

CURRICULUM

FIRST SEMESTER

Course Code	Course Type	Prerequisite#	Course Name	T	P	GC	ECTS
PHAR101	Compulsory	-	General Chemistry	3	0	3	5
PHAR103	Compulsory	-	Medical Biology and Genetics	3	0	4	6
PHAR105	Compulsory	-	Pharmacy Terminology	2	0	2	2
PHAR107	Compulsory	-	Behavioral Sciences	2	0	2	2
PHAR109	Compulsory	-	First Aid	2	0	2	3
MTE101	Compulsory	-	Elementary Calculus	3	0	3	5
COMP103	Compulsory	-	Introduction to Computer	2	2	3	4
EGL101	Compulsory	-	Reading and Writing Skills - 1	2	2	3	3
TURK001	Compulsory	-	Composition and Elementary Turkish-1 ^a	2	0	0	0
TFL101	Compulsory	-	Turkish for Foreigners-1 ^b	2	0	0	0
NH001	Compulsory	-	National History-1 ^a	2	0	0	0
Total*	-	-	-	-	-	22	30

^aOnly for students coming from TR / TRNC Countries. ^bOnly for students coming from other Countries

SECOND SEMESTER

Course Code	Course Type	Prerequisite#	Course Name	T	P	GC	ECTS
PHAR102	Compulsory	-	General Physics	3	0	3	4
PHAR104	Compulsory	PHAR101	Organic Chemistry 1	3	0	3	5
PHAR106	Compulsory	-	Biostatistics	2	0	2	4
PHAR108	Compulsory	-	Anatomy	2	0	3	4
PHAR110	Compulsory	-	Plant Biology	2	0	2	3
PHAR112	Compulsory	-	Public Health	2	0	2	3
EGL102	Compulsory	EGL101	Reading and Writing Skills - 2	2	2	3	3
TURK002	Compulsory	-	Composition and Elementary Turkish-2 ^a	2	0	0	0
TFL102	Compulsory	TFL101	Turkish for Foreigners-2 ^b	2	0	0	0
NH002	Compulsory	NH001	National History-2 ^a	2	0	0	0
PHARXXX	Elective	-		2	0	2	2
Total	-	-	-	-	-	20	28

^aOnly for students coming from TR / TRNC Countries. ^bOnly for students coming from other Countries

THIRD SEMESTER

Course Code	Course Type	Prerequisite#	Course Name	T	P	GC	ECTS
PHAR201	Compulsory	PHAR101	Analytical Chemistry 1	3	-	3	5
PHAR203	Compulsory	PHAR101	Biochemistry 1	3	0	3	5
PHAR205	Compulsory		Pharmaceutical Microbiology	3	-	3	5
PHAR207	Compulsory	PHAR105	Introduction to Pharmacy and Pharmacy Practice	2	2	3	3
PHAR209	Compulsory		Physiology	2	0	2	4
PHAR211	Compulsory	PHAR104	Organic Chemistry 2	3	0	3	4
PHAR213	Compulsory		Immunology	2	0	2	3
PHAR215	Compulsory	PHAR101	Analytical Chemistry Laboratory 1	0	3	1	2
PHAR217	Compulsory	-	Pharmaceutical Microbiology Laboratory	0	3	1	2
PHRXXX	Elective	-	Elective	2	0	2	2
Total	-	-	-	-	-	23	35

FOURTH SEMESTER

Course Code	Course Type	Prerequisite#	Course Name	T	P	GC	ECTS
PHAR202	Compulsory		Pharmaceutical Technology 1	3	-	3	4
PHAR204	Compulsory	PHAR203	Biochemistry 2	2	0	2	3
PHAR206	Compulsory	PHAR101,104,211	Pharmaceutical Chemistry 1	3	-	3	3
PHAR208	Compulsory		Pathophysiology	2	0	2	3
PHAR210	Compulsory	PHAR209,203	Pharmacology 1	4	0	4	6
PHAR212	Compulsory		Pharmaceutical Botany	3	-	3	3
PHAR214	Compulsory	PHAR201,215	Analytical Chemistry 2	3	-	3	5
PHAR216	Compulsory		Pharmaceutical Technology Laboratory 1	0	3	1	2
PHAR218	Compulsory	PHAR101,104,211	Pharmaceutical Chemistry Laboratory 1	0	3	1	2
PHAR220	Compulsory		Pharmaceutical Botany Laboratory	0	3	1	2
PHAR222	Compulsory	PHAR201,215	Analytical Chemistry Laboratory 2	0	3	1	2
Total	-	-	-	-	-	24	35

