



Diploma in clinical pharmacy

Program Report

(2018 – 2019)



Diploma in clinical pharmacy

Teaching Institution: Faculty of Pharmacy, Zagazig University,
Egypt

Awarding Institution: Zagazig University

Degree Award : Diploma in clinical pharmacy

Length and Mode : 1 year (30 CU)

Program Coordinators:

Prof. Hanan El Nahas (Vice dean for postgraduate affairs and scientific
research)

Prof. Salah Ghareeb (Diploma coordinator)

A- Basic Information:

1- **Program Title:** Diploma in clinical pharmacy

2- **Program Type:** single

3- **Departments:**

The program is under the supervision of vice dean for postgraduate affairs and scientific research.

4- **Co-coordinator:**

Prof. Hanan El Nahas (Vice dean for postgraduate affairs and scientific research)

Prof. Salah Ghareeb (Diploma coordinator)

5- External evaluator: Prof. Gamal El Maghrabi (Faculty of Pharmacy – Tanta University)

B- Statistics:

1. **No. of students admitting the program (2018/2019): 209**

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)
209	206

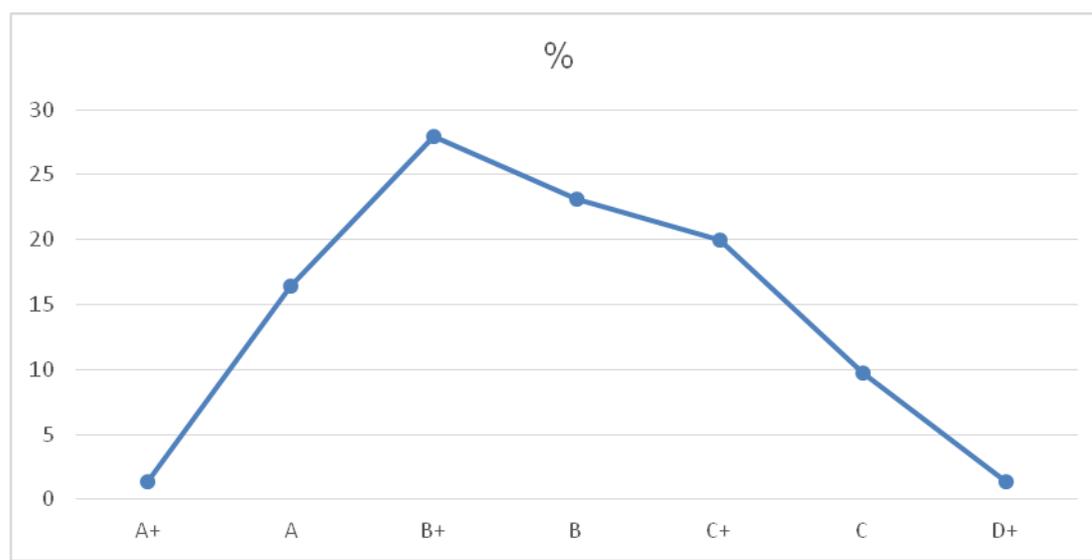
3. **No. of students completing the program and as a percentage of those who started:**

No. admitting the program	No. of students entered the exam	No. of students completed the program this year	Percentage
209 (2018-2019) +21 (2017-2018)	204 +21	225	97.8%

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

	Grade							Total
	A+	A	B+	B	C+	C	D+	
No	3	37	63	52	45	22	3	225
%	1.33	16.44	28	23.11	20	9.77	1.33	100

Figure presenting grades distribution



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
Mandatory Courses:			
D1001	Clinical Laboratory Tests	2	A3, B3, C3, C6, D2, D6, D7
D1002	Drug interactions	2	A4, B2, B6, C4, C6, C7, D5, D6
D1003	Advanced Pharmacotherapy-1	3	A1, A2, A3, B1, B2, C1, C2, C7, D4, D5, D6
D1004	Advanced Pharmacotherapy-2	3	A1, A2, A3, B1, B2, C1, C2, C7, D4, D5, D6
D1005	Advanced Pharmacotherapy-3	3	A1, A2, A3, B1, B2, C1, C2, C7, D4, D6, D7
D1006	Advanced Pharmacotherapy-4	3	A1, A2, A3, B1, B2, C1, C2, C7, D4, D5, D6
D1007	Nutrition & Anaemia	2	A1, A2, A3, B2, B3, B4, C2, D1, D5, D6, D7

D1008	Cardiovascular Evaluation	2	A3, B3, C3, D1, D6
D1009	Clinical Pharmacokinetics	2	A5, B2, B5, C3, D4, D5, D6
Elective courses/Selected topic:			
	Hospital microbiology	2	A7, B3, B4, C4, C6, D1, D6, D7
	Biostatistics	2	B5, D5, D6
	Hospital pharmacy	2	A6, B7, C4, C6, C7, D1, D3, D7
	Sterile solutions	2	A6, B5, B7, C6, D2, D6
	OTC	2	A1, A2, B1, C2, C7, D1, D6
	Selected topics	2	A1, A2, C1, D5, D6
	Project	2	B6, C5, D1, D2, D3, D4, D5, D6, D7

Strong points:

- Presence of graduation project that develops research skills in addition to problem solving, critical thinking, time management and team work abilities in the students
- Application of modern teaching methods such as self learning, case study, videos and others

