



# **Student Guide**

**Academic Year 2023 -2024**

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## **Faculty of Pharmacy Catalogue**

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## The Faculty of Pharmacy:

The Faculty of Pharmacy, Alexandria University, is one of the leading faculties in pharmacy education in Egypt and ranked as **one of the top 200 faculties of pharmacies internationally**. It started as the School of Pharmacy in 1947, as part of the Faculty of Medicine at Farouk, the 1st, University. In November 1956, Law No. 245 was issued to transform the School of Pharmacy into an independent faculty in Alexandria University. Because of the faculty devotion to enhancement of its educational programs to keep up with pace of development in the pharmacy profession, the faculty introduced the “**Bachelor of Pharmacy - PharmD**” and “**Bachelor of Pharmacy - PharmD (Clinical Pharmacy)**” programs in September 2019. During recent years the faculty started taking steps towards institutional accreditation and accreditation of educational programs in accordance with the standards of “The National Authority for Quality Assurance and Accreditation of Education – NAQAAE”. The faculty was awarded the accreditation by Resolution No. 155 dated 27/6/2016 from NAQAAE and this accreditation was renewed in 2021.

### Vision:

Achieving excellence in pharmacy education and practice both regionally and globally.

### Mission:

The Faculty of Pharmacy at Alexandria University is committed to provide the regional community with distinguished pharmacists; scientifically, professionally and ethically, capable of promoting the healthcare system and pharmaceutical industries via excellent education, endorsing innovation, scientific research and entrepreneurship as well as social engagement.

### Values:

- 1- Providing an environment that supports innovation, scientific research and entrepreneurship.
- 2- Commitment to quality standards in education and scientific research and application of academic reference standards.
- 3- Commitment to equality and non-discrimination between faculty members, the support staff, students and workers.
- 4- Respect, mutual trust, honesty, and academic and professional integrity.
- 5- Commitment to team spirit and the ability to work together.
- 6- Commitment to university ethics and scientific research, and commitment to intellectual property rights and copyright.
- 7- Supporting intellectual freedom in the context of societal responsibility, respecting others, and promoting a culture of tolerance

**Student code of conduct:** Kindly refer to the university website.

<https://www.alexu.edu.eg/index.php/2015-11-18-11-10-16/students-services/%D9%85%D9%8A%D8%AB%D8%A7%D9%82-%D8%A7%D9%84%D8%B7%D8%A7%D9%84%D8%A8-%D8%A7%D9%84%D8%AC%D8%A7%D9%85%D8%B9%D9%89>

## Administration

**Dean:** Prof. Mervat Amin Kassem – Prof. of Microbiology and Immunology

**Vice Dean for Education and Students Affairs:** Prof. Hanan El-Gowell - Prof. of Pharmacology and Toxicology

**Vice Dean for Graduate Studies and Research:** Prof. Hala Mostafa – Prof. of Pharmacognosy

**Vice Dean for Community Service and Environmental Development:** Prof. Sherif Rostom - Prof. of medicinal Chemistry

### Contact Information

Address: 1 Khartoum Square, Azarita, Alexandria, Egypt. Postal Code 21521

Phone: +2-03- 4871 351, +2-03-48871 317, +2-03-4869 052

Fax: +2-03-4873 273



## Departments:

#	Department	Chairperson
01	Pharmaceutics	Prof. Amal El Kamel
02	Pharmacology and Toxicology	Prof. Sahar El Gowilly
03	Industrial Pharmacy	Prof. Nazik El Gindy
04	Microbiology and Immunology	Prof. Azza Zakaria
05	Pharmaceutical Chemistry	Prof. Mona Hany
06	Pharmacognosy	Prof. Eman Shawky
07	Pharmaceutical Analytical Chemistry	Prof Hadir Maher
08	Pharmaceutical Biochemistry	Prof. Ahmed Wahid
09	Clinical Pharmacy and Pharmacy Practice and	Dr. Noha Alaa

## Programs:

### Bachelor of Pharmacy- PharmD Program:

**Program Director:** Dr. Heba Kamal Ashour, Department of Pharmaceutical Analytical Chemistry.

**Program Coordinator:** Dr. Mustafa Alseqely, Department of Microbiology and Immunology

**Program Secretary:** Randa Mohamed Abo Al-Azm – Student Affairs

### Bachelor of Pharmacy- PharmD (Clinical Pharmacy) Program:

**Program Director:** Dr. Mustafa Alseqely, Lecturer, Department of Microbiology and Immunology

**Program Coordinator:** Prof. Heba Abdeen – Department of Pharmaceutical Analytical Chemistry.

**Program Secretary:** Engy Ahmed Ismail – Student Affairs

## Location:

The faculty is in the Medical Campus in Sutan Hussein street, – Khartoum square – Azarita in Alexandria City Center. This is an incredibly unique location in Alexandria surrounded by gardens, shopping areas and cultural places.













## Facilities:

The faculty is composed of 3 buildings in the **medical campus**. Two of them are educational, which are the old building (A) composed of 6 floors and the new building (B) composed of 9 floors. In addition to an administrative building of 4 floors, in addition to sports courts and the main university hospital.

### Old Building (A):

Ground floor:	Prof. Ibrahim Rushdy Theatre Industrial pharmacy department wet lab Mock Pharmacy
First floor:	Pharmaceutics department students' wet lab A Pharmaceutics department students' wet lab B
Second floor:	Pharmaceutical analytical chemistry Instrumental Lab Pharmaceutical chemistry department student's lab
Third floor:	Pharmacognosy department student microscope lab A Pharmacognosy department student microscope lab B Pharmacognosy department computer lab
Fourth floor:	Prof. Rashida Zatoun Observation Theatre Pharmacology & Toxicology department students' wet lab Vice Dean for Education and Students' Affair Office Vice Dean for Community Service and Environmental Development Office Measurement and Assessment Unit (MAU) ADIP Unit
Fifth floor:	Prof. Mohamed Mutawa Theatre Pharmacology and Toxicology department simulation lab Microbiology wet Lab Organic Chemistry
Sixth floor:	Library Conference Hall Classroom

### New Building (B):

Ground floor:	Prof. Nawal Khalfallah classroom Prof. Abdel Rahim Gazal classroom Mohamed Elbahtimy classroom Computer Lab A) Computer Lab B
First floor:	Dean Office Vice Dean for Graduates and Research Office Clinical Pharmacy Office International Students Office Round table class Quality Assurance Unit (QAU)
Second floor:	Clinical Pharmacy and Pharmacy Practice department Clinic
Third floor:	Theatre A Pharmaceutics Wet Lab Pharmaceutics Computer Lab
Fourth floor:	Pharmaceutical Chemistry Wet Lab

	Pharmaceutical Chemistry Computer Lab
Fifth floor:	Theatre B Pharmacognosy Wet Lab
Sixth floor:	Classroom A Analytical Chemistry Wet Lab
Seventh floor:	Pharmacology/Biochemistry Wet Lab
Eighth floor:	Classroom B Microbiology Wet Lab

**Administrative Services Building:**

Ground floor:	Students' Affairs Office Alumni Office
First floor:	Postgraduate Office
Second floor:	Academic and Non-academic staff Administrative Affairs Faculty Director Office
Third floor:	Youth Care Office Pharmacists Syndicate Office
Fourth floor:	Students Activity Hall







**12 Lecture Halls**



**29 Labs  
Students & Research Labs**

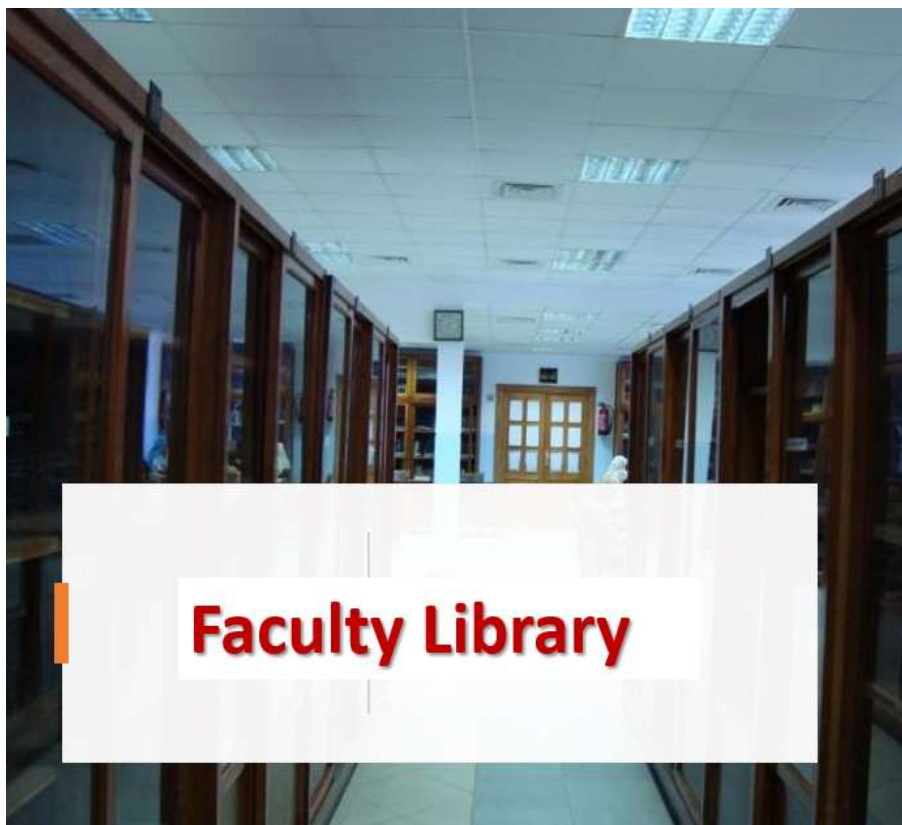


## Mock Pharmacy





## Libraries



### General University Facilities:







<https://housing.alexu.edu.eg/index.php>

## Student Affairs

### Department duties:

1. Receive the lists of nominated students from the General Administration of Student Affairs
2. Receive the student's documents (high school certificate - birth certificate - 6 personal photos - a copy of the National ID card or passport - a copy of the nomination letter from SCU - result of the student's medical exam)
3. Compile and keep the student file.
4. Calculate the tuition fees and follow up its payment procedures.
5. Issue transcripts, residency sheet for university dorms, and student ID cards.
6. Prepare the semester calendar and exam schedules.
7. Manage student excuses (medical – social)
8. Follow up on the implementation of the decisions of the Faculty Council, the University Council and the Supreme Council of Universities with regard to students.
9. Revise and stamp forms concerning students' personal data including national ID or passport, nomination forms in the Student Union, certificate of good conduct for students, and students transfer request to and from the faculty.
10. Issue the health insurance booklet of the students and supervise medical excuses authorized by the Students' Hospital.

