

Elective Courses

مقررات اختيارية

The Faculty of Pharmacy offers elective courses from which the students are free to select eight credit hours.

Course Code	Course Title	Credit Hours			Prerequisite
		L	P/T	Total	
PM E 07	Gene Regulation and Epigenetic	1	1	2	General Microbiology and Immunology
PM E 08	Infection Control	1	1	2	Pharmaceutical Microbiology
PG E 08	Chromatography and Separation Techniques	1	1	2	Phytochemistry II
PG E 09	Analysis of Food and Flavor	1	1	2	Phytochemistry I Phytochemistry II
PA E 06	Advanced Pharmaceutical Analysis – Spectroscopy	1	1	2	Instrumental Analysis
PO E 08	Veterinary Pharmacology	1	1	2	Pharmacology IV
PO E 09	Biological Standardization	1	1	2	Pharmacology III
MD E 07	Bioinformatics	1	1	2	Biotechnology & Molecular Biology
PP E 08	Oncology	1	1	2	Pharmacology IV
PP E 09	Pediatrics & Geriatric	1	1	2	Pharmacology IV
PT E 012	Cosmetic Preparations	1	1	2	Pharmaceutics II Pharmaceutics III
PT E 013	Applied Industrial Pharmacy	1	1	2	Pharmaceutical Technology I Pharmaceutical Technology II
PB E 05	Clinical Nutrition	1	1	2	Clinical Biochemistry

L: Lecture P: Practical T: Tutorial

- لمجلس الكلية طرح المقررات الإختيارية من الامثلة المذكورة بالجدول السابق في كل مستوى/فصل دراسي وذلك بعد إختيار الطلاب وتخطر مجالس الأقسام العلمية المختصة ويمكن للكلية إضافة مقررات إختيارية أخرى ويشترط موافقة مجلس الجامعة بعد إبداء المبررات اللازمة.

مرفق رقم ٢
خاص بالمادة رقم (١٨)
الخطة الدراسية

17- Programme Curriculum (6 cr. Hours of university requirements + 172 Cr hours of professional program)

Table (1)

Semester (1)

Course Title	Course Code	Credit Hours			Prerequisite	Examination Marks				Total Marks	Final Exam. Hours
		Lect.	Pract.	Total		Period/Act.	Pract.	Wr.	Oral		
Pharmaceutical Analytical Chemistry I	PA 101	2	1	3	Registration	15	25	50	10	100	2
Pharmaceutical Organic Chemistry I	PR 101	2	1	3	Registration	15	25	50	10	100	2
Pharmacy Orientation	PT 101	1	-	1	Registration	25	--	75	---	100	1
Medicinal Plants	PG 101	2	1	3	Registration	15	25	50	10	100	2
Medical Terminology	MD 101	1	-	1	Registration	25	-	75	-	100	1
Information Technology***	NP 101	1	1	2	Registration	15	25	60	-	100	1
Mathematics	NP 102	1	---	1	Registration	25	--	75	--	100	1
English language-I	UR 101	1	---	1	Registration	25	---	75	---	pass	1
Social Issues	UR 102	1	---	1	Registration	25	--	75	--	pass	1
Total		12	4	16						700	

○ *Lect.* = Lecture , *Period. /Act.*= Periodical/Activity ,*Pract.* = Practical, *Wr.* = Written, UR: مقرر لا تضاف للمجموع *** supervised by pharmacy practice department

Table (2)

Semester (2)

Course Title	Course Code	Credit Hours			Prerequisite	Examination Marks				Total Marks	Final Exam. Hours
		Lect.	Pract.	Total		Period./Act.	Pract.	Wr.	Oral		
Pharmaceutical Analytical Chemistry II	PA 202	2	1	3	Registration	15	25	50	10	100	2
Pharmaceutical Organic Chemistry II	PR 202	2	1	3	Pharmaceutical Organic Chemistry-I	15	25	50	10	100	2
Anatomy& Histology	MD 202	2	1	3	Registration	15	25	60	-	100	2
Physical Pharmacy	PT 202	2	1	3	Registration	15	25	50	10	100	2
Pharmacognosy I	PG 202	2	1	3	Medicinal Plants	15	25	50	10	100	2
Psychology	UR 203	1	-	1	Registration	25	-	75	-	pass	1
Cell Biology	PB 201	1	1	2	Registration	15	25	50	10	100	1
Principle of Quality	UR 204	1	-	1	Registration	25	-	75	-	pass	1
English language-II	UR 205	1	-	1	English Language-I	25	-	75	-	pass	1
Total		14	6	20						600	