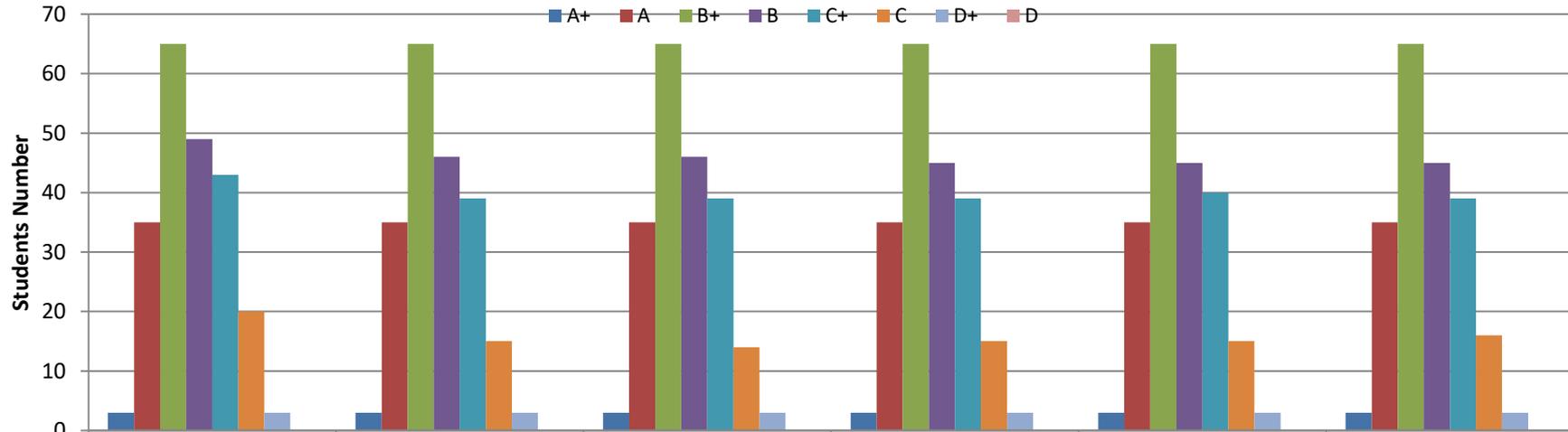
Weakness:

- Absence of formative assessment to follow up students' progress within the program

2. Achievement of Program Aims:

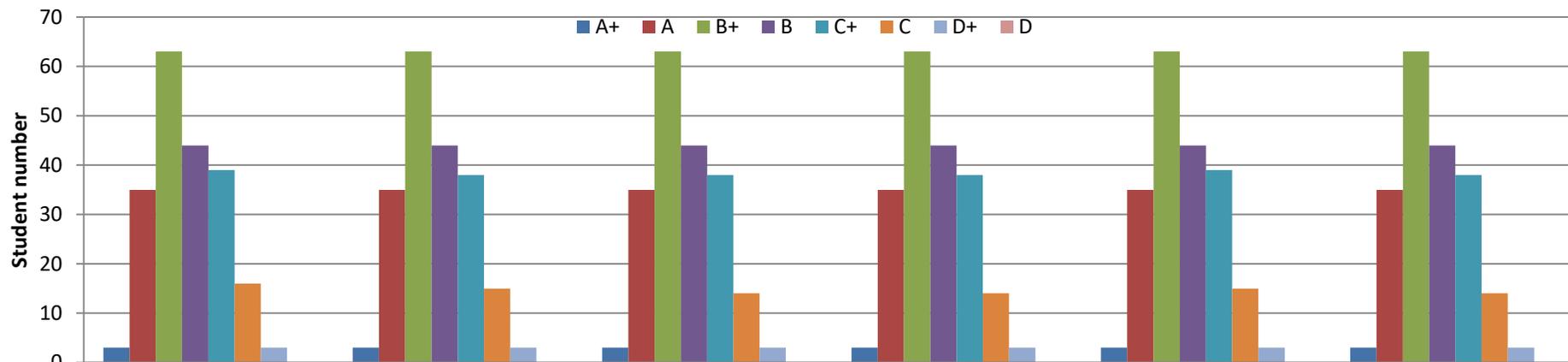
a. The aim as well as the intended learning outcomes of the program have been evaluated regarding; students achievement in different courses which indicated nearly similar distribution of grades and high achievement % in different courses reflecting good achievement of program ILOs as illustrated in the following figure:

Distribution of grades for first term courses



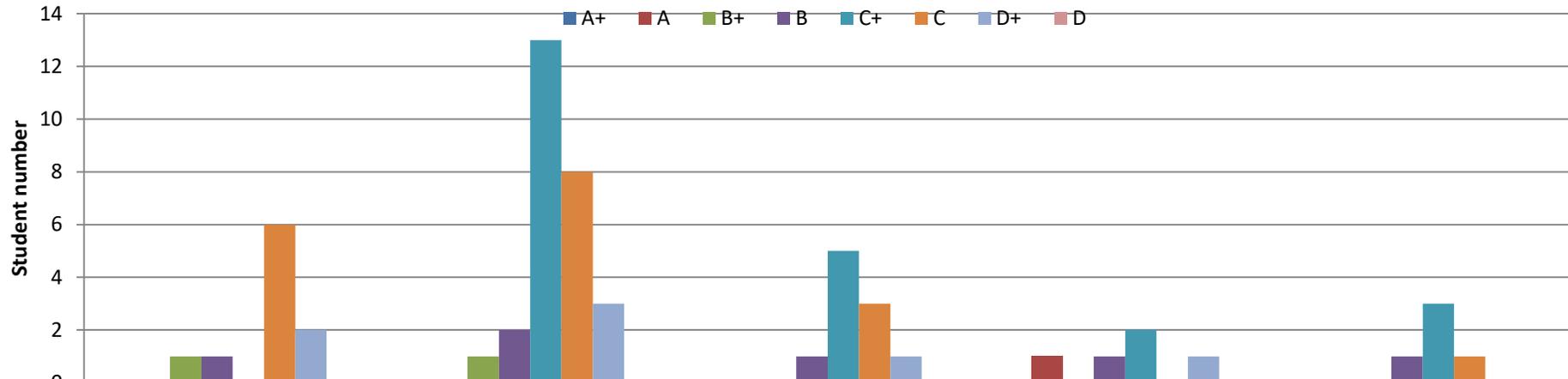
	Clinical Laboratory Tests	Advanced Pharmacotherapy-1	Advanced Pharmacotherapy-2	Cardiovascular Evaluation	Clinical Pharmacokinetics	Elective 1
A+	3	3	3	3	3	3
A	35	35	35	35	35	35
B+	65	65	65	65	65	65
B	49	46	46	45	45	45
C+	43	39	39	39	40	39
C	20	15	14	15	15	16
D+	3	3	3	3	3	3
D						

Distribution of grades for second term courses



	Nutrition & Anaemia	Drug interactions	Advanced Pharmacotherapy-3	Advanced Pharmacotherapy-4	Elective 2	Selected topics
A+	3	3	3	3	3	3
A	35	35	35	35	35	35
B+	63	63	63	63	63	63
B	44	44	44	44	44	44
C+	39	38	38	38	39	38
C	16	15	14	14	15	14
D+	3	3	3	3	3	3
D						

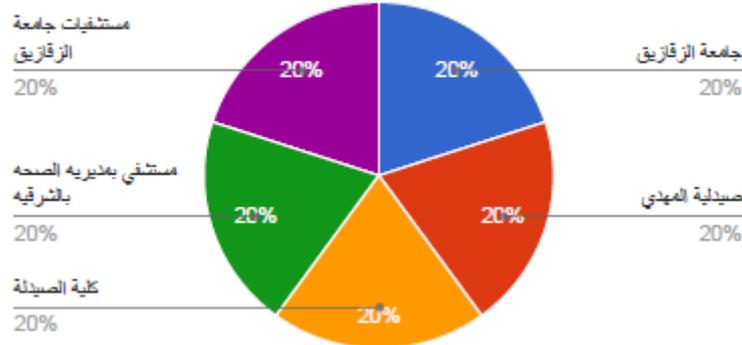
Distribution of grades in summer courses



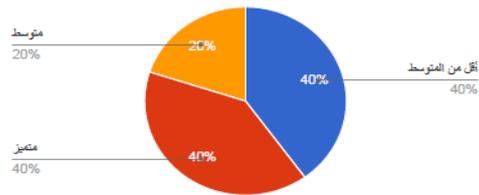
	Clinical Laboratory Tests	Nutrition & Anaemia	Cardiovascular Evaluation	Clinical Pharmacokinetics	Drug interactions
A+					
A				1	
B+	1	1			
B	1	2	1	1	1
C+		13	5	2	3
C	6	8	3		1
D+	2	3	1	1	
D					

b. Employer satisfaction about the program and knowledge and skills achieved by the employee (clinical pharmacy diploma graduates): 5 responses distributed as follows:

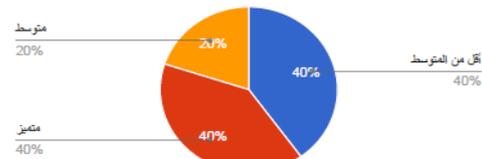
اسم الجهة:



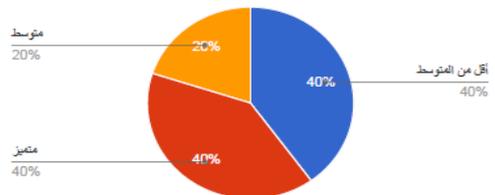
ما مدى رضاك عن مستوى أداء خريجي الكلية وفق العناصر التالية؟ [القدرة علي تصميم الخطط العلاجية و متابعة المرضى] NOT_FOUND



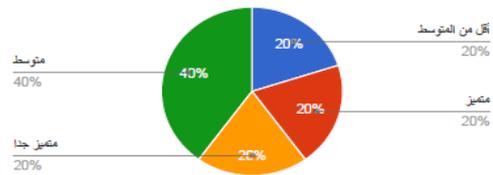
ما مدى رضاك عن مستوى أداء خريجي الكلية وفق العناصر التالية؟ [القدرة علي التعرف علي الأخطاء الدوائية و وضع استراتيجيات للتغلب عليها] NOT_FOUND



