Program Report

Program Report

Y . . 7 / Y . . V

A- Basic Information.

١ –	Program	Title:	B.Sc.	in p	harmaceutical	S	sciences
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Y- Year Y . . 7/Y . . Y

٤- Faculty (Faculties): Pharmacy

o-Department (Departments):

\- Pharmaceutics

Y- Pharmacognosy

r- Pharmaceutical Medicinal Chemistry

٤- Pharmaceutical Organic Chemistry.

o- Pharmaceutical Analytical Chemistry.

٦- Industrial Pharmacy

7- Assistant Coordinator:

V- Coordinator: Prof. Dr. Adel Fawzy

B- Statistics:B-1

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			В		Successful students										J			р			
Grade	Attended	Absent	Absent	Absent	d exam	Exce	Excellent		ery good Good		od	Passed		Referred students		Total		September exam	Failed	Rejected	% of Passed students
					Al	Joined	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	Sepi	$F_{\mathbf{c}}$	Re
Pre Pharmacy	٨٩٦	-	٨٩٦	٣٩	٤,٤	197	۲۱, ۹	797	٣٣, ٣	٧٣	۸,۱	777	77, ٣	٨٤٢	9 £	-	٤٩	٥	9 £		
First year	777	-	777	٩	١,٣	٧٩	۱۱, ۸	717	۳۲,	٧٣	۱۰,	717	۳۲,	09 £	۸۹,	-	7 £	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,	۲.۱	۳۱,	٧٥	۱۱, ٦	۲۰۳	٣١, ٣	٥٧٦	۸۸, ۹	-	00	١٧	۸۸,۹		
Fourth year	7.9	٧	٦٠٢	٨	١,٣	٨٤	۱۳, ۷	707	٤١,	٨٢	17,	-	-	٤٢٧	٧٠, ٩	171	70	٩	٧٠,٩		
Total	7577	٧	7570	٩,	۲,٦	٦٠٧	۱۷,	177 "	40, 7	٣٤٣	9,9	٧ ٧٩	۲۲, ٤	٣٠٤٢	۸٧,	177	757	٥٠	۸٧,٨		

B- Statistics: B-7

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			В		Successful students											_ ا			eq ,										
Grade	ttended	Absent	osent	osent	sent	sent	sent	sent	sent	osent	sent	sent	ed exam	Excellent		Very good		Good		Passed		Referred students		То	tal	September exam	ailed	ected	Pass dents
	Att		Abs Joined	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	Sept	Fē	Reject	% of stuc										
Pre Pharmacy	١٠١٨	-	١٠١٨	٤٤	٤,٣	779	77,0	٣٩.	٣٨, ٤	٦٤	٦,٣	۲۰۳	7.,7	97.	97,7	-	٣٨	١.	97,8										
First year	777	-	777	١٨	۲,٥	٩٨	17, ٤	١٨٦	40,5	٦.	٨,٥	771	TO, A	775	10,1	-	١٠٦	٣	10,1										
Second year	०८६	1	०८६	77	٤,٥	١٣٧	77,0	197	٣٢,٤	٤١	٦,٢	١٣٦	75,4	०٣٦	91,9	-	٤٥	٣	91,9										
Third year	77.	ı	77.	•	١,٥	1.4	10,7	712	٤٣,٣	7	9,9	10.	۲۲,۸	717	97,9	-	٤٧	ı	97,9										
Fourth year	777	1	777	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	٣٦٢٦	١.٦	۲,۹	Y• Y	19,0	1770	٣٦,٨	7	٧,٩	٧٥,	۲٠,٧	٣١٨٦	۸٧,٩	177	٣٠٢	7	۸٧,٩										

B- Statistics: B-*

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			В					Suc	cessfu	l stud	ents					L			þ	
Grade	Attended	Absent	Absent	ed exam	Exce	Excellent		Very good		Good		Passed		erred lents	То	tal	September exam	Failed	Rejected	% of Passed students
				Joined	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	Sep	H	Re	% of stu
Pre Pharmacy	V19	-	٧١٩	77	٣,٨	۲ • ٤	۲۸,	۲۸.	۳۸, ۹	٤١	٥,٧	171	۱٦, ۸	777	9٣, 7	-	٣٩	٧	9٣,٦	
First year	Y71	-	771	١.	١,٣	97	۱۲,	770	۲۹, ٦	٧٦	9,9	701	۳۲, ۹	709	۸٦, ٦	-	۸٧	10	۸٦,٦	
Second year	٦١٨	-	٦١٨	10	۲,٤	99	١٦	197	۳۱, ۷	٥٧	۹,۲	١٧١	۲۷, ۷	٥٣٨	۸٧,	-	٦٧	١٣	۸۷,۱	
Third year	00,	-	00,	7 £	٤,٤	١١٧	۲۱, ۳	7.7	۳۷,	٣٦	٦,٥	۱۱۷	۲۱, ۳	٥,,	9.,	-	٣١	۱۹	9.,9	
Fourth year	٦٨٧	-	٦٨٧	١٢	١,٧	171	۱۷, ٦	750	٥٠,	٧٦	11,	-	-	005	۸۰,	97	77	١٤	۸۰,٦	
Total	7770	-	7770	۸۸	۲,٦	٦٣٨	19,	170	۳۷,	۲۸٦	۸,٦	77.	۱۹, ۸	7975	۸٧,	97	7 5 7	٦٨	۸٥,٦	

