

Course Plan – Procedures of the Course Plan Committee / B.Sc. of Pharmacy
Faculty of Pharmacy

QF02/0407-٢.0

Department Pharmacy

Number of Approval (09/26/2016)

Authorized Signature &

Date of Approval (03/08/2016)

Stamp

Learning Outcomes of the Course Plan

No.	Learning Outcomes
١	<p>Understanding and learning outcomes. Understanding the following principles:</p> <p>1.1 The basic principles of sciences : Chemistry, Biology, Organic Chemistry, Anatomy & Physiology.</p> <p>1.2 Pharmaceutical sciences principles that include: Physicochemical properties for different materials that is used to prepare drugs, products & cosmetics.</p> <p>١,٢,١ And the properties of different dosage forms including new regulations to prepare drugs.</p> <p>1.2.2 Therapeutic & toxic properties of drugs including their mechanism of action, therapeutic use, contraindications, side effects & toxic material properties & their impact on health.</p> <p>1.2.3 Principles of biochemistry, biotechnology & their pharmaceutical applications.</p> <p>1.2.4 Kinetics principles & their application in therapeutic uses.</p> <p>١,٢,٥ Principles of different analytical principle & instrumental analysis techniques & procedures that are used in pharmaceutical industry, in addition to different analysis techniques.</p> <p>1.2.6 Principles of medicinal chemistry & drug design.</p> <p>1.2.7 Pharmaceutical principles of microbiology.</p> <p>1.2.8 Causes of different epidemic diseases, laboratory diagnosis, clinical manifestations & the use of immunology in treatment.</p> <p>1.2.9 Marketing principles.</p> <p>1.2.10 Rules & regulations of pharmacy practice & their ethics.</p> <p>1.2.11 Principles of pharmacognosy, phytochemistry & alternative medicine therapy.</p>
٢	<p>Mental Skills</p> <p>2.1 Pharmaceutical knowledge application in the formulation, manufacturing of safe and effective drugs in addition to dealing with new regulations to prepare drugs.</p> <p>2.2 Discrimination and adjusting all drug interactions (Physiochemical, drug food and drug-drug).</p> <p>2.3 Problem analysis and risk management that is related to drugs and other chemicals that have poisoning effects.</p> <p>2.4 Collect, evaluation and interpretation of pharmaceutical data and active communication within all segments of society using different skills.</p> <p>2.5 Selection of appropriate methods for isolation, purification, determination and calibration of active substances from their different sources.</p> <p>2.6 Using the principles of pharmaceutical economics to rationalize pharmaceutical treatments and improving its economic efficiency.</p>
٣	<p>Professional and Practical Skills</p> <p>3.1 Using of terms, abbreviations and appropriate symbols in practicing the pharmaceutical science.</p>

3.2	Manufacturing and control of the drugs and cosmetics preparations according to the rules of good manufacturing practice.
3.3	The safe and effective handling of various chemicals, pharmaceutical and cosmetic preparations.
3.4	Using of laboratory tools and equipments in a professional way.
3.5	Working in chemical analysis, biological, toxin and inefficient and safe applicable research and services.
3.6	Elicitation the therapeutic pharmaceutical and analytical plans, calculating doses and implementation in patient care.
3.7	Evaluating and interpreting prescriptions and the results of laboratory and clinical tests.
3.8	Selecting of medicines depending on the understanding of the etiology, pathology of various body tissues.
3.9	Providing advice and guidance to members of the community and health care professionals with regard to security and rational use of medicines, dietary supplements and pharmaceuticals.
ε	General Skills
4.1	Communicating with health professionals and other members of the community, directly or indirectly, with professionalism and flexibility.
4.2	Working with systematic and organized time table (time management).
4.3	Working effectively within a multidisciplinary health team.
4.4	Owning a collection of knowledge and self-skills, continuouse of scientific research and professional development.
4.5	Using modern information technology different fields and scientific research.
4.6	Communicating in English as well as Arabic language.
4.7	Working within the framework of ethics and rules of job practicing that is in line with the social and cultural surroundings.

