Internal Bylaw of Faculty of Pharmacy

Tanta University

The First Section

Faculty Departments, Scientific Degrees and Diplomas

Article (١): The Faculty consists of the following departments:

١. Department of Pharmaceutical Chemistry
٢. Department of Pharmaceutical Analytical Chemistry
٣. Department of Biochemistry
٤. Department of Pharmaceutical Technology
٥. Department of Pharmacognosy
٦. Department of Pharmaceutical Microbiology
٧. Department of Pharmacology & Toxicology
٨. Department of Clinical Pharmacy.

Article (٢):

a. Department of Pharmaceutical Chemistry teaches the following subjects:

Organic Chemistry, Pharmaceutical Chemistry, Forensic Chemistry, Drug Design, Therapeutic Chemistry, Medical Chemistry, and Radio Pharmacy

It organizes teaching the following subjects:

Mathematics (Computer), and Principles of Computer Use

b. The Department of Pharmaceutical Analytical Chemistry teaches the following materials:

Analytical Chemistry, Instrumental Analysis, Drug Control, and Food Chemistry

c. The Department of Biochemistry teaches the following subjects: Biology, Biochemistry, and Clinical Biochemistry
d. Department of Pharmaceutical Technology teaches the following subjects:

Pharmaceutics, Physical Pharmacy, Pharmaceutical Formulations, Biochemistry, Industrial Pharmacy, (Physical) Drug Control, Advanced Pharmaceutical Technology, Pharmaceutical Engineering, Cosmetics, and History of Pharmacy and Pharmacy Legislations

It organizes teaching the subject of:

Planning and Marketing of Medicines

e. Department of Pharmacognosy teaches the following subjects:

Medicinal Plants, Drugs, Chemistry of Crude drugs, and Biosynthesis of Natural Products

It organizes teaching the following subjects:

English Language - Second Foreign Language

f. Department of Pharmaceutical Microbiology teaches the following subjects:

Biology, Microbiology of Diseases, Pharmaceutical Microbiology, Drug (Microbiological) Control, and Public Health

It organizes teaching the following subjects:

Parasitology - Pathology of Diseases

g. Department of Pharmacology and Toxicology teaches the following subjects:

Biostatistics, Pharmacology, Toxicology, Bioassays, and Drug (Microbiological) Control

It organizes teaching the following subjects:

Anatomy, Histology, Physiology and Poison Control

h. Department of Clinical Pharmacy teaches the following subjects:

Clinical Pharmacy, Professional Pharmacy and Drugs' Interactions, Therapeutics, Drug Information, Hospital pharmacy, and Pharmacokinetics

It organizes teaching the following subjects:

Pharmacy Orientation, Sociology, Psychology, Pharmaceutical and Medical Terminology, and Health Care Administration

Article (٣):

Based on a request from Faculty of Pharmacy, Tanta University grants the following degrees and diplomas:

First: The Bachelor's degree in Pharmaceutical Sciences

Second: The Master's degree in Pharmaceutical Sciences

Third: The PhD degree in Pharmaceutical Sciences

Fourth: Postgraduate diplomas in the following specializations:

١- Drug Control

٢- Biochemical analysis
٣- Pharmaceutical Technology
٤- Microbiology
٥- Hospital Pharmacy
٦- Clinical Pharmacy

The Second Section

The Bachelor’s degree in Pharmaceutical Sciences

Article (٤):

A student has to study ١٨٠ accredited hours at least to gain the Bachelor's degree and has to spend ٤٠٠ training hours at least in pharmaceutical institutions.

Article (٥):

The subjects taught for gaining the Master's degree in Pharmaceutical Sciences:

a. Compulsory Subjects:

Medicinal Plants, Biology, English, Biostatistics, Pharmacy Orientation, Anatomy, Histology, Mathematics (Computer), Analytical Chemistry, Organic Chemistry, Pharmaceuticals, Physiology, Sociology, Physical Pharmacy, Pharmacognosy, Pharmaceutical Microbiology, Pharmaceutical and Medical Terminology, Psychology, Instrumental Analysis, Pharmaceutical Formulation, Biochemistry, Parasitology, Microbiology of Diseases, Biopharmaceutics, Pharmacokinetics, Pharmacology, Pathology of Diseases, Public Health, Industrial Pharmacy, Pharmaceutical Chemistry, Clinical Biochemistry, Toxicology, Clinical Pharmacy, History of Pharmacy and Pharmacy Legislations, Professional Pharmacy and Drugs' Interactions, Bioassays, Pharmaceutical Treatment, Health Care Administration, Drug Control, Forensic Chemistry, Drug Design, Drug Information, and elective subjects of six accredited hours.

