



Programme Report for Under Graduates

٢٠٠٩-٢٠١٠

Faculty of Pharmacy

٢٠٠٩-٢٠١٠

Educational Programme Report

A- Basic Information:

١. Programme Title: Bachelor of Pharmaceutical Sciences.

٢. Programme type: Single Double Multiple

٣. Departments:

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

Pharmaceutics, Pharmacognosy, Pharmaceutical Medicinal Chemistry, Pharmaceutical Organic Chemistry, Pharmaceutical Analytical Chemistry and Industrial Pharmacy, Clinical Pharmacy (starting from ٢٠١٠/٢٠١١ academic year).

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

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

C- **Departments affiliated to Faculty of Science:**

Botany, Zoology, Physics, Chemistry, and Mathematics

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

English language

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

Psychology

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

Accounting

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

Human rights

٤. Coordinator:

Prof. Dr. Adel F. Youssef (Department of Medicinal Chemistry).

٥- External evaluator (s):

٥. **External Evaluator(s):**

Dr. Aymen Abd El-Hameed Ahamed (Faculty of Science, Sohag University).

٥. **Year of Operation:** Academic year, ٢٠٠٩/٢٠١٠.

B. Statistics

١. Number of students starting the programme:

٣٣٣٥ students were admitted in the academic year ٢٠٠٦/٢٠٠٧ {the year at which the new curriculum started} and ٣٩٦٤ students attended the programme in the

academic year ٢٠٠٩ / ٢٠١٠.

٧. Ratio of students attending the programme this year to those of last year

The number of students attended the programme in the academic year ٢٠٠٩ / ٢٠١٠ were ٣٩٦٤ versus to ٣٣٣٠ in the academic year ٢٠٠٦ / ٢٠٠٧. The ratio is ١,١٩: ١

٨. 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 ٢٠٠٩ / ٢٠١٠.

Year of the programme	No. of registered students	No. passed students	% of passed students
Pre-pharmacy	٩٣٩	٨٩٠	٩٤,٧٨ %
First year	٨٥٧	٧٩٢	٩٢,٤٢ %
Second year (new)	٧٦٩	٧٤٢	٩٦,٤٩ %
Second year (old)	١٦	١٣	٨١,٢٥ %
Third year (new)	٥٨٦	٥٨١	٩٩,١٥ %
Third year (old)	١٢٤	١٠٨	٨٧,١٠ %
Fourth year (old)	٦٧٣	٦١٢	٩٠,٩ %
Total	٣٩٦٤		

٩. Number of students completing the programme:

The programme didn't completed yet, the students are at the second year this year but the programme will be completed at the academic year (٢٠١٠ / ٢٠١١).

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

The following Tables shows the number and percentage of graduates achieving each grade in the academic year ٢٠٠٨ / ٢٠٠٩ and ٢٠٠٩ / ٢٠١٠.

B- Statistics:

٢٠٠٨/٢٠٠٩

Grade	Attended	Absent	Joined exam	Successful students												September exam	Failed	Rejected	% of Passed students
				Excellent		Very good		Good		Passed		Referred students		Total					
				No.	%	No.	%	No.	%	No.	%	No.	%	No.	%				
Pre Pharmacy	٩٨٧	١٤٧	٨٤٠	١٢	١,٤٢	١٧٧	٢١,٠٧	٢٨٧	٣٤,١٦	٦٧	٧,٩٧	٢٩٧	٣٥,٣٥	٨٤٠	٨٥,١	-	١٤٧	١٠	٨٥,١١
First year	٨٠٠	٦٢	٧٣٨	٥٠	٦,٧٧	٢٣٠	٣١,١٦	١٦٤	٢٢,٢٢	٢٥	٣,٣٨	٢٦٩	٣٦,٤٤	٧٣٨	٩٢,٢٥	-	٦٢	٠	٩٢,٢٥
Second year (new)	٦١٨	-	٦١٨	٥٧	٩,٢٢	٢٠١	٣٢,٥٢	١٤٥	٢٣,٤٦	-	-	١٧٩	٢٨,٩٦	٥٨٢	٩٤,١٧	-	٣٦	٠	٩٤,٨٧
Second year (old)	٩٠	-	٩٠	-	-	٢	٢,٢٢	٢٠	٢٢,٢٢	١٦	١٧,٧٧	٣٧	٤١,١١	٨٠	٨٨,٨٨	-	٩	١	٨٨,٨٨
Third year (old)	٦٧٧	٥٠	٦٢٧	٢٥	٣,٩٨	١٧٠	٢٧,١١	٢٧٢	٤٣,٣٨	٣٦	٥,٧٤	١٢٤	١٩,٧٧	٦٣٠	٩٣,١	-	٤٨	٢	٩٢,٦١
Fourth year (old)	٦٩٢	٣٩	٦٥٣	-	-	٥٦	٨,٥٧	٣٩٣	٦٠,١٨	٦٥	٩,٩٥	-	-	٥٩٠	٨٥,٢٦	٦٣	٣٩	٠	٩٤,٣٦
Total	٣٧٧٤	٢٩٨	٣٤٧٦	١٤٤	٤,١٤	٨٣٤	٢٣,٩٩	١٢٦١	٣٦,٢٧	١٩٣	٥,٥٥	٨٦٩	٢٥	٣٣٨٠		٦٣	٣٣٢	١٢	

B- Statistics:

٢٠٠٩/٢٠١٠

Grade	Attended	Absent	Joined exam	Successful students												September exam	Failed	Rejected	% of Passed students
				Excellent		Very good		Good		Passed		Referred students		Total					
				No.	%	No.	%	No.	%	No.	%	No.	%	No.	%				
Pre Pharmacy	٩٣٩	-	٨٩٠	٤٠	٤,٢٦	٢٨٨	٣٠,٦٧	٣٩٣	٤١,٨٠	٢٩	٣,٠٩	١٤٠	١٤,٩١	٨٩٠	٩٤,٧٨	-	٤٩	-	
First year	٨٥٧	-	٨٥٧	٧٧	٨,٩٨	٢٢٩	٢٦,٧٢	٢٧٨	٣٢,٤٤	٥٥	٦,٤٢	١٥٣	١٧,٨٥	٧٩٢	٩٢,٤٢	-	٦٥	-	
Second year (new)	٧٦٩	-	٧٦٩	٥٣	٦,٨٩	٢٤٥	٣١,٨٦	٣٠٧	٣٩,٩٢	٣٠	٣,٩٠	١٠٧	١٣,٩١	٧٤٢	٩٦,٤٩	-	٢٧	-	
Second year (old)	١٦	-	١٦	-	-	-	-	١	٦,٢٥	٥	٣١,٣	٧	٤٣,٧٥	١٣	٨١,٢٥	-	٣	١	
Third year (new)	٥٨٦	-	٥٨٦	٥٤	٩,٢٢	٢٢١	٣٧,٧١	٢٦٣	٤٤,٨٨	١٠	١,٧١	٣٣	٥,٦٣	٥٨١	٩٩	-	٥	-	
Third year (old)	١٢٤	-	١٢٤	-	-	٤	٣,٢٣	٣٧	٢٩,٨٤	٣٠	٢٤,١٩	٣٧	٢٩,٨٤	١٠٨	٨٧,١٠	-	١٦	٣	
Fourth year (old)	٦٧٣	-	٦٧٣	٥١	٧,٦	٢٢٥	٣٣,٤	٢٨٧	٤٢,٦	٤٥	٦,٧	-	-	٦٥٨	٩٧,٧٧	٤٠	١٥	-	
Total																			

٦. 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 like community pharmacies, hospital pharmacies, or pharmaceutical companies. They could also work in different departments of the Ministry of Health and Population, Military Services, universities hospitals or register in any research institute perusing Diploma, Master or Ph.D. degrees. 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. We are in the process of collecting data about alumni employment.

