Table (1)

Semester (1)

Course Title	Course Code	Credit Hours			Prerequisite	Examination Marks				Total Marks	Final Exam. Hours
		Lect.	Pract./Tut.	Total		Period.	Pract./Tut.	Wr.	Oral		
Pharmaceutical Analytical Chemistry I كيمياء تحليلية صيدلية-١	PA 101	2	1	3	Registration	20	40	75	15	150	2
Pharmaceutical Organic Chemistry I كيمياء عضوية صيدلية-١	PR 101	2	1	3	Registration	20	40	75	15	150	2
Pharmacy Orientation توجه صيدلي	PT 101	1	-	1	Registration	10	---	40	---	50	1
Medicinal Plants نباتات طبية	PG 101	2	1	3	Registration	20	40	75	15	150	2
Medical Terminology مصطلحات طبية	PO 101	1	-	1	Registration	10	--	40	---	50	1
Cell Biology بيولوجيا الخلية	PB 101	1	1	2	Registration	15	25	60	--	100	1
Mathematics رياضيات	NP 102	1	---	1	Registration	10	---	40	---	50	1
English Language* لغة إنجليزية	UR 101	2	-	2	Registration	15	-	85	-	100	2
Total		10 + 2	4	14 + 2						700	

- Lect. = Lecture
- Period. = Periodical
- Pract./ Tut. = Practical / Tutorial
- Wr. = Final Written

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Table (2)

Semester (2)

Course Title	Course Code	Credit Hours			Prerequisite	Examination Marks				Total Marks	Final Exam. Hours
		Lect.	Pract./Tut.	Total		Period.	Pract./Tut.	Wr.	Oral		
Pharmaceutical Analytical Chemistry II كيمياء تحليلية صيدلية-٢	PA 202	2	1	3	Pharmaceutical Analytical Chemistry I	20	40	75	15	150	2
Pharmaceutical Organic Chemistry II كيمياء عضوية صيدلية-٢	PR 202	2	1	3	Pharmaceutical Organic Chemistry-I	20	40	75	15	150	2
Information Technology تكنولوجيا المعلومات	NP 201	1	1	2	Registration	15	25	60	-	100	1
Anatomy& Histology تشريح وعلم الأنسجة	MD 201	2	1	3	Registration	20	40	90	---	150	1
Physical Pharmacy صيدلة فيزيائية	PT 202	2	1	3	Registration	20	40	75	15	150	2
Pharmacognosy I عقاقير-١	PG 202	2	1	3	Medicinal Plants	20	40	75	15	150	2
Psychology* علم نفس	UR 202	1	-	1	Registration	10	-	40	-	50	1
Human Rights and Fighting Corruption* حقوق إنسان ومكافحة الفساد (القضايا المجتمعية)	UR 203	1	-	1	Registration	10	-	40	-	50	1
Total		11 + 2	6	17 + 2						850	

- *Lect. = Lecture*
- *Period. = Periodical*
- *Pract. = Practical*
- *Wr. = Written*

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Course Content المحتوى العلمى للمقررات الدراسية

Semester (1)

PA 101 Pharmaceutical Analytical Chemistry I

This course introduces the students to the relevant aspects of chemical kinetics, rate of reaction and chemical equilibrium. Additionally, it also aims to provide the students with the essential knowledge of general chemistry, types of chemical reactions, calculation of concentrations of substances and qualitative analysis of anions and cations and their mixtures.

PR 101 Pharmaceutical Organic Chemistry I

Types of reactions and reagents. Chemical, physical and nomenclature of hydrocarbons (alkanes, cycloalkanes, alkenes and alkynes). Stereochemistry (Optical isomers, racemic modification, nomenclature of configurations) and pharmaceutical applications. Aromaticity, aromatic ions and compounds. Eelectrophilic aromatic substitution and orientation, alkylbenzenes and sulfonic acid, polynuclear aromatic compound. pharmaceutical application. The practical sessions-Lab. Safety, basic lab. Techniques to purify and identify organic compounds.

PT 101 Pharmacy Orientation

The course covers fields of job activities and pharmacy practice, routes of administration, prescription, pharmaceutical dosage forms, pharmaceutical calculations, weights and measures, pharmacists code of ethics, history of pharmacy and pharmacy profession.

PG 101 Medicinal Plants

The aim of the course is to provide students with knowledge necessary to identify and prepare a crude drug from the farm to the firm.Students should acquire knowledge concerning dusting powders, plant cytology, physiology and medicinal leafy plants and their taxonomy. In this course, the student will study: importance of natural products, preparation of natural products-derived drugs including collection, storage, preservation and adulteration. The course will introduce the students to the different classes of secondary metabolites. In addition, the course will discuss and address the variability in occurrence of pharmacologically active substances in certain official medicinal leafy plants according to their WHO monographs.

