Program Report for Clinical Pharmacy program

Faculty of Pharmacy

Bachelor of Pharmaceutical Sciences

(Clinical pharmacy)

2011-2012

Educational Program Report

A- Basic Information:

1. Program Title: Bachelor of Pharmaceutical Sciences (Clinical pharmacy).

2. Program type: Single [√] Double [ ] Multiple [ ]

3. Departments:

A- **Departments affiliated to Faculty of Pharmacy:**

Pharmaceutics, Pharmacognosy, Pharmaceutical Medicinal Chemistry, Pharmaceutical Organic Chemistry, Pharmaceutical Analytical Chemistry Industrial Pharmacy, and Clinical Pharmacy.

B- **Departments affiliated to Faculty of Medicine:**

Microbiology, Pharmacology, Biochemistry, Anatomy, Histology, Physiology, Pathology, Public Health and Parasitology

C- University hospital

First aid unit, Clinical pathology, Dermatology, Pedriatrics, Cardiology, Chest diseases, and Gastroenterology.

D- Departments affiliated to Faculty of Science:

Botany, Zoology, Physics, Chemistry, and Mathematics

E- **Department affiliated to Faculty of Arts:**

English language and Social Science

F- Department affiliated to Faculty of Education:

Psychology

E- **Department affiliated to Faculty of Commerce:**

Accounting

H- **Department affiliated to Faculty of Law**:

Human rights

G- Upper Egypt Institute of Cancer

Cancer science

4. Coordinator:

Prof. Dr. Ibrahim H. Refaat (Analytical pharmaceutical chemistry department).

5. External Evaluator(s):

Prof. Dr. Gamal M. El-Magrapy (Faculty of Pharmacy, Tanta University).

Prof. Dr. Mokhtar M. Mabrouk (Faculty of Pharmacy, Tanta University).

5. Year of Operation: Academic year, 2011/ 2012.

B. Statistics

1. Number of students starting the program:

31 students were admitted in the academic year 2006/2007 {the year at which the new curriculum started} and 289 students attended the program in the academic year 2011 / 2012

2. Ratio of students attending the program this year to those of last year

The number of students attended the program in the academic year 2010 / 2012 were 289 versus to 31 in the academic year 2006 / 2007. The ratio is 9.32: 1

3. Number and percentage of students passing in each year

The following table represents the number of students registered and succeeded in different educational years during the academic years 2011 / 2012.

A- First semester

Year of the program	No. of registered students	No. passed students	% of passed students
Level (1)	113	107	94.6
Level (3)	32	30	93.8
Level (5)	65	63	96.9
Level (7)	43	43	100
Level (9)	36	36	100
Total	289		

B- Second Semester

Year of the program	No. of registered students	No. passed students	% of passed students
Level (1)	113	99	87.6
Level (3)	31	29	93.5
Level (5)	64	59	92.2
Level (7)	44	43	97.7
Level (9)	36	36	100
Total	288		

4. Number of students completing the program:

The program was completed, at the academic year (2010 / 2011).

5- Grading: number and percentage in each grade of graduates:

Grades are a measure of the performance of a student in an individual course.

Grade Expression	Grade Scale	Grade Point Average Value* (GPA)	Numerical Scale of Marks
Excellent	A	4	≥ 90 %
	A-	3.7	85 – < 90 %
Very Good	B+	3.3	82.5 – < 85 %
	B	3	77.5 – < 82.5 %
	B-	2.7	75 – < 77.5 %
Good	C+	2.3	72.5 – < 75 %
	C	2	67.5 – < 72.5 %
	C-	1.7	65 – < 67.5 %
Satisfactory	D+	1.3	62.5 – < 65 %
	D	1	60 – < 62.5 %
Fail	F	0	< 60 %

a. * The grade point values above apply to marks earned in individual courses; grade point averages are weighted sums of the grade points earned.

2. Grade Point Average (GPA): The University calculates for each student, both at the end of each grading period and cumulatively, a grade point average (GPA) based on the ratio of grade points earned divided by the number of credits earned with grades of A-F (including pluses and minuses). Both the periodic and cumulative GPA appears on each student's record. Repeated courses will be counted once toward the calculation of accumulated credit hours. The bestachieved GPA will be used for calculating GPA. The cumulative GPA calculation starts from the first semester for each student and is updated each semester till his/her graduation. The semester GPA of the student is the weighted average of the grade points acquired in the courses passed in that particular semester.

The following Tables shows the number and percentage of graduates achieving each grade in the academic year 2011 / 2012.

إحصائية بنتيجة الفصل الدراسي الأول 2011/ 2012

م	المستوى	A	A-	B+	B	B-	C+	C	C-	D+	D	F	جملة المقيدون	جملة الناجحون	نسبة النجاح
1	الأول	0	1	21	18	14	23	12	4	9	5	6	113	107	94.69%
		0.00%	0.88%	18.58%	15.93%	12.39%	20.35%	10.62%	3.54%	7.96%	4.42%	5.31%			
2	الثاني	0	4	6	4	3	3	2	3	2	4	2	33	31	93.94%
		0.00%	12.12%	18.18%	12.12%	9.09%	9.09%	6.06%	9.09%	6.06%	12.12%	6.06%			
3	الثالث	2	4	10	6	10	16	5	6	3	0	2	64	62	96.88%
		3.13%	6.25%	15.63%	9.38%	15.63%	25.00%	7.81%	9.38%	4.69%	0.00%	3.13%			
4	الرابع	4	8	9	6	3	3	5	3	1	1	0	43	43	100%
		9.30%	18.60%	20.93%	13.95%	6.98%	6.98%	11.63%	6.98%	2.33%	2.33%	0.00%			
5	الخامس	3	10	10	4	6	2	0	0	0	0	0	35	35	100%
		8.57%	28.57%	28.57%	11.43%	17.14%	5.71%	0.00%	0.00%	0.00%	0.00%	0.00%			