Academic Standards

١- Achievement of programme Intended Learning Outcomes (Table ٣)

Course	Programme ILOs			
	K. U*.	I.S.**	P.S.***	G.T.S****
١/١. Pre-pharmacy Year, First Term				
General Botany	a١, a٤	-	-	d١, d٩, d١٢
Zoology	a١	-	-	d١, d٩, d١٢
Physical Chemistry and Inorganic Chemistry	a١ a١	- -	c٧ c٧	d٩, d١٢ d٩, d١٢
Mathematics and statistics	a١, a١٤	-	-	d١, d٩, d١٢
English Language and Terminology	a١	-	c٤	d١, d١٢
١/٢. Pre-pharmacy Year, Second Term				
Organic Chemistry	a١	-	c٧	d٩, d١٢
Physics	a١, a٣	-	-	d٩, d١٢
Anatomy and Histology	a١ a١	- -	c١٣ c١٣	d٩, d١٢ d٩, d١٢
History of Pharmacy and introduction to pharmacy	a١	-	-	d١٢
Psychology	a١	-	-	d٥, d١٢

Course	Programme ILOs			
	K. U*.	I.S.**	P.S.***	G.T.S****
1/3. First Professional Year, First Term				
Introduction to pharmaceutical dosage forms	a ¹ , a ³ , a ⁴	b ² , b ⁶	c ¹ , c ² , c ¹²	d ¹ , d ² , d ³ , d ⁷ , d ¹² , d ¹³
Pharmacognosy -1	a ¹ , a ⁴	b ¹ , b ⁴	c ⁴ , c ⁹	d ¹ , d ⁹ , d ¹²
Pharmaceutical Organic Chemistry -1	a ¹ , a ⁶	b ³	c ⁷	d ¹ , d ⁹ , d ¹² , d ¹³
Pharmaceutical Analytical Chemistry -1	a ¹ , a ²	b ¹⁴	c ⁷	d ¹ , d ⁹ , d ¹²
Pharmacy administration	a ¹ , a ¹⁰ , a ¹⁸	b ⁸	c ⁶ , c ¹²	d ⁸ , d ¹⁰ , d ¹²
1/4. First Professional Year, Second Term				
Physical Pharmacy -1	a ¹ , a ²	b ² , b ⁶ , b ⁷ , b ⁹	c ¹ , c ² , c ¹²	d ³ , d ⁹ , d ¹² , d ¹³
Pharmacognosy -2	a ¹ , a ⁴	b ¹ , b ⁴	c ⁴ , c ⁹	d ¹ , d ⁹ , d ¹²
Pharmaceutical organic chemistry -2	a ¹ , a ⁶	b ³	c ⁷	d ¹ , d ⁹ , d ¹² , d ¹³
Pharmaceutical Analytical chemistry -2	a ¹ , a ²	b ¹⁴	c ⁷	d ¹ , d ⁹ , d ¹²
Human rights	-	-	-	d ⁷ , d ¹²
Physiology	a ¹ , a ²	b ²	c ⁷	d ¹ , d ⁹ , d ¹²
1/5. Second Professional Year, First Term				
Physical Pharmacy -2	a ¹ , a ²	b ² , b ¹³	c ³	d ¹ , d ⁸ , d ⁹ , d ¹²
Pharmacognosy -3	a ¹ , a ⁴	b ¹ , b ⁴ , b ¹⁴	c ³ , c ⁴ , c ⁹	d ¹ , d ⁹ , d ¹²
Pharmaceutical Organic Chemistry -3	a ¹ , a ⁶	b ³ , b ¹¹	c ⁷	d ¹ , d ⁹ , d ¹² , d ¹³
Applied pharmaceutical and Instrumental analysis -1	a ¹ , a ³ , a ⁶	b ⁴ , b ¹⁴	c ² , c ⁷	d ¹ , d ⁹ , d ¹² , d ¹³
General microbiology and Immunology	a ¹ , a ⁷ , a ¹⁰	b ¹¹ , b ¹²	c ² , c ⁸	d ⁹ , d ¹²

