



Kingdom of Saudi Arabia
Ministry of Higher Education
King Faisal University
College of Clinical Pharmacy

College of Clinical Pharmacy
Faculty Handbook
2013-2014



College of Clinical Pharmacy, King Faisal University
PO Box 400, Al-Ahsa -31982, Kingdom of Saudi Arabia



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1. About College

1.1 Message from the Dean



Dear Respected Colleagues,

Welcome to the College of Clinical Pharmacy at King Faisal University.

It is my pleasure to introduce our college's faculty handbook for the year 2013-2014. Our college is being involved in conducting Doctor of Pharmacy (Pharm. D.) program offering to prepare tomorrow's clinical pharmacists.

The vision of the college is to be recognized nationally and internationally for preparing leaders in pharmacy practice, education and research with strong social commitment.

The primary mission of the College of Clinical Pharmacy is to excel in pharmacy education, patient centered care, community engagement and research. This mission will be achieved through an innovative and dynamic academic program, excellence in teaching, clinical training, and planned development activities.

The primary goals are to

1. Prepare Pharm. D. graduates through excellence in Pharmacy education and training
2. Recruit, develop and retain internationally recognized, competent faculty members in all the disciplines.
3. Continue to develop administration that will provide leadership for achieving strategic goals.
4. Maintain and enhance the quality assurance management, verified through accreditation by National and International Accrediting agencies in Pharmacy Education.
5. Engage the local, national and international communities for mutual benefits through expanding the opportunities for collaboration, continuing professional development and postgraduate education.
6. Conduct exceptional research in basic and clinical sciences.

Clinical Pharmacy is concerned with the science and practice of rational use and management of medications. It brings patients and the pharmacists directly in contact, where Clinical Pharmacists provide direct patient care, optimizing medication therapy, educating patients and disseminating health awareness. Clinical pharmacists are also responsible for contributing to the growing knowledge of human health through research. The College of Clinical Pharmacy promotes an environment of mutual respect and collaboration with high ethical standards. We instill the key values of integrity and responsibility; quality and productivity at all levels of teaching, patient care and research. I am extremely thankful to President of King Faisal University, His Excellency, Dr. Abdulaziz Alsaati for his unlimited support and encouragement and for Dr. Bader Aljohar, vice president of academic affairs, for the motivation and continuous improvements.

Dr. Ibrahim Abdulrahman Alhaider

Dean of the College of Clinical Pharmacy

1.2 College History

King Faisal University was founded in 1975 G (1395 H). The main campus is located in the City of Hufuf while the branch is in the City of Dammam. It includes 16 colleges in both campuses.

The College of Clinical Pharmacy at King Faisal University, Al Hofuf City in Al Ahsa was established according to the Royal decision 167/ 8 on 29 / 3 / 1423 H for the improvement of the health services and the advancement of the pharmacy profession and to cope with the educational policy of the kingdom, which is distinguished by applying the most advances in the technology and sciences in various fields.

The study has been commenced in the academic year of 1425 / 1426 H (For Male Section) and the number of the students who joined the college in the first year reached twenty five students and in the academic year 1429/1430 h (For Female Section) the number of the students who joined the college in the first year reached Thirty students. The college offers a very advanced curriculum that follows the semester system for six years. The last year includes field training in the hospitals and community pharmacies to cope with the development of the pharmacy profession in the world with the emphasis on the clinical pharmacy sciences. In addition this curriculum was revised and developed on 2010.

The graduate of the college gets a Doctor of Pharmacy (Pharm. D.) degree so that he can do his role as a clinical pharmacist in the hospitals and the governmental and community pharmacies as well as a distinguished researcher in the pharmaceutical sciences.

Based on the recognition of the importance of the College of Clinical Pharmacy, the college got an approval to build a temporary building that follows the international specifications and standards.

The project of the temporary building occupies an area of about 17110 m². This building includes 21 laboratories for the different college departments, 22 classrooms, 3 auditoria, a central library and a computer laboratory in addition to a typical animal house, offices and administrative and technical rooms.