### Egyptian student transfers:

#### Transfer to level 1:

The student's grade in the senior school should fulfill the minimum requirements of the pharmaceutical sector for the year of earning the senior school certificate. The student should have residence within the geographical area of Alexandria governorate to be transferred to the PharmD program. This geographical condition does not apply from PharmD (clinical) program.

#### Transfer to higher levels:

The Faculty of Pharmacy at Alexandria university accept students with minimum cGPA 3 to be transferred from other pharmacy schools inside or outside Egypt to higher levels in our programs. The student should have residence within the geographical area of Alexandria governorate to be transferred to the PharmD program. This geographical condition does not apply from PharmD (clinical) program.

### International student transfers:

For international students transfer, the request has to be processed centrally from the Ministry of Higher Education. All the students document revision and acceptance are authorized by the Ministry of Higher Education main office in Cairo.

### Student's faculty identity card:

1. After completing the registration procedures, a personal identification card is issued by the Students' Affairs for each student
2. Each student who has paid the due fees is given a faculty card that contains his/her name, serial number, date of faculty entry. In addition to the student picture. This card must be presented in every university matter. The student may be given another card if it is lost or damaged.

### Medical insurance

Being a public University, all Alexandria University students have medical insurance that covers all health concerns except for dentistry. The Students' Hospital as well as all other hospitals in the university oversees all medical issues concerning our students including major surgeries when needed. For referral to the Students' Hospital kindly go first to the faculty clinic. At the faculty clinic your conditions will be assessed by a physician who will refer you as needed to the appropriate specialty in the Students' Hospital.

### Military service:

For male Egyptian student, kindly refer to the Student Affairs office to get details concerning your mandatory military services, as well as procedures for deferral or exemption.



### Student appeals, complaints, and suggestions:

**Student appeal:** for appeals concerning any course work or final grade, kindly, fill out a form at the Students Affairs department.

**Complains or suggestions:** kindly refer to the secretary of the office of the Vice Dean for Educational and Students' Affairs.

### Youth Welfare

#### Department duties:

**Sports:**

- 1- Organize sports teams
- 2- Organize internal and external sports competitions
- 3- Organize participation in university tournaments and leagues

**Social activities:**

- 1- Organize documentation process for financial aid for students.
- 2- Organize assistances for students with special needs
- 3- Organize charity days, conveys, blood donation campaigns, job fairs.
- 4- Organize entertainment trips,
- 5- Organize visits to orphanages and elderly houses
- 6- Organize social competitions
- 7- Supervise scout and public service projects inside and outside the faculty
- 8- Supervise families (an activity resembling fraternity abroad)

**Cultural activities:**

- 1- Organize cultural activities such as the international cultural day.
- 2- Organize cultural seminars, and open lectures.
- 3- Organize cultural competitions
- 4- Supervise the theatre team activities
- 5- Organize artistic activity such as painting, music and art competitions and exhibitions
- 6- Organize cultural trips to museums, libraries and cultural sites

**Scientific activities:**

- 1- Organize science competitions.
- 2- Organize scientific seminars and open lectures
- 3- Organize scientific trips

#### Student's financial aid:

Dear student, if you are in need for financial support, kindly refer to the Youth Welfare at the third floor in the administrative building. All services are offered in complete confidentiality. You have to fill out a form and present the documents needed for the social status report. These documents include your parents' monthly income and the number and age of your brothers and sisters and their marital status. Copies of the birth certificates of your brothers and sisters are also needed.

#### The student' Union:

The Faculty of Pharmacy Student Union represents the interests, needs, and concerns of the student body to the administration, and staff members in the faculty. The elected president of the faculty student union as well as the vice presidents are members of the General Student Union of the University. Elected members of the student union advocate for student welfare, and concerns on various issues such as academic policies, campus facilities, tuition fees, and student services. They also organize and oversee a variety of extracurricular activities, and events as part of the Youth Welfare department activities aimed at enhancing student life and providing recreational and cultural opportunities. Participation in the student union whether as a member or a volunteer provides opportunities for students to develop leadership skills, gain experience in governance and decision-making, and participate in democratic processes through student elections. All activities of the student union are under the supervision of the department of Youth Welfare.

For details on how to join the student union through elections as a member or as a volunteer, kindly refer to the Youth Welfare department. Students who have been punished for misconduct or failed in courses are not eligible to run for student union elections.

#### **Structure of Student Union Council:**

1. President of the Faculty Students Union.
2. Vice-President of the Faculty Federation.
3. Secretaries of the Seven Committees of Activities at the Faculty Level.
4. Assistant Secretaries of the Seven Committees of Activities at the Faculty Level.

#### **Committees of the student union:**

The Faculty Student Union performs various activities through its committees:

- 1- **The Sports Committee:** It organizes and encourages sports activities, the formation of sports teams and the organization of sports competitions to develop athletic talents.
- 2- **The Social Committee:** It organizes trips and social events with the aim of developing social ties, promoting a spirit of cooperation among students, faculty staff, and providing social support to those who need it.
- 3- **The Families Committee:** It is responsible for encouraging the formation of families, supporting their activities in all fields, and coordinating them, and providing support for student initiatives and campaigns.
- 4- **The Cultural Committee:** It organizes cultural activities and promotes awareness of national issues in order to strengthen the concepts of citizenship and democracy, promote a culture of human rights, community participation and public work.
- 5- **The Art Committee:** it organizes art activities for students with develop their talents and refining their artistic creations
- 6- **The Public Service Committee:** It is responsible for supporting the Scout and participating in public service projects to serve the environment and society.
- 7- **The Scientific Committee:** It organizes scientific seminars and lectures with the aim of developing scientific and technological capabilities and disseminating knowledge in production and application through science clubs and scientific societies.

#### **Egyptian Pharmaceutical Students' Federation (EPSF):**

This is an independent student organization representing about 85,000 pharmacy students in 37 pharmacy schools all over Egypt. It works under the supervision of the Egyptian Pharmacist Syndicate. EPSF was initially established in January 1982 with six pharmacy schools, which are: (1) Alexandria University, (2) Assiut University, (3) Al-Azhar University, (4) Cairo University, (5) Tanta University, and (6) Zagazig University. Since 1982 EPSF has also been a Full Member organization representing Egypt in the International Pharmaceutical Students' Federation (IPSF). For more details visit <https://www.facebook.com/EPSFAlex/>

#### **Alexandria Scientific Pharmaceutical Students' Association (ASPSA)**

This scientific association was established at the Faculty of Pharmacy, University of Alexandria, in 1982 to promote the level of the pharmacy profession in Egypt. It is a member of the Egyptian Union of Pharmacy Faculty Students, which is also a member of IPSF. For more details visit <https://www.facebook.com/ASPSA.Egypt/>















## Overview of the Academic Undergraduate Programs

### Bachelor of Pharmacy – Pharm D

The student gains greater exposure to pharmaceutical sciences courses such as chemistry, pharmaceuticals, drug formulation, and drug manufacturing to be able to work in **the pharmaceutical industries** as well as in community pharmacies, regulatory authorities, marketing, research ..etc.

The number of credit hours is 175 credit hours (167 compulsory hours + 8 hours of elective courses chosen from the list determined by the college), in addition to university requirements. For further details refer to the program bylaws on the faculty web site.

<https://pharmacy.alexu.edu.eg/index.php/academic-programs/under-graduate/pharm-d>

### Bachelor of Pharmacy – Pharm D (Clinical Pharmacy)

The student obtains a greater exposure to clinical courses to be able to work as a **clinical pharmacist in hospital** as part of the medical team as well as in community pharmacies, regulatory authorities, marketing, research ..etc..