Pharmacy legalization	a ¹ , a ¹⁶	-	-	d ⁷ , d ¹²
Course	Programme ILOs			
	K. U*.	I.S.**	P.S.***	G.T.S****
1/6. Second Professional Year, Second Term				
Pharmaceutics - ¹	a ¹ , a ³	b ¹ , b ⁶ , b ⁹	c ¹	d ¹ , d ⁹ , d ¹²
Pharmacognosy - ^ξ	a ¹ , a ^ξ	b ¹ , b ^ξ , b ^ξ	c ³ , c ^ξ , c ⁹	d ¹ , d ⁹ , d ¹²
Pharmaceutical Organic Chemistry - ^ξ	a ¹ , a ⁶	b ³ , b ¹¹	c ⁷	d ¹ , d ⁹ , d ¹² , d ¹³
Applied pharmaceutical and Instrumental analysis - ²	a ¹ , a ³ , a ⁶	b ^ξ , b ^ξ	c ⁷	d ¹ , d ⁹ , d ¹² , d ¹³
Pharmaceutical Microbiology	a ¹ , a ³ , a ⁷ , a ¹¹ , a ¹³	b ⁷ , b ¹¹ , b ¹²	c ⁸	d ⁹ , d ¹²
Pathology and Parasitology	a ¹ , a ⁸ , a ¹⁰ a ¹ , a ^ξ , a ¹⁰	- b ¹⁰ , b ¹²	- c ⁸	d ¹ , d ¹² , d ¹³ d ¹ , d ⁹ , d ¹²
1/7. Third Year Pharmacy, First Term				
Pharmaceutics- ²	a ¹ , a ² , a ³	b ¹ , b ⁶	c ¹	d ¹ , d ⁹ , d ¹²
Natural Products Chemistry - ¹	a ¹ , a ⁹ , a ⁶	b ¹¹	c ² , c ⁷ , c ⁹	d ¹ , d ⁹ , d ¹² , d ¹³
Medicinal Chemistry - ¹	a ² , a ⁶	b ³ , b ^ξ , b ⁷ , b ¹¹	c ⁷ , c ⁹	d ⁹ , d ¹² , d ¹³
Pharmacology - ¹	a ¹ , a ⁹ , a ¹¹	b ¹ , b ² , b ¹⁰ , b ¹³	c ³	d ² , d ⁹ , d ¹² , d ¹⁵
Biochemistry - ¹	a ¹ , a ⁸ , a ¹⁰	-	c ⁷	d ⁶ , d ⁹ , d ¹¹ , d ¹²
Public health	a ¹ , a ⁷ , a ¹⁰	b ¹²	c ⁸	d ⁹ , d ¹¹ , d ¹² , d ¹³
1/8. Third Year Pharmacy, Second Term				
Bio-pharmaceutics and principles of pharmacokinetics	a ¹ , a ² , a ³ , a ⁹ , a ^ξ	b ¹ , b ⁹ , b ⁷	C ^ξ	d ¹ , d ⁹ , d ¹² , d ¹³
Chemistry of Natural Products - ²	a ¹ , a ⁹ , a ⁶	b ^ξ , b ¹¹ , b ^ξ	c ² , c ⁷ , c ⁹	d ¹ , d ⁸ , d ⁹ , d ¹² , d ¹³
Medicinal Chemistry - ²	a ² , a ⁶ , a ¹¹	b ³ , b ^ξ , b ⁷ , b ¹¹	c ⁷ , c ⁹ , c ¹¹	d ¹ , d ⁸ , d ⁹ , d ¹² , d ¹³
Pharmacology - ²	a ¹ , a ⁹ , a ¹¹	b ¹ , b ² , b ¹⁰ , b ¹³	c ³	d ² , d ⁹ , d ¹² , d ¹⁵
Biochemistry - ²	a ¹ , a ⁸ , a ¹⁰	-	c ² , c ⁷	d ⁶ , d ⁹ , d ¹¹ , d ¹²

