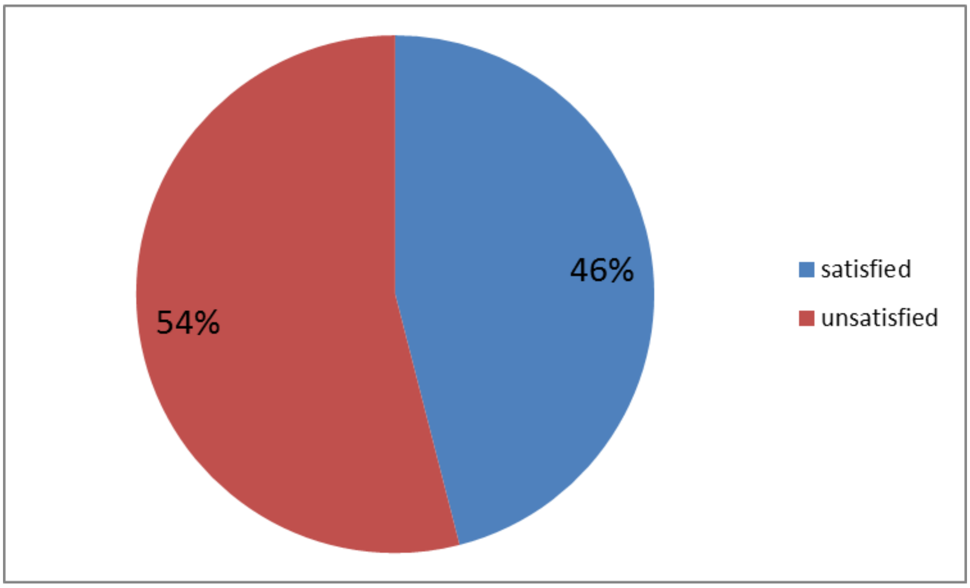
- ***Adequacy of the number and specialty of the faculty members to the requirements of the program:***

  - Number of department staff: 22
  - Number of master students: 3
  - Students/ staff ratio: 1:7.3

- 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:***

  - 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:

- Program courses were benchmarked with courses delivered by Department of Medicinal Chemistry and Pharmacognosy (MCP) in the College of Pharmacy, University of Illinois as well as those delivered by Chicago, USA University of science at Philadelphia, USA

8. Proposals for Program development:

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

b. Courses, deletion, addition, modification:

The following courses were proposed for the new bylaws:

Advanced Instrumental Analysis

Biostatistics

Research Methodology and Scientific Writing

Advanced Pharmacognosy

Structure Elucidation of Natural Products

Recent Application on Plant Tissue Culture

9. Action plan for improvement:

Action	Person responsible	Completion date
Revision of program ILOs and 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…………………………….