

**Pharmaceutical Technology Lab**  
**University of Baghdad**  
**College of Pharmacy**  
**Third Level BSc Pharmacy**  
**1<sup>st</sup> semester**                      **2023-2024**



---

**Instructors:** Prof. Dr. Shaima Nazar Abdalhameed, [Shaimaa.Abd@copharm.uobaghdad.edu.iq](mailto:Shaimaa.Abd@copharm.uobaghdad.edu.iq)  
Assistant Prof Hala Talal, [Hala.solaiman@copharm.uobaghdad.edu.iq](mailto:Hala.solaiman@copharm.uobaghdad.edu.iq)  
Dr. Kawther Khalid Ahmed, [kawthar.joudi@copharm.uobaghdad.edu.iq](mailto:kawthar.joudi@copharm.uobaghdad.edu.iq)

**Students are encouraged to reach out to course instructors to seek help with class materials or inquire about other issues related to this course. Students can contact instructors using email addresses provided above or visit instructors on campus.**

**Class meeting time:**

Please refer to class time-table for the specific time of lectures for you group

**Brief course description:**

This course aims at introducing students to the basics of the technology of preparing different dosage forms with respect to their raw materials, compositions, methods of preparation, stability, storage and uses. Students will be preparing different dosage forms provided in a prescription format.

**Learning objectives:**

1. Understand the theoretical bases for the technology of preparing different dosage forms with respect to their raw materials, compositions, methods of preparation, stability, storage and uses.
2. Differentiate between the different liquid dosage forms with regards to their physical properties, appearance, methods of preparation, suitability for a given drug compound, and stability.
3. Select the appropriate liquid dosage form for a drug compound.

**Class notes and materials:**

1. Google classroom will be used as the electronic course management tool in this course. Students should login to the course site on Google classroom for lecture materials and assignments. Students will need to use their university email (name@copharm.uobaghdad.edu.iq) to log in to class website.
2. Typed handouts summarizing course materials are available for students and students are highly encouraged to get their copy prior to attending the lecture.

**Flipped classroom model:**

For some topics (noted in the topic section), a flipped classroom model will be used. This includes the followings:

- Class materials will be available before class meeting time.
- Students will have to review specified parts of class materials and/or watch a short video (available through the Google Classroom).
- Students will have a quiz at the beginning of the lecture
- During the lecture, the topic will be explained in more details.
- Students should expect a quiz at the end of the lecture.

**Course Topics:**

Below is a tentative list of the topics to be covered in this course (*\* topics will be tentatively delivered in a flipped classroom mode*)

1. Introduction to pharmaceutical technology
2. Solutions
3. Aromatic water
4. Syrup
5. Elixir
6. Spirits
7. Collodions
8. Extracted products
- 9. Suspensions\***
- 10. Colloidal dispersion\***

**Student evaluation:**

Lab	20%
Theoretical part	20%
Final exam	60%

For the theoretical part, students will collect grades from the mid-term exam and the quizzes throughout the semester. Students should expect pop quizzes with no prior notification. Some quizzes will be administered online through Google Classroom and these will be allowed sufficient time for students to turn in their answers.

**Electronic classroom expectations:**

The course website will be used for delivering course content and communication between students and instructors. All announcements will be made on the class website. Students are welcome to ask questions by commenting on the class material posted. Students can ask questions using the private comment feature where only instructors will be able to see the comments. This feature is available on all assignments and quizzes. When applicable, students will be allowed a sufficient time to submit their assignments. As such **late assignments will not be accepted.**

Please allow some time for instructors to see your comment or email and respond to it before you resend them.