b. Elective Subjects:

A student chooses ٦ accredited hours from these subjects:

١- Biosynthesis
٢- Food Chemistry
٣- Chemotherapy
٤- Radio Pharmacy

٥- Hospital Pharmacy
٦- Advanced Pharmaceutical Technology
٧- Pharmaceutical Engineering
٨- Medicinal Chemistry
٩- Biopharmaceutics
١٠- Pharmacognosy
١١- Chemistry of Crude drug
١٢- Cosmetics
١٣- Clinical Pharmacy
١٤- Drug Design
١٥- Foreign Language
١٦- Planning and Marketing of Medicines
١٧- Principals of Computer Applications
١٨- Drug Information
١٩- Poison and Pollution Control

Article (٦):

A student has to attend ٧٥٪ at least of the lectures and practical lessons. A student is deprived of all or some exams if his attendance is less than that percentage and in this case he is considered a failure in the curricula he was deprived of taking their exams. However, if he submits an apology accepted by Faculty Council, he is considered absent with an accepted excuse.

Article (٧):

The following tables show distribution of academic subjects to years of study and the total of hours allocated for lectures and practical lessons

in each subject. After, asking the opinion of councils of specialized departments, Faculty Council determines the topics to be studied in each subject.

The Preparatory Year

The First Semester

Subject	Lectures	Practical	Accredited Hours
Pharmaceutical Analytical Chemistry	٢	٢	٣
Pharmaceutical Organic Chemistry	٢	٢	٣
Medical Plants	٢	٢	٣
Biology	٢	٢	٣
English	٢	-	٢
Biostatistics	٢	١	٢
Pharmacy Orientation	١	-	١
Total number of accredited hours			١٧

The Second Semester

Subject	Lectures	Practical	Accredited Hours
Analytical Chemistry	٢	٢	٣
Organic Chemistry	٤	٢	٥
Medical Plants	٢	٢	٣
Mathematics	٢	١ exercises	٢
English	٢	-	٢
Anatomy	٢	٢	٣
Total number of accredited hours			١٨

The First Year

The First Semester

Subject	Lectures	Practical	Accredited Hours
Organic Chemistry	٤	٢	٥
Pharmaceutics	٢	٢	٣
Physiology	٣	٢	٤
Histology	٢	٢	٣
Sociology	٢	-	٢
Pharmacognosy	٢	٢	٣
Total number of accredited hours			٢٠

The Second Semester

Subject	Lectures	Practical	Accredited Hours
Analytical Chemistry	٢	٢	٣
Physical Pharmacy	٢	٢	٣
Pharmacognosy	٢	٢	٣
Physiology	٣	٢	٤
Pharmaceutical Microbiology	٢	٢	٣
Medical & Pharmaceutical Terminology	١	-	١
Psychology	٢	-	٢
Total number of accredited hours			١٩

The Second Year

The First Semester

Subject	Lectures	Practical	Accredited Hours
Instrumental Analysis	٢	٢	٣
Pharmaceutical Microbiology	٢	٢	٣
Pharmaceutical Formulations	٣	٢	٤
Biochemistry	٢	٢	٣
Chemistry of Crude Drugs	٣	٤	٥
Parasitology	٢	٢	٣
Total number of accredited hours			٢٠

The Second Semester

Subject	Lectures	Practical	Accredited Hours
Pharmaceutical Formulations	٢	٢	٣
Microbiology of Diseases	٢	٢	٣
Biochemistry	٢	٢	٣
Chemistry of Crude Drugs	٣	٤	٥
Biopharmaceutics	٢	٢	٣
Pharmacokinetics	٢	٢	٣
Total number of accredited hours			٢٠

The Third Year

The First Semester

Subject	Lectures	Practical	Accredited Hours
Pharmaceutical Formulations	٢	٢	٣
Pharmacology	٣	٢	٤
Pathology of Diseases	٢	٢	٣
Hygiene	٣	-	٣
Industrial Pharmacy	٢	٢	٣
Pharmaceutical Chemistry	٢	٢	٣
Total number of accredited hours			١٩

The Second Semester

Subject	Lectures	Practical	Accredited Hours
Pharmaceutical Chemistry	٢	٢	٣
Pharmacognosy	٢	٢	٣
Pharmacology	٣	٢	٤
Clinical Biochemistry	٢	٢	٣
Toxicology	٢	٢	٣
Clinical Pharmacy	٢	٢ at a hospital	٣
History of Pharmacy and Pharmacy Laws	١	-	١
Total number of accredited hours			٢٠

