Program Report

Assiut University Faculty of Pharmacy Quality Assurance and Accreditation Project (QAAP)

Program Report

A- Basic Information.

- \ Program Title : B.Sc. in Pharmaceutical Sciences
- Υ- Year Υ • ٤/Υ • •
- "- Program Type: Single ✓ Double ✓ Multiple ✓
- ٤- Faculty (Faculties): Pharmacy
- o-Department (Departments):
 - **\-** Pharmaceutics
 - **Y- Pharmacognosy**
 - ۳- Pharmaceutical Medicinal Chemistry
 - ٤- Pharmaceutical Organic Chemistry.
 - •- Pharmaceutical Analytical Chemistry.
 - ٦- Industrial Pharmacy
- **7-** Assistant Coordinator
- V- Coordinator: Prof. Dr. Adel Fawzy

B- Statistics:

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		Attended Absent	n	Successful students												ğ			
Grade	ended			Exce	llent	Very	good	Go	od	Pas	sed		erred ents	То	tal	September exam	Failed	Rejected	% of Passed students
	Att	A	Joined	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	Sep	Ħ	Re	% of stu
Pre Pharmacy	٨٩٦	-	٨٩٦	٣٩	٤,٤	197	۲۱, ۹	797	٣٣, ٣	٧٣	۸,۱	777	۲٦, ٣	٨٤٢	9 £	-	٤٩	٥	9 £
First year	777	-	٦٦٧	٩	١,٣	٧٩	۱۱, ۸	717	۳۲,	٧٣	۱۰,	717	۳۲,	098	۸۹,	-	٦٤	٩	۸۹,۱
Second year	707	-	707	۲.	٣,١	170	70, T	700	٣٩,	٤٠	٦,١	١٢٣	۱۸,	٦٠٣	97,	-	٣٩	١.	97,0
Third year	٦٤٨	-	٦٤٨	١٤	۲,۲	۸۳	۱۲,	7.1	۳۱,	٧٥	۱۱, ٦	7.7	٣1, ٣	٥٧٦	۸۸, ۹	-	00	١٧	۸۸,۹
Fourth year	7.9	٧	٦٠٢	٨	١,٣	Λź	۱۳,	707	٤١,	٨٢	17,	-	-	٤٢٧	٧٠,	177	70	٩	٧٠,٩
Total	7577	٧	7270	٩٠	۲,٦	٦.٧	۱۷,	177	۳٥, ۲	757	۹,۹	VV9	۲۲, ٤	٣٠٤٢	۸٧, ۸	177	7 £ 7	٥,	۸۷,۸

B- Statistics:

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	pepue	Attended Absent	Absent	am		Successful students									٦			р		
Grade				sent	sent	Exce	llent	Very	good	Go	od	Pas	sed		erred ents	То	tal	September exam	ailed	Rejected
	Att			Joine	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	Sept	Fe	Rej	% of
Pre Pharmacy	١٠١٨	-	١٠١٨	٤٤	٤,٣	779	77,0	٣٩.	٣٨, ٤	٦٤	٦,٣	۲۰۳	۲۰,۲	97.	97,7	-	٣٨	١.	97,8	
First year	777	-	777	١٨	۲,٥	٩٨	17, ٤	١٨٦	۲٥,٤	٦.	٨,٥	177	TO, A	775	10,1	-	١٠٦	٣	10,1	
Second year	०८६	-	०८६	77	٤,٥	١٣٧	77,0	197	٣٢,٤	٤١	٦,٢	١٣٦	75,5	०٣٦	91,9	-	٤٥	٣	91,9	
Third year	77.	1	77.	١.	١,٥	1.4	10,7	712	٤٣,٣	٦	9,9	10.	77,7	٦١٣	97,9	-	٤٧	1	97,9	
Fourth year	777	1	747	٨	١,٣	١	10,9	779	٤٤,٤	٥٧	٩,١	-	-	2 2 2	٧٠,٣	177	٦٦	ı	٧٠,٣	
Total	٣٦٢٦	ı	۲۲۲۳	١.٦	۲,۹	> • >	19,0	1770	٣٦,٨	7	٧,٩	٧٥٠	۲٠,٧	٣١٨٦	۸٧,٩	177	٣.٢	7	۸٧,٩	

C- Professional Information.

\-Academic standards.

\,\- Adoption of program curriculum to academic standards and aims.