A	A-	B+	B	B-	C+	C	C-	D+	D	F
ممتاز		جيدجدا			جيد			مقبول		راسب

كلية الصيدلة
برنامج الصيدلة الإكلينيكية

إحصائية بنتيجة الفصل الدراسي الثاني 2011/ 2012

م	المستوى	A	A-	B+	B	B-	C+	C	C-	D+	D	F	جملة المقيدون	جملة الناجحون	نسبة النجاح
1	الأول	0	7	15	10	17	12	7	9	16	6	16	115	99	86.09%
		0.00%	6.09%	13.04%	8.70%	14.78%	10.43%	6.09%	7.83%	13.91%	5.22%	13.91%			
2	الثاني	0	8	4	2	2	7	2	2	1	1	3	32	29	90.63%
		0.00%	25.00%	12.50%	6.25%	6.25%	21.88%	6.25%	6.25%	3.13%	3.13%	9.38%			
3	الثالث	1	5	7	8	5	18	6	4	4	1	4	63	59	93.65%
		1.59%	7.94%	11.11%	12.70%	7.94%	28.57%	9.52%	6.35%	6.35%	1.59%	6.35%			
4	الرابع	4	8	6	8	2	5	5	1	3	1	1	44	43	97.73%
		9.09%	18.18%	13.64%	18.18%	4.55%	11.36%	11.36%	2.27%	6.82%	2.27%	2.27%			
5	الخامس	6	14	10	1	3	0	1	0	0	0	0	35	35	100%
		17.14%	40.00%	28.57%	2.86%	8.57%	0.00%	2.86%	0.00%	0.00%	0.00%	0.00%			

A	A-	B+	B	B-	C+	C	C-	D+	D	F
ممتاز		جيدجدا			جيد			مقبول		راسب

إحصائية بنتيجة الفصل الدراسي الصيفي 2011/ 2012

م	المستوى	A	A-	B+	B	B-	C+	C	C-	D+	D	F	جملة المقيدون	جملة الناجحون	نسبة النجاح
1	الأول	7	3	1	7	2	5	6	2	4	0	4	41	37	90.24%
		17.07%	7.32%	2.44%	17.07%	4.88%	12.20%	14.63%	4.88%	9.76%	0.00%	9.76%			
2	الثاني	0	0	0	1	0	0	0	0	1	0	1	3	2	66.67%
		0.00%	0.00%	0.00%	33.33%	0.00%	0.00%	0.00%	0.00%	33.33%	0.00%	33.33%			
3	الثالث	1	4	4	2	0	2	2	1	2	3	1	22	21	95.45%
		4.55%	18.18%	18.18%	9.09%	0.00%	9.09%	9.09%	4.55%	9.09%	13.64%	4.55%			
4	الرابع	0	1	1	2	0	1	1	0	2	1	1	10	9	90%
		0.00%	10.00%	10.00%	20.00%	0.00%	10.00%	10.00%	0.00%	20.00%	10.00%	10.00%			
5	الخامس	0	0	0	0	0	0	0	0	0	0	0	0	0	0%
		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%			

A	A-	B+	B	B-	C+	C	C-	D+	D	F
ممتاز			جيدجدا			جيد			مقبول	راسب

6. First destinations of graduates

Following graduation from Faculty of Pharmacy-Assiut University, alumni are registered in the General Syndicate of Pharmacists and then practice the profession in different settings:

1. Community Pharmacy

- In community practice pharmacists are involved in:
  - Dispensing prescriptions
  - Primary health care
  - Health promotion

2. Hospital Pharmacy

- Pharmacists are involved in:
  - preparing and supplying medication for outpatients and patients in the wards, compounding and quality assessment of specialized dosage forms for use in the hospital environment

Clinical Pharmacists (Pharmacists who practice their profession in the wards) are directly involved in ensuring optimal medication therapy for patients by devising regimens specific to individual patients and monitoring patient's progress. Drug Information and Poisons Centers are staffed by pharmacists whose task is to provide information to other health care professionals to assist with therapeutic decision making.

3. Industrial Pharmacy

- Pharmacists in industry are involved in:
  - manufacturing products, quality control, marketing of pharmaceutical and medical products testing, research and development of new or improved products

4. Register in any research institute perusing Diploma, Master or Ph.D. degrees.

5.Some of these graduates could also be employed as teaching assistants in any public or private university. Faculty of Pharmacy Assiut University alumni office was established to follow up and support alumni's employment.

Academic Standards

1- Achievement of program Intended Learning Outcomes (Table 3)

	Course Title	Course Code	Program ILOs Covered (By No.)
1	Physical & Inorganic Chemistry	PC 101	a-1, a-2, a-3, c-1, c-8
2	Pharmaceutical Organic chemistry-1	PC102	a-1,a-2, a-3
3	Biophysics	MD101	a-4, a-7, a-9
4	Botany and medicinal plants	PG 101	a-1, a-5
5	Cell Biology	MD 102	a-1, a-7
6	Mathematics and statistics	MS 101	a-1, b-1
7	English language	EN 101	b-7, b-10
8	Pharmaceutical Organic chemistry-2	PC 203	a-3
9	Pharmaceutical Analytical chemistry-1	PC 205	a-2, a-3, c-9, d-2
10	Pharmacognosy-1	PG 202	a-5
11	Histology	MD 203	a-4, a-7
12	Physical pharmacy	PT 201	a-2
13	Pharmacy orientation	PT 202	a-6, a-11, d-1, d-8
14	Human rights	HU 201	b-9, b-10
15	Pharmaceutical Organic chemistry-3	PC 304	a-3
16	Pharmaceutical Analytical chemistry-2	PC 306	a-3, c-9

