

Republic of Yemen

Ministry of Higher Education & Scientific Research
University of Modern Sciences
Faculty of Medical Sciences
Department of Pharmacy



جامعة العلوم الحديثة
University of Modern Sciences

الجمهورية اليمنية
وزارة التعليم العالي و البحث العلمي
جامعة العلوم الحديثة
كلية العلوم الطبية
قسم الصيدلة

الخططة الدراسية

كلية العلوم الطبية - قسم الصيدلة

2019م



First Year								
First Semester				Second Semester				
No	Code	Subject	Credit	No	Code	Subject	Credit	
1	FOP111	General Biology	3	1	FOP121	General chemistry	3	
2	FOP112	Mathematics	2	2	PHT122	Pharmaceutical calculations	2	
3	FOP113	Physics	3	3	FOP123	Medical terminology	2	
4	PHC114	Introduction to pharmacy	2	4	PHT124	Physical pharmacy	3	
5	UMS01	Computer skills	2	5	FOP125	Anatomy and Histology	3	
6	UMS02	Arabic language	2	6	PHG126	Botany	3	
7	UMS03	English Language	2	7	FOP127	First aid	2	
Second Year								
First Semester				Second Semester				
No	Code	Subject	Credit	No	Code	Subject	Credit	
1	PHT211	Pharmaceutics I	3	1	PHT221	Pharmaceutics II	3	
2	PHC212	Analytical chemistry I	3	2	PHC222	Analytical chemistry II	3	
3	FOP213	Physiology I	2	3	FOP223	Physiology II	2	
4	PHC214	Pharmaceutical organic chemistry I	3	4	PHC224	Pharmaceutical organic chemistry II	3	
5	PHG215	Pharmacognosy I	3	5	PHG225	Pharmacognosy II	3	
6	UMS04	Islamic culture	2	6	FOP226	Medical biochemistry I	3	
7	UMS05	Communication skills	2	7	FOP227	Psychology	2	
Third Year								
First Semester				Second Semester				
No	Code	Subject	Credit	No	Code	Subject	Credit	
1	PHT311	Pharmaceutics III	3	1	PHL321	Toxicology	2	
2	PHL312	Pharmacology I	2	2	PHL322	Pharmacology II	2	
3	FOP313	Medical Microbiology	3	3	FOB323	Medical parasitology	3	
4	FOP314	Medical biochemistry II	3	4	FOP324	Biostatistics	2	
5	FOP315	Pathology	2	5	PHC325	Medicinal chemistry II	3	
6	PHT316	Cosmetic preparations	3	6	PHG326	Phytochemistry II	3	
7	PHG317	Phytochemistry I	3	7	FOP327	Pharmaceutical microbiology	3	
8	PHC318	Medicinal chemistry I	3					
Fourth Year								
First Semester				Second Semester				
No	Code	Subject	Credit	No	Code	Subject	Credit	
1	PHPP411	Community pharmacy I	3	1	PHPP421	Community pharmacy II	3	
2	PHL412	Pharmacology III	2	2	PHC422	Pharmaceutical Instrumental analysis II	3	
3	PHC413	Medicinal chemistry III	3	3	PHC423	Medicinal chemistry IV	3	
4	PHT414	Industrial pharmacy	3	4	PHPP424	Clinical pharmacy I	2	
5	PHT415	Biopharmaceutics& pharmacokinetics I	2	5	PHT425	Biopharmaceutics & pharmacokinetics II	3	
6	PHC416	Pharmaceutical instrumental analysis I	3	6	PHL426	Pharmacology IV	3	
7	PHT417	Novel drug delivery systems	2	7	PHT427	Pharmaceutical biotechnology	2	
Fifth Year								
First Semester				Second Semester				
No	Code	Subject	Credit	No	Code	Subject	Credit	
1	PHPP511	Clinical pharmacy II	3	1	PHPP521	Hospital pharmacy	2	
2	PHG512	Complementary and alternative medicine	3	2	FOP522	Pharmaceutical marketing	2	
3	PHT513	Pharmaceutical quality control	3	3	FOP523	Pharmacy regulations & ethics	2	
4	FOP514	Public health	2	4	PHT524	Nuclear pharmacy	2	
5	FOP515	Pharmacoeconomics & Pharmacoepidemiology	2	5	PHPP525	Pharmacy training II	3	
6	FOP516	Research methodology	2	6	FOP526	Graduation research project	4	
7	PHPP517	Pharmacy training I	3					

