



**Zagazig University  
Faculty of Pharmacy**



**Summer Training (Preliminary training)  
Specification  
2024-2025**

**Bachelor of Pharmacy -Pharm D  
(Clinical pharmacy)  
program**

**Approved from Faculty council No. (881) 2/6/2025**

### A- Basic Information:

<b>University</b>	Zagazig
<b>Faculty</b>	Pharmacy

<b>1</b>	<b>Program Title</b>	<b>Bachelor of Pharmacy- Pharm D (Clinical pharmacy)</b>
<b>2</b>	<b>Program Type</b>	<b>Single</b>
<b>3</b>	<b>Program Specification of the summer (preliminary) training approval</b>	<b>2/6/2025</b>
<b>4</b>	<b>Language study</b>	<b>English</b>

### Summer Training (Preliminary training)

- The role of summer (preliminary) training period is to help the graduates to get a professional pharmaceutical knowledge and skills so that they can contribute to the enhancement for health care and innovation in pharmaceutical sciences and compete effectively in the job market after their graduation.
- One of the requirements of awarding the student the degree of Bachelor in pharmacy – pharm D (**Clinical pharmacy**) is the summer (preliminary) training.
- Each student must fulfill the exact specified duration of the summer (preliminary) training (**100 contact hours**) in one of community or governmental or hospital pharmacies following the third level or fourth (i.e. number of hours should be not less than 5 contact hours per day for at least 20 days in a flexible part-time schedule).
- The names of academic supervisors and their distribution to students in the (preliminary) training are approved by the faculty Council. Each supervisor is intended to supervise not less than 10 students.
- Student assessment is performed from both the external supervisor (pharmacy director) and the academic supervisor according to established criteria.

- The academic supervisor prepares a final report for the Vice Dean of Education and Student Affairs. This report clearly states each student's name and their final pass or fail status for the training.
- The academic supervisors' reports of student's assessment in the (preliminary) training are approved by the faculty Council.

## **B- Professional information**

The pharmacy training program offers pharmacy students with the expertise they need to engage comprehensively with pharmacists and healthcare consumers in real-world community practice.

### **1- Aims of the summer (preliminary) training:**

On completion of summer (preliminary) training, students will be able to:

- Outline principles of pharmacy practice, hospital pharmacy, and public health interventions.
- Identify properties of different dosage forms, mechanisms of drug action, therapeutic uses, adverse reactions, contraindications.
- To familiarize the student with various laws governing pharmacy practice.
- Explain the distribution, dispensing, compounding, and purchase of pharmaceuticals in community pharmacies.
- Provide effective communication with external supervisor, patients, coworkers, and other health care professionals during training.
- Demonstrate a high standard of professional behavior (i.e., adhering to established work schedule, minimizing absences)
- Potentiate teamwork, decision-making, and report-writing skills.

## 2- Key elements of the summer (preliminary) training

**Matrix 1: Comparison between the summer (preliminary) training Key elements, Program key elements and the National Academic Reference Standards, NARS 2017 key elements.**

<b>DOMAIN 1- FUNDAMENTAL KNOWLEDGE</b>		
<b>1-1- COMPETENCY</b>		
Integrate knowledge from basic and applied pharmaceutical and clinical sciences to standardize materials, formulate and manufacture products, and deliver population and patient-centered care		
<b>NARS Key elements</b>	<b>Program key elements</b>	<b>Summer (preliminary) training Key elements</b>
<b>1-1-1-</b> Demonstrate understanding of knowledge of pharmaceutical, biomedical, social, behavioral, administrative, and clinical sciences.	1.C1.5.	1.C1.5. 1. State the laws that govern and affect pharmacy practice, ethical principles and moral rules of pharmacy profession.
	1.C1.7.	1.C1.7. 1. Identify the principles of pharmacy, such as drug classification and alternative medicines, drug and poison information, and pharmacy laws and regulations.
		1.C1.7.2. Outline fundamentals of pharmacy practice including drug distribution system, drug monitoring, adverse effects, patient counseling and dose adjustment.
<b>1-1-2-</b> Utilize the proper pharmaceutical and medical terms, abbreviations and symbols in pharmacy practice	1.C1.8.	1.C1.8.1. Use appropriate pharmaceutical and medical terminology in pharmacy practice and recall scientific names of drugs.
<b>1-1-4-</b> Articulate knowledge from fundamental sciences to explain drugs' actions and evaluate their appropriateness, effectiveness, and safety in individuals and populations.	1.C1.10.	1.C1.10. 1. Illustrate the mechanisms of action of drugs, and their therapeutic uses, adverse reactions and contraindications.