17	Pharmacognosy-2	PG 303	**a-5, a-12**
18	Anatomy	MD 304	**a-4, a-7**
19	Physiology	MD 305	**a-7, d-7**
20	Medical Terminology	EN 302	**b-10, c-3, c-10**
21	Psychology	HU 302	**b-2,b-4, b-9, b-10, d-1, d-5**
22	Biochemistry-1	PB 401	**a-3, c-8**
23	Phytochemistry-1	PG 404	**a-2, a-6**
24	Instrumental Analysis	PC 407	**a-3, a-13 c-4, c-8**
25	General Microbiology and Immunology	PM 401	**a-1, a-9**
26	Parasitology	MD 406	**a-1, a-9**
27	Pharmaceutical dosage forms-1	PT 403	**a-5, c-1**
28	Pharmacy legislation	PT 404	**a-11**
29	Medicinal chemistry-1	PC 509	**a-3**
30	Clinical microbiology	PM 502	**a-7, a-9**
31	Pharmaceutical dosage forms-2	PT 505	**a-5, c-1**
32	Biochemistry-2	PB 502	**a-2, c-8**
33	Phytochemistry-2	PG 505	**a-5**
34	Pathophysiology	MD 507	**a-7**
35	Pharmacy Administration	PT 506	**c-5, c-6, d-3, d-2**
36	Medicinal chemistry-2	PC 610	**a-3**
37	Pharmaceutical technology	PT 607	**a-13, c-4**

38	Community pharmacy practice	PT 608	**a-10,b-4, c-3, c-5, c-7, d-1, d-4 ,d-5**
39	Biopharmaceutics and pharmacokinetics	PT 609	**a-8, b-8, c-7**
40	Quality Control of Herbal Drugs	PG 606	**a-5, a-12**
41	Pathology	MD 608	**a-7, c-8**
42	Trauma and First Aid	MD 609	**a-7, a-9, a-10, a-14**
43	Pharmacology-1	PO 701	**a-8, a-9, b-8, d-8**
44	Radiopharmaceuticals	PP 701	**a-13, c-11, d-7**
45	Clinical pharmacy -1	PP 702	**b-5, c-3, c-7, c-9, d-5**
46	Hospital pharmacy	PP 703	**c-6, c-7, c-8**
47	Controlled drug delivery system	PT 704	**a-6, c-1, c-4**
48	Public health and preventive medicine	MD 710	**a-9, a-10, b-4, b-5**
49	Pharmaceutical Biotechnology	PM 703	**c-1, c-2**
50	Pharmaceutical Microbiology	PM 704	**a-9**
51	Pharmacology-2	PO 802	**a-8, a-9, b-5**
52	Clinical pharmacy-2	PP 805	**b-5, c-3, c-7, c-9**
53	Phytotherapy	PG 807	a-5,a-3
54	Pharmaceuticals analysis and quality control	PC 808	a-3, c-4
55	Clinical biochemistry	PB 803	**a-3, a-9, c-7, c-8**
56	Drug marketing	PP 806	**a-16, a-17, b-10, c-13, d-6**
57	Drug interactions	PO 803	**c-7**

58	Toxicology and forensic chemistry	PO 904	**a-3, a-14, c-7**
59	Therapeutics-1	PO 905	**a-9, b-5**
60	Clinical pharmacokinetics	PP 907	**a-8, a-9, c-7, d-7, d-8**
61	Oncology	PP 908	**a-9, b-5, d-7, c-7**
62	Clinical nutrition	PP 909	**c-9, d-7, c-7**
63	Clinical pharmacology	PO 906	**a-8,a-9, c-7**
64	Sociology	HU 903	**d-1, b-4, b-9, b-10, d-5**
65	Therapeutics-2	PO 007	**a-9, a-10, b-5, c-7, d-7, d-8**
66	Treatment of dermatological and reproductive diseases	PP 010	**a-10, b-5, d-7, a-9, b-2, d-5**
67	Treatment of pediatric diseases	PP 011	**a-10, b-5, d-7, a-9,b-2, d-5**
68	Treatment of cardiovascular Diseases	PP 012	**a-10, b-5, d-7, a-9 b-2, d-5**
69	Gastroenterology	PP 013	**a-10, b-5, d-7, a-9 b-2, d-5**
70	Treatment of respiratory system diseases	PP 014	**a-10, b-5, d-7, a-9 b-2, d-5**
71	Drug information	PP 015	**b-4, b-6, b-7, d-2, d-4, c-5, d-8, d-5**

Summer training (300 hr)

The summer training also helps the students to gain many professional and practical skills in addition to some transferable skills.

Clinical training (100 credit hour) in university hospital s.

Comparison between curriculum structure of NARS and FPAU programme

Module	Clin. (%)	NARS (%)
Basic Sciences	10.9	10-15
Pharmaceutical Sciences	34.7	35-40
Medical Sciences	25.4	15-25
Pharmacy Practice	9. 8	10-15
Health and Environmental Sciences	11.9	5-10
Behavioral and Social Sciences	2.6	2-4
Pharmacy Management	1.6	2-4
Discretionary (Elective)	3.1	Up to 8 %

2. Achievement of program aims

The Faculty of Pharmacy awards its graduates the Bachelor Degree in Pharmaceutical Sciences (Clinical Pharmacy), after successful completion of the approved study program. Holders of the Bachelor degree are qualified to practice pharmacy and / or to study for higher degrees.