Adoption of program curriculum				0/						
Subject	Lectures	Practical	Total [*]	%						
\(\frac{17,0(\(\gamma\),\\\\)}										
Physical, inorganic and organic chemistry	٨	٦	11	۱۷,٦						
Zoology	٤	٤	٦	٩,٦						
Computer Science	۲	۲	٣	٤,٨						
Physics	٦	٤	٨	۱۲,۸						
Botany	٦	٦	٩	12,2						
English	٤	_	٤	٦,٤						
Organic pharmaceutical chemistry	١.	11	10,0	75,1						
Essentials of mathematics	٤	-	٤	٦,٤						
Psychology	7	-	۲	٣,٢						
Y-Applied Pharmaceutical Sciences	{110(04,.7	(%)}								
Pharmaceutical analytical chemistry	٨	١٤	10	١٣						
Pharmacognosy	٩	17,0	10,70	17,7						
Pharmaceutics	19	77	٣٢	۲٧,٨						
Microbiology	٤	٤	٦	0,7						
Pharmacology	٤	٥	٦,٥	٥,٧						
Phytochemistry	٦	٦	٩	٧,٨						
Biochemistry	٤	٤	٦	0,7						
Pharmaceutical medicinal chemistry	٨	١.	١٣	11,7						
Industrial pharmacy	٤	۲,٥	0,70	٤,٦						
Applied pharmacognosy	٤	٦	٧	٦,١						
▼-Medical Sciences {\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\										
Anatomy	1	١	1,0	11,1						
Histology	١	١	1,0	11,1						
Physiology	٤	-	٤	۲۹,٦						
Pathology	١	١	1,0	11,1						
Biostatistics and Bioassay	٤	۲	٥	٣٧,١						
[£] -Health and environmental Science	es {0(\\ \)	۲٪)}	1							
Parasitology	1	1	١,٥	۱۷,٦						
Public Hygiene	۲	-	۲	77,7						
Toxicology, forensic chemistry and first	,	J.	_							
aid	٤	۲	0	٥٨,٨						
o-Pharmacy management, Marketing	and Phari	nacoeconor	nics {۲()	//)}						
Pharmacy administration	7	-	۲ ۲	1 • •						
٦-Pharmacy Practice**	1	<u> </u>	1	1						
			7.1,0*							
	-	٣٠٠	*							

* المجموع بعد حساب كل ساعتين عملي تكافئ ساعة نظري **الحسابات لا تشمل ساعات التدريب الصيفي

1, Y- Learning outcomes (ILOs) of the completed program.

- **a-Knowledge and Understanding:** having successfully completed this program the graduate should have knowledge about:
- a'- Fundamentals of basic sciences: botany, zoology, physics, mathematics, general and organic chemistry in the level that prepare for sound comprehension of pharmaceutical and medical subjects.
- a⁷- Fundamentals of medical basic sciences.
- a^w- Basic understanding of the physical and chemical properties of the materials that go into industrial manufacture of medicines.
- a²- Physico-chemical aspects of medicines and biological systems, including thermodynamics, chemical kinetics and assessment of chemical and physical stability.
- a°- Disease attributes: microbial, parasitic, viral and of metabolic disorders.
- a[¬]- Normal and abnormal body function: physiology, biochemistry, genetics, microbiology, nutrition, immunology, infective processes, pathology and pathophysiology.
- a^{V} Detailed knowledge about drug formulation , packaging and storage.
- a^{\(\righta\)}- Essentials of pharmacokinetics and bioavailability of medicines.

Understand the following:

- a⁹- Significance of a healthy life style including relevant diet, nutrition, exercise... etc.
- a ' -- Etiology and epidemiology of major diseases

- a''- Profound knowledge of the actions, uses, adverse reactions, and toxicity of medicines.
- a \ \ \ Interactions and abuse of medicines.
- a^{\rapprox-} Absorption, distribution, metabolism and excretion of medicines, including routes of administration, and mathematical modeling
- a \ ξ Properties of medicinal and toxic plants.
- a o- Sources and purification of medicines of synthetic, natural, biotechnology products and excipients.
- a 17- Assay of drugs: chemical, biological and drug monitoring
- a \ \ \ \ Pon-pharmacological approaches for treatment of diseases .
- a \ \(\lambda \- \) The relevant law, ethics, and codes of practice in community and industry .
- a \ 9- Understands the principles of unit operations in drug manufacture.

b-Intellectual Skills:

- b'- Prepare medicines for individual patient use
- by- The ability to advise patients and others on the safe and effective use of medicines
- b^r- Ability to find appropriate methods for directing patient toward enhanced therapeutic efficiency.
- b^{\(\xete\)}- Design, implement, monitor, evaluate, and modify or recommend modifications in drug therapy to insure effective, safe, and economical patient care.
- b°- Identify, assess, and solve medication-related problems,
- b Design and evaluate packaging and labeling processes.
- by- Predict the properties of medicinal agents and their relation to molecular structure