الخطة الدراسية لبرنامج الصيدلة

Study Plan

No. of Courses: 70
Total Credit Hours =180 Credit Hours

FIRST LEVEL- SEMESTER 1

1st Year : first Semester								
No	Code	Courses Titles	Credit Hours					Total C.H.
			Theo.				Pr.	
			L	Tu.	S.	T.T		
1	FOP 111	General biology	2	-	-	-	1	3
2	FOP 112	Mathematics	2	-	-	-	-	2
3	FOP 113	Physics	2	-	-	-	1	3
4	FOP 114	Introduction to pharmacy	2	-	-	-	-	2
5	UMS 01	Computer skills	1	-	-	-	1	2
6	UMS 02	Arabic language	2	-	-	-	-	2
7	UMS 03	English Language	2	-	-	-	-	2
Total Credit Hours			13	0	0	-	3	16

L: Lecture; Tu.: Tutorial, S.: seminar; T.T: Total Theory; Pr.: Practical ; C.H: Credit hours

FIRST LEVEL- SEMESTER 2

1st Year : second Semester								
No	Code	Courses Titles	Credit Hours					Total C.H.
			Theo.				Pr.	
			L.	Tu.	S.	T.T		
1	FOP121	General chemistry	2	-	-	-	1	3
2	PHT122	Pharmaceutical calculations	2	-	-	-	-	2
3	FOP 123	Medical terminology	2	-	-	-	-	2
4	PHT 124	Physical pharmacy	2	-	-	-	1	3
5	FOP 125	Anatomy and Histology	2	-	-	-	1	3
6	PHG 126	Botany	2	-	-	-	1	3
7	FOP 172	First aid	2	-	-	-	-	2
Total Credit Hours			11	-	-	-	4	18

SECOND LEVEL- SEMESTER 1

2nd Year : first Semester								
Code / No	Courses Titles		Credit Hours					Total C.H.
			Theo.				Pr.	
			L	Tu.	S.	T.T		
1	PHT 211	Pharmaceutics I	2	-	-	-	1	3
2	PHC 212	Analytical chemistry I	2	-	-	-	1	3
3	FOP 213	Physiology I	2	-	-	-	-	2
4	PHC 214	Pharmaceutical organic chemistry I	2	-	-	-	1	3
5	PHG 215	Pharmacognosy I	2	-	-	-	1	3
6	UMS04	Islamic culture	2	-	-	-	-	2
7	UMS05	Communication skills	2	-	-	-	-	2
Total of Credit Hours			14	-	-	-	4	18

SECOND LEVEL- SEMESTER 2

2nd Year : second Semester								
Code / No	Courses Titles		Credit Hours					Total C.H.
			Theo.				Pr.	
			L	Tu.	S.	T.T		
1	PHT 221	Pharmaceutics II	2	-	-	-	1	3
2	PHC 222	Analytical chemistry II	2	-	-	-	1	3
3	FOP 223	Physiology II	2	-	-	-	-	2
4	PHC 224	Pharmaceutical organic chemistry II	2	-	-	-	1	3
5	PHG 225	Pharmacognosy II	2	-	-	-	1	3
6	FOP 226	Medical biochemistry I	2	-	-	-	1	3
7	FOP 227	Psychology	2	-	-	-	-	2
Total of Credit Hours			14	0	-	-	5	19

THIRD LEVEL- SEMESTER 1

3rd Year: first Semester								
Code / No	Courses Titles		Credit Hours					Total C.H.
			Theo.				Pr.	
			L	Tu.	S.	T.T		
1	PHT 311	Pharmaceutics III	2	-	-	-	1	3
2	PHL 312	Pharmacology I	2	-	-	-	-	2
3	FOP 313	Medical Microbiology	2	-	-	-	1	3
4	FOP 314	Medical biochemistry II	2	-	-	-	1	3
5	FOP 315	Pathology	2	-	-	-	-	2
6	PHT 316	Cosmetic preparations	2	-	-	-	1	3
7	PHG317	Phytochemistry I	2	-	-	-	1	3
8	PHC 318	Medicinal chemistry I	2	-	-	-	1	3
Total of Credit Hours			16	-	-	-	6	22

THIRD LEVEL- SEMESTER 2

3rd Year : second Semester								
Code / No	Courses Titles		Credit Hours					Total C.H.
			Theo.				Pr.	
			L	Tu.	S.	T.T		
1	PHL 321	Toxicology	2	-	-	-	-	2
2	PHL 322	Pharmacology II	2	-	-	-	-	2
3	FOP 323	Medical parasitology	2	-	-	-	1	3
4	FOP 324	Biostatistics	1	1	-	-	-	2
5	PHC 325	Medicinal chemistry II	2	-	-	-	1	3
6	PHG326	Phytochemistry II	2	-	-	-	1	3
7	PHT327	Pharmaceutical microbiology	2	-	-	-	1	3
Total of Credit Hours			13	1	0	0	4	18