3. Assessment methods

Student's performance is assessed by both coursework and examinations. Exams are held at the end of each course. Methods of assessment include written, oral and practical examinations, research papers, course assignments and practical work.

10.1. Grading Scheme:

1. Grades are a measure of the performance of a student in an individual course.

Grade Expression	Grade Scale	Grade Point Average Value* (GPA)	Numerical Scale of Marks
Excellent	A	4	≥ 90 %
	A-	3.7	85 – < 90 %
Very Good	B+	3.3	82.5 – < 85 %
	B	3	77.5 – < 82.5 %
	B-	2.7	75 – < 77.5 %
Good	C+	2.3	72.5 – < 75 %
	C	2	67.5 – < 72.5 %
	C-	1.7	65 – < 67.5 %
Satisfactory	D+	1.3	62.5 – < 65 %
	D	1	60 – < 62.5 %
Fail	F	0	< 60 %

b. * The grade point values above apply to marks earned in individual courses; grade point averages are weighted sums of the grade points earned.

2. Grade Point Average (GPA): The University calculates for each student, both at the end of each grading period and cumulatively, a grade point average (GPA) based on the ratio of grade points earned divided by the number of credits earned with grades of A-F (including pluses and minuses). Both the periodic and cumulative GPA appears on each student's record. Repeated courses will be counted once toward the calculation of accumulated credit hours. The bestachieved GPA will be used for calculating GPA. The cumulative GPA calculation starts from the first semester for each student and is updated each semester till his/her graduation. The semester GPA of the student is the weighted average of the grade points acquired in the courses passed in that particular semester.

Registration symbols that do not carry grade points or credit:

- S: Represents achievement that is satisfactory.• U: Represents achievement that is unsatisfactory.

- T: Transfer, indicates credits transferred from another institution.
- W: Withdrawal prior to deadline indicates a student has officially withdrawn from a course.

4. Student achievement

According to the overall statistics, the percentage of succeeding graduates exceeded 90% in all years except in pre-pharmacy year. This may be due to the drop in the efforts of students being exhausted during the final two years of hard work in the high school for the purpose of getting high scores that permit their admission in the university. Another reason is the language barrier in the majority of students coming form governmental Arabic-based schools. Students in professional years become more adapted to the faculty system as reflected by the increase in the percentage of succeeding students.

Quality of Learning Opportunities

1. Quality of teaching and learning

The faculty of pharmacy Assiut University aims to graduate highly qualified, competent and competitive clinical pharmacists ready for work in different clinical pharmaceutical positions. The plan of the faculty is designed so that the graduate will be armed with sufficient knowledge, skills, experience and creativity to fulfill the duties of his/her position after graduation. In addition, the faculty offers postgraduate courses for advanced pharmaceutical sciences and performs research according to the national strategy and the community needs. To achieve this mission, the faculty has set a strategic plan covering various areas such as learning and teaching, extra-curriculum activities, research, engagement with stakeholders and others.

The general outline of the faculty teaching and learning strategies can be summarized in the following points:

1- Lectures are given with a special attention to confirming the flexibility of the lecture schedule based on students' opinion and the availability of presentation equipment and highly comfortable environment for the students attending the lectures.

2- The staff members have focused on enhancing the discussion with students during lectures to deepen their understanding and widen their background. However, the high number of students attending each lecture is a clear barrier against effective communication and discussions between staff members and students. To partially

overcome this barrier, students are divided into smaller groups and the lectures are repeated to each group according to the announced schedule. In addition, all staff members have arranged additional office hours for students to increase the communication with them. Furthermore, staff members are available during the time of practical lessons to discuss with students the theoretical basis previously presented during the lectures.

3- Practical sessions are given in each department for smaller groups. These sessions start with a brief theoretical class to confirm understanding the basis of the experiments, complete awareness of the procedures as well as confirming safety issues related to the work in the laboratory. These classes are followed by the actual practical session were each student performs the experiment under direct supervision of laboratory instructors and staff members.

4- The faculty gives a special attention to set a supporting environment for students for better learning. The lectures halls are located in a separate unit nearby the faculty area and all the lectures halls are well ventilated, air conditioned and supplied with all facilities. Laboratories are sufficiently equipped and provided by most of chemicals necessary for performing the practical lessons. Safety measures in the laboratories are continuously revised and updated. Between lectures and practical lessons, students have unlimited access to the library, the student computer center, the student buffet, student playground and sports hall.

5- Excellence in teaching. According to the rules of the university, all staff members are to attend training programs for developing their abilities as teachers. The faculty encourages the development of international collaborations and exchanges, in the context of personal development of teaching and research and international co-operation. The faculty is honored by the selection of one of its staff members for receiving the award of the best lecturer in Assiut University. The faculty is also honored with the selection of one of its department heads for the award of the best department heads in Assiut University.

6- Encouraging excellent students. The Ministry of High Education offers the excellent and very good students a special monthly grant. The faculty honored final year students with highest evaluation in their graduation (during the annual graduation

ceremony) to support these students and to encourage other students for excellency.

7- Continuous updating and ensuring creativity in curriculum. Each department has constructed a committee for curriculum updating to reflect the recent advances in pharmaceutical sciences, to ensure the needs of the graduate in the work field and to confirm creativity and self learning.

8- Fostering independent learning. The faculty strategy is to encourage students to become independent learners and to take responsibility for their own learning during their studies at university and beyond as part of lifelong learning.