Former Deans



Dr. Ahmed Al-Shoaibi
(2003-2006)



Dr. Mohamed Al-Wesali
(2006-2010)

1.3 Mission, Vision and Goals



Vision of the college

“The College to be recognized nationally and internationally for preparing role models in Pharmacy practice, education and research, through its commitment to community engagement.”

Mission of the college

“To excel in pharmacy education, patient centered care, community engagement and research”

College Strategic Goals

1. Prepare Pharm. D. graduates through excellence in Pharmacy education and training
2. Recruit, develop and retain internationally recognized, competent faculty members in all the disciplines

3. Continue to develop administration that will provide leadership for achieving strategic goals
4. Maintain and enhance the quality assurance management, verified through accreditation by National and International Accrediting agencies in Pharmacy Education
5. Engage the local, national and international communities for mutual benefits through expanding the opportunities for collaboration, continuing professional development and postgraduate education
6. Conduct exceptional research in basic and clinical sciences.

Program Mission

“Prepare Pharm. D. graduates who will provide patient centered care to meet the needs of the community”

Program Goals

1. Prepare active learners and future experts in Clinical Pharmacy with required knowledge, skills and abilities
2. Educate for management of Pharmacy services and practice
3. Provide foundation for basic and clinical research in the area of drug development and usage

Program Outcomes

After completion of the program, the graduate will be able to

1. Apply fundamental scientific knowledge and principles as basis of Pharmaceutical and Clinical Sciences.
2. Apply knowledge of biomedical sciences for understanding of disease process and its diagnosis.
3. Develop patient data base from patient interview, review hospital record and communication with other health professionals.
4. Apply knowledge of clinical Sciences in designing patient specific therapeutic plan based on best evidence and counseling the patient regarding it.
5. Retrieve, interpret and report drug information from pharmaceutical and biomedical science recourses and apply information to specific patient care situation.
6. Recognize basic principles of drug development, formulation and bioequivalence studies to contribute in pharmaceutical industry and in research institutes.
7. Appreciate necessary knowledge in organizational and administrative domains for management of Pharmaceutical services and practice.
8. Recognize basic principles to design, implement and conduct research studies in different fields of pharmacy practice.

1.4 Accreditation



College of Clinical Pharmacy is currently involved in preparing to get accreditation status by National Commission for Academic Accreditation & Assessment (NCAAA) has been established in the Kingdom of Saudi Arabia with responsibility for determining standards and criteria for academic accreditation and assessment and for accrediting post secondary institutions and the programs they offer. The Commission is committed to a strategy of encouraging, supporting and evaluating the quality assurance processes of post secondary institutions to ensure that quality of learning and management of institutions are equivalent to the highest international standards. The college also plans to get accreditation from Canadian Council for Accreditation of Pharmacy Programs and recognition from ACPE. These high standards and levels of achievement must be widely recognized both within the Kingdom and elsewhere in the world.



To emerge as a reputed member of the international professional society, the qualification of our college graduates must be recognized and acceptable on a worldwide basis. For this purpose College of Clinical Pharmacy has adopted standards specified by National Commission for Academic Accreditation & Assessment (NCAAA) as a continuous process to achieve excellence in all its quality management practices. The college plans to apply for NCAAA accreditation in 2014.

The college plans to get accreditation from international accrediting agencies including Canadian Council for Accreditation of Pharmacy Programs (CCAPP) and Accreditation Council for Pharmacy Education (ACPE). CCAPP is composed of representatives appointed by the Association of Deans of Pharmacy of Canada, the Association of Faculties of Pharmacy of Canada, the Canadian Pharmacists Association, the Canadian Society of Hospital Pharmacists, the National Association of Pharmacy Regulatory Authorities and The Pharmacy Examining Board of Canada. ACPE is an autonomous and independent agency whose Board of Directors is derived through the American Association of Colleges of Pharmacy (AACCP), the American Pharmacists Association (APhA), the National Association of Boards of Pharmacy (NABP) (three appointments each), and the American Council on Education (ACE). The college has already submitted the application for CCAPP and awaiting onsite visit during the 1st semester 2013-2014. The application for ACPE is in preparation and a visit is expected in 2014. This will prepare our students for pharmacist-provided patient care within the Kingdom and abroad.