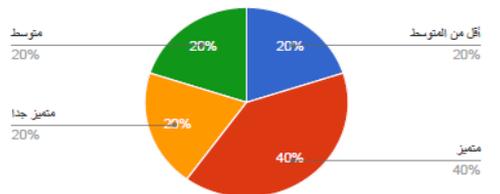
ما مدى رضاك عن مستوى أداء خريجي الكلية وفق العناصر التالية؟ [اختيار الدواء طبقا للقواعد الإرشادية (guidelines)] NOT_FOUND



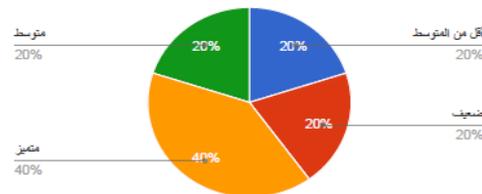
ما مدى رضاك عن مستوى أداء خريجي الكلية وفق العناصر التالية؟ [القدرة علي تحليل نتائج (lab values) متابعة المريض] NOT_FOUND



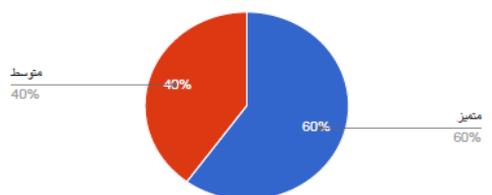
ما مدى رضاك عن مستوى أداء خريجي الكلية وفق العناصر التالية؟ [الاحتصال الفعال مع المرضى أو أعضاء الفريق الطبي] NOT_FOUND



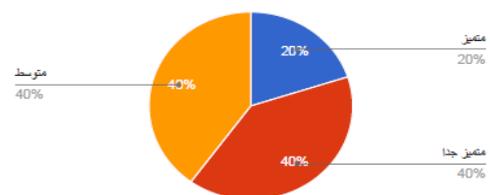
[ما مدى رضاك عن مستوى أداء خريجي الكلية وفق العناصر التالية؟ [كتابة التقارير أو البحوث] NOT_FOUND



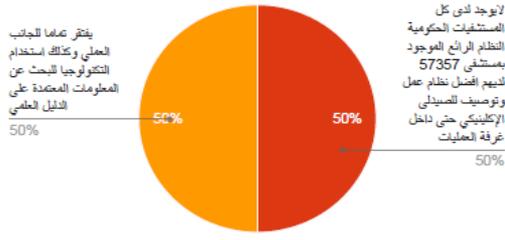
ما مدى رضاك عن مستوى أداء خريجي الكلية وفق العناصر التالية؟ [القدرة علي العمل في الفريق.] NOT_FOUND



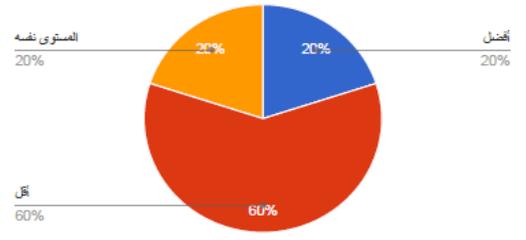
ما مدى رضاك عن مستوى أداء خريجي الكلية وفق العناصر التالية؟ [القدرة علي تطوير الذات و التظم المستمر] NOT_FOUND



(أوجه القصور لدى الخريج (إن وجدت



كيف ترى مستوى خريجي الكلية مقارنة بمستوى خريجي الجامعات الأخرى؟

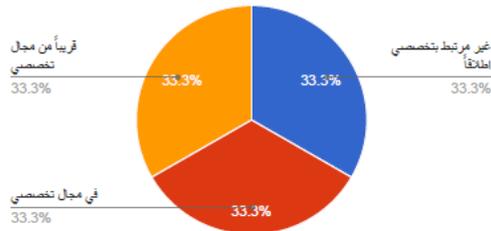


c. Evaluation of the program and learning environment by diploma graduates:

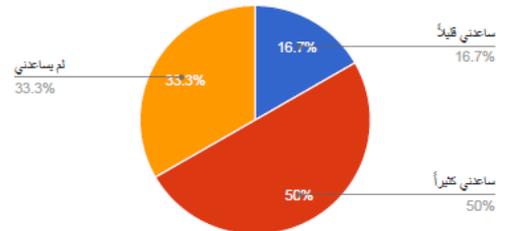
(12 responses)

The survey was designed to measure graduates satisfaction about three areas namely: overall quality of learning, adequacy of learning facilities and availability of support. Generally the graduates were satisfied about the program and learning environment.

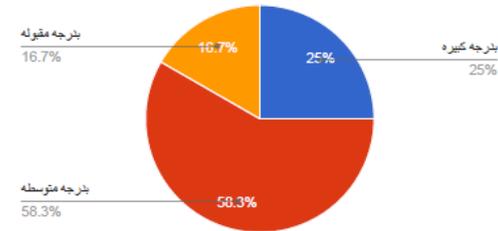
ما مدى ارتباط وظيفتك الحالية بتخصصك ؟



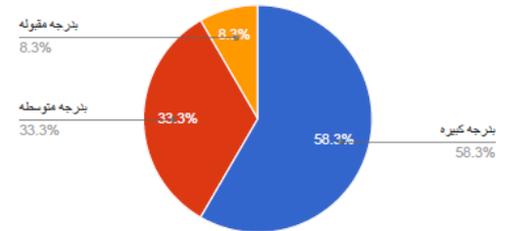
هل استفدت من دراستك بالبرنامج في إنجاز مهام وظيفتك ؟



