

Faculty of pharmacy

Advisory study plan

First Academic Year – First Semester

Course No.	Course Name	Credit Hours	Weekly hours		Pre-requisite(s)
			Theory	Practical	
CHEM 103	General Chemistry for Medical Students	3	3	-	-
CHEM 107	General Chemistry for Medical Students Practice	1	-	3	CHEM 103 or Concurrent
BIO 111	General Biology for Medical Students	3	3	-	-
BIO 112	General Biology Practical for Medical Students	1	-	3	BIO 111 or concurrent
MATH 101	Calculus	3	3	-	-
EL 101	English language	3	3	-	-
	Total	14			

First Academic Year – Second Semester

Course No.	Course Name	Credit Hours	Weekly hours		Pre-requisite(s)
			Theory	Practical	
CS 110	Programming in a Selected Language	3	-	3	-
PHYS 101	General Physics (1)	3	3	-	-
BIO 201	Human Anatomy and Physiology	3	3	-	BIO 111
CHEM 215	Organic Chemistry	3	3	-	CHEM 103
MILT 100	Military Sciences	3	3	-	
	Total	15			

Second Academic Year – First Semester

Course No.	Course Name	Credit Hours	Weekly hours		Pre-requisite(s)
			Theory	Practical	
PHAR 210	Pharmaceutical organic Chemistry	3	3	-	CHEM 215
PHAR 211	Pharmaceutical organic Chemistry lab	1	-	3	PHAR 210 or Concurrent
PHAR 213	Pharmaceutical Analytical Chemistry	3	3	-	CHEM 215
PHAR 214	Pharmaceutical Analytical Chemistry Practical	1	-	3	PHAR 213 or Concurrent
PHAR 215	Physical Pharmacy	3	3	-	CHEM 103 + MATH 101
PHAR 216	Physical Pharmacy Practical	1	-	3	PHAR 215 or Concurrent
PHAR 230	Physiology for Pharmacy	3	3	-	BIO 201
STAT 203	Biostatistics	3	3	-	MATH 101
	Total	18			

Second Academic Year – Second Semester

Course No.	Course Name	Credit Hours	Weekly hours		Pre-requisite(s)
			Theory	Practical	
PHAR 212	Biochemistry	3	3	-	PHAR 210
PHAR 220	Pharmaceutical Calculations and Compounding	3	3	-	PHAR 215
PHAR 221	Pharmaceutical Calculations and Compounding Practical	1	-	3	PHAR 220 or Concurrent
PHAR 231	Pathophysiology for Pharmacy	3	3	-	PHAR 230
AL101	Arabic Language	3	3	-	-
	Elective university requirement - 1	3	3	-	-
	Total	16			

Third Academic Year – First Semester

Course No.	Course Name	Credit Hours	Weekly hours		Pre-requisite(s)
			Theory	Practical	
PHAR 312	Pharmaceutical Instrumental Analysis	3	3	-	PHAR 210 + PHAR 213
PHAR 313	Pharmaceutical Instrumental Analysis Practical	1	-	3	PHAR 312 or Concurrent
PHAR 320	Pharmaceutical Technology	3	3	-	PHAR 220
PHAR 321	Pharmaceutical Technology Practical	1	-	3	PHAR 320 or Concurrent
PHAR 332	Pharmacology (1)	3	3	-	PHAR 231
PS 102	National Education	3	3	-	-
	Elective university requirement - 2	3	3	-	-
	Total	17			

Third Academic Year – Second Semester

Course No.	Course Name	Credit Hours	Weekly hours		Pre-requisite(s)
			Theory	Practical	
PHAR 310	Phytotherapy and Phytochemistry	3	3	-	PHAR 210
PHAR 311	Phytotherapy and Phytochemistry Practical	1	-	3	PHAR 310 or Concurrent
PHAR 315	Clinical Biochemistry	3	3	-	PHAR 212
PHAR 322	Principles of Business for Pharmacy	2	2	-	PHAR 332
PHAR 330	Pharmaceutical Microbiology	3	3	-	PHAR 230
PHAR 331	Pharmaceutical Microbiology Practical	1	-	3	PHAR 330 or Concurrent
PHAR 333	Pharmacology (2)	3	3	-	PHAR 232
	Total	16			

Fourth Academic Year – First Semester

Course No.	Course Name	Credit Hours	Weekly hours		Pre-requisite(s)
			Theory	Practical	
PHAR 410	Medicinal Chemistry (1)	3	3	-	PHAR 233
PHAR 420	Biopharmaceutics and Pharmacokinetics	3	3	-	PHAR 320 + PHAR 212
PHAR 421	Case Studies in Pharmacokinetics	1	-	3	PHAR 420 or Concurrent
PHAR 422	Pharmacoepidemiology and Pharmacoeconomics	2	2	-	PHAR 322
PHAR 431	Therapeutics (1)	3	3	-	PHAR 333
PHAR 441	Natural Products and Alternative Medicine	3	3	-	PHAR 311
	Elective Faculty Requirement - 1	3	3	-	
	Total	18			

Fourth Academic Year – Second Semester

Course No.	Course Name	Credit Hours	Weekly hours		Pre-requisite(s)
			Theory	Practical	
PHAR 411	Medicinal Chemistry (2)	2	2	-	PHAR 410
PHAR 412	Medicinal Chemistry (2) Practical	1	-	3	PHAR 411 or Concurrent
PHAR 423	Cosmetic Preparations	2	2	-	PHAR 320
PHAR 432	Therapeutics (2)	3	3	-	PHAR 331
PHAR 440	Pharmaceutical Marketing	3	3	-	PHAR 422
	Elective Faculty requirement – 2	3	3	-	-
	Elective University requirement – 3	3	3	-	-
	Total	17			

Fourth Academic Year – Summer Semester

Course No.	Course Name	Credit Hours	Weekly hours		Pre-requisite(s)
			Theory	Practical	
PHAR 430	Pharmaceutical Practical Training (8 weeks)	3	-	40	Completion of 120 Credit Hours

Fifth Academic Year – First Semester

Course No.	Course Name	Credit Hours	Weekly hours		Pre-requisite(s)
			Theory	Practical	
PHAR 523	Advanced Pharmaceutical Technology	3	3	-	PHAR 320
PHAR 530	Clinical Therapeutics	3	3	-	PHAR 432
PHAR 533	Immunology and Vaccines	2	2	-	PHAR 332
PHAR 540	Pharmaceutical Biotechnology	3	3	-	PHAR 330
	Elective Faculty requirement – 3	3	3	-	-
	Elective University requirement – 4	3	3	-	-
	Total	17			

Fifth Academic Year – Second Semester

Course No.	Course Name	Credit Hours	Weekly hours		Pre-requisite(s)
			Theory	Practical	
PHAR 510	Drug Design	3	3	-	PHAR 411
PHAR 520	Drug Delivery Systems	2	2	-	PHAR 420
PHAR 532	Toxicology	3	3	-	PHAR 333
PHAR 541	Research and Development in Pharmacy	3	3	-	PHAR 420
	Elective University requirement -5	3	3	-	
	Total	14			