Student Information		Course No.	Course Name	Credit Hours	Theory Hours	Practical Hours	Prerequisite	Advisement Plan
Passed	Registered							(Semester/Year)
First: University Requirements (21) Credit Hours								
A) Mandatory Requirements 15 Credit Hours								
أ: المتطلبات الاجبارية 15 ساعة معتمدة								
<input type="checkbox"/>	<input type="checkbox"/>	٠٤٢٠١١١	Arabic language (1)	٣	٣	.	Arabic language remedial (0420001)	١/١
<input type="checkbox"/>	<input type="checkbox"/>	٠٤٢٠١٢١	English language (1)	٣	٣	.	English language remedial (0420002)	٢/١
<input type="checkbox"/>	<input type="checkbox"/>	٠٤٢٠١٠١	Military sciences	٣	٣	.		٢/١
<input type="checkbox"/>	<input type="checkbox"/>	٠٤٢٠١٥١	National education	٣	٣	.		١/١
<input type="checkbox"/>	<input type="checkbox"/>	٠٤٢٠١٧١	Life Skills	٣	٣	.		١/١
B) Electives 6 Credit Hours								
First Field: Humanitarian courses								
<input type="checkbox"/>	<input type="checkbox"/>	٠٤٢٠١٤٢	Human civilization	٣	٣	.		٢/١
<input type="checkbox"/>	<input type="checkbox"/>	٠٥٠١١٠٠	Innovation and entrepreneur	٣	٣	.		٢/٢

Course Plan – Procedures of the Course Plan Committee / B.Sc. of Pharmacy
 Faculty of Pharmacy

QF02/0407-٢.0

Student Information	Course	Course Name	Credit	Theory	Practical	Prerequisite	Advisement Plan
		management					
<input type="checkbox"/>	<input type="checkbox"/>	٠٤٢٠١٣٤ Sports and Health	٣	٢	٢		٢/٢
<input type="checkbox"/>	<input type="checkbox"/>	٠٦٠١١٠٢ Law in our life	٣	٣	٠		٢/١
<input type="checkbox"/>	<input type="checkbox"/>	٠٤٢٠١٣١ Principles of education	٣	٣	٠		٢/١
Second Field: Scientific courses							
<input type="checkbox"/>	<input type="checkbox"/>	٠١٢٠١١١ Information technology and society	٣	٣	٠	Computer skills remedial (0120001)	٢/١
<input type="checkbox"/>	<input type="checkbox"/>	٠٣٠١١٠١ First aid	٣	٣	٠		٢/١
<input type="checkbox"/>	<input type="checkbox"/>	٠١٢٠١٥٣ Medicinal plants	٣	٣	٠		٢/١
<input type="checkbox"/>	<input type="checkbox"/>	٠٩٠٦١٠٠ The principles of the energy sciences	٣	٣	٠		٢/٢
Second: Faculty Requirements (25) Credit Hours							
<input type="checkbox"/>	<input type="checkbox"/>	٠١٢٠١٤١ General chemistry	٣	٣	٠	* Biology+* Calculus for pharmacy	١/١
<input type="checkbox"/>	<input type="checkbox"/>	٠١٢٠١٤٢ General chemistry lab	١	٠	٣	* General chemistry	١/١
<input type="checkbox"/>	<input type="checkbox"/>	٠١٢٠١٥١ Biology	٣	٣	٠	* General chemistry+ *Calculus for pharmacy	١/١
<input type="checkbox"/>	<input type="checkbox"/>	٠١٢٠١٥٢ Biology lab	١	٠	٣	* Biology	١/١
