M.Pharm. Sci. Degree in Microbiology & Immunology

Program Report

(2018 – 2019)

M.Pharm. Sci. Degree in Microbiology & Immunology

A- Basic information:

1- Program title: M.Pharm. Sci. Degree in **Microbiology**& Immunology

2- Program type: Single

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

4- Department: Microbiology & Immunology

5- Program duration: 3-5 years

6- Coordinator: Prof./ Fathy Serry

7- External Evaluator: Prof. Tark El Bana

8- Internal Evaluator: Prof. Fathy Serry

9- Year of operation: 2018-2019

B- Statistics:

1. **No. of all students in the program (2018-2019 :** 8
2. **Percentage of students admitting the program this year (relative to the previous year)**

No. of students in	(2018-2019)	(2017-2018)
Premaster	5	2
Master	2	3

3. **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
8	3	37%

data of students completed the program 2018-2019

No.	Student	Date of admission	Date of completion	duration
1	Salwa Essmat	10-11-2014	10-2-2019	4 years & 3 months
2	Nour El-Kashef	10-11-2014	11-3-2019	4 years & 4 months
3	Amr Biomy	8-11-2010	5-5-2019	8 years & 6 months

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:		
M110	1- Molecular Biology	4	A1, A5, A7, B1, B3, D1, D2, D4, D6, D8
M112	2- Physiology	2	A4, B7, D1, D4
M111	3- Biostatistics	2	A4, B1, D1, D2
M102	4- Instrumental analysis	4	A4, A8, B6, D2, D6
ME4	5- Elective A Biotechnology	4	A1, A5, A7, B1, B3, D2, D4, D6
ME5 ME7	6- Elective B Applied Pharmacology Drug induced diseases	 4 4	 A4, B3, D2, D6 A4, B3, D1, D4
	Special Courses:		
Isp1	Advanced Microbial Biotechnology	4	A1, A5, A7, B1, D2, D4, D6, D8
Isp2	Advanced Pharmaceutical Microbiology	4	A2, A6, A7, A9, B1, B3 D1, D2, D4, D6, D8
Isp3	Clinical Microbiology	4	A3, A6, B1, D2, D4, D6, D8
	Thesis	30	A1, A2, A3, A4, A5,A6, A7, A8, A9, A10, B1, B2, B3, B4, B5, B6, B7, C1, C2, C3, C4, C5, 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 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:

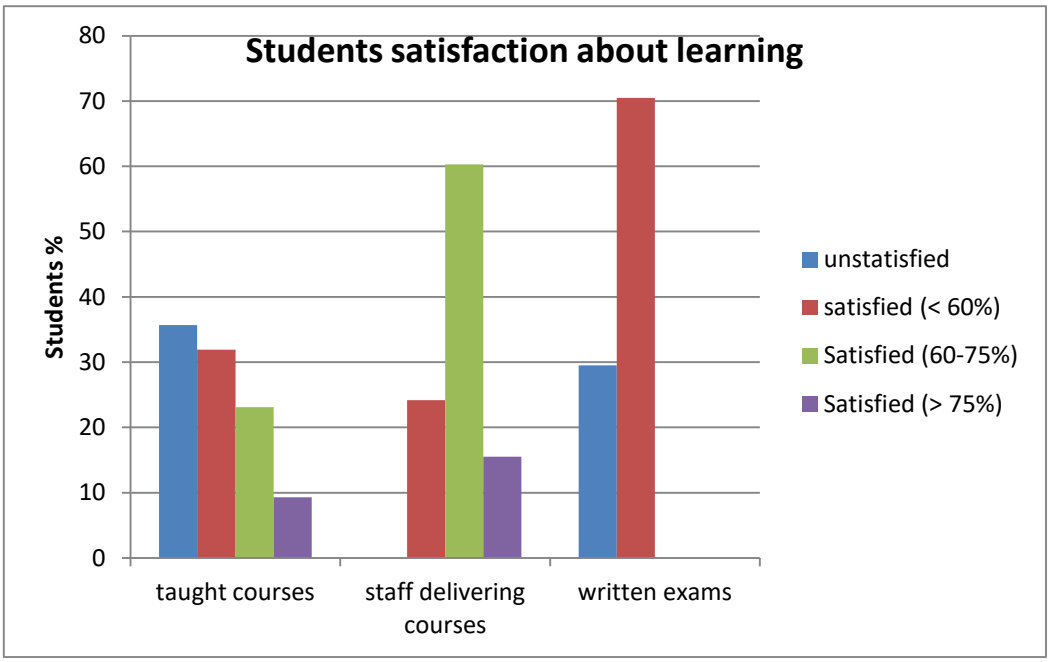
Course Code	Course Title	Student 1	Student 2	Student 3
1. General Courses:				
M112	Physiology	90 (A)	79 (C+)	79 (C+)
M111	Biostatistics	92 (A)	81 (B)	96 (A+)
ME7	Elective course 2 (Drug induced diseases)	86 (B+)	84 (B)	92 (A)
ME4	Elective course 1 (Biotechnology)	90 (A)	84 (B)	89 (B+)
M102	Instrumental analysis	86 (B+)	87 (B+)	62 (D)
M110	Molecular biology	82(B+)	82 (B)	79 (C+)