**DOMAIN 2: PROFESSIONAL AND ETHICAL PRACTICE****2-1- COMPETENCY**

Work collaboratively as a member of an inter-professional health care team to improve the quality of life of individuals and communities, and respect patients' rights.

**2-1-1** Perform responsibilities and authorities in compliance with the legal and professional structure and role of all members of the health care professional team.

2.C1.1.

2.C1.1.1. Carry out duties as a pharmacist in a professional manner according to the ethical guidelines.

2.C1.3.

2.C1.3.1. Recognize pharmacy and medicines law.

**2-1-2** Adopt ethics of health care and pharmacy profession respecting patients' rights and valuing people diversity.

2.C1.4.

2.C1.4.1. Express empathy and understanding for both patients and healthcare professionals.

2.C1.5.

2.C1.5.1. Respect patients' rights and keep their personal data confidential.

**2-1-3** Recognize own personal and professional limitations and accept the conditions of referral to or guidance from other members of the health care team.

2.C1.7.

2.C1.7.1. Help patients and other medical professionals in identifying the most suitable treatments for their therapeutic needs.

2.C1.8.

2.C1.8.1. Advise patient to go to appropriate health care providers when the patients' problems are beyond the scope of pharmacy practice

**2-2- COMPETENCY**

Standardize pharmaceutical materials, formulate and manufacture pharmaceutical products, and participate in systems for dispensing, storage, and distribution of medicines.

**2-2-2** Apply the basic requirements of quality management system in developing, manufacturing, analyzing, storing, and distributing pharmaceutical materials/ products considering various incompatibilities.

2.C2.5.

2.C2.5.1. Recognize the proper storage conditions for different types of pharmaceuticals.

**2-4- COMPETENCY**

Actively share professional decisions and proper actions to save patient's life in emergency situations including poisoning with various xenobiotics, and effectively work in forensic fields

**2-4-1** Ensure safe handling/ use of poisons to avoid their harm to individuals and communities.

2.C4.1.

2.C4.1.1. Advise patients and medical professionals about how to use medications safely and effectively.

**2-4-3** Take actions to solve any identified medicine-related and pharmaceutical care problems.

2.C4.3.

2.C4.3.1. Advise patients about drug related problems such as adverse drug reactions, contraindications, drug-drug/drug-food interactions and allergies.

**2-6- COMPETENCY**

Perform pharmacoeconomic analysis and develop promotion, sales, marketing, and business administration skills

**2-6-1** Apply the principles of business administration and management to ensure rational use of financial and human resources.

2.C6.2.

2.C6.2.1. Understand the pharmacy financial management.

**2-6-2** Utilize the principles of drug promotion, sales, marketing, accounting, and pharmacoeconomic analysis.

2.C6.4.

2.C6.4.1. Apply drug sales and marketing skills.

**DOMAIN 3: PHARMACEUTICAL CARE****3-1- COMPETENCY**

Apply the principles of body functions to participate in improving health care services using evidence-based data.

3-1-2 Apply the principles of public health and pharmaceutical microbiology to select and assess proper methods of infection control.	3.C1.3.	3.C1.3.1. Select and assess appropriate methods of infection control to prevent infections and promote public health.
<p><b>3-2- COMPETENCY</b></p> <p>Provide counseling and education services to patients and communities about safe and rational use of medicines and medical devices.</p>		
3-2-1 Integrate the pharmacological properties of drugs including mechanisms of action, therapeutic uses, dosage, contra-indications, adverse drug reactions and drug interactions.	3.C2.1.	3.C2.1.1. Enhance public awareness about the appropriate use of medicines and as possible interactions with other drugs or food.
3-2-4 Provide information about toxic profiles of drugs and other xenobiotics including sources, identification, symptoms, and management control.	3.C2.5.	3.C2.5.1. Advise patients about toxic profiles of drugs and other toxic substances
3-2-5 Educate and counsel patients, other health care professionals, and communities about safe and proper use of medicines including OTC preparations and medical devices.	3.C2.6.	3.C2.6.1. Educate patients how to utilize medications sensibly and safely.
3-2-6 Maintain public awareness on social health hazards of drug misuse and abuse.	3.C2.7.	3.C2.7.1. Educate patients for disease prevention and healthy lifestyles.
		3.C2.7.2. Advise patients about the health and social hazards of drug abuse and misuse.