<input type="checkbox"/>	<input type="checkbox"/>	٠١٢٠٢٢٤ Calculus for pharmacy	٣	٣	٠	* General chemistry+ *Biology	١/١
<input type="checkbox"/>	<input type="checkbox"/>	٠١٢٠١٣٥ General physics for pharmacy students	٢	٢	٠	* Calculus for pharmacy	٢/١
<input type="checkbox"/>	<input type="checkbox"/>	٠٢٠١١١٢ Pharmaceutical organic chemistry 1	٣	٣	٠	General chemistry	٢/١
<input type="checkbox"/>	<input type="checkbox"/>	٠٢٠١١٣١ Anatomy & histology	٢	٢	٠	Biology	٢/١
<input type="checkbox"/>	<input type="checkbox"/>	٠٢٠١١٣٢ Anatomy & histology lab	١	٠	٣	Biology lab + * Anatomy & histology	٢/١
<input type="checkbox"/>	<input type="checkbox"/>	٠٢٠١٢٣٣ Physiology 1	٢	٢	٠	Anatomy & histology	1/2
<input type="checkbox"/>	<input type="checkbox"/>	٠٢٠١٢٣٤ Physiology lab	١	٠	٣	Anatomy & histology lab + * Physiology 2	2/2
<input type="checkbox"/>	<input type="checkbox"/>	٠٢٠١٢٣٥ Physiology 2	٢	٢	٠	Physiology 1	2/2
<input type="checkbox"/>	<input type="checkbox"/>	٠٢٠١٥٤٤ Legislation & pharmaceutical ethics	١	١	٠	Therapeutics & clinical pharmacy -1-	2/5
Third: Major Requirements (114) Credit Hours as follows:							
A) Mandatory Major Requirements (105) Credit Hours							
<input type="checkbox"/>	<input type="checkbox"/>	٠٢٠١١١١ Physical pharmacy	٢	٢	-	General chemistry+ Calculus+ * General Physics	٢/1
<input type="checkbox"/>	<input type="checkbox"/>	٠٢٠١٢١٢ Pharmaceutical organic chemistry lab	١	-	٣	General chemistry lab+ * Pharmaceutical organic chemistry 2	١/2
<input type="checkbox"/>	<input type="checkbox"/>	٠٢٠١٢١٣ Pharmaceutical analytical chemistry	٣	٣	-	Physical pharmacy + *Pharmaceutical organic chemistry 2	١/2
<input type="checkbox"/>	<input type="checkbox"/>	٠٢٠١٢١٤ Pharmaceutical analytical chemistry lab	١	-	٣	*Pharmaceutical organic chemistry lab + *Pharmaceutical analytical chemistry	١/2
<input type="checkbox"/>	<input type="checkbox"/>	٠٢٠١٢١٥ Pharmacognosy	٢	٢	-	* Pharmaceutical organic chemistry 2 + Biology	١/2
<input type="checkbox"/>	<input type="checkbox"/>	٠٢٠١٢١٦ Pharmaceutical organic chemistry 2	٣	٣	-	Pharmaceutical organic chemistry 1	١/2
<input type="checkbox"/>	<input type="checkbox"/>	٠٢٠١٢١٧ Instrumental analysis	٣	٣	-	Pharmaceutical analytical chemistry + Pharmaceutical organic chemistry 2	٢/2
<input type="checkbox"/>	<input type="checkbox"/>	٠٢٠١٢١٨ Instrumental analysis lab	١	-	٣	Pharmaceutical organic chemistry lab + *Instrumental analysis + Pharmaceutical analytical	٢/2