2-Special courses				
ISP1	Advanced microbial biotechnology	87 (B+)	86 (B+)	76 (C+)
ISP2	Advanced pharmaceutical microbiology	76 (C+)	78 (C+)	65 (D+)
ISP3	Clinical microbiology	96 (A+)	95 (A)	72 (C)
3-Others				
	English language	TOEFL	TOEFL	TOEFL
	Computer course	√	√	√
	Thesis eligibility report	√	√	√
	published articles	√	√	√

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.

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.

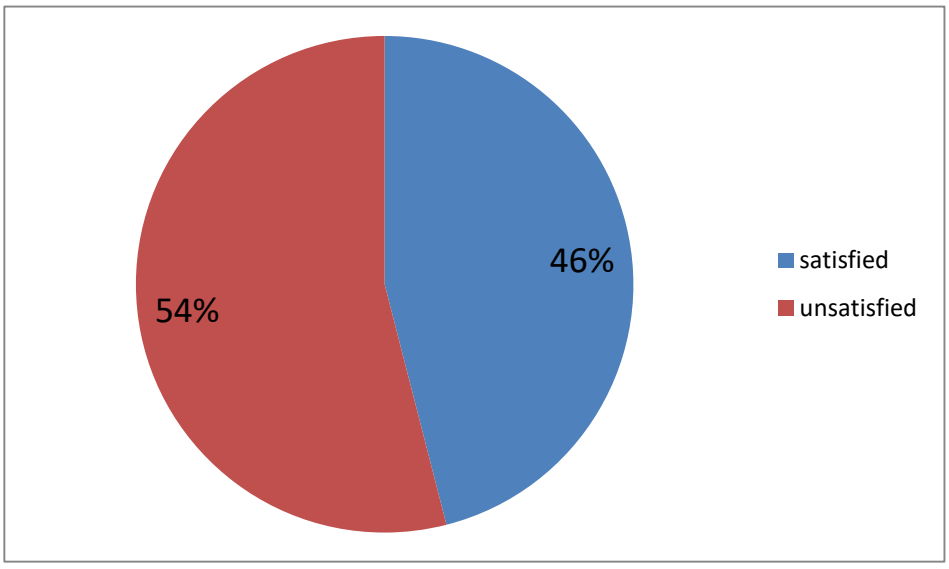
d. Learning Resources:

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

  - Number of department staff: 9
  - Number of master students: 8
  - Students/ staff ratio: 1: 0.9

- The specialty of Microbiology department is related to biology sciences.
- **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 Master program in microbiology delivered by School of medical microbiology , University of Forward Thinking Westminster, UK.

8. Proposals for Program development:

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

b. Courses, deletion, addition, modification: addition of two new courses (virology and immunology) based on reviewer comments and courses in benchmark university .

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……