

Pharmaceutics Department Manual

(Faculty of Pharmacy)

About the Pharmaceutics Department:

The Department of Pharmaceutics is one of the departments of the College of Pharmacy and its activities are integrated with the activities of the other departments of the College to achieve the vision, mission and goals of the College.

Vision of the department:

The Department of Pharmaceutics of the College of Pharmacy, University of Tabuk aspires to increase drug effectiveness and reduce its side effects by providing students with the knowledge and skills necessary to design and evaluate different dosage forms, and to conduct innovative research to deliver the drug to the affected place only within the body.

Mission of the department:

The Department of Pharmaceutics seeks to achieve the college's mission by providing students with the knowledge and practical and scientific expertise necessary to design, formulate and evaluate various traditional and modern pharmaceutical preparations in order to deliver a safe and effective drug to the patient's body.

Objectives:

- Providing students with the knowledge, skills and experience necessary to design and evaluate various pharmaceutical preparations.
- Contributing in preparing specialized graduates at a high level of proficiency to work in various pharmacy fields such as pharmaceutical industries, general pharmacies in the community and hospitals while ensuring good pharmacy practice standards in those areas.
- Conducting and encouraging scientific research based on the actual needs of the Kingdom.
- Cooperate with governmental and private agencies to solve problems facing the manufacture and evaluation of pharmaceuticals.
- Support and encourage students wishing to conduct scientific research and support and develop continuous pharmacy education.

The subjects taught by the department

Semester	Course title / code	Units
First	Pharmaceutical Calculations (PDPH0211)	2
	Pharmaceutics-1 (PDPH0331)	3
	Pharmaceutical Technology (PDPH0451)	3
Second	Physical Pharmacy (PDPH0221)	3
	Pharmaceutics-2 (PDPH0332)	2
	Biopharmaceutics & Pharmacokinetics (PDPH0341)	3

The executive plan to achieve the goals and mission of the Department

No.	Activities	Objectives	Steps	Responsible / Coordinator	Implementation period
1	Teaching basic courses related to Pharmaceutics to provide students with basic and advanced information on how to calculate drug doses for different patients.	Teaching pharmacy accounts course faculty members in the department for the second year (first semester)	Teaching of Pharmaceutical Calculations course	Faculty members of the Department	Second year (first semester)
		Providing students with basic and advanced information about the stability of medications, how to calculate the expiration date, and the effect of physical properties on the performance of various pharmacy forms. Teaching Physical Pharmacy course, Faculty members, Department of the second year (second semester)	Teaching of Physical Pharmacy course		Second year (second semester)
2	Teaching various courses related to dosage forms and how to prepare and manufacture them.	Providing the students with the skills needed for preparation and evaluation of various dosage forms and studying drug pharmacokinetics after oral administration or through various routes.	Teaching Pharmaceutics-1 course	Faculty members of the Department	Third year (first semester)
			Teaching Pharmaceutics-2 course		Third year (second semester)
			Teaching Biopharmaceutics and		Third year (second semester)

			Pharmacokinetics course		
		Providing the students with the skills needed for good manufacturing practice	Teaching Pharmaceutical Technology course		Fourth year (first semester)
3	Developing team spirit and working to serve the community.	Cooperating with the other departments in the college, university and society to achieve the college's mission.	Elective courses	Faculty members of the Department	Fourth year (Second semester), Fifth year (first and second semester)
			Pharmaceutical field training (1,2,3)		Third, fourth and fifth years
			Department research plan		Continuous

Research Plan of Pharmaceutics Department

Members of the Department of Pharmaceutics are interested in research that generally focuses on increasing the effectiveness of the drug and reducing the side effects associated with its use, with the aim of patient support and maximizing their access to treatment.

The department's research plan focuses on several axes:

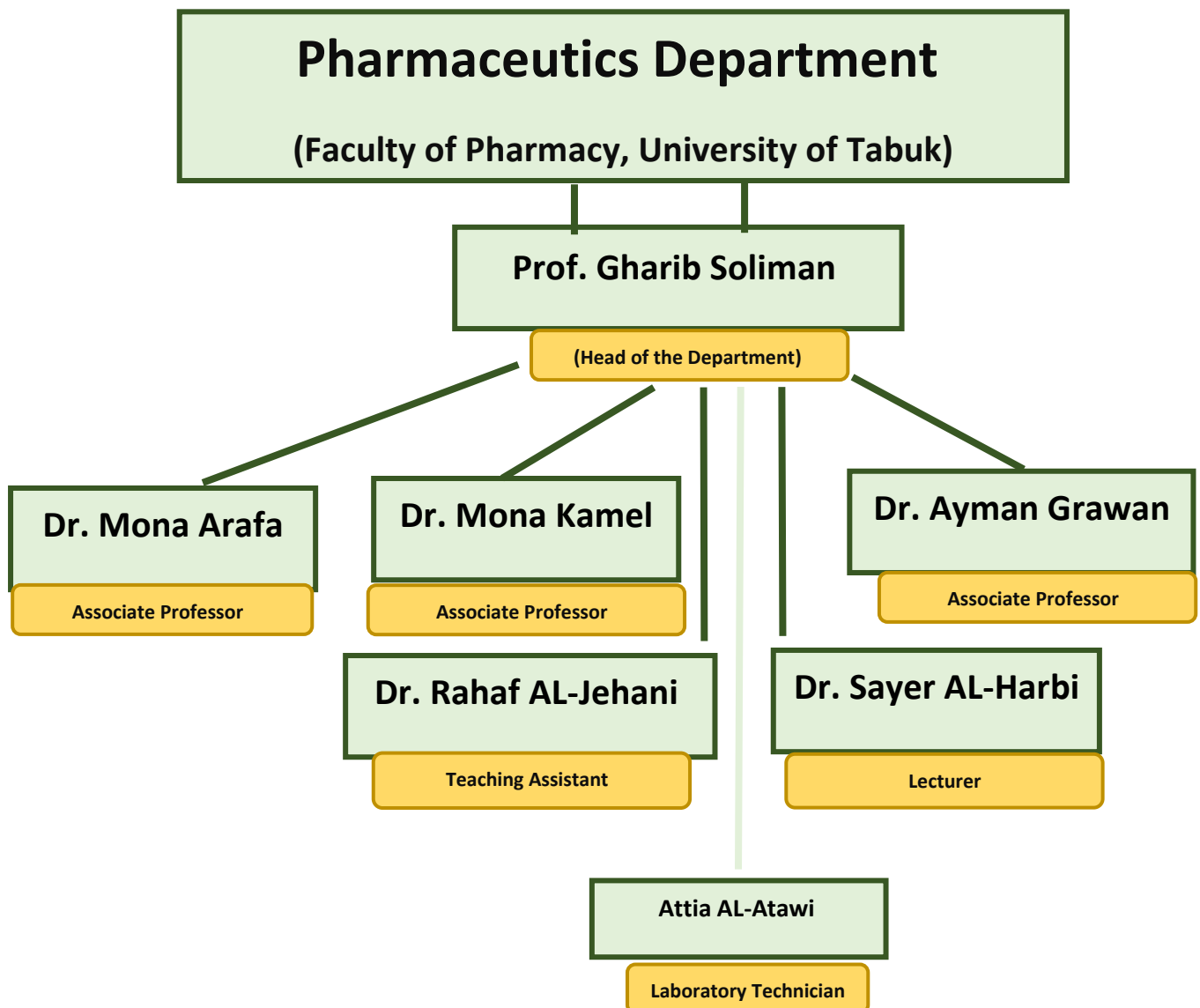
A- Working to increase the concentration of drugs in the affected places in the body and reduce the proportion of the drug that reaches the healthy parts of the body, using a number of advanced drug delivery systems, including: -

- 1- Gold nanoparticles.
- 2- Solid lipid nanoparticles.
- 3- Liposomes.
- 4- Polymeric nanoparticles

5- Vesicular drug delivery systems (Glycosomes, bilosomes, niosomes, transfersomes, ethoniosomes, binary ethoniosomes, ufasomes).

B - Increase the effectiveness of the drug by topical use of some pharmaceutical preparations, such as hydrogel, microemulsion and liquid crystal.

Organizational structure of the Pharmaceutics Department



Job Description for the Pharmaceutics Department:

Job title:

Department Supervisor

Post summary:

Supervising the scientific and administrative affairs in the department within the limits of the policies drawn by the department council and the college council.

The main functions:

1. Suggesting the teaching activities and other duties of the faculty members to be discussed in the department council.
2. Participate in proposing a scientific research plan and joint research in the department be discussed in the department council.
3. Follow up on the implementation of the decisions and policy of the Department Council and the College Council.
4. Supervising the department's employees and following up their work.
5. Participate in preparing the department's report at the end of each academic year.

Job title:

Teaching Staff Members (Professor - Associate Professor - Assistant Professor)

Post summary:

Teaching and teaching affairs for students and supervising the implementation of policies and decisions agreed upon in the department council.

The main functions:

1. Full-time teaching and research activities.
2. Contribute to conducting innovative research and studies.
3. Supervising laboratories.
4. Adhering to the traditions and the inherent university values and working to spread them among students.
5. Establish and support direct contact with students through academic guidance.
6. Keeping the system inside classrooms, lectures and laboratories.
7. Submit an annual report on teaching and scientific activities to the department council.
8. Participate in the work of councils and committees.
9. Participate in the work of scientific conferences, do the work of correcting theoretical exams, and supervise the process of reviewing results with controllers.
10. Supervising some student activities.

Job title:

Lecturers and teaching assistants

Post summary:

Lecturers and teaching assistants cooperate in the educational process according to the policies and decisions agreed upon in the department council.

The main functions:

1. Take charge of teaching practical courses in the laboratories under the supervision of faculty members in the department.
2. Do what they are assigned with practical lessons, exercises and other work.

3. Participate in the work of scientific conferences in the college, university and international.
4. Carry out monitoring activities in exams and audits in the controls under the supervision of faculty members.
5. Participate in student activities.