9- Availability of learning resources. The faculty continuously confirms the availability of learning resources in the form of course notes prepared by staff members. In addition, students have full access to the faculty library with a tremendous and diverse text books and references. The faculty has established a committee for libraries to continuously review and enhance the performance.

Furthermore, students are encouraged to use the computer center in the faculty with access to the World Wide Web for data gathering and reports preparation.

10- Increased contact with staff members. The faculty encourages students to be in direct contact with staff members and their assistants. Each staff member has assigned specific office hours for unlimited meetings with students. In addition, the scientific conferences held annually in each department with attendance of representative students are good opportunities for students to meet the staff members and discuss with them all issues related to teaching and course content.

11- Data collection about student opinion in teaching and learning. Staff members and their assistants are involved in preparing and distributing questionnaires to reflect the student opinion in teaching and learning. These questionnaires are run and managed by the Faculty Quality Assurance Unit and results are analyzed and discussed during the meetings of the unit with staff members.

12- Faculty new bylaw. The new faculty bylaw is to be executed starting from this academic year that allows the teaching of the courses along the two semesters. The new bylaw is expected to overcome most of the points raised by students during questionnaires and scientific annual conferences of each department.

13- Scientific trips. Students of fourth year are encouraged to participate in several trips

arranged by the faculty for visiting pharmaceutical industrial companies.

14- Scientific workshops and training courses. The faculty encourages students to participate in scientific workshops and training courses. During this academic year, the department of medicinal chemistry has arranged a workshop for drug design and the department of pharmaceutics with its associated drug information center has arranged a training course about clinical pharmacy including lectures, practical lessons and hospital rounds.

15- The faculty prepared Exam Notes for each academic year to allow the student to be familiar with the method of evaluation and assessment in exams. Results of the periodical and practical exams are announced for students to help evaluate themselves and correct their weak points.

16- External review system is executed starting from this academic year. More enhancement of the role of external reviewers, examiners as well as internal review system is currently under consideration for the next academic year.

4.1- Self learning:

The faculty strategy is also to encourage students to become independent learners and to take responsibility for their own learning during their study. The faculty arranges several means of self learning during which students were encouraged to enhance development of team work skills.

The students are instructed to prepare reports, essays and posters on specific topics in different pharmaceutical sciences related to their study under supervision of the faculty staff members. The students are encouraged to use different knowledge sources (faculty library and scientific databases and the internet) effectively and efficiently for data collection and analysis.

In some departments, the students are divided into small groups (5-10 students) in order to enhance cooperative and team work skills. Each group presents their report using PowerPoint data show or overhead projector facilities in an open discussion fashion during lab. time. In other departments, each student is asked to individually prepare a report on specific topic covering the taught course.

In addition posters prepared by specific group of students are evaluated by staff members and successful posters are hanged on the walls of the concerned department to

be displayed to all students of the faculty. The students were encouraged to participate in solving different case studies in the field of clinical pharmacy, Over the Counter Drugs (OTC), practical pharmacokinetics, computer-aided drug design, structure elucidation and quality control assays.

5- Effectiveness of student support systems

The faculty offers support to students by different means in order to ensure a prosperous life for its students. Examples of students support services include:

Each staff member of the faculty has assigned weekly office hours and the schedule was announced by each staff member at the beginning of the course during the lectures. Staff members were available during these office hours for students to help them in understanding ambiguous points during the course and deepen their scientific knowledge. In addition, all staff members were available during the practical lessons for supervision to ensure the correlation of the lectures with the related practical lesson.

The University has a health insurance for each student where Assiut University Student Hospital is involved within university campus is available for the students for medical examinations and medications for them from simple complaints to surgical support.

The main student support is offered by the Youth Welfare Office, in collaboration with the Vice-Dean of Educational and Students' Affairs. Several social, sports, scientific, artistic & cultural activities are conducted every year. In the academic year 2007/2008, several achievements have been performed through the Youth Welfare office in the following committees:

- Social Committee
- Sports Committee
- Scientific Committee
- Cultural Committee
- Artistic Committee
- Family committee

Students' Union is selected by elections/nominations program. Its activity is mainly social, cultural, scientific, sports and recreational. They act as a strong link between students and faculty top management. This union also works to defend students'

rights and find solutions for student problems that can be discussed with the faculty top management. The union's activities are financially supported by the university.

A student handbook is available to all students admitted in the pre-pharmacy year, and is also available in the faculty top management offices.

Financial support is available for students in need from the faculty and the university. Such financial support covers the academic lecture and laboratory notes and different monetary aids. The faculty offered free lecture notes for the needy students. The number of students getting monetary aids was 136 students with total sum of 13600 L.E during the year 2008/2009. The faculty staff members voluntarily provide free books for students who were not covered by the Social Solidarity Fund, in addition to monetary support. The faculty held a charity event for providing clothes for the needy students by low prices.

The University has two student dormitories; one for male students and the other for female students associated with the campus which has full housing services and low cost.

The University has a central restaurant which offers low priced meals to students and assistant staff members.

The University has a central stadium, swimming pool, tennis court and many other sporting facilities.

The university provides comfortable air conditioned study centre available for each student.

7. Learning resources

a. No. and ratio of faculty members and their assistants to students.

(مرفق)

b. Matching of faculty member`s specialization to program needs.

(مرفق)

c. Availability and adequacy of program handbook.

d. adequacy of library facilities

The students were encouraged to visit the faculty student library as well as the staff members' library to increase their knowledge beyond the department notes through searching in textbooks and references. The students were also encouraged to use the faculty student computer unit to access the different sources of information on the web.