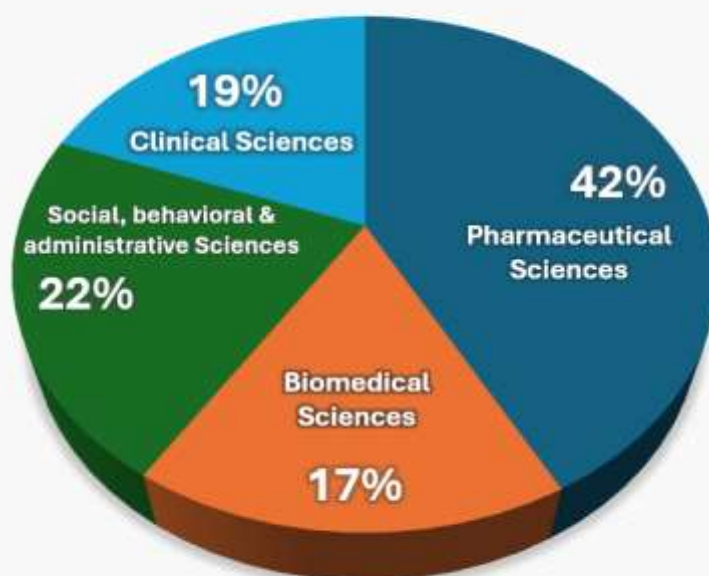
Number of credit hours: 177 credit hours (169 compulsory hours + 8 hours of elective courses chosen from the list determined by the college), in addition to university requirements. For further details refer to the program bylaws on the faculty web site.

<https://pharmacy.alexu.edu.eg/index.php/academic-programs/under-graduate/clinical-pharm-d>

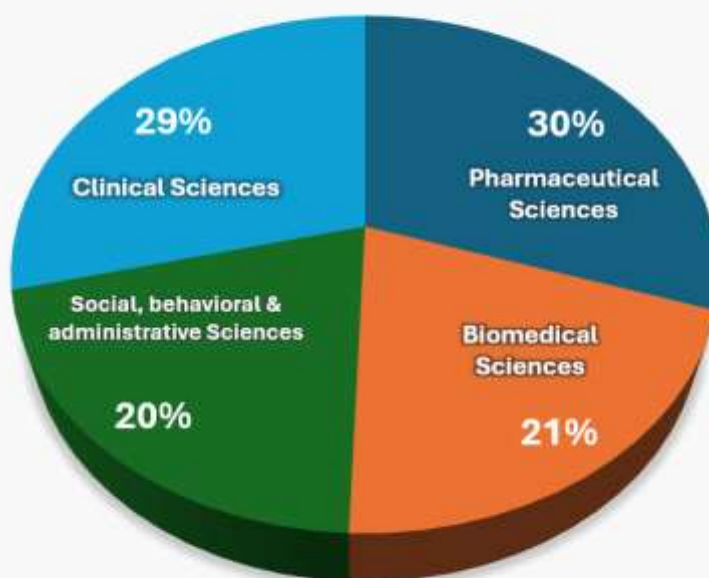
#	Graduate Attributes	Depth of Acquisition PharmD	Depth of Acquisition PharmD (Clinical)
1	Educate and counsel individuals and communities concerning the optimum use of medication to optimize the therapeutic outcomes and minimizing the incidence of illness of individuals and population in the community	Adequate	Superior
2	Practice and perform responsibilities legally, professionally, and ethically respecting patients' rights.	Superior	Superior
3	Utilize evidence-based data in formulation of pharmaceuticals.	Superior	Superior
4	Participate actively in drug manufacturing and assure the quality of pharmaceutical materials and products.	Superior	Adequate
5	Apply integrated evidence-based pharmaceutical and clinical information in assessing the appropriateness, effectiveness, and safety of medications.	Adequate	Superior
6	Contribute effectively to planning and conducting research using appropriate methodologies.	Adequate	Adequate
7	Work collaboratively and share therapeutic decision-making as a member of an inter- professional healthcare team.	Adequate	Superior
8	Demonstrate effective communication, leadership, business administration, and entrepreneurial skills.	Adequate	Adequate
9	Work as a life-long learner for continuous professional improvement and demonstrate capabilities of performance appraisal and self-assessment.	Superior	Superior



**PharmD: Distribution of Course & Training Across Different Sciences**



**PharmD-Clinical: Distribution of Course & Training Across Different Sciences**



## Bachelor of Pharmacy - PharmD

A. Program duration: (5 + 1) Years

B. Programs' Structure:

Total number of credit hour to fulfill the Bachelor of Pharmacy (PharmD) degree requirement					
Category	University Requirements		Pharmacy Mandatory Requirements	Pharmacy Elective Requirements	Total
	UC	UE			
Credit hours	6	8	167	8	189

UC = compulsory credited university requirement

UE = University elective course

Training is divided into:

- **Introductory Pharmacy Practice Experience (IPPE):** 100 hours of training following level 3 or 4 provided that the student has passed community pharmacy training course successfully.
- **Advanced Pharmacy Practice Experience (APPE):** 36 weeks of training after completely level 5 divided into 5 rounds each for 6 weeks in addition to the graduation project.

## C. Program Levels

Study Level	Mandatory Credit Hours	Elective Credit Hours	Total Credit Hours
Level 1:	34	0	34
Level 2:	37	2	39
Level 3:	36	2	38
Level 4:	36	6	42
Level 5:	30	6	36
Total	173	16	189

## Courses Codes

Each course in the program has a code consisting of nine digits. Each part of the code has a special significance as shown in the following example: The Course of Pharmaceutical Analytical Chemistry-I follows the Department of Pharmaceutical Analytical Chemistry and is the first course in the arrangement of courses offered by the Department of Pharmaceutical Analytical Chemistry for the first academic level and is expressed in the code 02-06-07-101.

Alexandria University Code	Faculty of Pharmacy Code	Academic Department Code	Study level	Couse Code
02 -	06 -	07 -	1	01



## D. Bachelor of Pharmacy – PharmD Study Plan

### Semester (1)

#	Course Title	Course Code	Credit Hours			Prerequisite	Examination Marks				Total Marks	Final Exam. Hours
			Lect.	P/T	Total		Period.	P/T.	Wr.	Oral		
1	Pharmaceutical Analytical Chemistry I	02-06-07101	2	1	3	None	15	25	50	10	100	2
2	Pharmaceutical Organic Chemistry I	02-06-05101	2	1	3	None	15	25	50	10	100	2
3	Pharmacy Orientation	02-06-09101	1	---	1	None	25	--	75	--	100	1
4	Medicinal Plants	02-06-06101	2	1	3	None	15	25	50	10	100	2
5	Medical Terminology	02-06-02101	1	---	1	None	25	--	75	--	100	1
6	Information Technology	02-06-00101	1	1	2	None	15	25	60	---	100	1
7	Mathematics	02-06-00102	1	---	1	None	25	--	75	--	100	1
8	Social Issues *	02-00-00003	1	1	2	None	--	50	50	--	100	1
	Total		10	4	14						700	

**Lect.** = Lecture, **Period.** = Periodical exam, **P/T** = Practical / Tutorial, **Wr.** = Written exam, \* **University Requirements**

## Semester (2)

#	Course Title	Course Code	Credit Hours			Prerequisite	Examination Marks				Total Marks	Final Exam. Hours
			Lect	P/T	Total		Period.	P/T	Wr	Oral		
1	Pharmaceutical Analytical Chemistry II	02-06-07102	2	1	3	Pharmaceutical Analytical Chemistry I	15	25	50	10	100	2
2	Pharmaceutical Organic Chemistry II	02-06-05102	2	1	3	Pharmaceutical Organic Chemistry-I	15	25	50	10	100	2
3	Cell Biology	02-06-08101	1	1	2	None	15	25	50	10	100	1
4	Human Anatomy & Histology	02-06-02102	2	1	3	None	15	25	60	-	100	2
5	Physical Pharmacy	02-06-01101	2	1	3	None	15	25	50	10	100	2
6	Pharmacognosy I	02-06-06102	2	1	3	Medicinal Plants	15	25	50	10	100	2
7	Psychology	02-06-09102	1	--	1	None	25	--	75	--	100	1
	Total		12	6	18						700	



### Semester (3)

#	Course Title	Course Code	Credit Hours			Prerequisite	Examination Marks				Total Marks	Final Exam. Hours
			Lect.	P/T	Total		Period.	P/T.	Wr.	Oral		
1	Pharmaceutical Analytical Chemistry III	02-06-07203	1	1	2	Pharmaceutical Analytical Chemistry-II	15	25	50	10	100	1
2	Pharmaceutical Organic Chemistry III	02-06-05203	2	1	3	Pharmaceutical Organic Chemistry-II	15	25	50	10	100	2
3	Pharmacognosy II	02-06-06203	2	1	3	Medicinal Plants	15	25	50	10	100	2
4	Physiology and Pathophysiology	02-06-02203	2	1	3	None	15	25	50	10	100	2
5	Pharmaceutics I	02-06-01202	2	1	3	Physical Pharmacy	15	25	50	10	100	2
6	Biochemistry I	02-06-08202	2	1	3	None	15	25	50	10	100	2
7	Critical Thinking *	02-00-00002	2	---	2	None	40	---	60	---	100	2
	Total		11	6	17						600	

## Semester (4)

#	Course Title	Course Code	Credit Hours			Prerequisite	Examination Marks				Total Marks	Final Exam. Hours
			Lect.	P/T	Total		Period	P/T.	Wr.	Oral		
1	General Microbiology & Immunology	02-06-04201	2	1	3	None	15	25	50	10	100	2
2	Instrumental Analysis	02-06-07204	2	1	3	Pharmaceutical Analytical Chemistry III	15	25	50	10	100	2
3	Pathology	02-06-04202	1	1	2	Human Anatomy & Histology	15	25	50	10	100	1
4	Pharmaceutics II	02-06-01203	2	1	3	Physical Pharmacy	15	25	50	10	100	2
5	Synthesis and Spectroscopic analysis of organic compounds	02-06-05204	1	1	2	Pharmaceutical Organic Chemistry III	15	25	60	--	100	1
6	Biostatistics & Evidence-based Medicine	02-06-09203	1	1	2	Mathematics	15	25	60	--	100	1
7	Biochemistry II	02-06-08203	2	1	3	Biochemistry-I	15	25	50	10	100	2
8	University Elective*	02-XX-XXXXX	2	--	2	None	40	--	60	--	100	2
	Total		11	7	18						700	