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Table (3)

Semester (3)

Course Title	Course Code	Credit Hours			Prerequisite	Examination Marks				Total Marks	Final Exam. Hours
		Lect.	Pract.	Total		Period/Act..	Pract.	Wr.	Oral		
Pharmaceutical Analytical Chemistry III	PA 303	1	1	2	Pharmaceutical Analytical Chemistry I	15	25	50	10	100	1
Pharmaceutical Organic Chemistry III	PR 303	2	1	3	Pharmaceutical Organic Chemistry-II	15	25	50	10	100	2
Pharmacognosy II	PG 303	2	1	3	Medicinal Plant	15	25	50	10	100	2
Biophysics	MD 303	1	1	2	Registration	15	25	50	10	100	1
Physiology and Pathophysiology	MD 304	2	1	3	Registration	15	25	50	10	100	2
General Microbiology and Immunology	PM 301	2	1	3	Cell Biology	15	25	50	10	100	2
Pharmaceutics I	PT 303	2	1	3	Physical Pharmacy	15	25	50	10	100	2
Total		12	7	19						700	

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Table (4)

Semester (4)

Course Title	Course Code	Credit Hours			Prerequisite	Examination Marks				Total Marks	Final Exam. Hours
		Lect.	Pract.	Total		Period./Act.	Pract.	Wr.	Oral		
Biochemistry I	PB 402	2	1	3	Pharmaceutical Organic Chemistry I	15	25	50	10	100	2
Instrumental Analysis	PA 404	2	1	3	Pharmaceutical Analytical Chemistry II	15	25	50	10	100	2
Pathology	MD 405	1	1	2	Anatomy & Histology	15	25	50	10	100	1
Pharmaceutics II	PT 404	2	1	3	Pharmaceutics I	15	25	50	10	100	2
Pharmacology-1	PO 401	2	1	3	Physiology	15	25	50	10	100	2
Raw material	PR 404	1	1	2	Pharmaceutical Organic Chemistry-III	15	25	50	10	100	1
Scientific Writing and Communication skills*	NP 403	1	1	2	English Language II	15	25	60	---	100	1
Pharmaceutical Legislations and Professional ethics**	NP 404	1	-	1	Registration	25	-	75	-	100	1
Total		12	7	19						800	

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○ * Taught by pharmacy practice department

** Taught by pharmaceuticals department

Table (5)

Semester (5)

Course Title	Course Code	Credit Hours			Prerequisite	Examination Marks				Total Marks	Final Exam. Hours
		Lect.	Pract.	Total		Period./Act.	Pract.	Wr.	Oral		
Biochemistry II	PB 503	2	1	3	Biochemistry I	15	25	50	10	100	2
Pharmaceutical Microbiology	PM 502	2	1	3	General Microbiology and Immunology	15	25	50	10	100	2
Phytochemistry I	PG 504	2	1	3	Pharmacognosy I Pharmacognosy II	15	25	50	10	100	2
Pharmaceutics III	PT 505	2	1	3	Physical Pharmacy	15	25	50	10	100	2
Medicinal Chemistry I	PC 501	2	1	3	Pharmaceutical organic III	15	25	50	10	100	2
Pharmacology II	PO 502	2	1	3	Pharmacology I	15	25	50	10	100	2
Total		12	6	18						600	

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Table (6)

Semester (6)

Course Title	Course Code	Credit Hours			Prerequisite	Examination Marks				Total Marks	Final Exam. Hours
		Lect.	Pract.	Total		Period./Act.	Pract.	Wr.	Oral		
Parasitology and Virology	PM 603	2	1	3	General Microbiology and Immunology	15	25	50	10	100	2
Pharmaceutics IV	PT 606	2	1	3	Pharmaceutics I	15	25	50	10	100	2
Biopharmaceutics and Pharmacokinetics	PT 607	2	1	3	Pharmaceutics III	15	25	50	10	100	2
Phytochemistry II	PG 605	2	1	3	Pharmacognosy I Pharmacognosy II	15	25	50	10	100	2
Pharmacology III	PO 603	2	1	3	Pharmacology-I	15	25	50	10	100	2
Medicinal Chemistry II	PC 602	2	1	3	Organic Chemistry - III	15	25	50	10	100	2
Total		12	6	18						600	

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Table (7)

Semester (7)