1.5 Strategic Planning – (2012-2015)

Clinical Pharmacy deals with patient centered care, where clinical Pharmacists are responsible for providing best possible therapy in the prevention and treatment of diseases. The pharmacists of today work as active members of health care providers' team to participate in decision making for patient specific therapeutic planning, monitoring and evaluating therapeutic outcomes and resolving drug related problems.



This emerging role of the pharmacists bring them to the centre of the healthcare delivery system where they are responsible for safe medication use and medication therapy management..

The College of Clinical Pharmacy at King Faisal University, Al Ahsa is the first college in the Kingdom which was established to offer six years' Pharm D program, according to the Royal Order 167/8 on 29 / 3 / 1423 H to prepare doctoral pharmacist graduates with knowledge, skills and abilities as defined by internationally recognized professional bodies like American College of Clinical Pharmacy (ACCP) and Accreditation Council for Pharmacy Education (ACPE), to cope with the changing health needs of the Kingdom. The study commenced in the academic year of 1425 / 1426 H and initially 25 students were admitted to the College. Thereafter the number of students kept changing reaching a maximum of 38 students.

Six years Pharm D program comprises of five years of didactic education with experiential modules of Introductory Pharmacy Practice Experience, while the last year consists of supervised patient centered experiential training, 10 clinical rotations as Advanced Pharmacy Practice Experience.

Colleges of pharmacy around the world are looking forward to getting the approval of (ACPE) for their Pharm. D. programs. In the early foundation stage, College of Clinical Pharmacy designed a comprehensive Study Plan keeping in view the local and national needs, and ACPE standards. The Study Plan was then benchmarked with those of 5 top US Schools of Pharmacy and got approval by the stakeholders' and finally by the University Council on 6/5/ 1426 H. Based upon the program evaluation surveys by the graduating students of first intake, reports of course evaluation surveys; recommendations of faculty members, External Reviewers from US and Australia, recommendations of stake holders and external preceptors, the study plan was thoroughly revised during 2009 through 2011. The revised plan was reviewed by advisor of NCAAA, presented in stakeholders' meeting with an excellent feedback and was finally approved by University council and implemented this year (2011).

In addition to teaching the college faculty is actively involved in research and since its inception the college has received SAR 2.2 millions as research grants from the University external sources. The college faculty has published many papers in various National and International Peer reviewed journals.

As per university Mission, College is committed to achieve its objectives through community engagement, and is actively involved, though not optimum for now, in designing and implementing non formal health educational and research surveys among our community, the outcome of which will provide positive feedback to improve practices and policies for health delivery system.