B- Statistics: B-4

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			t am		Successful students														þ									
Grade	Attended	Absent	sent	sent	sent	sent	sent	sent	sent	sent	sent	ex	Exce	ellent	Very good		Good		Passed		Referred students		Total		September exam		Rejected	Passed dents
Si uu			Abse	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	Sept	Fe	Rej	% of									
Pre Pharmacy	٨٤٤	-	Λέξ	۲١	۲,٥	198	۲۲,۹	١٨٨	77,7	٨	٠,٩	٣.٧	٣٦,٤	V1V	٨٤,٩	-	۱۱۳	77	۸٤,٩									
First year	۷۱۳	-	٧١٣	10	۲,۱	179	۱۸,۱	195	۲٧,٢	٦٧	٩,٤	7 £ 7	٣٤,٥	701	91,7	-	٤٦	١٦	91,7									
Second year	٦٦٥	-	770	77"	٣,٥	171	۱۸,۲	707	٣٧,٩	٦٣	9,0	198	۲۹,۲	707	٩٨,٢	-	٣.	٨	٩٨,٢									
Third year	٥٧١	-	٥٧١	19	٣,٣	117	19,7	777	٤٠,٨	77	٥,٨	170	۲۳,٦	٥٣٢	97,7	-	77	10	98,8									
Fourth year	०१४	-	0 £ Y	١.	١,٨	١١٨	۲۱,۸	707	٤٧,٢	٥١	٩,٤	-	-	٤٣٥	۸۰,۳	٦٦	77	١٤	۸٠,٣									
Total	٣٣٣٥		7770	٨٨	17,7	٦٧٣	١٠٠,٦	1177	۱۷٥, ٤	777	٣٥	۸۸۲	177,7	7911	۸۹,٥ ۸	٦٦	757	٧٥	۸۹,٥٨									

C- Professional Information.

\'-Academic standards.

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

Subject	Lectures	Practical	Total*	%								
\\ -Basic Sciences \{\\ \ \\ (\\ \ \\\\\)\}												
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	1 £ , £								
English	٤	-	٤	٦,٤								
Organic pharmaceutical chemistry	١.	11	10,0	۲٤,٨								
Essentials of mathematics	٤	-	٤	٦,٤								
Psychology	۲	-	۲	٣,٢								
Y-Applied Pharmaceutical Sciences {\\o(\o\)	,•٦%)}											
Pharmaceutical analytical chemistry	٨	١٤	10	١٣								
Pharmacognosy	٩	17,0	10,70	۱۳,۳								
Pharmaceutics	19	77	٣٢	۲٧,٨								
Microbiology	٤	٤	7	0,7								
Pharmacology	٤	٥	٦,٥	٥,٧								
Phytochemistry	٦	٦	٩	٧,٨								
Biochemistry	٤	٤	7	0,7								
Pharmaceutical medicinal chemistry	٨	١.	١٣	۱۱,۳								
Industrial pharmacy	٤	۲,٥	0,70	٤,٦								
Applied pharmacognosy	٤	7	٧	٦,١								
\(\tilde{\tau}\) -Medical Sciences \(\tau\omega(\tau\v'\)\)												
Anatomy	١	١	1,0	11,1								
Histology	1	1	1,0	11,1								
Physiology	٤	1	٤	۲۹,٦								
Pathology	1	1	1,0	11,1								
Biostatistics and Bioassay	٤	۲	٥	٣٧,١								
٤-Health and environmental Sciences {٨,٥(٤	, ۲۲%)}											
Parasitology	1	1	1,0	۱۷,٦								
Public Hygiene	۲	-	۲	۲۳,٦								
Toxicology, forensic chemistry and first aid	٤	۲	٥	٥٨,٨								
o-Pharmacy management, Marketing and Pharmacoeconomics {۲(۱٪)}												
Pharmacy administration	۲	-	٢	١								
٦-Pharmacy Practice**												
	-	٣	7.1,0**									