**DOMAIN 4: PERSONAL PRACTICE**

<b>4-1-1</b> Demonstrate responsibility for team performance and peer evaluation of other team members, and express time management skills.	4.C1.1.	4.C1.1.1. Work effectively as a member of team.
	4.C1.3.	4.C1.3.1. Manage time efficiently.
<b>4-1-3</b> Demonstrate creativity and apply entrepreneurial skills within a simulated entrepreneurial activity.	4.C1.7.	4.C1.7.1. Develop the entrepreneurial and marketing skills.
<b>4-2- COMPETENCY</b> Effectively communicate verbally, non-verbally and in writing with individuals and communities		
<b>4-2-1</b> Demonstrate effective communication skills verbally, non-verbally, and in writing with professional health care team, patients, and communities	4.C2.1.	4.C2.1.1. Use clear language, pace, tone and non-verbal communication with patients, other health team and communities.
<b>4-3- COMPETENCY</b> Express self-awareness and be a life-long learner for continuous professional improvement.		
<b>4-3-2</b> Practice independent learning needed for continuous professional development.	4.C3.2.	4.C3.2.1. Practice self and independent learning to stay up-to-date with the recent pharmaceutical findings in pharmacy profession.

### 3- Summer (preliminary) training contents:

Topics	Hours
Good practice concerning reading and dispensing prescriptions accurately, patient counseling on proper medication use, side effects, and storage, understanding over-the-counter (OTC) drugs and disease management, and pharmacy management and marketing.	100 contact hours.

### 4-Teaching and learning methods

Methods	Fundamental knowledge	Professional and ethical practice	Pharmaceutical care	Personal practice
<b>1. Self-learning</b>	1.C1.5. 1.C1.7. 1.C1.8 1.C1.10.	2.C1.3 2.C2.5 2.C6.2.	-	4.C3.2.
<b>2. Co-operative learning</b>	-	2.C1.7	-	4.C1.1.
<b>3. Field Training</b>	-	2.C1.1 2.C1.4 2.C1.5 2.C1.8 2.C4.1 2.C4.3.	3.C2.1. 3.C2.5. 3.C2.6. 3.C2.7.	4.C1.3. 4.C1.7. 4.C2.1.
<b>4. Problem Solving</b>	-	2.C1.7 2.C1.8 2.C4.1 2.C4.3. 2.C6.4.	3.C1.3.	-

## 5- Matrix 2 of the summer (preliminary) training to program Key elements:

Content	Fundamental knowledge	Professional and ethical practice	Pharmaceutical care	Personal practice
Good practice concerning reading and dispensing prescriptions accurately, patient counseling on proper medication use, side effects, and storage, understanding over-the-counter (OTC) drugs and disease management, and pharmacy management and marketing		2.C1.1.		
		2.C1.3		
		2.C1.4		
	1.C1.5.	2.C1.5	3.C1.3.	4.C1.1.
	1.C1.7.	2.C1.7.	3.C2.1.	4.C1.3.
	1.C1.8	2.C1.8.	3.C2.5.	4.C1.7.
	1.C1.10.	2.C2.5.	3.C2.6.	4.C2.1.
		2.C4.1.	3.C2.7.	4.C3.2.
		2.C4.3.		
		2.C6.2.		
		2.C6.4.		

## 6-Academic standards

The faculty is adapting the national academic reference standards (NARS) for pharmaceutical education, 2017.

## 7- Summer (preliminary) training admission requirements

According to the rules of bylaw of bachelor of Pharmacy -pharm D (Clinical pharmacy) Program, student must complete and pass the summer preliminary training after finishing the 3<sup>rd</sup> level and before starting the advanced training year.