## Semester (5)

#	Course Title	Course Code	Credit Hours			Prerequisite	Examination Marks				Total Marks	Final Exam. Hours
			Lect.	P/T	Total		Period.	P/T.	Wr.	Oral		
1	Pharmaceutical Microbiology	02-06-04302	2	1	3	General Microbiology and Immunology	15	25	50	10	100	2
2	Phytochemistry I	02-06-06304	2	1	3	None	15	25	50	10	100	2
3	Pharmaceutics III	02-06-01304	2	1	3	Physical Pharmacy	15	25	50	10	100	2
4	Scientific Writing and Communication skills	02-06-09304	1	1	2	None	15	25	50	10	100	1
5	Drug Information	02-06-09305	1	1	2	None	15	25	50	10	100	1
6	Drug Design	02-06-05305	1	1	2	Pharmaceutical Organic Chemistry III	15	25	60	--	100	1
7	Basic Pharmacology	02-06-02305	2	1	3	Physiology & Pathophysiology	15	25	50	10	100	2
	Total		11	7	18						700	

## Semester (6)

#	Course Title	Course Code	Credit Hours			Prerequisite	Examination Marks				Total Marks	Final Exam. Hours
			Lect.	P/T	Total		Period.	P/T.	Wr.	Oral		
1	Parasitology and Virology	02-06-04303	2	1	3	None	15	25	50	10	100	2
2	Community Pharmacy Practice	02-06-09306	2	1	3	Pharmacy Orientation	15	25	50	10	100	2
3	Phytochemistry II	02-06-06305	2	1	3	Phytochemistry-I	15	25	50	10	100	2
4	Pharmaceutics IV	02-06-01305	2	1	3	Physical Pharmacy	15	25	50	10	100	2
5	Medicinal Chemistry I	02-06-05306	2	1	3	Pharmaceutical Organic Chemistry III	15	25	50	10	100	2
6	Pharmacology & Pharmacotherapeutics I	02-06-02306	2	1	3	Basic Pharmacology	15	25	50	10	100	2
7	University Elective*	02-XX-XXXXX	2	--	2	None	40	--	60	--	100	2
	Total		12	6	18						600	



## Semester (7)

#	Course Title	Course Code	Credit Hours			Prerequisite	Examination Marks				Total Marks	Final Exam. Hours
			Lect.	P/T	Total		Period.	P/T.	Wr.	Oral		
1	Medical Microbiology	02-06-04404	2	1	3	Pharmaceutical Microbiology	15	25	50	10	100	2
2	Biopharmaceutics and Pharmacokinetics	02-06-01406	2	1	3	Pharmaceutics III	15	25	50	10	100	2
3	Clinical Biochemistry	02-06-08404	2	1	3	Biochemistry-II	15	25	50	10	100	2
4	First Aid	02-06-02407	1	1	2	None	15	25	50	10	100	1
5	Pharmacy Legislations and Professional Ethics	02-06-09407	1	--	1	None	25	--	75	--	100	1
6	Medicinal Chemistry II	02-06-05407	2	1	3	Pharmaceutical Organic Chemistry III	15	25	50	10	100	2
7	Pharmacology & Pharmacotherapeutics II	02-06-02408	2	1	3	Basic Pharmacology	15	25	50	10	100	2
8	Faculty Elective	02-06-0XEXX	1	1	2	None	15	25	60	---	100	1
	Total		13	7	20						800	

## Semester (8)

#	Course Title	Course Code	Credit Hours			Prerequisite	Examination Marks				Total Marks	Final Exam. Hours
			Lect.	P/T	Total		Period	P/T	Wr	Oral		
1	Clinical Pharmacokinetics	02-06-09408	2	1	3	Biopharmaceutics & Pharmacokinetics	15	25	50	10	100	2
2	Pharmaceutical Technology I	02-06-03401	2	1	3	Physical Pharmacy	15	25	50	10	100	2
3	Phytotherapy	02-06-06406	2	1	3	Phytochemistry-II	15	25	50	10	100	2
4	Toxicology & Forensic Chemistry	02-06-02409	2	1	3	Basic Pharmacology	15	25	50	10	100	2
5	Medicinal Chemistry III	02-06-05408	2	1	3	Pharmaceutical Organic Chemistry III	15	25	50	10	100	2
6	Pharmacology & Pharmacotherapeutics III	02-06-02410	2	1	3	Basic Pharmacology	15	25	50	10	100	2
7	Faculty Elective	02-06-0XEXX	1	1	2	None	15	25	60	---	100	1
8	University Elective*	02-XX-XXXXX	2	--	2	None	40	--	60	--	100	2
	Total		13	7	20						700	



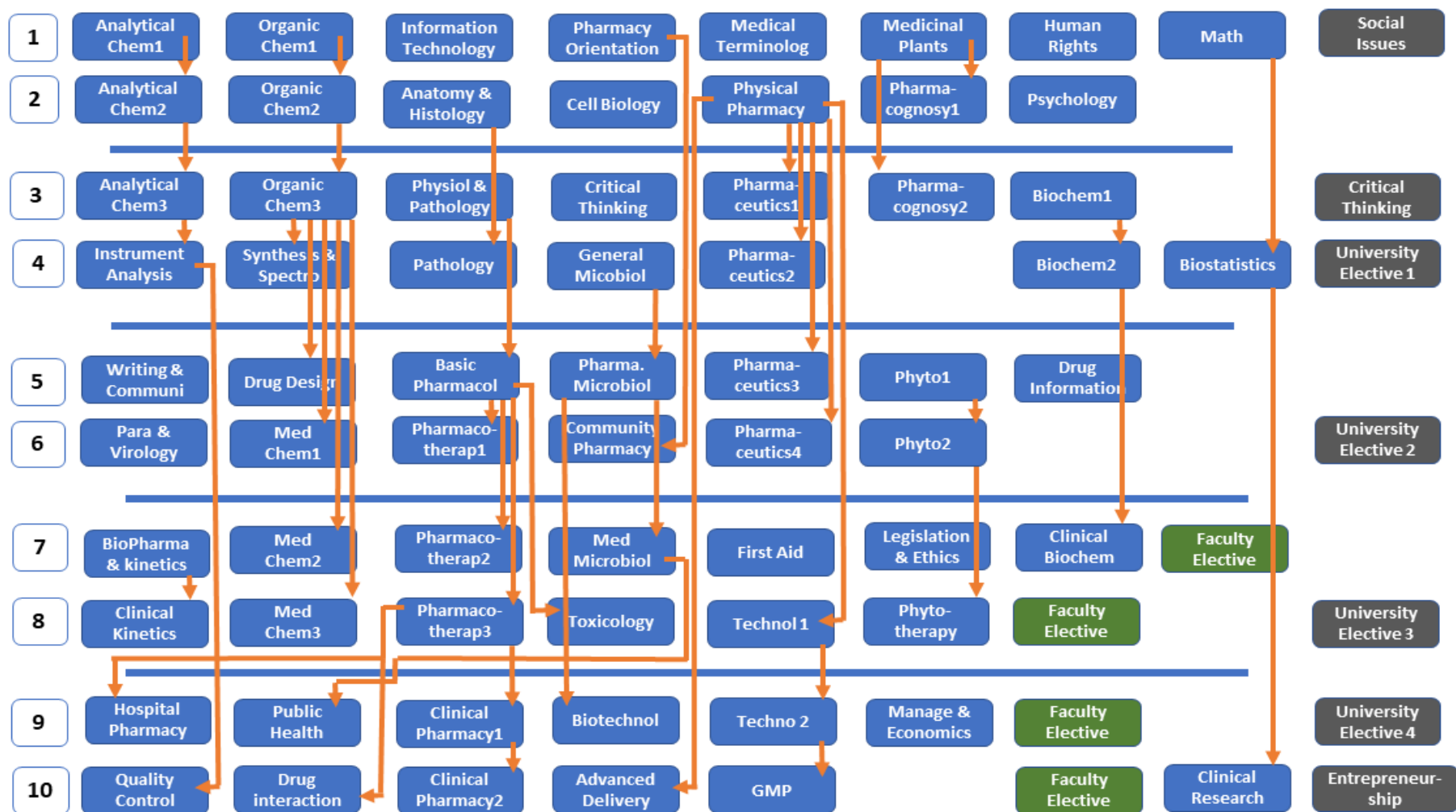
## Semester (9)