The Fourth Year

The First Semester

Subject	Lectures	Practical	Accredited Hours
Clinical Pharmacy	٢	٢ at a hospital	٣
Professional Pharmacy and Drug Interactions	١	٢	٢
Bioassays	٢	٢	٣
Therapeutics	٣	-	٣
Toxicology	٢	٢	٣
Industrial Pharmacy	٢	٢	٣
Forensic Chemistry	١	٢	٢
Elective Course	٢	٢	٣
Total number of accredited hours			١٩

The Second Semester

Subject	Lectures	Practical	Accredited Hours
Clinical Pharmacy	٢	٢	٣
Professional Pharmacy and Drug Interactions	١	٢	٢
Drug Design	٢	٢	٣
Industrial Pharmacy (GMP)	١	٢	٢
Drug Control	٢	٢	٣
Health Care Administration	٢	-	٢
Drug Information	٢	-	٢
Elective Course	٢	٢	٣
Total number of accredited hours			٢٠

The elective courses include:

١. Biosynthesis
٢. Food Chemistry
٣. Chemotherapy
٤. Radio Pharmacy
٥. Hospital Pharmacy
٦. Advanced Pharmaceutical Technology
٧. Pharmaceutical Engineering
٨. Medicinal Chemistry
٩. Biopharmaceutics
١٠. Pharmacognosy
١١. Chemistry of Crude drug
١٢. Cosmetics
١٣. Clinical Pharmacy
١٤. Drug Design
١٥. Foreign Language
١٦. Planning and Marketing of Medicines
١٧. Principals of Computer Applications
١٨. Drug Information
١٩. Poison and Pollution Control

An elective course is activated when ١٠ students at least register for it. In addition, to register for an elective course, a student has to have gained an estimation of "Good" at least in the basic subjects in the same specialization of the elective course as determined by Faculty Council. Faculty Council is authorized to make exceptions for a number of students.

Article (٨):

The following subjects show marks of different exams in each academic year:

The Preparatory Year

The First Semester

Subject	Periodical exams	Practical throughout the first semester	Semester Exams		Total	Hours of Semester Exams
			Oral	Written		
Pharmaceutical Analytical Chemistry	٣٠	٦٠	٦٠	١٥٠	٣٠٠	٣
Pharmaceutical Organic Chemistry	٣٠	٦٠	٦٠	١٥٠	٣٠٠	٣
Medical Plants	٣٠	٦٠	٦٠	١٥٠	٣٠٠	٣
Biology	٣٠	٦٠	٦٠	١٥٠	٣٠٠	٣
English	٤٠	-	٤٠	١٢٠	٢٠٠	٣
Biostatistics	٨٠	-	-	١٢٠	٢٠٠	٣
Pharmacy Orientation	٢٠	-	٢٠	٦٠	١٠٠	١,٥

The Second Semester

Subject	Periodical exams	Practical throughout the first semester	Semester Exams		Total	Hours of Semester Exams
			Oral	Written		
Analytical Chemistry	٣٠	٦٠	٦٠	١٥٠	٣٠٠	٣
Organic Chemistry	٥٠	١٠٠	١٠٠	٢٥٠	٥٠٠	٣
Medical Plants	٣٠	٦٠	٦٠	١٥٠	٣٠٠	٣
Mathematics (computer)	٨٠	-	-	١٢٠	٢٠٠	٢
English	٤٠	-	٤٠	١٢٠	٢٠٠	٢
Anatomy	٣٠	٦٠	٦٠	١٥٠	٣٠٠	٣

The First Year

The First Semester

Subject	Periodical exams	Practical throughout the first semester	Semester Exams		Total	Hours of Semester Exams
			Oral	Written		
Organic Chemistry	٥٠	١٠٠	١٠٠	٢٥٠	٥٠٠	٣
Pharmaceutics	٣٠	٦٠	٦٠	١٥٠	٣٠٠	٣
Physiology	٤٠	٨٠	٨٠	٢٠٠	٤٠٠	٣
Histology	٣٠	٦٠	٦٠	١٥٠	٣٠٠	٣
Sociology	٤٠	-	٤٠	١٢٠	٢٠٠	٢
Pharmacognosy	٣٠	٦٠	٦٠	١٥٠	٣٠٠	٣