FOURTH LEVEL- SEMESTER 1

4th Year : first Semester								
Code / No	Courses Titles		Credit Hours					Total C.H.
			Theo.				Pr.	
			L	Tu.	S.	T.T		
1	PHPP 411	Community pharmacy I	2	-	-	-	1	3
2	PHL 412	Pharmacology III	2	-	-	-	-	2
3	PHC 413	Medicinal chemistry III	2	-	-	-	1	3
4	PHT 414	Industrial pharmacy	2	-	-	-	1	3
5	PHT 415	Biopharmaceutics& pharmacokinetics I	2	-	-	-	-	2
6	PHC 416	Pharmaceutical instrumental analysis I	2				1	3
7	PHT 417	Novel drug delivery systems	2	-	-	-	-	2
Total of Credit Hours			14	-	-	-	4	18

FOURTH LEVEL- SEMESTER 2

4th Year : second Semester								
Code / No	Courses Titles		Credit Hours					Total C.H.
			Theo.				Pr.	
			L	Tu.	S.	T.T		
1	PHPP 421	Community pharmacy II	2	-	-	-	1	3
2	PHC 422	Pharmaceutical Instrumental analysis II	2	-	-	-	1	3
3	PHC 423	Medicinal chemistry IV	2	-	-	-	1	3
4	PHPP 424	Clinical pharmacy I	1	-	1	-	-	2
5	PHT 425	Biopharmaceutics& pharmacokinetics II	2	-	-	-	1	3
6	PHL 426	Pharmacology IV	2	-	-		1	3
7	PHT 427	Pharmaceutical biotechnology	2	-	-	-	-	2
Total of Credit Hours			13	-	1	-	5	19

FIFTH LEVEL- SEMESTER 1

5th Year : first Semester									
Code / No	Courses Titles	Credit Hours					Total C.H.		
		Theo.				Pr.			
		L	Tu.	S.	T.T				
1	PHPP 511	Clinical pharmacy II		2	-	1	-	-	3
2	PHG 512	Complementary and alternative medicine		2	-	-	-	1	3
3	PHT 513	Pharmaceutical quality control		2	-	-	-	1	3
4	FOP 514	Public health		2	-	-	-	-	2
5	FOP 515	Pharmacoeconomics and Pharmacoepidemiology		2	-	-	-	-	2
6	FOP 516	Research methodology		2	-	-	-	-	2
7	PHPP 517	Pharmacy training I		-	-	-	-	3*	3
Total of Credit Hours				12	-	1	0	5	18

*: 3 credit hrs are equivalent to 325 contact hrs; 25 hrs/ week for 13 weeks

FIFTH LEVEL- SEMESTER 2

5th Year : second Semester									
Code / No	Courses Titles	Credit Hours					Total C.H.		
		Theo.				Pr.			
		L	Tu.	S.	T.T				
1	PHPP 521	Hospital pharmacy		1	-	1	-	-	2
2	FOP522	Pharmaceutical marketing		2	-	-	-	-	2
3	FOP 523	Pharmacy regulations & ethics		2	-	-	-	-	2
4	PHT 524	Nuclear pharmacy		2	-	-	-	-	2
5	PHPP 525	Pharmacy training II		-	-	-	-	3**	3
6	FOP 526	Graduation research project		-	-	-	-	4	4
Total of Credit Hours				7	-	1	0	7	15

** : 3 credit hrs are equivalent to 325 contact hrs; 25 hrs/ week for 13 week

Distribution of Total Credit Hours:

Level	Semester	University Requirements		Faculty Requirements		Program * Requirements		Training		Project		Total Cr. Hrs.		Total Cr. Hrs./ Level
		No. of Courses	Credit Hours	No. of Courses	Credit Hours	No. of Courses	Credit Hours	No. of Courses	Credit Hours	No. of Courses	Credit Hours	No. of Courses	Credit Hours	
First	1	3	6	3	8	1	2	-	-	-	-	7	16	34
	2	-	-	4	10	3	8	-	-	-	-	7	18	
Second	1	2	4	1	2	4	12	-	-	-	-	7	18	37
	2	-	-	3	7	4	12	-	-	-	-	7	19	
Third	1	-	-	3	8	5	13	-	-	-	-	8	21	39
	2	-	-	3	8	4	10	-	-	-	-	7	18	
Fourth	1	-	-	-	-	7	18	-	-	-	-	7	18	37
	2	-	-	-	-	7	19	-	-	-	-	7	19	
Fifth	1	-	-	3	6	3	9	1	3	-	-	7	18	33
	2	-	-	2	4	2	4	1	3	1	4	5	15	
Total:		5	10	22	53	40	107	2	6**	1	4	70	180	180
Percentage:		5.6 %		29.4 %		59.4 %		3.3%		2.2%		100%		

* 25 hrs. /week for 13 weeks: 325 contact hrs.

:** :25 hrs. /week for 26 weeks: 650 contact hrs.