Course Plan – Procedures of the Course Plan Committee / B.Sc. of Pharmacy
 Faculty of Pharmacy

QF02/0407-٢.0

Student Information	Course	Course Name	Credit	Theory	Practical	Prerequisite	Advisement Plan	
						chemistry lab		
<input type="checkbox"/>	<input type="checkbox"/>	٢٠١٢٢١	Pharmaceutics 1	٣	٣	-	Pharmaceutical analytical chemistry + General Physics	٢/2
<input type="checkbox"/>	<input type="checkbox"/>	٢٠١٢٣٦	Pharmaceutical microbiology 1	٢	٢	-	Physiology 1 + * Physiology 2	٢/2
<input type="checkbox"/>	<input type="checkbox"/>	٢٠١٣١٣	Pharmaceutical biochemistry	٣	٣	-	Pharmaceutical organic chemistry 2 + Physiology 2	١/٣
<input type="checkbox"/>	<input type="checkbox"/>	٢٠١٣١٤	Pharmaceutical biochemistry lab	١	-	٣	Pharmaceutical organic chemistry lab + *Pharmaceutical biochemistry	١/٣
<input type="checkbox"/>	<input type="checkbox"/>	٢٠١٣١٧	Phytochemistry	٣	٣	-	Pharmacognosy + Pharmaceutical organic chemistry 2	٢/٣
<input type="checkbox"/>	<input type="checkbox"/>	٢٠١٣١٦	Phytochemistry lab	١	-	٣	Pharmaceutical organic chemistry lab + *Phytochemistry	٢/٣
<input type="checkbox"/>	<input type="checkbox"/>	٢٠١٣١٨	Medicinal Chemistry 1 and drug design	٣	٣	-	Pharmaceutical biochemistry + * Pharmacology 1	٢/٣
<input type="checkbox"/>	<input type="checkbox"/>	٢٠١٣٢٣	Pharmaceutics 2	٣	٣	-	Pharmaceutics 1	١/٣
<input type="checkbox"/>	<input type="checkbox"/>	٢٠١٣٢٥	Pharmaceutics 3	٣	٣	-	Pharmaceutics 2	٢/٣
<input type="checkbox"/>	<input type="checkbox"/>	٢٠١٣٢٤	Pharmaceutics lab	١	-	٣	*Pharmaceutics 3	٢/٣
<input type="checkbox"/>	<input type="checkbox"/>	٢٠١٣٣٢	Pharmaceutical microbiology lab	١	-	٣	Pharmaceutical microbiology 1 + *Pharmaceutical microbiology 2	١/٣
<input type="checkbox"/>	<input type="checkbox"/>	٢٠١٣٣٣	Pathophysiology	٢	٢	-	Physiology 2	١/٣
<input type="checkbox"/>	<input type="checkbox"/>	٢٠١٣٣٤	Pathophysiology lab	١	-	٣	Physiology lab + *Pathophysiology	١/٣
<input type="checkbox"/>	<input type="checkbox"/>	٢٠١٣٣٥	Pharmacology 1	٣	٣	-	Pathophysiology + Pharmaceutical microbiology 2	٢/٣
<input type="checkbox"/>	<input type="checkbox"/>	٢٠١٣٣٦	Immunology	٢	٢	-	Pathophysiology + Pharmaceutical microbiology 2 + * Pharmacology 1	٢/٣
<input type="checkbox"/>	<input type="checkbox"/>	٢٠١٣٣٧	Pharmaceutical microbiology 2	٢	٢	-	Pharmaceutical microbiology 1	١/٣
<input type="checkbox"/>	<input type="checkbox"/>	٢٠١٤١٣	Clinical biochemistry	٢	٢	-	*Pharmacology 2 + *Medicinal chemistry 2	٢/٤
<input type="checkbox"/>	<input type="checkbox"/>	٢٠١٤١٤	Medicinal chemistry 2	٣	٣	-	Medicinal chemistry 1 and drug design + *pharmacology 2	١/٤
<input type="checkbox"/>	<input type="checkbox"/>	٢٠١٤١٥	Medicinal chemistry lab	١	-	٣	Pharmacology lab + *Medicinal chemistry 3	٢/٤
<input type="checkbox"/>	<input type="checkbox"/>	٢٠١٤١٦	Medicinal chemistry 3	٣	٣	-	*Pharmacology 3 + Medicinal chemistry 2	٢/٤
<input type="checkbox"/>	<input type="checkbox"/>	٢٠١٤٢١	Biopharmaceutics & pharmacokinetics	٣	٣	-	Pharmaceutics 3	١/٤
<input type="checkbox"/>	<input type="checkbox"/>	٢٠١٤٢٢	Biopharmaceutics & pharmacokinetics lab	١	-	٣	Pharmaceutics lab + *Biopharmaceutics & pharmacokinetics	١/٤
<input type="checkbox"/>	<input type="checkbox"/>	٢٠١٤٢٣	Industrial pharmacy	٣	٣	-	Pharmaceutics 3 + Applied biostatistics	٢/٤
<input type="checkbox"/>	<input type="checkbox"/>	٢٠١٤٢٤	Applied biostatistics	١	-	٣	Calculus +Pharmaceutics lab	١/٤
<input type="checkbox"/>	<input type="checkbox"/>	٢٠١٤٢٥	Industrial pharmacy lab	١	-	٣	Pharmaceutics lab + *Industrial pharmacy	٢/٤
<input type="checkbox"/>	<input type="checkbox"/>	٢٠١٤٣١	Pharmacology 2	٣	٣	-	Pharmacology 1 +Immunology	١/٤
<input type="checkbox"/>	<input type="checkbox"/>	٢٠١٤٣٢	Pharmacology lab	١	-	٣	Pathophysiology lab + *Pharmacology 2	١/٤
<input type="checkbox"/>	<input type="checkbox"/>	٢٠١٤٣٣	Pharmacology 3	٣	٣	-	Pharmacology 2	٢/٤
<input type="checkbox"/>	<input type="checkbox"/>	٢٠١٤٣٤	Toxicology	٢	٢	١	Pharmacology 2	٢/٤
<input type="checkbox"/>	<input type="checkbox"/>	٢٠١٤٣٥	Toxicology lab	١	-	٣	Pharmacology lab + *Toxicology	٢/٤
<input type="checkbox"/>	<input type="checkbox"/>	٢٠١٤٤١	Homeopathic remedies	٣	٣	-	Phytochemistry + Pharmacology 1	١/4
<input type="checkbox"/>	<input type="checkbox"/>	٢٠١٥٢١	Professional pharmacy practice -1-	١	-	٣	Pharmacology 3	١/٥

Course Plan – Procedures of the Course Plan Committee / B.Sc. of Pharmacy
Faculty of Pharmacy