Information about the faculty libraries are presented in the following table

Item	**Number**
Total Foreign Books	11980
Total Arabic Books	1342
Full Scientific Periodicals	73
Theses	1588
Computers	7
Photocopiers	2
Microfilm Data show	3
Microfiche Data show	1
Television and Video	1
Audio Cassette	1

e- Adequacy of laboratories

Adequate (مرفق)

f. Adequacy of computer facilities

Adequate (مرفق)

g. Adequacy of field/practical training resources

Pharmaceutical companies offer a limited chance for training while most of students perform their training in community pharmacies.

f. Adequacy of any other program needs

8. Quality Management

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

Program monitoring is usually undertaken by the Dean and Vice-Dean for Educational and Students Affairs; they monitor the whole teaching and learning process. In addition, the faculty QA unit performs a variety of activities related to ensuring a high quality pharmaceutical education in the faculty and a good learning environment for students. On the other hand, each department participates in implementing the recommendations of the faculty administration and the faculty QA unit. The faculty has a committee for course development, committee for libraries, and committee for equipments.

b. Effectiveness of the system

Student opinions about different aspects of the educational process reflected the adequacy of efforts.

c. Effectiveness of faculty and university laws and regulations for progression and completion

The faculty has clear laws and regulations for progression and completion stated in the Bylaws and Regulations for Undergraduate Students, Faculty of Pharmacy, Assiut University (2006) which conforms to the university regulations. Any change in structure of the faculty curriculum contents depend on recommendation of the faculty council then final agree of university council.

d. Effectiveness of program external evaluation system

i. External evaluators

External review is a vital component of overall QA unit activities that should be performed through suitably appointed qualified and experienced people. Faculty of Pharmacy is working towards establishing a complete and effective quality assurance system. Therefore, the external evaluation system of courses was started from the second semester of the academic year 2006-2007, where each department has assigned an external evaluator for each course to review the contents of the course, departmental lecture notes and evaluation system. At the end of the review process, the external evaluator prepared an evaluation report which has been handed to the department.

Prof. Dr. Gamal M. El-Magrapy, Prof. Dr. Mokhtar M. Mabrouk had evaluated the educational program for the clinical pharmacy program.

ii- Students

Questionnaires were run by the Faculty Quality Assurance Unit. The results of the questionnaires of the first semester were analyzed and discussed by the Unit and the conclusions were sent to each department. Questionnaires of the second semester were collected and currently processed by the Unit. Each department held its annual scientific meeting with representative students from each academic year. The student opinions were presented and discussed with the staff members of each department. The raised points regarding the contents of courses, methods of teaching and evaluation styles were taken into consideration by the staff members.

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e- Faculty response to student and external evaluations

All the departments apply the system of external evaluation in the courses they teach. The QA Unit communicates in writing with the Heads of different departments to inform them of the results of students' evaluations and receive documented responses of the departments for reform.

Prof. Dr. Ahamed Adb ElAziz, Dr. Maged Abo Hashim and Dr. Aymen Abd El-Hameed Ahamed had evaluated the faculty educational program, there were some comments in their reports and they were taken in consideration.

Development of the internal auditing system

8. Proposal for Program Development

a. Program structure (units/credit-hours)

No change in the structure

b. Courses, deletions, additions and modifications.

To be mentioned that one course has been added to have a total of 61 courses instead of 37 courses. This course is titled human right and classified among social sciences and humanities. Also, computer course has been deleted (Ministry of High Education Regulations). Physiology was shifted to the first term and pharmacy administration to the second term for the first year students.

c. Staff development requirements

The development of the capabilities of the faculty staff members is achieved through:

-Increase in the number of academic staff attending and participating in educational conferences and scholarly meetings.

-All teaching assistants, lecturers and associate professors are required to attend

Faculty and Leadership Development training at regular intervals (at the University LDC). These training are concerned with developing the staff members in different aspects such as: thinking skills, communication skills, new research techniques, teaching techniques, time management…etc.

10. Progress of previous year's action plan:

The following table lists the previous year action plan indicating whether specific actions were completed and the reason for any non-completion.

11. Action plan:

The following action plan will be acted upon thtoughout year 201/2011

Action Identified	Person responsible	Progress of the action
Activating the external evaluation system for the faculty educational courses	Department Heads	Continuous
Enhancing awareness of the updated mission among faculty leaders, faculty staff, administrative personnel, alumni, students, and collaborative bodies faculty leaders, faculty staff, administrative personnel, alumni, and students	QA Unit & staff members	Continuous
Encourage all course instructors to orient students with the course specifications during the first lecture	Faculty Staff Members	Continuous
The automated computerized system for student's affairs	Vice Dean for Student affairs & Management Information system centre (MIS)	Continuous
Implementation of a system for better monitoring and improvement of clinical and summer training programmes, also preparing a new summer training handbook	The Dean Vice Dean for Student affairs. Faculty Staff Members	Continuous
Encouraging departments to give assignments in their courses to develop their general skills.	Faculty Staff Members	all departments to give assignments in their courses
Establishing computerized database in the library.	Vice Dean for Research	Continuous s
Providing students and research laboratories with more equipment needed to improve the practical educational process and to implement advanced research protocols, respectively.	The Dean Faculty Council	Partially completed by purchasing equipment through CIQAP budget

Organizing more workshops for training faculty staff on the new methods of teaching by using multimedia and e-learning.	Faculty council	Continuous
Activating the external and internal evaluation system for the clinical pharmacy program	Faculty council & QA Unit	The internal and external evaluation system has been done
Conducting work shops for students.	Vice Dean for Student affairs. Vice Dean for community Services & Environmental affairs	Continuous 400 students achieved the training

Program coordinator:

Prof. Dr. / Ibrahim H. Refaat

كلية الصيدلة
برنامج الصيدلة الإكلينيكية

إحصائية بنتيجة الفصل الدراسي الأول 2011/ 2012

م	المستوى	A	A-	B+	B	B-	C+	C	C-	D+	D	F	جملة المقيدون	جملة الناجحون	نسبة النجاح
1	الأول	0	1	21	18	14	23	12	4	9	5	6	113	107	94.69%
		0.00%	0.88%	18.58%	15.93%	12.39%	20.35%	10.62%	3.54%	7.96%	4.42%	5.31%			
2	الثاني	0	4	6	4	3	3	2	3	2	4	2	33	31	93.94%
		0.00%	12.12%	18.18%	12.12%	9.09%	9.09%	6.06%	9.09%	6.06%	12.12%	6.06%			
3	الثالث	2	4	10	6	10	16	5	6	3	0	2	64	62	96.88%
		3.13%	6.25%	15.63%	9.38%	15.63%	25.00%	7.81%	9.38%	4.69%	0.00%	3.13%			
4	الرابع	4	8	9	6	3	3	5	3	1	1	0	43	43	100%
		9.30%	18.60%	20.93%	13.95%	6.98%	6.98%	11.63%	6.98%	2.33%	2.33%	0.00%			
5	الخامس	3	10	10	4	6	2	0	0	0	0	0	35	35	100%
		8.57%	28.57%	28.57%	11.43%	17.14%	5.71%	0.00%	0.00%	0.00%	0.00%	0.00%			

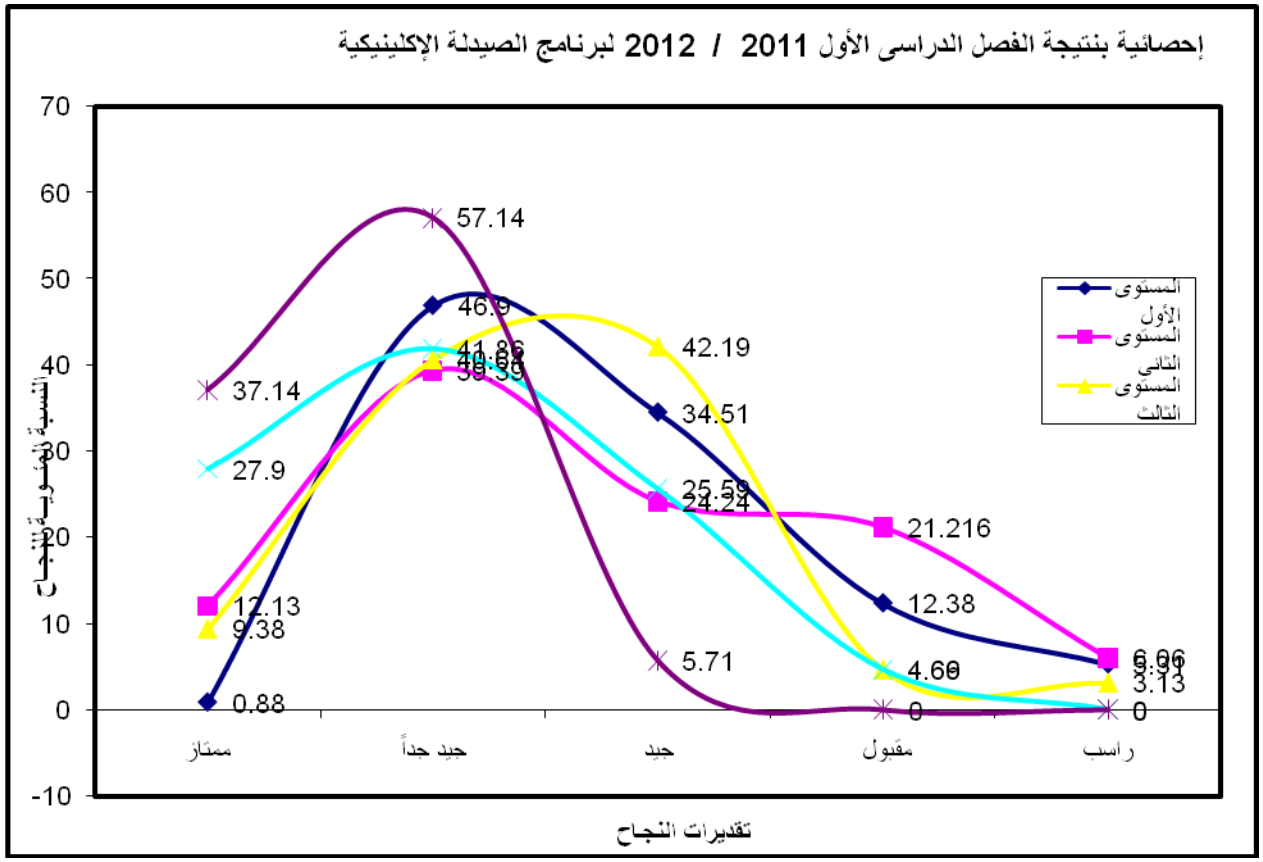
A	A-	B+	B	B-	C+	C	C-	D+	D	F
ممتاز		جيدجدا			جيد			مقبول		راسب