Drug Marketing	a١,a١٥, a١٧,a١٨	-	c٦,c١٢	d١٢,d١٤
----------------	-----------------	---	--------	---------

Summer training (٣٠٠ hr)

Course	Programme ILOs			
	K. U*.	I.S.**	P.S.***	G.T.S****
١/٩. Fourth Year Pharmacy, First Term				
Pharmacy Practice and Hospital Pharmacy	a١,a١٢,a١٦	b١,b٢,b٨,b٩, b١٠,b١٣,b١٤	c٤,c٧,c١١,c١٢	d١,d٢,d٣,d٥,d٦,d٧,d٩, d١٠,d١٢,d١٣,d١٥
Applied Pharmacognosy - ١	a١, a٦	b٤,b١١	c٢,c١١	d١,d٩,d١٢,d١٣
Medicinal Chemistry -٣	a٢, a٦, a١١	b٣,b٧,b١١	c٧,c٩,c١١	d١,d٨,d٩,d١٢,d١٣
Industrial Pharmacy -١	a١, a٣	b١١	c١,c٢,c١١	d١,d٩,d١٢,d١٣
Toxicology and Forensic chemistry	a١, a٦,a١١	-	c٣,c١٠,c١١	d٩,d١١,d١٢
First aids	a١,a١١	-	-	d٤,d١١,d١٢
١/١٠. Fourth Year Pharmacy, Second Term				
Clinical Pharmacy	a١,a٣,a١٠,a١٢,a١٦, a١٧,a١٨	b١,b٢,b٨,b٩, b١٠,b١٣,b١٤	c٣,c٤,c٥,c٧,c١١, c١٢	d١,d٢,d٣,d٥,d٦,d٧,d٨, d٩,d١٠,d١٢,d١٣,d١٥
Applied Pharmacognosy - ٢	a١,a٥,a٦,a١٣	b١,b٤,b٨,b١١,b١٤	c٢,c٣,c٥,c٩,c١١	d١,d٣,d٥,d٨,d٩,d١٢
Medicinal Chemistry -٤	a٢,a٦, a١١	b٣,b٤, b٧,b١١	c٧,c٩,c١١	d١,d٨,d٩,d١٢,d١٣
Industrial Pharmacy -٢	a١,a٣,a١٣	b٦,b١١	c١,c٢,c٧,c١١	d١,d٩,d١٢,d١٣
Bioassay and Biostatistics	a١,a٩,a١٤	b٤	c٢,c١٠,c١١	d٢,d٩,d١٢

* Knowledge and Understanding, ** Intellectual Skills, *** Professional and Practical Skills, ****General and Transferable Skills.

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

٢. Achievement of programme aims

The system of external evaluation of the programme has been established by:

a. Prof. Dr. Ahamed Adb ElAziz (Vice Dean of Faculty of Pharmacy, Tanta University).

b- Dr. Maged Abo Hashim (Faculty of Pharmacy, Zagazig University).

c- Dr. Aymen Abd El-Hameed Ahamed (Faculty of Science, Sohag University)

۳. Assessment methods

Improvement of the exam methods, to assess the intellectual skills. A questionnaire filled by external evaluators for each course was conducted to get their opinion on the appropriateness of the assessment methods used with reference to the ILO's.

The students participate in developing the examination scheduling. The Vice-Dean for Educational and Students' Affairs approves and announces the examination schedule after student's agreement.