QF02/0407-٢.0

Student Information		Course	Course Name	Credit	Theory	Practical	Prerequisite	Advisement Plan
<input type="checkbox"/>	<input type="checkbox"/>	٢٠١٥٢٢	Cosmetics preparation	٢	٢	-	Industrial pharmacy	١/٥
<input type="checkbox"/>	<input type="checkbox"/>	٢٠١٥٢٣	Pharmacoeconomics	٢	٢	-	Therapeutics & clinical pharmacy -1-	٢/5
<input type="checkbox"/>	<input type="checkbox"/>	٢٠١٥٢٤	Professional pharmacy practice -2-	١	-	٣	Professional pharmacy practice -1-	٢/5
<input type="checkbox"/>	<input type="checkbox"/>	٢٠١٥٣١	Therapeutics & clinical pharmacy -1-	٣	٣	-	Toxicology + Pharmacology 3	١/٥
<input type="checkbox"/>	<input type="checkbox"/>	٢٠١٥٣٥	Therapeutics & clinical pharmacy -2-	٣	٣	-	Therapeutics & clinical pharmacy -1-	٢/5
<input type="checkbox"/>	<input type="checkbox"/>	٢٠١٥٣٦	Clinical pharmacy lab-2 (hospital)	١	-	٣	Therapeutics & clinical pharmacy -1- + *Therapeutics & clinical pharmacy -2-	٢/5
<input type="checkbox"/>	<input type="checkbox"/>	٢٠١٥٤١	Pharmaceutical technology	3	3	-	Industrial pharmacy	١/٥
<input type="checkbox"/>	<input type="checkbox"/>	٢٠١٥٤٣	Pharmaceutical marketing	٢	٢	-	Therapeutics & clinical pharmacy -1-	٢/5
<input type="checkbox"/>	<input type="checkbox"/>	٢٠١٥٤٥	Pharmaceutical biotechnology	٣	٣	-	Medicinal chemistry 3 + *Pharmaceutical technology	١/٥
<input type="checkbox"/>	<input type="checkbox"/>	0201546	Gene and protein therapy	3	3	-	Pharmaceutical technology + * Therapeutics & clinical pharmacy -2-	٢/5
B) Major Electives (9) Credit Hours								
<input type="checkbox"/>	<input type="checkbox"/>	0201551	Quality control	3	3	-	Pharmaceutical technology	1/0
<input type="checkbox"/>	<input type="checkbox"/>	٢٠١٥٥٢	Clinical nutrition	٣	٣	-	Clinical biochemistry	٢/٤
<input type="checkbox"/>	<input type="checkbox"/>	٢٠١٥٥٣	Clinical toxicology	٣	٣	-	Toxicology	١/٥
<input type="checkbox"/>	<input type="checkbox"/>	٢٠١٥٥٤	Selected topics in pharmacology	٣	٣	-	Pharmacology 3	١/٥
<input type="checkbox"/>	<input type="checkbox"/>	٢٠١٥٥٥	Pharmaceutical communication skills	٣	٣	-	Pharmacology 1	٢/٤
<input type="checkbox"/>	<input type="checkbox"/>	٢٠١٥٥٧	Drug delivery systems	٣	٣	-	Pharmaceutical technology	١/٥
<input type="checkbox"/>	<input type="checkbox"/>	٢٠١٥٥٨	Special topics in medicinal chemistry	٣	٣	-	Medicinal chemistry 3	١/٥

*Simultaneously

- Courses Given to Other Majors (University Requirements, Faculty Requirements, Supporting Requirements)

Course No.	Course Name	Credit Hours	Requirement type
٢٠١١٦١	Anatomy & Histology for Nursing	٣	Supporting requirement for nursing
٢٠١١٦٢	Physiology for Nursing	٣	Supporting requirement for nursing
٢٠١٢٦٣	Microbiology for Nursing	٢	Faculty requirement for nursing
٢٠١٢٦١	Pathophysiology for Nursing	٣	Faculty requirement for nursing
٢٠١١٦٣	Biochemistry for Nursing	٢	Faculty requirement for nursing
٢٠١٢٦٢	Pharmacology for Nursing	٣	Supporting requirement for nursing
٢٠١١٤٣	General Chemistry for engineering	٣	Supporting requirement for civil engineering and infrastructure, and mechanical engineering
٢٠١١٤٤	Practical General Chemistry for engineering	١	Supporting requirement for civil engineering and infrastructure, and mechanical engineering