*PHAR200, At the end of fourth semester (During Summer)

FIFTH SEMESTER

Course Code	Course Type	Prerequisite#	Course Name	T	P	GC	ECTS
PHAR200*	Compulsory	PHAR207	Community Pharmacy Training*	0	0	0	3
PHAR301	Compulsory	PHAR212	Pharmacognosy 1	2	-	2	3
PHAR303	Compulsory	PHAR206,218	Pharmaceutical Chemistry 2	3	-	3	3
PHAR305	Compulsory	PHAR216,202	Pharmaceutical Technology 2	3	-	4	5
PHAR307	Compulsory	PHAR210	Pharmacology 2	2	0	2	4
PHAR309	Compulsory	PHAR203,204	Clinical Biochemistry	2	3	3	5
PHAR311	Compulsory	PHAR212	Pharmacognosy Laboratory 1	0	3	1	2
PHAR313	Compulsory	PHAR206,218	Pharmaceutical Chemistry Laboratory 2	0	3	1	2
PHAR315	Compulsory	PHAR216, 202	Pharmaceutical Technology Laboratory 2	0	3	1	2
PHARXXX	Elective	-	-	2	0	2	2
PHARXXX	Elective	-	-	2	0	2	2
Total	-	-	-	-	-	21	33

SIXTH SEMESTER

Course Code	Course Type	Prerequisite#	Course Name	T	P	GC	ECTS
PHAR302	Compulsory	PHAR301	Pharmacognosy 2	2	-	2	3
PHAR304	Compulsory	PHAR303,313	Pharmaceutical Chemistry 3	3	-	3	3
PHAR306	Compulsory	PHAR305,315	Pharmaceutical Technology 3	3	-	4	4
PHAR308	Compulsory	PHAR307	Pharmacotherapy	2	0	2	4
PHAR310	Compulsory	PHAR307	Pharmacology 3	2	0	2	4
PHAR312	Compulsory	PHAR301,311	Pharmacognosy Laboratory 2	0	3	1	2
PHAR314	Compulsory	PHAR303,313	Pharmaceutical Chemistry Laboratory 3	0	3	1	2
PHAR316	Compulsory	PHAR305,315	Pharmaceutical Technology Laboratory 3	0	3	1	2
PHARXXX	Elective	-	-	2	0	2	2
Total	-	-	-	-	-	18	26

*PHAR300, At the end of sixth semester (During Summer)

SEVENTH SEMESTER

Course Code	Course Type	Prerequisite#	Course Name	T	P	GC	ECTS
PHAR300*	Compulsory	PHAR200	Community-Hospital Pharmacy and Pharmaceutical Industry & Cosmetics Industry Training 2 (Summer)*	0	0	0	3
PHAR401	Compulsory	PHRA203	Pharmaceutical Biotechnology	3	0	3	4
PHAR403	Compulsory	PHAR306,318	Pharmaceutical Technology 4	3	-	3	4
PHAR405	Compulsory		Pharmaceutical Toxicology	3	-	3	3
PHAR407	Compulsory	PHAR302,314	Pharmacognosy 3	3	-	3	4
PHAR409	Compulsory	PHAR310	Clin. Pharmacy and Pharmaceutical Care 1	2	3	4	6
PHAR411	Compulsory		Pharmacy Management	2	0	2	3
PHAR413	Compulsory	PHAR306,318	Pharmaceutical Technology Laboratory 4	0	3	1	2
PHAR415	Compulsory		Pharmaceutical Toxicology Laboratory	0	3	1	2
PHAR417	Compulsory	PHAR302,314	Pharmacognosy Laboratory 3	0	3	1	2
Total	-	-	-	-	-	21	33

EIGHT SEMESTER

Course Code	Course Type	Prerequisite#	Course Name	T	P	GC	ECTS
PHAR402	Compulsory		Biopharmaceutics and Pharmacokinetics	3	0	3	4
PHAR404	Compulsory	-	Research Methods and Skills	2	0	2	3
PHAR406	Compulsory	-	History of Pharmacy, Deontology Law Ethics and Professionalism in Pharmacy Practice	3	0	3	4
PHAR408	Compulsory	PHAR409	Clin. Pharmacy and Pharmaceutical Care 2	3	2	4	6
PHAR410	Compulsory	PHAR306,318	Cosmetology	2	-	2	3
PHAR412	Compulsory	PHAR306,318	Cosmetology Laboratory	0	3	1	2
PHARXXX	Elective/Free Elective	-	-	2	0	2	2
PHARXXX	Elective / Free Elective	-		2	0	2	2
Total	-	-	-	-	-	19	26