#	Course Title	Course Code	Credit Hours			Prerequisite	Examination Marks				Total Marks	Final Exam. Hours
			Lect.	P/T	Total		Period	P/T	Wr	Oral		
1	Pharmaceutical Biotechnology	02-06-04505	2	1	3	Pharmaceutical Microbiology	15	25	50	10	100	2
2	Public Health	02-06-04506	2	--	2	Medical Microbiology	25	---	75	---	100	2
3	Pharmaceutical Technology II	02-06-03502	2	1	3	Pharmaceutical Technology I	15	25	50	10	100	2
4	Clinical pharmacy I	02-06-09508	2	1	3	Pharmacology & Pharmacotherapeutics III	15	25	50	10	100	2
5	Hospital Pharmacy	02-06-09509	1	1	2	Pharmacology & Pharmacotherapeutics III	15	25	50	10	100	1
6	Pharmaceutical Management, Marketing & Pharmacoeconomics	02-06-09510	2	--	2	None	25	---	75	---	100	2
7	Faculty Elective	02-06-0XEXX	1	1	2	None	15	25	60	---	100	1
8	University Elective*	02-XX-XXXXX	2	--	2	None	40	--	60	--	100	2
	Total		12	5	17						700	

## Semester (10)

#	Course Title	Course Code	Credit Hours			Prerequisite	Examination Marks				Total Marks	Final Exam. Hours
			Lect.	P/T	Total		Period	P/T	Wr	Oral		
1	Quality Control of Pharmaceuticals	02-06-07505	2	1	3	Instrumental Analysis	15	25	50	10	100	2
2	Good Manufacturing Practice	02-06-03503	1	1	2	Pharmaceutical Technology II	15	25	50	10	100	1
3	Advanced Drug Delivery Systems	02-06-01507	1	1	2	Physical Pharmacy	15	25	50	10	100	1
4	Drug interaction	02-06-09511	1	1	2	Pharmacology & Pharmacotherapeutics III	15	25	50	10	100	1
5	Clinical Pharmacy II	02-06-09512	1	1	2	Clinical Pharmacy I	15	25	50	10	100	1
6	Clinical Research, Pharmacoepidemiology and & Pharmacovigilance	02-06-09513	1	1	2	Biostatistics & Evidence-based Medicine	15	25	50	10	100	1
7	Faculty Elective	02-06-0XEXX	1	1	2	None	15	25	60	---	100	1
8	Innovation and Entrepreneurship *	02-00-00001	2	--	2	None	40	--	60	--	100	2
	Total		8	7	15						700	





**Bachelor of PharmD Program - Curriculum Map**

## Bachelor of Pharmacy – PharmD (Clinical Pharmacy)

**A. Program duration:** (5 + 1) Years

**B. Programs' Structure:**

Total number of credit hour to fulfill the Bachelor of Pharmacy – PharmD (Clinical Pharmacy) degree requirement					
Category	University Requirements		Pharmacy Mandatory Requirements	Pharmacy Elective Requirements	Total
	UC	UE			
<b>Credit hours</b>	6	8	169	8	<b>191</b>

UC = compulsory credited university requirement

UE = University elective course

Training is divided into:

- **Introductory Pharmacy Practice Experience (IPPE):** 100 hours of training following level 3 or 4 provided that the student has passed community pharmacy training course successfully.
- **Advanced Pharmacy Practice Experience (APPE):** 36 weeks of training after completely level 5 divided into 5 rounds each for 6 weeks in addition to the graduation project.

## C. Program Levels

Study Level	Mandatory Credit Hours	Elective Credit Hours	Total Credit Hours
<b>Level 1:</b>	34	0	34
<b>Level 2:</b>	40	2	42
<b>Level 3:</b>	35	2	37
<b>Level 4:</b>	31	6	37
<b>Level 5:</b>	35	6	41
<b>Total</b>	<b>175</b>	<b>16</b>	<b>191</b>

## Courses Codes

The course code is composed of 7 digits. The first 2 numbers represent the department followed by 2 letters denoting the course nature (the letter "P" means that the course is offered to students of Pharmacy, while NP means non-pharmacy courses. All course types are shown in the table below). This is followed by 3 digits, the first of which represents the semester number, while the second and third digits represent the course number.

For example: "Pharmaceutical Analytical Chemistry I"

This course belongs to the analytical chemistry courses and will be taught by Pharmaceutical Analytical Chemistry Department. It will be the first course taught by this department and in the first semester. Therefore, its code will be "07-PA 101".

## D. Bachelor of Pharmacy – PharmD (Clinical Pharmacy) Study Plan

### Semester (1)

Course Title	Course Code	Credit Hours			Prerequisite	Examination Marks				Total Marks	Final Exam. Hours
		Lect.	P/T	Total		Period.	P/T.	Wr.	Oral		
Pharmaceutical Analytical Chemistry I	07-PA 101	2	1	3	None	15	25	50	10	100	2
Pharmaceutical Organic Chemistry I	05-PC 101	2	1	3	None	15	25	50	10	100	2
Pharmacy Orientation	09-PP 101	1	-	1	None	25	--	75	---	100	1
Medicinal Plants	06-PG 101	2	1	3	None	15	25	50	10	100	2
Medical Terminology	02-PO 101	1	-	1	None	25	--	75	---	100	1
Information Technology	00-NP 101	1	1	2	None	25	25	50	-	100	1
Mathematics	00-NP 102	1	---	1	None	25	---	75	---	100	1
Societal Issues *	00-NP 103	1	1	2	None	--	50	50	--	100	1
<b>Total</b>		<b>10</b>	<b>4</b>	<b>14</b>						<b>700</b>	

**Lect.** = Lecture, **Period.** = Periodical exam, **P/T** = Practical / Tutorial, **Wr.** = Written exam, \* **University Requirements**



## Semester (2)

Course Title	Course Code	Credit Hours			Prerequisite	Examination Marks				Total Marks	Final Exam. Hours
		Lect.	P/T	Total		Period.	P/T.	Wr.	Oral		
Pharmaceutical Analytical Chemistry II	07-PA 202	2	1	3	Pharmaceutical Analytical Chemistry I	15	25	50	10	100	2
Pharmaceutical Organic Chemistry II	05-PC 202	2	1	3	Pharmaceutical Organic Chemistry-I	15	25	50	10	100	2
Cell Biology	08-PB 201	1	1	2	None	15	25	50	10	100	1
Human anatomy& Histology	02-PO 202	2	1	3	None	15	25	60	---	100	2
Physical Pharmacy	01-PT 201	2	1	3	None	15	25	50	10	100	2
Pharmacognosy I	06-PG 202	2	1	3	Medicinal Plants	15	25	50	10	100	2
Psychology	09-PP 202	1	-	1	None	25	-	75	-	100	1
<b>Total</b>		<b>12</b>	<b>6</b>	<b>18</b>						<b>700</b>	

### Semester (3)

Course Title	Course Code	Credit Hours			Prerequisite	Examination Marks				Total Marks	Final Exam. Hours
		Lect.	P/T	Total		Period.	P/T	Wr.	Oral		
Pharmaceutical Organic Chemistry-III	05-PC 303	2	1	3	Pharmaceutical Organic Chemistry-II	15	25	50	10	100	2
Biochemistry I	08-PB302	2	1	3	None	15	25	50	10	100	2
Pharmacognosy II	06-PG 303	2	1	3	Medicinal Plants	15	25	50	10	100	2
Physiology and pathophysiology	02-PO 303	2	---	2	None	25	---	75	---	100	2
Basic Pharmacology	02-PO 304	2	1	3	None	15	25	50	10	100	2
Pharmaceutical Dosage Forms-I	01-PT 302	2	1	3	Physical pharmacy	15	25	50	10	100	2
Scientific writing and Communication skills	09-PP 303	1	1	2	None	25	25	50	--	100	1
Critical Thinking*	00-NP 304	2	--	2	None	40	---	60	--	100	2
<b>Total</b>		<b>13</b>	<b>6</b>	<b>19</b>						<b>700</b>	

## Semester (4)

Course Title	Course Code	Credit Hours			Prerequisite	Examination Marks				Total Marks	Final Exam. Hours
		Lect.	P/T	Total		Period.	P/T	Wr.	Oral		
Pathology	04-PM 402	1	1	2	Human Anatomy & Histology	15	25	50	10	100	1
General Microbiology and Immunology	04-PM 401	2	1	3	None	15	25	50	10	100	2
Drug Information	09-PP 404	1	1	2	Basic Pharmacology	10	25	65	-	100	1
Pharmacology –I	02-PO 406	2	1	3	Basic Pharmacology	15	25	50	10	100	2
Instrumental Analysis	07-PA 403	1	1	2	None	15	25	50	10	100	1
Pharmaceutical Dosage Forms-II	01-PT 403	2	1	3	Physical Pharmacy	15	25	50	10	100	2
Biochemistry II	08-PB 403	2	1	3	Biochemistry I	15	25	50	10	100	2
Pharmacy Legislation and professional ethics	09-PP 405	1	-	1	None	25	---	75	---	100	1
University Elective*	02-XX-XXXXX	2	-	-	None	40	--	60	---	100	2
<b>Total</b>		<b>13</b>	<b>6</b>	<b>19</b>						<b>800</b>	



## Semester (5)

Course Title	Course Code	Credit Hours			Prerequisite	Examination Marks				Total Marks	Final Exam. Hours
		Lect.	P/T	Total		Period.	P/T	Wr.	Oral		
Pharmacology-II	02-PO 507	2	1	3	Basic Pharmacology	15	25	50	10	100	2
Pharmaceutical Microbiology and Antimicrobials	04-PM 502	2	1	3	General Microbiology & Immunology	15	25	50	10	100	2
Parasitology & Virology	04-PM 503	2	1	3	None	10	25	65	--	100	2
Pharmaceutical Dosage Forms-III	01-PT 504	2	1	3	Physical Pharmacy	15	25	50	10	100	2
Phytochemistry-I	06-PG 504	2	1	3	None	15	25	50	10	100	2
Community Pharmacy Practice	09-PP 506	2	1	3	Pharmacology -I	15	25	50	10	100	2
<b>Total</b>		<b>12</b>	<b>6</b>	<b>18</b>						<b>600</b>	