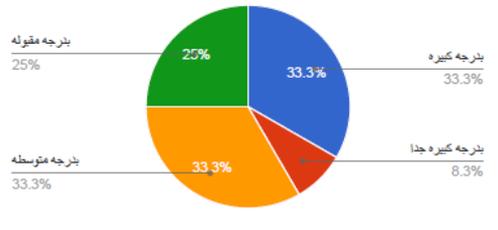
NOT_FOUND [المهارات المكتسبة] كتابة البحوث والتقارير



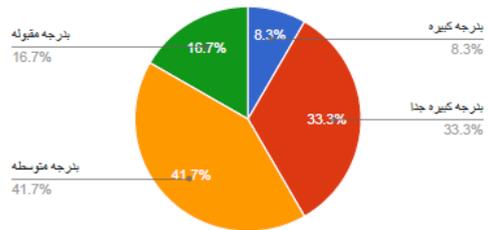
NOT_FOUND [المهارات المكتسبة] الإلقاء والتعبير عن الأفكار



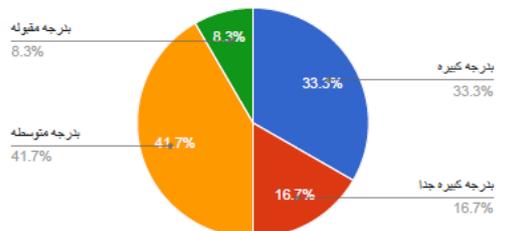
NOT_FOUND [المهارات المكتسبة] استخدام التقنية (حاسب آلي، شبكة المعلومات



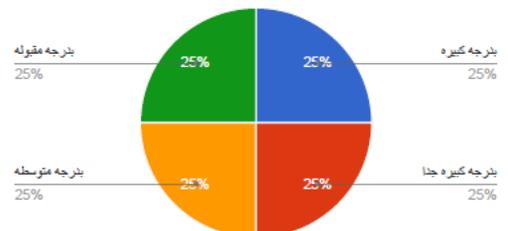
NOT_FOUND [المهارات المكتسبة] التفكير الناقد



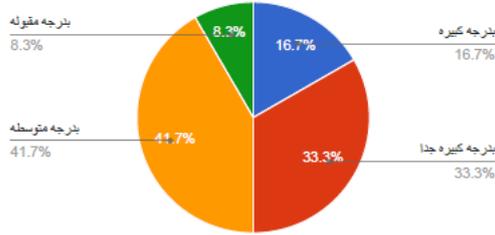
NOT_FOUND [المهارات المكتسبة] حل المشكلات



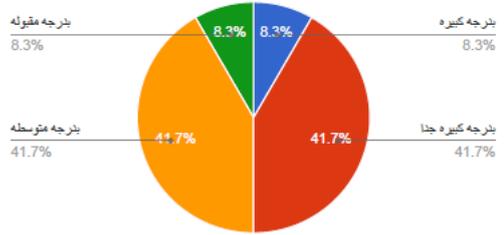
NOT_FOUND [المهارات المكتسبة] التعلم الذاتي



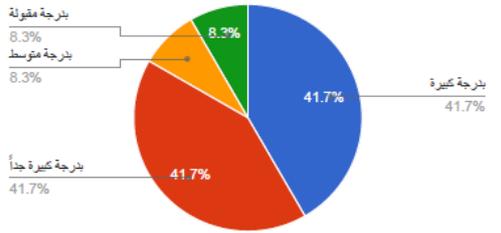
NOT_FOUND [المهارات المكتسبة] العمل الجماعي



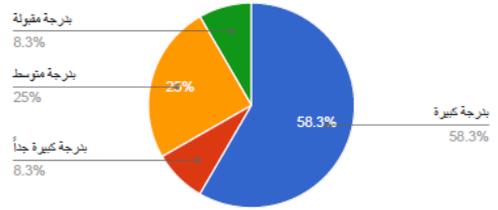
NOT_FOUND [المهارات المكتسبة] البحث عن المعلومات



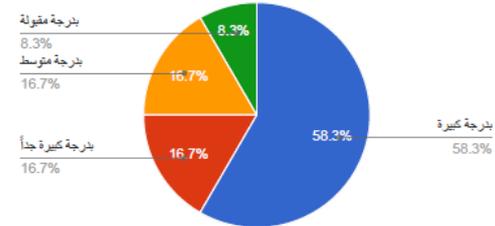
NOT_FOUND [البيئة التعليمية] التزام الأستاذ بالساعات المكتبية



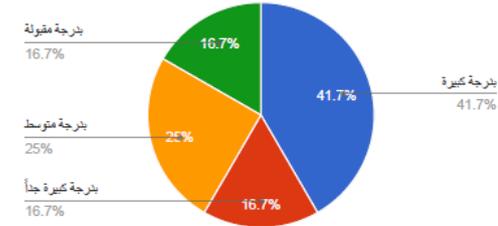
NOT_FOUND [البيئة التعليمية] استعداد الأستاذ لمساعدة الطالب بصورة دائمة