PO 101 Medical Terminology

This course provides introduction to medical and pharmaceutical terminologies and medical abbreviations. Affixes including suffixes, prefixes as well as roots of different medical terms pertaining to various body systems will be covered.

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PB 101 Cell Biology

The course aims at studying the structure and function of prokaryotic and eukaryotic cells, cell membrane and transport mechanisms, DNA and cell division, cell cycle regulation, apoptosis and autophagy. It include also, expression of genetic information (transcription and translation), and post-translational modification. In addition, the neural cell, action potential, mechanical molecules, cellular energetics and integrating cells into tissues will be covered.

NP 102 Mathematics

Functions and graphs, limits and continuity, differentiation, exponential, logarithmic, and trigonometric functions, integration, basic differential equations, functions of several variables and problems related to them, probability and random variables, and hypothesis testing.

UR 101 English Language

Training in reading, comprehension, basic grammatical rules, writing and translation. The course adopts a systematic approach to proper eassy writing such as idea development, paragraph structure, introduction, support and conclusions.

Semester (2)

PA 202 Pharmaceutical Analytical Chemistry II

It mainly includes the aspects of volumetric quantitative analysis which are acid-base and non aqueous titrations, preciptimetry and complexiметry. Relevant applications in pharmaceutical analysis will be deeply investigated.

PR 202 Pharmaceutical Organic Chemistry II

Nomenclature, physical and chemical properties of alkyl halides (SN1, SN2, E1 and E2), dynamic stereochemistry, aryl halides, Alcohols, Phenols, ethers, epoxides, amines, aldehydes, ketones, carboxylic acid, acid derivatives. Chemistry of carbohydrates and amino acids are also studied.

NP 201 Information Technology

This course tends to provide students of all university's faculties with a brief introduction to the world of computers and the concept of information technology including: number systems and data representation, computer system components: hardware & software, storage and input/output systems, Operating systems and Utility Systems, software applications. Also it gives an overview about computer networks and internet: data communication, transmission modes, transmission media, computer networks, internet protocol, and internet services. It practices some computer applications in the laboratory such as Internet Access, word processing and power point. It gives students a practical experience on developing projects related to the specialty of each faculty. Pharmacy Informatics

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is concerned with the use of technology to improve patient care as well as increasing patient safety. Informatics deals with data generated by software used in patient care, not only the storage of data but also the retrieval of data as meaningful clinical reports and the management of information systems to assure patient safety and optimal medical outcomes.

MD 201 Anatomy& Histology

Histology: Cytology, various tissues (epithelial, connective, muscular, and nervous), heart, blood vessels, lymphatic organs, skin and its appendages, systems (digestive and associated glands, respiratory, urinary, reproductive, and central nervous system), endocrine glands, and eye. Anatomy : Introduction to skeletal, muscular, and articular systems, fascia, nervous, cardiovascular, and lymphatic systems, digestive, respiratory, and urogenital systems, endocrine glands. Cytology: blood, liver, spleen, lung, kidney, lymph node, cardiac muscle, aorta, stomach, and intestine.

PT 202 Physical Pharmacy

This course covers principles of physical pharmacy including rheology and flow of fluids, solutions, their properties, solubility, complexation, state of matter, kinetics of drug reaction and thermodynamics.

PG 202 Pharmacognosy I

Based on the Egyptian flora and other florae of wild and cultivated medicinal plants that are used in the pharmaceutical, cosmetic and food industries in the global & Egyptian market.The course introduces students to some botanical drugs of leaves, flower, seeds, bark and wood origin. During the lectures and practical sessions, students learn to identify examples of these drugs in their entire and powdered forms. Student will learn about the major constituents, folk uses, clinically proven uses, benefits, precautions of those medicinal plants.possible herbal-drug interactions of selected examples of these drugs and to have an overview over their phytopharmaceuticals available on the market specially the Egyptian market.

UR 202 Psychology

The course introduces different principles, theories and vocabulary of psychology as a science. The course also aims to provide students with basic concepts of social psychology, medical sociology and interpersonal communication which relate to the pharmacy practice system that involves patients, pharmacists, physicians, nurses and other health care professionals.

UR 203 (Societal Issues) Human Rights and Fighting Corruption

يغطي هذا المقررالموضوعات التالية: حقوق الإنسان في القانون الجنائى ,حق الإنسان فى تغيير جنسيته أو التخلى عن إحدى جنسياته ,المواثيق الدولية المتعلقة بحماية حقوق الإنسان ,علاقة العولمة والتنمية بالحقوق الاقتصادية والاجتماعية والثقافية , الحقوق الاقتصاديةوالاجتماعيةوالثقافية للإنسان, حقوق الإنسان فى الشريعة الإسلامية ,حقوق المرأةفى قانونى العمل والتأمين الاجتماعى ,حقوق الإنسان فى التقاضى ,الحقوق المدنية والسياسية للإنسان

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