## Semester (6)

Course Title	Course Code	Credit Hours			Prerequisite	Examination Marks				Total Marks	Final Exam. Hours
		Lect.	P/T	Total		Period.	P/T	Wr.	Oral		
Pharmacology-III	02-PO 608	2	1	3	Pharmacology-II	15	25	50	10	100	2
Phytochemistry-II	06-PG 605	2	1	3	Phytochemistry-I	15	25	50	10	100	2
Pharmaceutical Technology	03-PN 601	2	1	3	Physical Pharmacy	15	25	50	10	100	2
Hospital Pharmacy	09-PP 607	2	1	3	None	15	25	50	10	100	2
Clinical Pharmacy Practice	09-PP 608	2	1	3	None	15	25	50	10	100	2
First Aid and Basic Life Support (BLS)	02-PO 609	1	1	2	None	10	25	65	--	100	1
University Elective*	02-XX-XXXXX	2	-	-	None	40	--	60	---	100	2
<b>Total</b>		<b>11</b>	<b>6</b>	<b>17</b>						<b>600</b>	

## Semester (7)

Course Title	Course Code	Credit Hours			Prerequisite	Examination Marks				Total Marks	Final Exam. Hours
		Lect.	P/T	Total		Period	P/T	Wr.	Oral		
Medicinal Chemistry-I	05-PC 704	2	1	3	Pharmaceutical Organic Chemistry-III	15	25	50	10	100	2
Advanced Drug Delivery Systems	01-PT 705	2	-	2	Physical Pharmacy	15	--	75	10	100	2
Biopharmaceutics and Pharmacokinetics	01-PT 706	2	1	3	Pharmaceutical dosage forms III	15	25	50	10	100	2
Medical Microbiology	04-PM 704	2	1	3	Pharmaceutical Microbiology	15	25	50	10	100	2
Quality Control of Pharmaceuticals	07-PA 704	2	1	3	Instrumental Analysis- Pharmaceutical Microbiology	15	25	50	10	100	2
Faculty Elective course	0X-PXE --	1	1	2	None	15	25	50	10	100	1
<b>Total</b>		<b>11</b>	<b>5</b>	<b>16</b>						<b>600</b>	



## Semester (8)

Course Title	Course Code	Credit Hours			Prerequisite	Examination Marks				Total Marks	Final Exam. Hours
		Lect.	P/T	Total		Period.	P/T	Wr.	Oral		
Medicinal Chemistry-II	05-PC 805	2	1	3	Pharmaceutical Organic Chemistry-III	15	25	50	10	100	2
Pharmacotherapy of Endocrine and Renal Disorders	02-PO 810	2	1	3	Pharmacology III	15	25	50	10	100	2
Pharmacotherapy of Oncological Diseases and Radio pharmacy	02-PO 811	2	1	3	Pharmacology III	15	25	50	10	100	2
Clinical Pharmacokinetics	09-PP 809	2	1	3	Biopharmaceutics and Pharmacokinetics	15	25	50	10	100	2
Clinical Biochemistry	08-PB 804	2	1	3	Biochemistry-II	15	25	50	10	100	2
Public Health and Preventive Medicine	04-PM 805	2	--	2	Medical Microbiology	15	--	75	10	100	2
Faculty Elective Course	0X-PXE-	1	1	2	None	15	25	50	10	100	1
University Elective*	02-XX-XXXXX	2	-	-	None	40	--	60	---	100	2
<b>Total</b>		<b>13</b>	<b>6</b>	<b>19</b>						<b>700</b>	

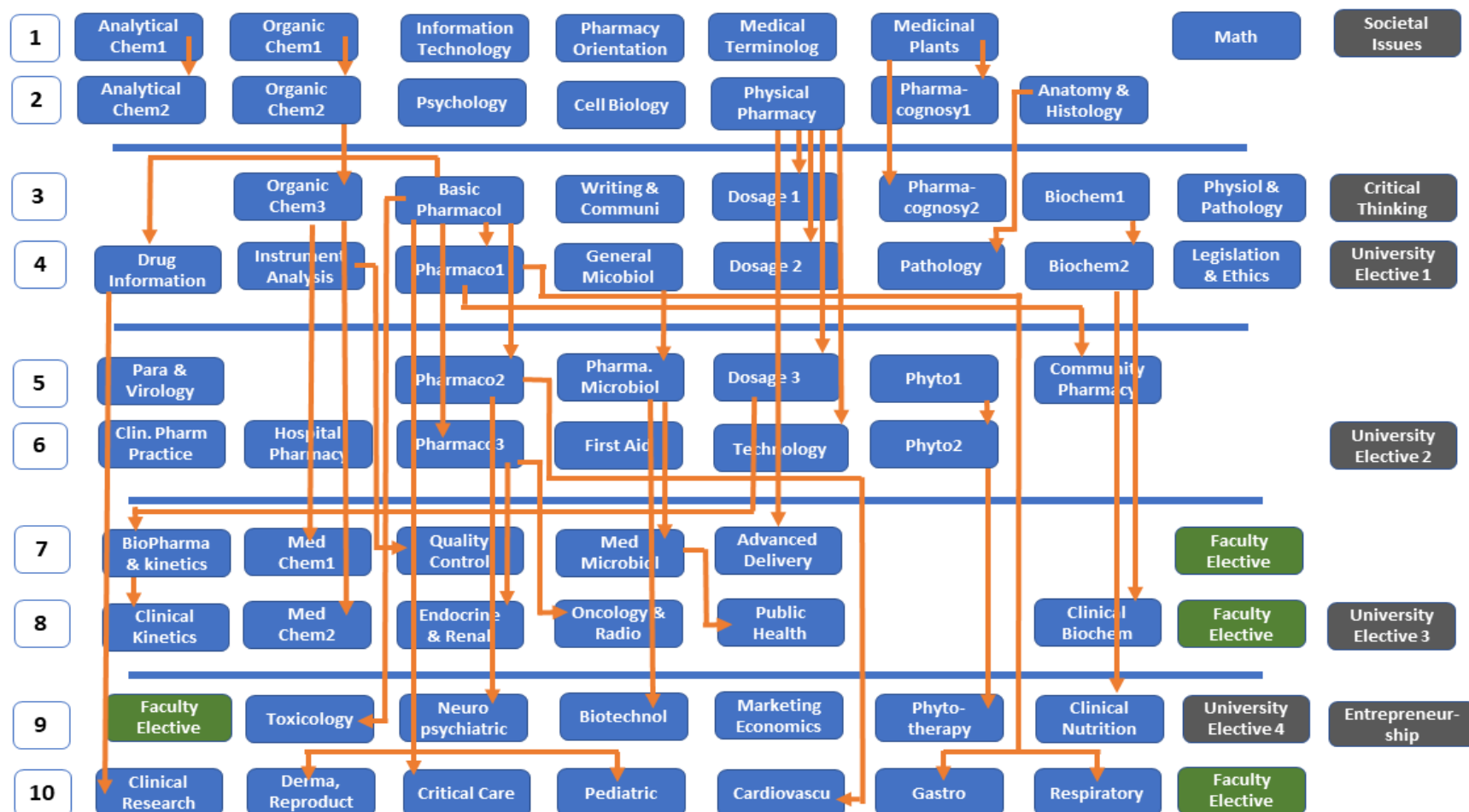
## Semester (9)

Course Title	Course Code	Credit Hours			Prerequisite	Examination Marks				Total Marks	Final Exam. Hours
		Lect.	P/T	Total		Period.	P/T	Wr.	Oral		
Pharmacotherapy of Neuropsychiatric Diseases	02-PO 912	2	1	3	Pharmacology-II	15	25	50	10	100	2
Basic & clinical Toxicology	02-PO 913	2	1	3	Basic Pharmacology	15	25	50	10	100	2
Pharmaceutical Biotechnology	04-PM 906	2	1	3	Pharmaceutical Microbiology	15	25	50	10	100	2
Phytotherapy	06-PG 906	2	1	3	Phytochemistry-II	15	25	50	10	100	2
Clinical Nutrition	08-PB 905	1	1	2	Biochemistry-II	15	25	50	10	100	1
Marketing & Pharmacoeconomics	09-PP 910				None	25	---	75	--	100	2
		2	--	2							
Innovation and Entrepreneurship*	00-NP 905	1	1	2	None	--	---	100	---	100	1
Faculty Elective Course	0X-PXE-	1	1	2	None	15	25	50	10	100	1
University Elective*	02-XX-XXXXX	2	-	-	None	40	--	60	---	100	2
<b>Total</b>		<b>12</b>	<b>6</b>	<b>18</b>						<b>700</b>	

## Semester (10)

Course Title	Course Code	Credit Hours			Prerequisite	Examination Marks				Total Marks	Final Exam. Hours
		Lect.	P/T	Total		Period.	P/T	Wr.	Oral		
Pharmacotherapy of Critical Care Patients	02-PO 014	1	1	2	Basic Pharmacology	15	25	50	10	100	1
Pharmacotherapy of Dermatological, Reproductive and Musculoskeletal Diseases	02-PO 015	2	1	3	Basic Pharmacology	15	25	50	10	100	2
Pharmacotherapy of Pediatric Diseases	02-PO 016	2	1	3	Basic Pharmacology	15	25	50	10	100	2
Pharmacotherapy of Cardiovascular Diseases	02-PO 017	2	1	3	Pharmacology-II	15	25	50	10	100	2
Pharmacotherapy of Gastrointestinal Diseases	02-PO 018	2	1	3	Pharmacology-I	15	25	50	10	100	2
Pharmacotherapy of Respiratory Diseases	02-PO 019	1	1	2	Pharmacology-I	15	25	50	10	100	1
Clinical Research and Pharmacovigilance	09-PP 011	1	--	1	Drug information	25	---	75	--	100	1
Faculty Elective Course	0X-PXE-	1	1	2	None	15	25	50	10	100	1
<b>Total</b>		<b>12</b>	<b>7</b>	<b>19</b>						<b>800</b>	





**Bachelor of PharmD (Clinical Pharmacy) Program - Curriculum Map**

## **Admission Requirements**

It is required for those applying to join the program to fulfill all the conditions specified by the Supreme Council of Universities (SCU). General Secondary School Certificate with Major in Science, or an equivalent certificate from a foreign institute recognized by supreme council of universities in Egypt such as IGSCCE or the American Diploma graduates are accepted according to the rules and regulations set by SCU and the Ministry of Higher Education and Scientific Research in Egypt.