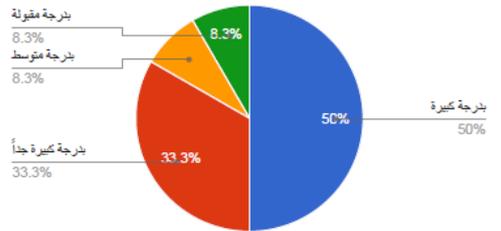
NOT_FOUND [البيئة التعليمية] حرص الأستاذ على تطور مهارات الطالب



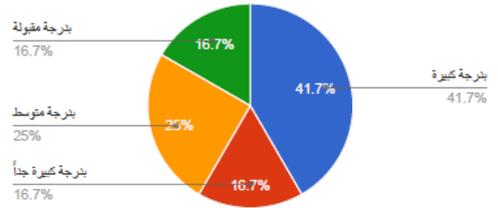
NOT_FOUND [البيئة التعليمية] استخدام التقنية في شرح المادة العلمية



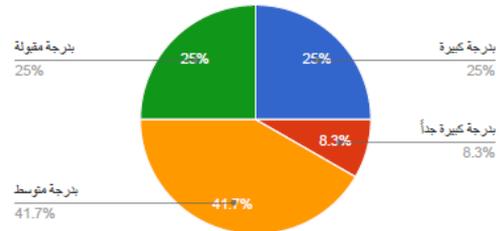
NOT_FOUND [البيئة التعليمية] إتقان الأستاذ لمفردات المقرر



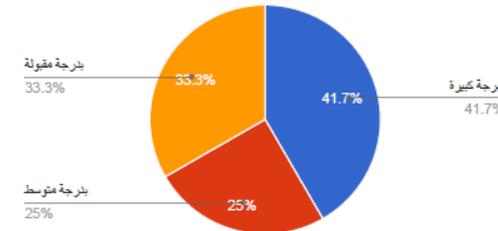
NOT_FOUND [البيئة التعليمية] جودة أساليب التدريس التي استخدمها الأستاذ



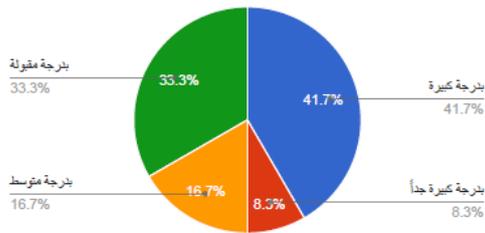
NOT_FOUND [البيئة التعليمية] تقويم الأستاذ للطلاب باستمرار



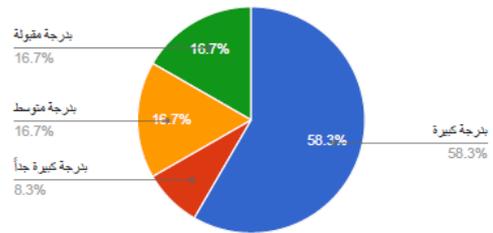
NOT_FOUND [البيئة التعليمية] جودة التعليم في الكلية بشكل عام



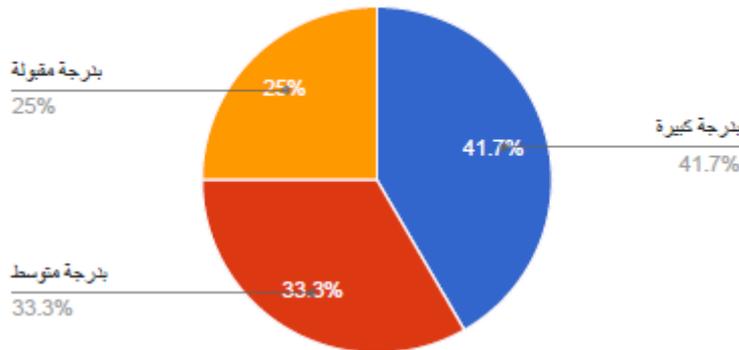
NOT_FOUND [البيئة الجامعية | دور منسق البرنامج في حل المشكلات



NOT_FOUND [البيئة الجامعية | تجهيزات القاعات الدراسية



NOT_FOUND [البيئة الجامعية | جودة إجراءات التخرج



3. Assessment Methods:

* Each course of the program is routinely assessed, a number of different assessment methods are being used, including:-

- Written exam.
- Practical exam.
- Oral exam.
- Self learning activities

4. Student Achievement:

Section B "Statistics" demonstrates normal distribution of grades and reasonable students' achievement.

Quality of learning opportunities

5-Quality of Teaching and Learning:

The quality of teaching and learning was evaluated at the end of each semester through questionnaires directed to students. More than 50% of students participated in questionnaires which is statistically acceptable.

The results of these questionnaires mostly showed a high degree of satisfaction about:

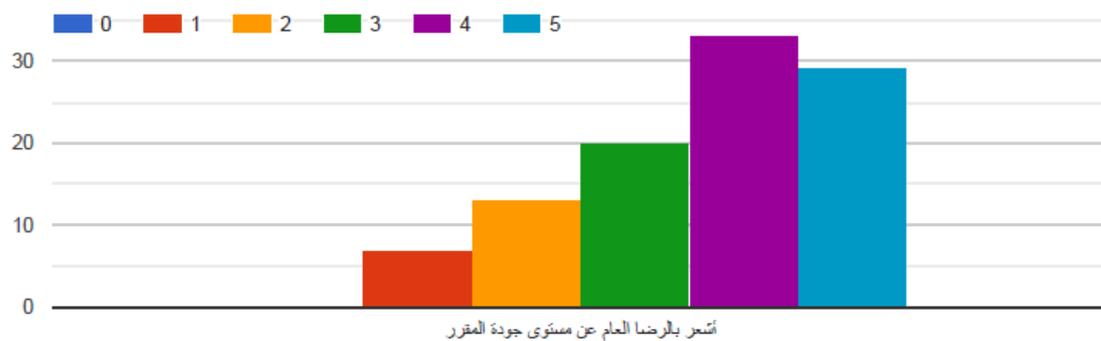
- Quality of knowledge taught especially for pharmacotherapy 1, 2,3,4

- Professionalism and cooperation of staff members.

