

Summer training program specification

The student should spend 200 hours in the summer vacation of the second year training in a community or hospital pharmacy, and another 200 hours in the summer vacation of the third year in a pharmaceutical firm or in a hospital applying principles of clinical pharmacy as a prerequisite for graduation .

Aim of the program:

- Providing students with knowledge, skills and abilities needed to practice the pharmacy profession effectively.
- Exposing the students to the different pharmaceutical settings where they are going to practice after graduation.

Fields:

Community pharmacies

Hospital pharmacies

Hospital pharmacies applying clinical pharmacy

Drug companies

Industrial settings

Intended learning outcomes

A-Knowledge and understanding:

a1- recognize clinical features of diseases including medical and non medical management

a2- understand general aspects of health policies, economics, marketing and planning.

a3-Define the different classification patterns of drugs in the pharmacies.

a4-List the different abused drugs and the regulation regarding their dispensing and usage.

a5-describe the different processes of drug manufacturing regarding quality control, in process control and production.

B- intellectual skills:

b1-apply knowledge and skills to specific health care situations.

b2-retrieve information & calculate and adjust dosage of medications, compounding and dispensing of prescriptions.

C-professional & practical skills:

c1-apply the acquired knowledge with necessary professional, practical and manipulative skills

c2-apply the patient counseling principles regarding the effective and safe use of medicines.

c3-apply the principles of QA (GMP & GLP) & QC.

c4- calculate the doses of different drugs including IV infusion, electrolyte concentration, ...etc.

c5-apply the different principles of the formulation of different dosage forms.

D- general & transferable skills:

d1-communicate with other health care team members to deliver certain drug information to them in a professional way.

d2-transfer public awareness of rational use of drugs and social health hazards of drug abuse and misuse.

d3-use different computer softwares for pharmacy management, calculations, ...etc

d4-retrieve information from different information sources.

Course contents:

The student should be trained on

- pharmacy management.
- Pharmacoeconomics and marketing.
- Patient counseling
- Formulation
- Drug manufacturing.
- Principles of QA
- Regulatory affairs
- Drug dispensing
- Handling different health care situation
- Computer softwares.

Teaching and learning methods:

- written reports
- publicity through the official website , the student guide, education and student affairs office
- practical training

Student assessment methods:

- assessment of periodic and final reports through the internal supervisor
- assessment document

Assessment schedule:

Weekly report

Final report at the end of the training program

List of references:

- drug index
- martindale
- EP, USP.
- official website.
- selected references recommended by the internal and external supervisors.

Facilities required for teaching and learning:

- libraries, IT unit
- database for the available training settings provided by the faculty of Pharmacy-Ain Shams university.
- training settings.

Supervision:

Professors, associate professors, lecturers and teaching assistants