إحصائية بنتيجة الفصل الدراسي الثاني 2011/ 2012

كلية الصيدلة
برنامج الصيدلة الإكلينيكية

م	المستوى	A	A-	B+	B	B-	C+	C	C-	D+	D	F	جملة المقيدون	جملة الناجحون	نسبة النجاح
1	الأول	0	7	15	10	17	12	7	9	16	6	16	115	99	86.09%
		0.00%	6.09%	13.04%	8.70%	14.78%	10.43%	6.09%	7.83%	13.91%	5.22%	13.91%			
2	الثاني	0	8	4	2	2	7	2	2	1	1	3	32	29	90.63%
		0.00%	25.00%	12.50%	6.25%	6.25%	21.88%	6.25%	6.25%	3.13%	3.13%	9.38%			
3	الثالث	1	5	7	8	5	18	6	4	4	1	4	63	59	93.65%
		1.59%	7.94%	11.11%	12.70%	7.94%	28.57%	9.52%	6.35%	6.35%	1.59%	6.35%			
4	الرابع	4	8	6	8	2	5	5	1	3	1	1	44	43	97.73%
		9.09%	18.18%	13.64%	18.18%	4.55%	11.36%	11.36%	2.27%	6.82%	2.27%	2.27%			
5	الخامس	6	14	10	1	3	0	1	0	0	0	0	35	35	100%
		17.14%	40.00%	28.57%	2.86%	8.57%	0.00%	2.86%	0.00%	0.00%	0.00%	0.00%			

A	A-	B+	B	B-	C+	C	C-	D+	D	F
ممتاز		جيدجدا			جيد			مقبول		راسب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20
10
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-10
النسبة المئوية للنجاح
57.14
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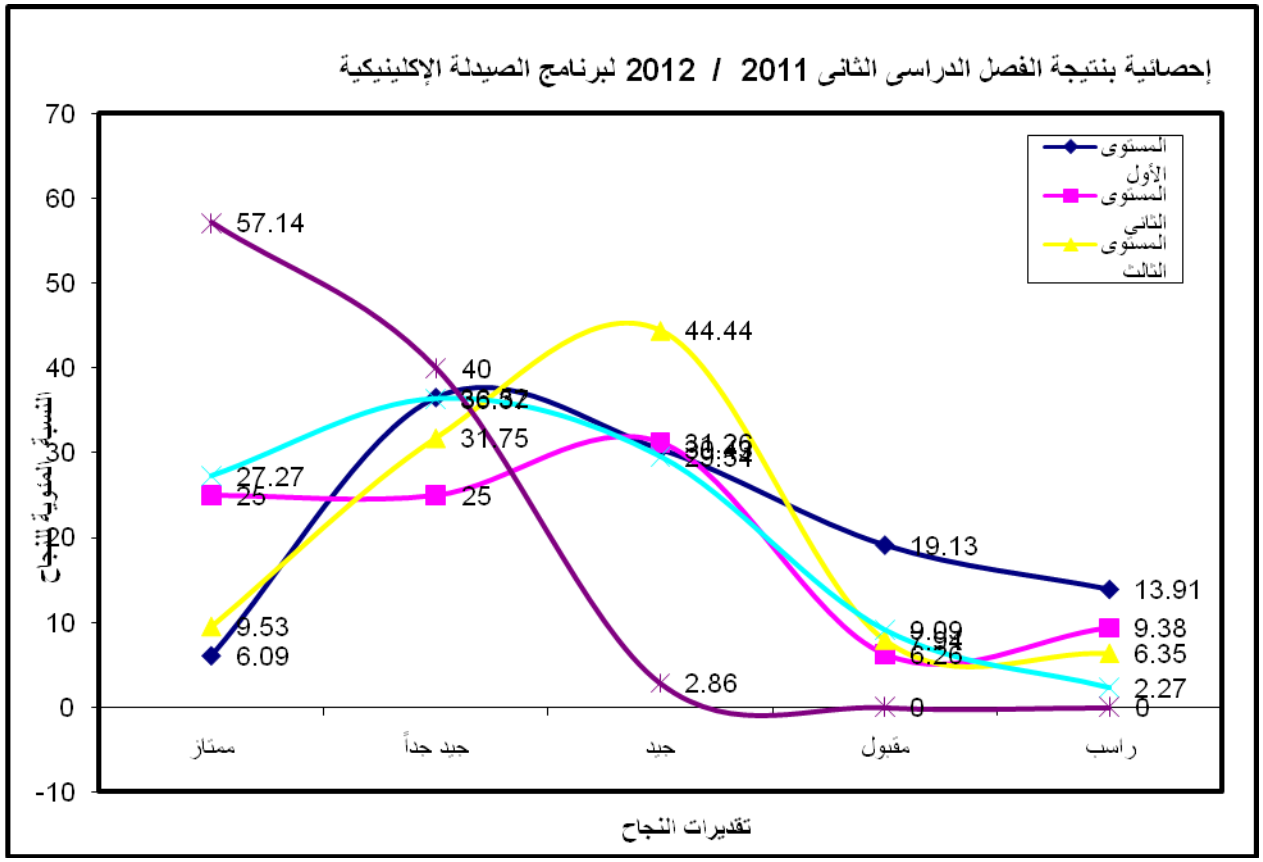
42.19
37.14
34.51
27.9
25.59
24.24
21.216
12.38
12.13
9.38
6.06
5.71
4.60
3.13
0.88
0
ممتاز
جيد جداً
جيد
مقبول
راسب
تقديرات النجاح
المستوى الأول
المستوى الثاني
المستوى الثالث


إحصائية بنتيجة الفصل الدراسى الثانى 2011 / 2012 لبرنامج الصيدلة الإكلينيكية
70
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النسبة المئوية للنجاح
المستوى الأول
المستوى الثاني
المستوى الثالث
57.14
40
36.52
31.75
44.44
27.27
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31.26
29.54
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ممتاز
جيد جداً
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مقبول
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تقديرات النجاح