## 8- Regulations for progression and completion of Summer (preliminary) training

According to the rules of bylaw of bachelor of Pharmacy -pharm D (Clinical pharmacy) Program and rules established by the faculty council for completion the summer preliminary training successfully, students must:

- Fulfill the specified duration of 100 contact hours in a community, hospital, or governmental pharmacy after finishing the 3<sup>rd</sup> level and before starting the advanced training year.
- Be assessed by both an external supervisor and an academic supervisor, with a minimum score of 30 marks out of 50.
- The whole or a part of the summer (preliminary) training can be accomplished in one of the following pharmacies

### **1- Community Pharmacy**

It provides the student with the opportunity to work closely with a pharmacist under the supervision of an academic supervisor chosen by the faculty. The student will be immersed in daily activities with a pharmacy owner and/or director. The student will be exposed to the full range of activities e.g. managerial tasks, patient counseling and community involvement that magnifies the practices of successful community pharmacists.

### **2- Hospital and governmental Pharmacy**

Hospital and governmental pharmacy training will provide students with the skills of undertaking medication history interviews and detailed medication management reviews, providing medicines information (at discharge and all points of contact with the healthcare system), interpreting clinical laboratory results and making recommendations on medicines, working in specialized units e.g. emergency, intensive care, aged care, oncology, pediatrics working in multidisciplinary teams with doctors, nurses and other healthcare professionals.

### **9- Evaluation (assessment) of Summer (preliminary) training**

- The student performance through the training through the assessment form by:

**1. External supervisor:** The external supervisor (director of the training pharmacy) completes the “assessment form”, which includes an evaluation of the various skills acquired by the student during the training. The form must be signed and stamped by the director of the pharmacy.

**2. Academic supervisor:** The academic supervisor completes the assessment based on student behaviour during training, the summer training assignment(s) and student discussion/interview

- By the end of the duration of the training, student assessment is performed so that the maximum is out of 50 degree and the minimum is out of 30 degrees; they are distributed as follows:

<b>Assessment method</b>	<b>Marks</b>	<b>Percentage</b>
<b>The external supervisor</b>	<b>10</b>	<b>20%</b>
<b>The academic supervisor</b>	<b>40</b>	<b>80%</b>
<b>Total</b>	<b>50</b>	<b>100%</b>

- The academic supervisors' reports of student's assessment in the (preliminary) training are approved by the faculty Council.

Vice Dean of Education and Student Affairs

*Hanan El Nahas*  
Prof. Dr. Hanan El Nahas

Dean of Faculty

*Amal El Gendy*  
Prof. Dr. Amal El- Gendy

**Appendix A**  
**Assessment form &**  
**Final Report**



كلية الصيدلة

وكاله شئون التعليم والطلاب

استمارة تقييم التدريب الميدانى الصيفى الخاص بالتدريب فى الصيدليات العام الجامعى

2024 / 2025

اسم الطالب :

المستوى الدراسي :

جهة التدريب :

الترقيم	المهارات المقاسة	ممتاز (4)	جيد جدا (3)	جيد (2)	مقبول (1)
1	استيعاب الطالب للمحتوى التدريبي فى الصيدلية				
2	الالتزام بأوقات التدريب والالتزام بقواعد العمل الخاصة بمؤسسه التدريب				
3	المهارات المكتسبة من التدريب				
4	قدرة الطالب على قراءة الوصفات الطبية				
5	المام الطالب بمبادئ ادراه الصيدلية وتنظيم الأدوية				
6	قدرة الطالب على التعامل مع اجهزة الحاسب الألى				
7	سلوك الطالب اثناء فترة التدريب				
8	إدراك المشاكل التي تواجه المرضى و كيفية مواجهتها والتعامل معها بشكل سليم				
9	المام الطالب بالفواعد المتبعة فى تسجيل و صرف الأدوية بالمستشفى او الصيدلية				
10	سلوك الطالب مع المرضى				
	المجموع	إجمالي الدرجات / 4 =			

إجمالي التقييم :

1	درجه المشرف الخارجى (10)
2	درجه تقييم المشرف الاكاديمى (40)
3	أجمالي التقييم (50)

غير لائق

المشرف الاكاديمى

لائق