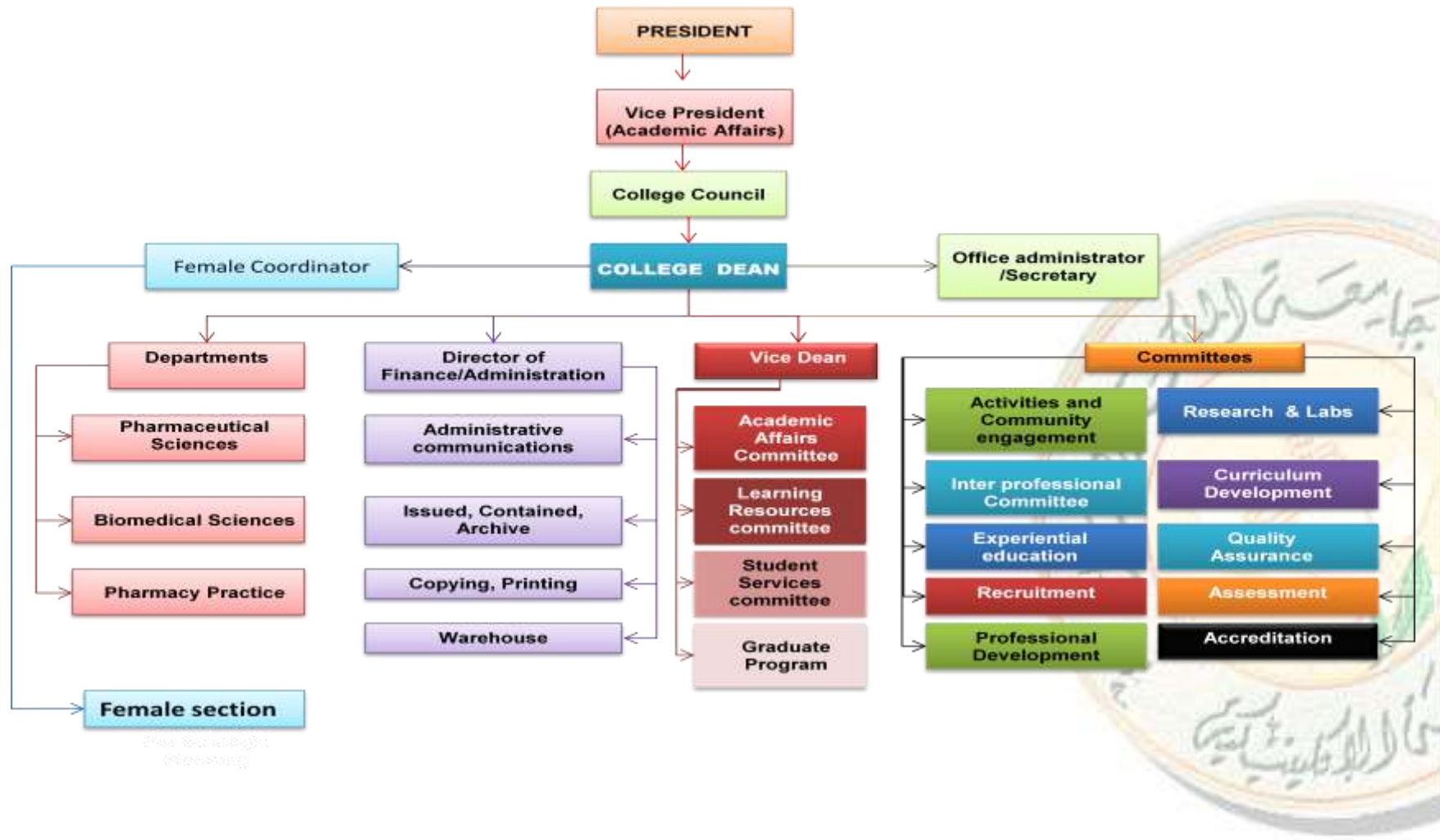
We feel that a lot is to be done and much less has been achieved in all domains of college objectives, so far.

Therefore, College of Clinical Pharmacy started strategic planning process, following footsteps of its parent University, as the college is going through major transition where revised Study Plan is being implemented, with a new administrative and academic leadership, and when the college is planning to move to its permanent custom built location. Strategic plan of the college is a course of action which will guide decisions to fulfill the college objectives and to achieve our goals in areas of Pharmacy Education, bench and practice based research, with high level of quality assurance and community engagement.



2. Organization

2.1 Organization Structure



2.2 Administration



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3. About Program and Curriculum

3.1 About Pharm. D.

The Pharm. D. program is a 5 year program, four years are spent in the campus and one year for clerkship in the hospitals. The graduate of the college gets a Doctor of Pharmacy (Pharm. D.) degree so that he can do his role as a clinical pharmacist in the hospitals and the governmental and community pharmacies as well as a distinguished researcher in the pharmaceutical sciences.