*PHAR400, At the end of seventh semester (During Summer)

NINETH SEMESTER FOR BACHELOR OF PHARMACY

Course Code	Course Type	Prerequisite#	Course Name	T	P	GC	ECTS
PHAR400*	Compulsory	PHAR300	Training 3 (Summer)*	0	0	0	3
PHAR501	Compulsory	-	Graduation Project 1	0	3**	6	13
PHARXXX	Elective	-		2	0	2	2
PHARXXX	Elective	-		2	0	2	2
PHARXXX	Elective	-		2	0	2	2
PHARXXX	Elective / Free Elective	-		2	0	2	2
Total	-	-		-	-	14	24

*, In order to take these courses (PHAR400) they should pass all of the previous courses.

**For each student 3 credits and the upper limit for the instructor is 12 credits

TENTH SEMESTER FOR BACHELOR OF PHARMACY

Course Code	Course Type	Prerequisite#	Course Name	T	P	GC	ECTS
PHAR502	Compulsory	PHAR501	Graduation Project 2	0	3**	6	16
PHAR504	Compulsory	PHAR400	Advanced Clinical Pharmacy and Hospital Patient Care (Pharmacy Internship)	0	25	12	14
Total	-	-		-	-	18	30
Total Graduation Credit						200	300

*Students should take at least 22 credits from electives.

**For each student, 3 credits and the upper limit for the instructor is 12 credits

A prerequisite means a course that a student must have taken prior to enrolling in a specific course or program.

- For example for taking Organic Chemistry 1 the prerequisite course which is General Chemistry should be taken and passed in previous semester.

GAU FACULTY OF PHARMACY ELECTIVE COURSES FOR NEW PROGRAM

New Code	Course Name	T	P	GC	ECTS
PHAR114	Computer Applications in Pharmacy Practice	2	0	2	2
PHAR116	Food and Drug Interactions	2	0	2	2
PHAR219	Supplementary Medicine	2	0	2	2
PHAR221	Introduction to Pharmaceutical Technology	2	0	2	2
PHAR317	Cosmetics	2	0	2	2
PHAR319	Health and Drug Economy	2	0	2	2
PHAR321	Instrumental Analysis	2	0	2	2
PHAR318	Functional Groups in Organic Chemistry	2	0	2	2
PHAR320	Good Manufacturing Practice (GMP)	2	0	2	2
PHAR414	Nutrition and Physical Activity Counselling	3	0	3	3
PHAR416	Herbal Products and Supplements	3	0	3	3
PHAR418	Colors and Effects on Health and Healthcare Structure	3	0	3	3
PHAR420	Introduction to Biochemistry Laboratory	2	0	2	2
PHAR422	Protein Production by Recombinant DNA Technology	2	0	2	2
PHAR424	Fundamentals of "Pharmapreneurship"	2	0	3	3
PHAR426	Pharmacy Practice Innovation	2	0	2	2
PHAR503	Oxidants and Antioxidants	2	0	2	2
PHAR505	Planning-Space Organization (Personal Spase, Privacy)	3	0	3	3
PHAR507	Basic Principles of Radiopharmacy	2	0	2	2
PHAR509	Patient Education and Monitoring	2	0	2	2
PHAR511	Drug Design	2	0	2	2
PHAR513	Drug Information in Clinical Pharmacy	2	0	2	2
PHAR515	Manufacturing and Quality Control of Active Pharmaceuticals Ingredients	2	0	2	2
PHAR517	Nutrition for Pharmaceutical Sciences	3	0	3	3
PHAR519	Special Topics in Biochemistry	2	0	2	2
PHAR521	Pharmacovigilance and Drug Interactions	2	0	2	2
PHAR523	Industrial Pharmacy	2	0	2	2
PHAR525	Pharma 4.0	2	0	2	2
PHAR527	Nanotherapeutics	2	0	2	2
PHAR529	Patients' Safety and Medical Error	2	0	2	2
PHAR531	DNA Isolation, Amplification and DNA Library	2	3	3	4