Transfer of students enrolled in a similar program in one of the pharmacy colleges in Egyptian or foreign universities may be accepted, provided that the student meets the requirements for admission of the Faculty of Pharmacy at Alexandria University, and the courses that the student studied in the other faculty are transferred according to the rules determined by the Faculty Council, provided that the maximum number of academic hours allowed to be transferred for the student do not exceed 40% Of the total number of credit hours for the PharmD program. Taking into consideration that the cGPA is not less than (3) and that the proportion of equivalence in the content of accepted courses is not less than 75% and that the number of hours be identical.

International students are admitted in accordance with the rules and regulation set and announced by Ministry of Higher Education and Scientific Research through the platform of “Study in Egypt” at <https://study-in-egypt.gov.eg/>

## **Academic Advising**

The faculty assigns for each group of students an academic advisor from the faculty members who performs the tasks of care and guidance and is responsible for the student in scientific, social, and psychological affairs and guides him/her in everything related to the university life and assists students in choosing courses from the list of courses offered by the faculty in each semester. Each student must personally register for the courses he/she wishes to study in each semester. However, courses and total credit hours should be chosen via consultation and agreement with the academic advisor. The registration of courses is only approved with the approval of the academic advisor in the case of students who have a GPA of less than one. For a course to be registered, the student must successfully pass its pre-requisite.

## **Attendance**

The student must attend the theoretical lectures, group discussions, practical sessions, field training and assignments, and the Faculty Council, upon the request of the councils of the relevant scientific departments, may deprive the student of applying for the final written examination if his/her absence exceeds 25% of the total contact hours for each course. A grade of (FW) is made for him/her and he/she must re-sit the course.

The student must sit for the final written exams according to the dates determined for them according to the university calendar announced for each semester. The student is not considered to be a failure in case of absence for a compulsive excuse accepted by the Faculty Council. The student or his/her parent (guardian) must complete “Incomplete Course Request”, and an “Incomplete (I)” temporary assessment is calculated for this course.

## **Study language.**

Study in this program is in English.

## Grading and assessment system

The final grade of the course consists of the sum of grades for the semester work and the practical, written and oral exams, as indicated in the study plan schedules. The minimum passing score for any course is 60% of the total marks for this course, and the student does not pass in any course unless he/she obtains 30% of the final written exam marks, and the percentage of final marks and grades are as shown in the following table.

**The student's result in each course is estimated with one of the following:**

Description of Grade	Grade	Points	Percentage
Excellent	A <sup>+</sup>	4.00	95 and more
	A	3.85	From 90 to less than 95
	A <sup>-</sup>	3.7	From 85 to less than 90
Very Good	B <sup>+</sup>	3.3	From 82.5 to less than 85
	B	3	From 77.5 to less than 82.5
	B <sup>-</sup>	2.7	From 75 to less than 77.5
Good	C <sup>+</sup>	2.3	From 72.5 to less than 75
	C	2	From 67.5 to less than 72.5
	C <sup>-</sup>	1.7	From 65 to less than 67.5
Satisfactory	D <sup>+</sup>	1.3	From 62.5 to less than 65
	D	1	From 60 to less than 62.5
Fail	F	0	Less than 60
Withdrawn	W	-	
Forced withdrawal	FW	-	
Military withdrawal	MW	-	
Incomplete	I	-	
Absent	E	-	
Audit	AU	-	

**\*I:** The student gets this symbol if the attendance rate is fulfilled and he/she is unable to enter the final and oral written exam (if any) for one or more academic courses in the same semester for reasons accepted by the Faculty Council, and he/she must perform the final and oral written exam (if any) only at a date not later than the second week of the next semester and the student keeps his/her grade during the semester.

**\*\*E:** The student gets this symbol if he/she is unable to enter the final written and oral exam (if any) at the aforementioned date in the previous paragraph because the compelling reason has not disappeared, and the student must register in this course when it is offered again and study it fully again and he/she will receive the new grades that he/she will score.

**There are other evaluation symbols that are not matched by points - used in some graduation requirements - and they are:**

**P:** Satisfactory level for a course not included in the GPA, such as training and university requirements courses (Pass/Fail)

**T:** Grades obtained by a transferred student from another Faculty of Pharmacy (Transferred)

**U:** Ungraded Course

**The student's grade point average (GPA) and cumulative GPA (cGPA) are calculated as follows:**

A- The value of the assessment for each course (the points shown in the previous table) is multiplied by the number of credit hours for this course to get the number of points for each course in the semester.

B - Points are summed for all academic courses in which the student is registered for in one semester.

C - The total points of all the courses are divided by the total credit hours recorded for the student in one semester, in order to obtain the GPA of that semester, as follows:

Grade Point Average (GPA) in a semester =  $\frac{\text{Total Number of Points in the semester}}{\text{Total Number of Registered Credit Hours in that semester}}$

The GPA ranges between 0 to 4.

**Cumulative Grade Point Average, cGPA is calculated as follows:**

Cumulative Grade Point Average, cGPA =  $\frac{\text{Total Number of Points in all semesters}}{\text{Total Number of Registered Credit Hours in all semester}}$

In calculating both the semester and cumulative GPA, the result is rounded to two decimal places.

The Faculty Council may, after taking the opinion of the councils of the specialized scientific departments and according to the nature of the courses, hold an electronic exam in one or more courses (in the whole course or part of it), and gives a permission for the correction of the exams electronically whenever the infrastructure and technical capabilities are available. The decision of the Faculty Council is submitted to the University's Education and Student Affairs Committee for approval in preparation for raising it to the University Council for approval.

**Example of calculating the GPA in a semester**

Course Title	Credit Hours	Marks Achieved by the Student (Percent Out of 100)	Course Grade	Grade Points
X1	1	95	A+ (4.0)	1 X 4.0 = 4.0
X2	3	87	A <sup>-</sup> (3.7)	3 X 3.7 = 11.1
X3	3	85	A <sup>-</sup> (3.7)	3 X 3.7 = 11.1
X4	3	72	C (2.0)	3 X 2.0 = 6
X5	3	90	A+ (4.0)	3 X 4.0 = 12
X6	2	85	A <sup>-</sup> (3.7)	2 X 3.7 = 7.4
X7	2	77	B <sup>-</sup> (2.7)	2 X 2.7 = 5.4
X8	1	73	C <sup>+</sup> (2.3)	1 X 2.3 = 2.3
X9	1	85	A <sup>-</sup> (3.7)	1 X 3.7 = 3.7
X10	1	87	A <sup>-</sup> (3.7)	1 X 3.7 = 3.7
<b>Total</b>	<b>20</b>			<b>66.7</b>
<b>GPA in the semester = 66.7 ÷ 20 = 3.34</b>				



## Failing courses.

### The student fails a course in the following cases:

- The student is absent from the final written exam without an excuse accepted by the Faculty Council.
- The student achieves less than 30% of the final written exam marks.
- The student achieves less than 60% of the total marks of the course.

If a student fails in any mandatory course in any semester, he/she must study the same course and take the exam in it when the course re-opens again and the highest grade, he/she shall receive shall be (B +). On the other hand, if the student fails in an elective course, he/she can re-study it or study another elective course to complete the graduation requirements, after the approval of his/her academic advisor and he/she shall receive the new grade, he/she accomplishes.

If the student fails in the same course, the failure is counted only once in his/her cGPA, and the number of times that he/she sit for the exam in this course are recoded in his/her academic record.

## Academic underachievement

The academic underachievement of the student is considered if he/she obtains a GPA of less than “one” which is equivalent to 60%. A student who obtains a GPA of less than 1 for a period of six consecutive semesters or ten non- consecutive semesters shall be dismissed from the faculty after the approval of the Faculty Council. In this respect, the summer semesters, if any, will not be taken into consideration. The student with underachievement is allowed to re-study the courses he/she has passed with a grade of D in order to improve his/her cGPA and the higher score that the student obtains is calculated in his/her cGPA.

## Teaching and Learning Strategy:

The Faculty of Pharmacy - Alexandria University adopts an effective dynamic strategy to ensure that all educational programs achieve excellence in teaching and learning to meet the expanding needs of the local and regional labor market for pharmacists with distinctive professional competencies and abilities to improve the level of healthcare system.

