

D. Clinical Pharmacy Program Requirements (47 Credit hours)							
No.	Course Code	Course Name	Theoretical	Seminar	Practical	Training Contact hrs	Total Credit hrs
1.	02.02.232	Drug Information Resources	2				2
2.	03.01.215	Clinical Biochemistry	2				2
3.	02.01.211	Clinical Nutrition	2				2
4.	02.01.212	Therapeutics (1)	2		2		3
5.	02.01.215	Therapeutics (2)	2		2		3
6.	02.01.218	Therapeutics (3)	2		2		3
7.	02.01.217	Pharmaceutical Care	2				2
8.	02.01.221	Clerkship-I				252 hrs.	5
9.	02.03.241	Pharmaceutical Biotechnology	2				2
10.	02.01.223	Clinical Pharmacokinetics	2		2		3
11.	03.02.216	Clinical. Immunology	2				2
12.	03.02.215	Clinical. Microbiology	2				2
13.	02.01.219	Pharmacy Practice (1)	2				2
14.	02.01.224	Pharmacy Practice (2)	2				2
15.	02.01.220	Therapeutics (4)	2		2		3
16.	02.01.222	Therapeutics (5)	2				2
17.	02.01.225	Clerkship-II				252 hrs.	5
18.	02.01.226	Research Project	1		2		2
Total			29		10	10	47
Total credit hours			47				

E. Distribution of Courses according to Semesters							
#	Course Code	Level 1 / Semester 1	Credit hours				Total Credit Hours
		Course Name	Theoretical	Seminar	Practical	Training	
1	06.11.205	Islamic Culture	2				2
2	06.11.203	English Language	4				4
3	06.11.201	Arabic language	4				4
4	06.11.208	Medical Physics	2				2
5	02.04.243	General Chemistry	2				2
6	04.01.218	Medical Terminology	2				2
7	04.01.217	Fundamentals of Nursing	2		2		3
8	05.02.224	Medical Ethics	2				2
Total			20		2		21
Total of Credit Hours			21				

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#	Course Code	Level 1 / Semester 2	Credit Hours				Total
		Course Name	Theoretical	Seminar	Practical	Training	
1	03.01.207	Biochemistry-I	2		2		3
2	01.01.202	Histology	2		2		3
3	03.01.208	Fundamentals of Nutrition	2				2
4	05.03.221	Computer Skills	2		2		3
5	01.01.201	Anatomy	2		2		3
6	05.01.220	Communication skills	2				2
7	01.01.203	Physiology-I	2				2
Total			14		8		18
Total of Credit Hours			18				

#	Course Code	Level 2 / Semester 1	Credit Hours				Total
		Course Name	Theoretical	Seminar	Practical	Training	
1.	03.02.210	General Microbiology	2		2		3
2.	03.01.213	Biochemistry-II	2		2		3
3.	03,01,315	Molecular Biology	2				2
4.	03.02.211	Fundamental of Immunology	2				2
5.	01.01.205	General Pathology	2		2		3
6.	03.04.212	Parasitology	2		2		3
7.	1.01.206	Physiology II	2				2
Total			14		8		18
Total of Credit Hours			18				

#	Course Code	Level 2 / Semester 2	Credit Hours				Total
		Course Name	Theoretical	Seminar	Practical	Training	
1.	02.03.236	Pharmacology-I	2				2
2.	03.01.216	Biochemistry-III	2		2		3
3.	02.04.244	Pharmaceutical Organic Chemistry-I	2		2		3
4.	05.02.222	Medical statistics	2				2
5.	02.04.246	Pharmaceutical Analytical Chemistry	2		2		3
6.	02.02.227	Physical Pharmacy	2		2		3
Total			12		8		16
Total of Credit Hours			16				

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#	Course Code	Level 3 / Semester 1	Credit Hours				Total
		Course Name	Theoretical	Seminar	Practical	Training	
1.	02.04.247	Pharmaceutical analytical chemistry (2)	2		2		3
2.	02.02.229	Pharmaceutics-I	2		2		3
3.	02.04.249	Pharmacognosy	2		2		3
4.	02.04.245	Pharmaceutical Organic Chemistry-II	2		2		3
5.	02.03.237	Pharmacology-II	2				2
6.	02.01.211	Clinical Nutrition	2				2
Total			12		8		16
Total of Credit Hours							16

#	Course Code	Level 3 / Semester 2	Credit Hours				Total
		Course Name	Theoretical	Seminar	Practical	Training	
1.	02.04.264	Phytochemistry	2				2
2.	02.03.238	Pharmacology-III	2				2
3.	02.04.248	Medicinal Chemistry-I	2		2		3
4.	02.02.231	Pharmaceutics-II	2		2		3
5.	02.04.251	Pharmaceutical Instrumental Analysis	2				2
6.	02.02.230	Biopharmaceutics	2				2
Total			12		4		14
Total of Credit Hours							14

#	Course Code	Level 4 / Semester 1	Credit Hours				Total
		Course Name	Theoretical	Seminar	Practical	Training	
1	02.01.212	Therapeutics (1)	2		2		3
2	02.01.213	Hospital Pharmacy	2				2
3	02.02.234	Pharmaceutics-III	2		2		3
4	02.01.216	Community Pharmacy*	2			2	4
5	02.04.250	Medicinal Chemistry II	2		2		3
6	02.03.239	Pharmacology-IV	2				2
Total			12		6	2	17
Total of Credit Hours							17

*360 contact hours training in a community pharmacy setting (hrs. (6 hrs./ 5 days/ week)

#	Course Code	Level 4 / Semester 2	Credit Hours				Total
		Course Name	Theoretical	Seminar	Practical	Training	

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1.	02.01.215	Therapeutics (2)	2		2		3
2.	02.01.217	Pharmaceutical Care	2				2
3.	02.01.214	Basic Pharmacokinetics	2				2
4.	05.02.223	Research Methodology	2				2
5.	02.02.232	Drug Information Resources	2				2
6.	03.01.215	Clinical Biochemistry	2				2
Total			12		2		13
Total of Credit Hours			13				

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#	Course Code	Level 5 / Semester 1	Credit Hours				Total
		Course Name	Theoretical	Seminar	Practical	Training	
1	02.01.221	Clerkship-I**				252 hrs.	5
2	02.02.233	Pharmacoepidemiology and Pharmacoeconomics	2				2
3	02.01.218	Therapeutics (3)	2		2		3
4	02.03.240	Pharmacology-V	2				2
5	03.02.216	Clinical. Immunology	2				2
6	03.02.215	Clinical Microbiology	2				2
7	02.01.219	Pharmacy Practice (1)	2				2
8	02.02.235	Pharmaceutical promotion and marketing	2				2
Total			14		2	5	20
Total of Credit Hours			20				

#	Course Code	Level 5 / Semester 2	Credit Hours				Total
		Course Name	Theoretical	Seminar	Practical	Training	
1	02.01.223	Clinical Pharmacokinetics	2		2		3
2	02.03.242	Toxicology	2				2
3	02.01.220	Therapeutics (4)	2		2		3
4	02.01.222	Therapeutics (5)	2				2
5	02.01.225	Clerkship- II **				252 hrs.	5
6	02.01.226	Research Project	2				2
7	02.01.224	Pharmacy Practice (2)	2				2
8	02.03.241	Pharmaceutical Biotechnology	2				2
Total			14		4	5	21
Total of Credit Hours			21				

Clerkship I & II **: Total Hospital wards rotations: 504 contact hrs.