The Second Semester

Subject	Periodical exams	Practical throughout the first semester	Semester Exams		Total	Hours of Semester Exams
			Oral	Written		
Analytical Chemistry	٣٠	٦٠	٦٠	١٥٠	٣٠٠	٣
Physical Pharmacy	٣٠	٦٠	٦٠	١٥٠	٣٠٠	٣
Pharmacognosy	٣٠	٦٠	٦٠	١٥٠	٣٠٠	٣
Physiology	٤٠	٨٠	٨٠	٢٠٠	٤٠٠	٣
Pharmaceutical Microbiology	٣٠	٦٠	٦٠	١٥٠	٣٠٠	٣
Medical & Pharmaceutical Terminology	٢٠	-	٢٠	٦٠	١٠٠	١,٥
Psychology	٤٠	-	٤٠	١٢٠	٢٠٠	٢

The Second Year

The First Semester

Subject	Periodical exams	Practical throughout the first semester	Semester Exams		Total	Hours of Semester Exams
			Oral	Written		
Instrumental Analysis	٣٠	٦٠	٦٠	١٥٠	٣٠٠	٣
Pharmaceutical Microbiology	٣٠	٦٠	٦٠	١٥٠	٣٠٠	٣
Pharmaceutical Formulations	٣٠	٦٠	٦٠	١٥٠	٣٠٠	٣
Biochemistry	٣٠	٦٠	٦٠	١٥٠	٣٠٠	٣
Chemistry of Crude Drugs	٥٠	١٠٠	١٠٠	٢٥٠	٥٠٠	٣
Parasitology	٣٠	٦٠	٦٠	١٥٠	٣٠٠	٣

The Second Semester

Subject	Periodical exams	Practical throughout the first semester	Semester Exams		Total	Hours of Semester Exams
			Oral	Written		
Pharmaceutical Formulations	٣٠	٦٠	٦٠	١٥٠	٣٠٠	٣
Microbiology of Diseases	٣٠	٦٠	٦٠	١٥٠	٣٠٠	٣
Biochemistry	٣٠	٦٠	٦٠	١٥٠	٣٠٠	٣
Chemistry of Crude Drugs	٥٠	١٠٠	١٠٠	٢٥٠	٥٠٠	٣
Biopharmaceutics	٣٠	٦٠	٦٠	١٥٠	٣٠٠	٣
Pharmacokinetics	٣٠	٦٠	٦٠	١٥٠	٣٠٠	٣

The Third Year

The First Semester

Subject	Periodical exams	Practical throughout the first semester	Semester Exams		Total	Hours of Semester Exams
			Oral	Written		
Pharmaceutical Formulations	٣٠	٦٠	٦٠	١٥٠	٣٠٠	٣
Pharmacology	٤٠	٨٠	٨٠	٢٠٠	٤٠٠	٣
Pathology of Diseases	٣٠	٦٠	٦٠	١٥٠	٣٠٠	٣
Hygiene	٦٠	-	٦٠	١٨٠	٣٠٠	٣
Industrial Pharmacy	٣٠	٦٠	٦٠	١٥٠	٣٠٠	٣
Pharmaceutical Chemistry	٣٠	٦٠	٦٠	١٥٠	٣٠٠	٣

The Second Semester

Subject	Periodical exams	Practical throughout the first semester	Semester Exams		Total	Hours of Semester Exams
			Oral	Written		
Pharmaceutical Chemistry	٣٠	٦٠	٦٠	١٥٠	٣٠٠	٣
Pharmacognosy	٣٠	٦٠	٦٠	١٥٠	٣٠٠	٣
Pharmacology	٤٠	٨٠	٨٠	٢٠٠	٤٠٠	٣
Clinical Biochemistry	٣٠	٦٠	٦٠	١٥٠	٣٠٠	٣
Toxicology	٣٠	٦٠	٦٠	١٥٠	٣٠٠	٣
Clinical Pharmacy	٣٠	٦٠	٦٠	١٥٠	٣٠٠	٣
History of Pharmacy and Pharmacy Laws	٢٠	-	٢٠	٦٠	١٠٠	١,٥

The Fourth Year

The First Semester

Subject	Periodical exams	Practical throughout the first semester	Semester Exams		Total	Hours of Semester Exams
			Oral	Written		
Clinical Pharmacy	٣٠	٦٠	٦٠	١٥٠	٣٠٠	٣
Professional Pharmacy and Drug Interactions	٢٠	٤٠	٤٠	١٠٠	٢٠٠	٢
Bioassays	٣٠	٦٠	٦٠	١٥٠	٣٠٠	٣
Therapeutics	٦٠	-	٦٠	١٨٠	٣٠٠	٣
Industrial Pharmacy	٣٠	٦٠	٦٠	١٥٠	٣٠٠	٣
Forensic Chemistry	٢٠	٤٠	٤٠	١٠٠	٢٠٠	٢
Elective Course	٣٠	٦٠	٦٠	١٥٠	٣٠٠	٣