The methods for teaching and learning are continuously reviewed by teaching staff because of:

- Analyzing exam results
- Analyzing student questionnaires and their opinions on courses, exams, and teaching methods
- Analysis of questionnaires regarding the labor market’s opinion of graduates.
- Discussing the teaching and learning strategy with staff members and vice dean for education and students’ affairs

### Main goals of the teaching and learning strategy:

1. Preparing professionally and ethically distinguished pharmacists capable of developing the healthcare system and pharmaceutical industries.
2. Raising the efficiency of faculty members, supporting staff, and administrators to provide distinguished education in the field of pharmacy
3. Integrating AI in the educational system via enhancing the staff capabilities to use generative AI and understand its various aspects and monitor the student use of AI as a learning tool.
4. Providing the appropriate scientific and research environment that supports innovation, scientific research, and entrepreneurship
5. Enhancing the faculty’s role in engaging with the community

### Main concepts for teaching and learning strategy:

- 1- The learning process is not a language challenge or challenge to the student’s memory, but rather it is a means to provide the student with knowledge and skills that qualify him/her for the labor market.
- 2- Respecting the diversity of students’ abilities and cultures

- 3- Encouraging students to express their opinions through interaction between students and the lecturers to increase self-confidence
- 4- Encouraging students to work collaboratively through doing group assignments and projects.
- 5- Encouraging students to think logically and use brainstorming to discuss open questions
- 6- Encouraging students to self-learn to increase their ability to come up with innovative and creative solutions to diverse problems.

Because students have different learning styles that oscillate between visual (V), aural (A), read/write (R), and kinesthetic (K) according to VARK model of learning; diverse teaching methods are used within each course to ensure engagement of the students during the learning process. Both traditional and non-traditional methods are employed for teaching as part of the faculty strategy. Traditional methods include lectures in the campus, and practical session. Because the teaching and learning is a dynamic process, non-traditional methods to deliver various contents are continuously introduced. These methods include, but are not limited to the following:

1. Online Lectures (synchronized and asynchronized) as part of the blended learning and flipped classrooms.
2. Online pre-Lab theoretical background and videos for demonstrations
3. Computer Practical Work (case studies and simulations)
4. Students' assignments (written and oral presentations) as part of problem-solving learning methodology
5. Self-study contents and individual as well as team Projects
6. Field Visits

#### Teaching and learning methods selection criteria:

- 1- Suitability of the methods to the learning outcomes
- 2- Suitability of the methods to the academic content
- 3- The suitability of the methods to the educational level of students and the individual differences between them
- 4- The availability of the learning facilities and the number of students enrolled in the course
- 5- Flexibility and continuous development of the courses as well as the learning facilities

## Students Assessment Strategies

The assessment and evaluation of the learning outcomes is characterized by diversity in order to be consistent with the faculty's strategy in terms of the diversity of teaching and learning methods and methods. The student's evaluation is done through traditional ways such as exams in the theoretical and practical parts. These include written as well as oral exams according to each course (see study plan including the distribution of marks for each course). Non-traditional continuous evaluation methods are performed as part of the practical evaluation and semester work. These include assignments, projects, presentations, and quizzes. The faculty implements strict regulations for written and oral exams to ensure the quality of students' assessment and evaluation, and that they are carried out fairly and consistently as follows:

- Establishing rules for the format of the question paper that all faculty members adhere to.
- The review and evaluate the exam paper and the blueprint by the Measurement and Assessment (MAC) unit in the faculty to ensure that it represents all parts of the curriculum and is free of scientific or linguistic errors.
- Establishing rubrics for oral exams by the MAC unit
- Ensuring that every student's psychological comfort and transparency are considered while taking exam through continuous follow up from the vice dean for education and students' affairs.
- In the event of natural disasters and epidemics (such as COVID-19), the oral exam is replaced with theoretical questions added to the theoretical exam or can be taken from home via Microsoft Meetings to preserve the lives of students and those in charge of teaching.

Formative assessment takes place all the time during lectures and practical sessions as well as tutorials to train the students on different exam styles and assess their comprehension of the course contents. Alternatively summative assessment is performed to grade the performance of students in each course.

Different types of summative assessments include:

- Written period exam (MCQ machine corrected or manually corrected)
- Written final exam (MCQ machine corrected or manually corrected)
- Projects
- Practical exam
- Oral exam or equivalent (oral presentations)
- Class activities and student participation and punctuality in attendance
- Quizzes (online electronic exam)
- Quizzes (in Lab)

## Field Training

Training is divided into:

- **Introductory Pharmacy Practice Experience (IPPE):** 100 hours of training following level 3 or 4 provided that the student has passed the community pharmacy practice course successfully.
- **Advanced Pharmacy Practice Experience (APPE):** 36 weeks of training after completing level 5 divided into 5 rounds each for 6 weeks in addition to the graduation project.

### Training program aims.

1. To prepare qualified pharmacists who can work efficiently nationally, regionally as well as globally.
2. Setting the connections between university studies and the real field of work
3. Preparation of a qualified pharmacist who can perform his/her duties within the framework of professionalism and ethics.
4. Introducing diverse fields of work to the new graduates to identify their interests in future jobs.

### Admission requirement for the advanced pharmacy practice experience (APPE).

- 1- Completing all courses (mandatory and elective) in the 5 levels of Pharmacy studies according to the bylaws and curriculum of PharmD or PharmD (Clinical pharmacy) program
- 2- Completing the 100 hours of introductory pharmacy practice experience (IPPE)

### The number and duration of the training rounds in APPE.

The duration of the training program is 36 weeks and includes 6 training rounds, each for 6 weeks. Four of these rounds are mandatory and 2 are electives.

#### First: Mandatory rounds:

- 1- A training round in public or private community pharmacies
- 2- A training round in clinical pharmacy field
- 3- A training round in drug manufacturing and registration
- 4- Applied research project.

#### Second: Elective rounds:

Two training rounds from the catalogue of training as follows:

- 1- Two training rounds in the field of drug manufacturing and distribution for PharmD graduates
- 2- Two training rounds in the field of clinical pharmacy for PharmD (Clinical Pharmacy) graduates

Universities may add new rounds according to continuous improvement and development in the field of pharmacy. However, it cannot be offered till its approval from the supreme council of universities.

For further information kindly refer to the Ministerial Decree # 967 (Issued on May 29, 2023) concerning the unified bylaws for the internship year (Advanced Pharmacy Practice Experience - APPE) for Pharmacists that regulates the process of training.



## ORIENTATION SESSION FOR SUMMER TRAINING





### **Penalties for violation of university laws, regulations, or traditions:**

Students' penalties are in accordance with the **University Regulatory Law No.49 of 1972.**

**Article 180** – Misconducts from students are subject to the disciplinary penalties according to this law and its executive regulations.

**Article 181** - The Student Disciplinary Council may impose all disciplinary penalties, and the University President, Faculty Dean, and Professors may impose some of these penalties within the limits specified for each of them in the executive regulations.

**Article 182** - A decision to refer students to the Disciplinary Council shall be issued by the University President on his own initiative or at the request of the Dean.

**Article 183** - The Student Disciplinary Council is formed as follows:

- The Faculty Dean (President)
- The Vice Dean for Education and Students Affairs
- Senior staff member from the faculty council

**Article 184** - The decision issued by the Student Disciplinary Council may be appealed by the student. The appeal shall be filed by a written request submitted by the student to the President of the University within ten days from the date he/she is notified of the decision.

### **The following actions from any student mandates penalties:**

- Any act that violates the system of the faculty or university systems and bylaws.
- Any act that disturbs the studies or agitates the students.
- Deliberate abstention from attending lessons, lectures, and other university work that the regulations require attendance at.
- Any act that is inconsistent with honor and dignity or is contrary to good conduct and behavior inside or outside the university.
- Any violation of the exam system via disturbing the peaceful environment of the exam or attempting to cheat.
- Any damage to university facilities, equipment, materials, or books.
- Any organization of associations within the university or participation in them without a prior license from the university authorities.
- Distributing flyers, issuing wall newspapers, and collecting signatures without prior authorization from the university authorities.
- Protesting inside university buildings or participating in demonstrations that violate public order or morals.

### **Penalties:**

Students Disciplinary Council shall decide the penalty according to the student misconduct and the student history in repeating misconduct. Repeating misconduct or group cheating mandates maximum penalties. The following are graded penalties:

- 1- Verbal or written warning.
- 2- Deprivation of some student services.
- 3- Deprivation from attending the lessons of a course for a period not exceeding one month.
- 4- Dismissal from faculty for a period not exceeding one month.
- 5- Deprivation from taking an exam in one or more courses (forced withdrawal).
- 6- Suspending the student's registration for one semester.
- 7- Canceling a student's exam in one or more courses (the student receives a grade = Failing ( F ) in these courses).
- 8- Canceling the student registration for one semester.
- 9- Dismissal from the faculty for more than one semester.
- 10- Final dismissal from the university. In this case, the dismissal decision is communicated to other universities and results in the student being ineligible for enrollment or taking exams in all public universities in Egypt.

## Welcome to Faculty of Pharmacy At Alexandria University



Faculty of Pharmacy

<https://pharmacy.alexu.edu.eg/>

Alexandria University

<https://www.alexu.edu.eg/index.php/en/#>

[https://www.linkedin.com/posts/alexandria-university\\_activity-6978310347640201219-Ylsh?utm\\_source=share&utm\\_medium=member\\_desktop](https://www.linkedin.com/posts/alexandria-university_activity-6978310347640201219-Ylsh?utm_source=share&utm_medium=member_desktop)