- b^- Recommends, designs, and develops analytical methods applicable for control of biological, chemical, and physical properties and the degradation products of medicines in bulk and in dosage forms.
- b^q- Rational choice of adjuvant/s used for delivery and in formulation of biologically active molecules.
- b' Control of microbial contamination, sterilization processes, and aseptic procedures.
- b''- Ability to integrate information and propose approaches for design of medicinal agents and approaches to their discovery.
- by Applies acquired principles for medicine formulation and systems for medicine delivery in the body.
- b) \(\xi\)- Collaborate with others as active partner in drug research team
- b'o- Rationalize the suitable drug (s) affecting specific diseases related to biochemical disorders.
- b 17 Predict the appropriate medication in critical condition

c- Professional and Practical Skills:

- c\- Evaluates drug orders or prescriptions,
- c^{\gamma-} Accurately and safely compounds package and dispense medicines in appropriate dosage forms.
- c^r- Present oral and written information about drugs and pharmaceuticals.
- c²- Provide supportive clinical services such as drug information, drug surveillance, drug delivery and distribution.

- co- Presentation of medicines-based health care material and arguments clearly and correctly, writhen or orally, to other health professionals and, where appropriate, to lay audiences.
- c[¬]- Cognitive dispensing of dressings, diagnostic systems, medical appliances and devices.
- c^V- Production of pharmacy specific documentation.
- c^- The operation of standard pharmaceutical instrumentation
- c⁹- Skills in the analysis of medicines
- c' The ability to undertake risk assessments concerning pharmaceutical procedures and practices
- c) Clarify the impact of certain clinical analytical reports.

d- General and Transferable Skills:

- d'- Information technology skills, including word processing, spreadsheet use, database use, archiving data and information retrieval through online computer searches, and internet communication.
- d⁷- Calculation of medicine doses and dosage regimens.
- d^{τ} Interpretation of prescriptions and other orders for medicines
- d^{\xi}- Recommend, counsel, and monitor patient use of nonprescription drugs.
- do- Provide emergency first aids.
- d7- Ability to interact effectively with patients, the public and health care professionals; including communication, both written and oral.
- d^V- Critical evaluation, interpretation of pharmaceutical information and data.
- d^- An ethical attitude and approach

- d9- Independent study skills as preparation for continuing professional development.
- d\.- Time management and organization, as evidenced by the ability to plan and implement efficient and effective modes of working.
- d\\- Work in a variety of health care settings: team working, or need to work within personal limitations.

\,\\\- Teaching methods.

Teaching	Programme ILOs (By No.)									
methods	K, U *	IS **	P.S ***	G.T.S ****						
		b ⁷ , b ⁷ , b ² ,	c [£] , c ^V , c ^q ,	d¹, d٢, d٣,						
	a°, a¹, a [∨] , a^,	b°, b ^V , b ^A ,	c1., c11, c17	$d\xi$, $d\circ$, dV ,						
Lecture	a9, a1., a11,	b9, b1., b11,		$d^{\Lambda}, d^{\gamma}, d^{\gamma}$						
	a17, a17, a12,	b17, b10,								
	a10, a17, a14,	річ								
	a11, a19									
	aε, aγ, a ε,	b1, b1, b^	c1, c7, c7, c4,	d۱, d۲, d۳, d٤						
	a10, a17		c9							
Lab										

Knowledge and Understanding

Intellectual Skills

*** **Professional and Practical Skills** ****

General and Transferable Skills

1,7,7- Learning Methods.

Learning	Programme ILOs (By No.)											
methods	K , U *	IS **	P.S ***	G.T.S ****								
		b ⁷ , b ⁷ , b ² ,	c1, c4, c9,	d ^γ , d ^γ , d ^ε ,								
		b^, b٩	c11, c17	do, dv, dA,								
Tutorial				d۱۱								
		b ^r , b ^r , b ^v ,	cr co	d d\								
		b11, b10	, ,	, u								
		0, , 0, 5										
Seminars												
		b°, b1°, b1 £	c ^r	d d d\								
Essay and												
Reports												
	a ^V , a ¹ ^V , a ¹ ^V ,	b1, b7, b٣,	c ⁷ , c ^o , c ^y ,	d ^γ , d ^γ , d ^ξ ,								
	alA	b1 £, b17	c1., c11, c17	d°, d٦, d٧,								
Field				d۱۱								
Training												

* Knowledge and Understanding

** Intellectual Skills

*** Professional and Practical Skills

**** General and Transferable Skills