The Second Semester

Subject	Periodical exams	Practical throughout the first semester	Semester Exams		Total	Hours of Semester Exams
			Oral	Written		
Clinical Pharmacy	٣٠	٦٠	٦٠	١٥٠	٣٠٠	٣
Professional Pharmacy and Drug Interactions	٢٠	٤٠	٤٠	١٠٠	٢٠٠	٢
Drug Design	٣٠	٦٠	٦٠	١٥٠	٣٠٠	٣
Industrial Pharmacy (GMP)	٢٠	٤٠	٤٠	١٠٠	٢٠٠	٣
Drug Control	٣٠	٦٠	٦٠	١٥٠	٣٠٠	٣
Health Care Administration	٤٠	-	٤٠	١٢٠	٢٠٠	٢
Drug Information	٤٠	-	٤٠	١٢٠	٢٠٠	٢
Elective Course	٣٠	٦٠	٦٠	١٥٠	٣٠٠	٣

Article (٩):

Oral exams are held in the first semester in two subjects at least and in no more than half of the subjects taught. A student is entitled to choose the subjects in which he is going to take oral exams provided that registration for oral exams is before December each year.

Concerning the subjects without oral exams, the mark allocated for oral exam is added to the written exam of the same subject. Faculty Council creates the system of periodical exams during the semester according to the tables stipulated in article (٨) of the bylaw.

Article (١٠):

A student has to take two training periods whose sum is not less than ٤٠٠ hours according to the training project ratified annually by Faculty Council.

١- The first period:

It is not less than ٢٠٠ hours in the summer holiday that comes after the second year in a private pharmacy or pharmacy of a hospital.

٢- The second period:

It is not less than ٢٠٠ hours in the summer holiday that comes after the third year in a factory of pharmaceuticals or in a hospital that applies clinical pharmacy system.

A student can continue training for more hours in one of these fields according to his desire and he has to inform Faculty Council in a written way if he stopped the training whether temporarily or permanently. A student cannot be granted the Bachelor's degree in Pharmaceutical Sciences unless he submits a certificate ratified by the official in each of the previously mentioned pharmaceutical institutions where he was trained. The certificate proves that he satisfactorily spent the period of

training. This certificate is ratified by Faculty Council based on a report from training supervisors appointed by Faculty Council.

Article (١١):

A student's success is assessed with one of the following estimations:

Excellent: ٨٥٪ or more of the total marks

Very Good: from ٧٥٪ to less than ٨٥٪ of the total marks

Good: from ٦٥٪ to less than ٧٥٪ of the total marks

Fair:

a) from ٦٠٪ to less than ٦٥٪ of the total marks in basic sciences
b) from ٥٠٪ to less than ٦٥٪ of the total marks of human and complementary subjects
c) in the general estimation a student is successful in all subjects and got less than ٦٥٪ of the total marks

A student who failed is assessed with one of the following estimations:

Poor:

a) from ٣٠٪ to less than ٦٠٪ of the total marks in basic sciences
b) from ٣٠٪ to less than ٥٠٪ of the total marks of human and complementary subjects

Very Poor: less than ٣٠٪ of the total marks

Remark:

Human and complementary subjects include: English, Mathematics (computer), Psychology, Sociology, and Health Care Administration

Article (١٢):

In the light of article ١١, the final estimation of the Bachelor's degree in Pharmaceutical Sciences is determined according to the marks obtained in all academic years including the preparatory year. However, the preparatory year is excluded when a student is granted the honor's degree as stipulated in the last paragraph of article ٨٥ of the executive bylaw of Universities Organization Law amended by the republican decree No. ٣٧٠ of ١٩٨٩.

Article (١٣):

A student succeeds in subjects when he gets the total marks of the estimation of "Fair" at least according to stipulation of article (١١) of this bylaw provided that the mark he gets in the written exam is not less than ٣٠٪ of the total marks allocated for that exam.

Article (١٤):

A student is transferred to the next academic year if he succeeds in all subjects or fails no more than two basic subjects and two complementary subjects as a maximum in each semester. In this case, the student takes the exams of the subjects he failed with students of his past academic year.

Regarding final year students who fail no more than four subjects in the two semesters, exams are held for them in the subjects they failed in September of the next academic year. If they fail again, they take the exam of the subjects they failed at the end of the same year and so on.

Repeated Article (١٤):

A student is not granted the Bachelor's degree in Pharmaceutical Sciences unless he gains the International Computer Driving License (ICDL) or an equivalent certificate with effect from the academic year ٢٠٠٨-٢٠٠٩, i.e. beginning from students who join preparatory year at the Faculty in ٢٠٠٨-٢٠٠٩.