۴. Student achievement

According to the overall statistics, the percentage of succeeding graduates exceeded ۹۰% 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 from 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

۴. Quality of teaching and learning

The faculty of pharmacy Assiut University aims to graduate highly qualified, competent and competitive pharmacists ready for work in different pharmaceutical positions (community pharmacists, industrial pharmacists, Military pharmacy and hospital pharmacists). 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:

- ١- Lectures are given in the traditional way 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.
- ٢- 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.
- ٣- 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 where each student performs the experiment under direct supervision of laboratory instructors and staff members.
- ٤- 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.
- ٥- 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.

- ٦- 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.
- ٧- 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.
- ٨- 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.
- ٩- 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.
- ١٠- 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.

- ١١- 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.
- ١٢- 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.
- ١٣- Scientific trips. Students of fourth year are encouraged to participate in several trips arranged by the faculty for visiting pharmaceutical industrial companies.
- ١٤- 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.
- ١٥- 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.
- ١٦- 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.

٤,١- 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 (3-5 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.

•- 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 programme. 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.

v. Learning resources

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

(مرفق)

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

(مرفق)

c. Availability and adequacy of programme 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	١١٩٢٦
Total Arabic Books	١٣٢٥
Full Scientific Periodicals	٧٣
Theses	١٥٨٨
Computers	٧
Photocopiers	٢
Microfilm Data show	٣
Microfiche Data show	١
Television and Video	١
Audio Cassette	١

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 programme needs

^. Quality Management

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

Programme 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 (٢٠٠٦) 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 programme 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 ٢٠٠٦-٢٠٠٧, 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. Ahamed Adb ElAziz, Dr. Maged Abo Hashim and Dr. Aymen Abd El-Hameed Ahamed had evaluated the faculty educational programme

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.

iii- Other stakeholders

.....
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 programme, there were some comments in their reports and they were taken in consideration.

Development of the internal auditing system

^ . Proposal for Programme Development

a. Programme 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 ٦١ courses instead of ٣٧ 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.

١٠. 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.

Action Identified	Person responsible	Progress of the action
Activating the external evaluation system for the faculty educational courses	Department Heads	Continuous
Improvement of the student's notebook	Faculty Staff Members	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 summer training, 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 faculty's educational programme	Faculty council & QA Unit	The internal and external evaluation system has been done
Preparing the faculty to obtain the quality management certificate (ISO).	Faculty council & QA Unit	Completed the Internal Auditing System
Development of Faculty central lab.	Vice Dean for community Services & Environmental affairs Vice Dean for Research	Continuous
Development of Pharmaceutical Services Centre	Vice Dean for Research	Continuous
Development of pharmaceutical studies Research centre of Medicinal Plants.	The Dean Head of the Pharmacognosy Department	Continuous
Conducting work shops for students in the course of career development programme Recruitment and Training Committee (RTC).	Vice Dean for Student affairs. Vice Dean for community Services & Environmental affairs	Continuous 100 students achieved the training

١١. Action Plan

The following action plan will be acted upon through out year ٢٠١٠ / ٢٠١١.

Action required	Person responsible	Date of completion
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)	٢٠١٠/٢٠١١
Implementation of a system for better monitoring and improvement of summer training, 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	Continuous
Establishing computerized database in the library.	Vice Dean for Research	٢٠١٠/٢٠١١
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	٢٠١٠/٢٠١١

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 faculty's educational programme	Faculty council & QA Unit	٢٠١٠/٢٠١١
The faculty obtained the quality management certificate (ISO).	Faculty council & QA Unit	٢٠١٠/٢٠١١
Development of Faculty central lab.	Vice Dean for community Services & Environmental affairs Vice Dean for Research	Continuous
Development of Pharmaceutical Services Centre	Vice Dean for Research	٢٠١٠/٢٠١١
Development of pharmaceutical studies Research centre of Medicinal Plants.	The Dean Head of the Pharmacognosy Department	Continuous
Conducting work shops for students in the course of career development programme Recruitment and Training Committee (RTC).	Vice Dean for Student affairs. Vice Dean for community Services & Environmental affairs	Continuous

Programme coordinator

Prof. Dr. / Adel F. Youssef