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, computer science, general and organic chemistry, psychology in the level that prepare for sound comprehension of pharmaceutical and medical subjects.
- a⁷- fundamentals of medical basic sciences.
- a^r- basic understanding of the physical and chemical properties of the materials that go into industrial manufacture of medicines and certain medical devices and appliances
- a[£]- physico-chemical aspects of medicines and biological systems, including thermodynamics, chemical kinetics and assessment of chemical and physical stability also.
- a°- disease attributes: microbial, pathogenic, parasitic, viral and of metabolic disorders.
- a¹- normal and abnormal body function: Physiology, Biochemistry, Genetics, Microbiology, Nutrition, Immunology, Infective processes, Histology, 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 and environment.
- a \ \cdot etiology, pathogenesis and epidemiology of major diseases
- a''- profound knowledge of the actions, uses, adverse reactions, and toxicity of medicines.
- a \ \ \ interactions of drugs together or with food and abuse of medicines also.
- a¹ "- absorption, distribution, metabolism and excretion of medicines, including routes of administration, and mathematical modeling
- $a^{1\xi}$ properties roles and limitation of use 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 \ \ \ \ non-pharmacological approaches for treatment of diseases .
- a \ \(\lambda \- \) the relevant law, ethics, and codes of practice in community and industry.
- a¹⁹- understands the principles of unit operations in drug manufacture.
- a⁷ ·- Understand how to scan and express fluently pharmaceutical and medical texts in English.

b- Intellectual Skills:

- b'- prepare medicines for individual patient use
- b^{\gamma-} the ability to advise patients and others about the relationship between human body system safe and effective use of medicines
- b^{\(\pi\)}- Organize the logical thinking to be able to find appropriate methods for directing patient toward enhanced therapeutic efficiency.
- b²- design, implement, monitor, evaluate, and modify or recommend modifications in drug therapy to insure effective, safe, and economical patient care.
- bo- identify, assess, and solve medication and environmental related problems.
- b7- design and evaluate packaging and labeling processes.
- by- predict the properties of medicinal agents and their relation to molecular structure
- b^- Specify, rationalize and develop physical, analytical and microscopical methods applicable for control of biological and chemical products and analysis of medicines in bulk and in dosage forms.
- b9- 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.
- by 1- ability to integrate information and propose approaches for monitoring and design of medicinal agents of different sources.
- by Y- applies acquired principles for medicine formulation and systems for medicine delivery in the body.
- b \ \ \ ability to gather, comprehend, and assesses reliably scientific data.
- b) ξ- collaborate with others as active partner in drug research team
- b\o- Rationalize the suitable drug (s) affecting specific diseases related to biochemical disorders.

c- Professional and Practical Skills:

- c) evaluates drug orders or prescriptions,
- c⁷- 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 in different body organs and systems.
- co- presentation and filing of medicines-based health care material and arguments clearly and correctly, with other health professionals and, where appropriate, to lay audiences.
- c\u00e3- cognitive dispensing of dressings, diagnostic systems, medical appliances and devices.
- c^V- production of pharmacy specific documentation.
- c^- the operation of standard pharmaceutical instrumentation
- c^q- skills in the analysis of medicines, biological sample and statistical treatment and presentation of data.
- c'-- the ability to undertake risk assessments concerning different pharmaceutical preparations.
- 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^{\(\pi\)}- 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^y- critical evaluation, interpretation of pharmaceutical information and data.
- d\u00e3- an ethical attitude and approach
- d⁹- independent study skills and problems solving in groups for continuing professional development.
- d' · · work in a variety of health care settings: team working, or need to work within personal limitations.

\,\,- Teaching methods.

Teaching		Programme IL	Os (By No.)	
methods	K, U *	IS **	P.S ***	G.T.S ****
	a1, a7, a4, a6, a6, a7,	b ⁷ , b ⁸ , b ² , b°,	c ² , c ³ , c ³ , c ¹ , c ¹ ,	d¹, d٢, d٣,
	a ^V , a ^A , a ⁹ , a ¹ , a ¹ ,	b ^v , b ^A , b ⁹ , b ¹ ,	CIT	d٤, d٥, d٧,
Lecture	a17, a18, a12, a10,	b11, b17, b10,		d^{Λ} , d^{γ} , d^{γ}
	a17, a17, a14, a19	b١٦		
T 1	a [£] , a ^V , a ¹ [£] , a ¹ °, a ¹ ⁷	b1, b1, b1	c1, c7, c1, c1, c1	d۱, d۲, d۳, d٤
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 ****
			c1, c4, c9, c11,	dΥ, dΨ, d٤, dο,
Tutorial		b٩	clt	d ^۷ , d ^۸ , d۱۱
		b ⁷ , b ⁷ , b ⁷ , b ¹ ,	cr, co	d۱, d۲
Seminars		bio		
- 1		b°, b1°, b1 £	cr	d١, d٦, d٩
Essay and Reports				
reports				
Field Tasinia	a^{\vee} , a^{\vee} , a^{\vee} ,	b1, b7, b7, b12, b17	c ⁷ , c ⁰ , c ⁷ , c ¹ ,	d ^γ , d ^γ , d ^ε , d°,
Field Training	alA	b١٦	c11, c17	d٦, d٧, d١١

Knowledge and Understanding Intellectual Skills

Professional and Practical Skills General and Transferable Skills ****