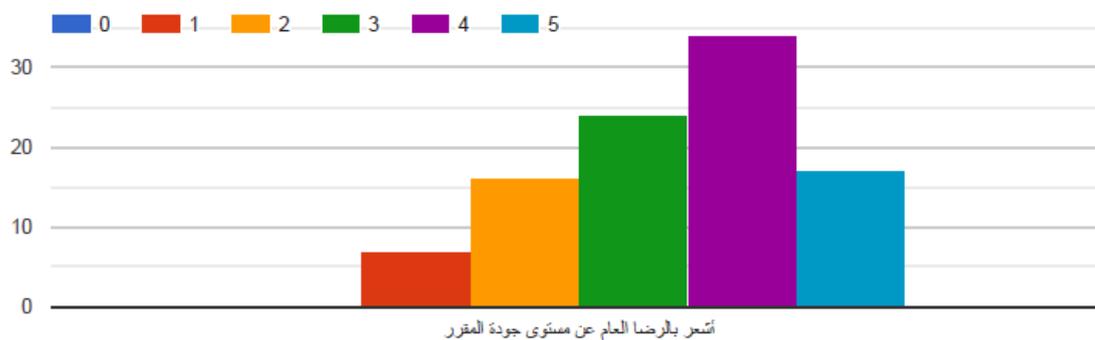
They complained from:

- Condensed content,
- Absence of continuous assessment through quizzes,
- Absence of practical applications,
- Repeating some topics in pharmacotherapy 2 and cardiovascular evaluation, nutrition and anemia,
- Dr. Wael who participated in teaching Cardiovascular evaluation. Dr. Abd allah who participated in teaching pharmacotherapy 4
- Dermatology part in pharmacotherapy4
- Pediatric part in pharmacotherapy 3 focused on diagnosis rather than treatment plans

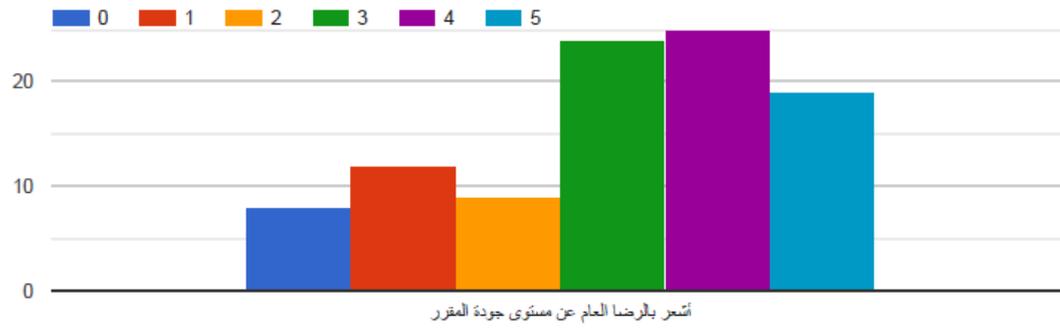
1. Elective 1 (Hospital microbiology)



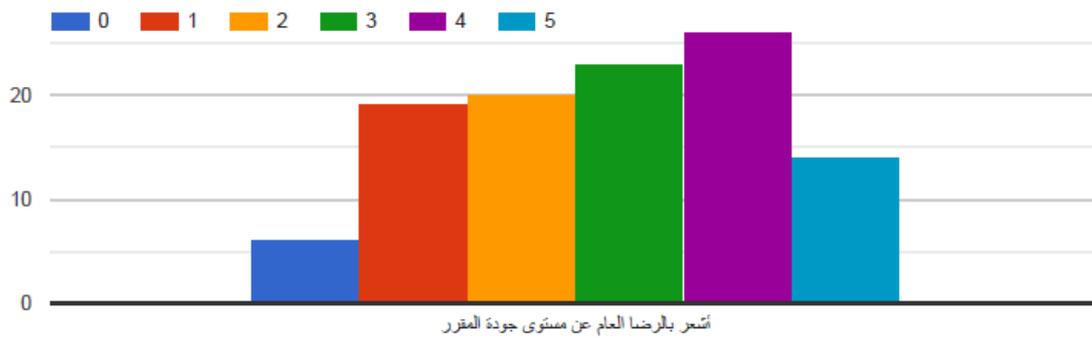
2. Clinical laboratory tests:



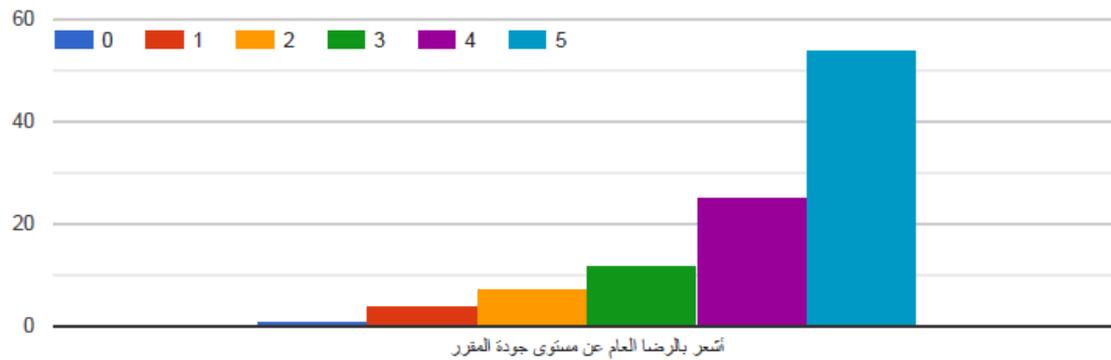
3. Clinical pharmacokinetics:



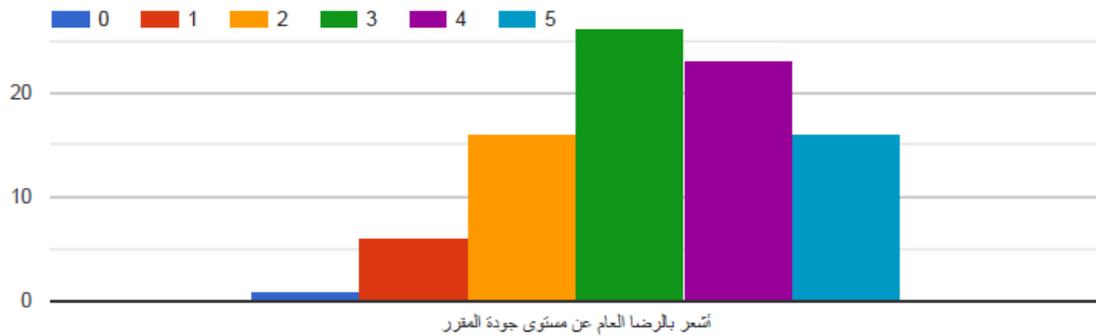
4. Cardiovascular evaluation:



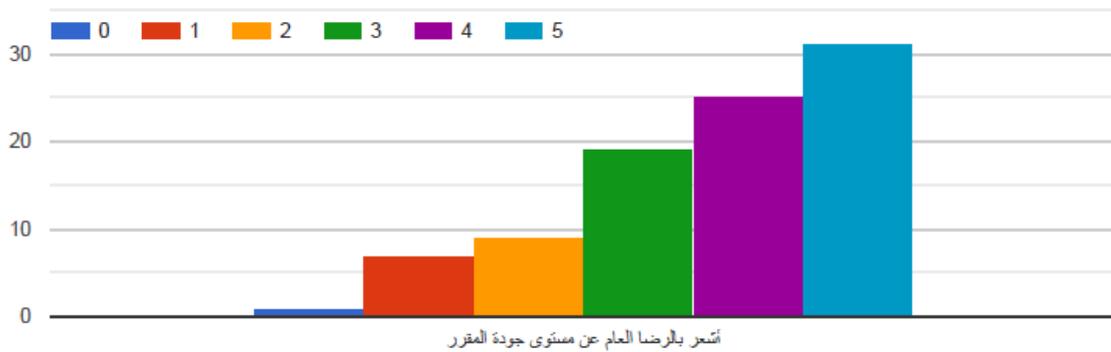
5. Advanced pharmacotherapy 2:



6. Advanced pharmacotherapy 1:



11. Advanced pharmacotherapy 3:



6. Learning Resources:

A-Adequacy of the specialties of the faculty members to the requirements of the program:

The specialties of the faculty members involved in teaching are adequate for the requirements of the program. However the students complained from some staff members of medical background as they focused on diseases diagnosis rather than treatment plans.

B-Availability and adequacy of program handbook.

In fact, a program handbook is available for most of students containing courses intended learning outcomes and student assessment methods as well. In addition, there is a list of references at the end of each handbook. However students complained from the quality of some courses handbooks regarding the condensed topics and arrangement of data presented.

7. 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.

The program, courses and staff members participated in teaching was evaluated by:

- Employers
- Diploma students
- Diploma graduates

b. Effectiveness of the system.

No administrative constraints present that may hinder achieving program ILOs.

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.

Administrative and academic leader members (Vice dean of postgraduate studies and program coordinator) apply the rules regarding student attendance percentage and staff member performance evaluation (course specification, and report).

d. Faculty Response to Students and External Evaluations!:

- OTC drugs course was added among the elective courses
- Assessment system was revised and changed in which no final exam marks exceed 60% of the total assessment
- Bench mark of the program ILOs was done with Postgraduate Certificate delivered by University of Glasgow, Scotland, UK.

8. Action plan for improvement:

Action	Person responsible	Completion date
Organization of field training for more practical applications	<ul style="list-style-type: none">• Vice dean of postgraduate studies• Program coordinator	2019-2021
Revision of courses contents and make required updates	<ul style="list-style-type: none">• Vice dean of postgraduate studies• Program coordinator	2019 - 2020

- Vice dean of postgraduate studies.....
- Program coordinator.....