Course Title	Course Code	Credit Hours			Prerequisite	Examination Marks				Total Marks	Final Exam. Hours
		Lect.	Pract.	Total		Period./Act.	Pract.	Wr.	Oral		
Clinical Biochemistry	PB 704	2	1	3	Biochemistry II	15	25	50	10	100	2
Medical Microbiology	PM 704	2	1	3	General Microbiology and Immunology	15	25	50	10	100	2
Pharmacology IV	PO 704	1	1	2	Pharmacology I	15	25	50	10	100	1
Applied & Forensic Pharmacognosy	PG 706	1	1	2	Phytochemistry-I Phytochemistry-II	15	25	50	10	100	1
Medicinal Chemistry III	PC 703	2	1	3	Organic Chemistry III	15	25	50	10	100	2
Pharmaceutical Technology I	PT 708	2	1	3	Pharmaceutics III	15	25	50	10	100	2
Elective	PE	1	1	2	Prerequisite	15	25	50	10	100	1
Total		11	7	18						700	

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Table (8)

Semester (8)

Course Title	Course Code	Credit Hours			Prerequisite	Examination Marks				Total Marks	Final Exam. Hours
		Lect .	Pract.	Total		Period./Act.	Pract.	Wr.	Oral		
Clinical Pharmacokinetics	PP 801	2	1	3	Biopharmaceutics and Pharmacokinetics	15	25	50	10	100	2
Drug Design	PC 804	1	1	2	Pharmaceutical Organic Chemistry III	15	25	50	10	100	1
Basic & Clinical Toxicology	PO 805	2	1	3	Pharmacology I	15	25	50	10	100	2
Biotechnology & Molecular biology	PM 805	2	1	3	Pharmaceutical Microbiology	15	25	50	10	100	2
Hospital Pharmacy	PP 802	1	1	2	Pharmacology II Pharmaceutics IV	15	25	50	10	100	1
Pharmaceutical Technology II	PT 809	1	1	2	Pharmaceutical Technology I	15	25	50	10	100	1
Elective	PE ---	1	1	2	Prerequisite	15	25	50	10	100	1
Total		10	7	17						700	

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Table (9)

Semester (9)

Course Title	Course Code	Credit Hours			Prerequisite	Examination Marks				Total Marks	Final Exam. Hours
		Lect.	Pract.	Total		Period./Act.	Pract.	Wr.	Oral		
Clinical Pharmacy & Pharmacotherapeutics I	PP 903	2	1	3	Basic & Clinical Toxicology	15	25	50	10	100	2
Drug Information	PO 906	1	0	1	Pharmacology-III	٢٥	---	٧٥	---	100	1
Community Pharmacy Practice	PP 904	2	1	3	Pharmacology III	15	25	50	10	100	2
Good Manufacturing Practice	PT 910	1	1	2	Pharmaceutical Technology I Pharmaceutical Technology II	15	25	50	10	100	1
Quality Control of Pharmaceuticals	PA 905	2	1	3	Instrumental analysis	15	25	50	10	100	2
Marketing & Pharmacoeconomics***	NP 905	1	--	1	Hospital Pharmacy	25	---	75	--	100	1
First Aid and Basic Life Support	MD 906	1	--	1	Basic & Clinical Toxicology	٢٥	---	٧٥	--	100	1
Elective	PE ---	1	1	2	Prerequisite	15	25	50	10	100	1
Total		11	5	16						800	

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Table (10)

Semester (10)

Course Title	Course Code	Credit Hours			Prerequisite	Examination Marks				Total Marks	Final Exam. Hours
		Lect.	Pract.	Total		Period./Act.	Pract.	Wr.	Oral		
Phytotherapy and Aromatherapy	PG 007	2	1	3	Phytochemistry-I Phytochemistry-II	15	25	50	10	100	2
Advanced Drug Delivery Systems	PT 011	2	-	2	Bio Pharmaceutics and Pharmacokinetics	25	-	75	-	100	2
Public Health and Preventive Medicine	PM 006	2	-	2	Medical Microbiology	15	--	75	10	100	2
Clinical pharmacy & Pharmacotherapeutics II	PP 005	1	1	2	Clinical Pharmacy & Pharmacotherapeutics I	15	25	50	10	100	1
Drug Interaction	PP 006	1	1	2	Pharmacology-III	15	25	50	10	100	1
Clinical Research methodology & Pharmacovigilance	PP 007	1	1	2	Drug information	15	25	60	-	100	1
Biostatistics	PO 007	1	--	1	Pharmacology-III	25	-	75	-	100	1
Entrepreneurship***	UR 006	1	-	1	Principle of quality assurance	25	-	75	-	pass	1
Elective	PE	1	1	2	Prerequisite	15	25	50	10	100	1
Total		12	5	17						800	

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