Program Outcomes

The Doctor of Pharmacy curriculum prepares graduates to

1. Apply fundamental scientific knowledge and principles as basis of Pharmaceutical and Clinical Sciences
2. Apply knowledge of biomedical sciences for understanding of disease process and its diagnosis
3. Develop patient data base from patient interview, examination, hospital record and communication with other health professionals
4. Apply knowledge of clinical Sciences in designing patient specific therapeutic plan based on best evidence and counseling the patient regarding it.
5. Retrieve interpret and report drug information from pharmaceutical and biomedical science recourses and apply information to specific patient care situation
6. Recognize basic principles of drug development, formulation and bioequivalence studies to contribute in pharmaceutical industry and in research institutes.
7. Appreciate necessary knowledge in organizational and administrative domains for management of Pharmaceutical services and practice
8. Recognize basic principles to design, implement and conduct research studies in drug and/or patient specific area

Instructional Strategies:

Several teaching and learning strategies that will stimulate student-centered, active learning are adopted to provide a strong educational foundation so that our students will become pharmacists who embrace the concept of being a life-long learner with critical thinking and problem solving abilities.

1. Didactic Lectures
2. Lab sessions/demonstrations
3. Small Group Session and tutorials
4. Experiential training: in clinical sciences
 - a. **PBL[Problem based learning]: Case-Assisted Student Centered Learning (CASCL)**, in real time clinical settings

- b. CAL [computer assisted learning]

Assessment Strategies:

Assessment tools are constructed to allow one to determine the student's knowledge base and the extent to which a student can integrate concepts and solve basic or clinical-based problems. It is stressed that all examinations should fulfill the basic characteristics of assessment, i.e. reliability, objectivity, validity and feasibility:

1. Written examination comprising of;
 - a. SEQ's
 - b. EMQ
 - c. MCQ's (Multiple Choice Questions)
 - d. Fill in the blanks
 - e. Mathematical problems
 - f. Case base questions

Admissions

Conditions and requirements for admission:

- Getting a High School diploma (the scientific section) or equivalence from inside or outside the kingdom.
- Getting a minimum score of 90% in the high school diploma.
- Getting not less than 90% in each of the following subjects: chemistry, physics, biology and mathematics.
- Passing the placement examination, which will be organized by the National Center for Measurement and Evaluation.
- Passing the learning ability evaluation test for medical colleges.
- Passing the Professional Fitness Test.
- Preference will be given to recent graduates.
- Should fulfill any other conditions announced by the University Council at the admission time.

The college follows the semester system and applies all other regulations set by the Supreme Council of Education.

1. Performance based assessment for practical segments of the basic and clinical courses (OSCEs)
2. Portfolio assessment for clinical rotations and practical segment of Therapeutics
3. Presentations, Assignments and projects

3.2 Study Plan

First Year, First Semester

Course No.	Course Title	Units				Pre
		Lectures	Practical	Cr. Hr	Cont. Hr	
2030111	Pharmacy Orientation	2	0	2	2	--
2010111	Fundamentals of Pharmaceutics	2	1	3	5	--
2010112	Pharmaceutical Organic Chemistry-1	3	1	4	6	--
2020111	Physiology-1	2	1	3	5	--
2020112	Anatomy & Histology-1	1	1	2	4	--
2020113	Biochemistry-1	2	0	2	2	--
7401101	Islamic faith	2	0	2	2	--
		14	4	18	26	

Second Semester

Course No.	Course Title	Units				Pre
		Lectures	Practical	Cr. Hr	Cont. Hr	
2010121	Physical Pharmacy	2	1	3	5	2010111
2010122	Pharmaceutical Analytical Chemistry	2	1	3	5	2010112
2010123	Pharmaceutical Organic Chemistry-2	3	0	3	3	2010112
2020121	Physiology-2	2	0	2	2	2020111
2020122	Anatomy & Histology-2	1	1	2	4	2020112
2020123	Biochemistry-2	2	1	3	5	2020113
2010124	Pharmacology-1	2	0	2	2	2020111
Total		14	4	18	26	

Second Year, Third Semester

Course No.	Course Title	Units				Pre
		Lectures	Practical	Cr. Hr	Cont. Hr	
2010211	Pharmacology-2	2	1	3	5	2010124
2010212	Medicinal Chemistry-1	3	0	3	3	2010123
2020211	Pathophysiology-1	2	0	2	2	2020111
2010213	Pharmacognosy	2	1	3	5	--
2020212	Clinical Biochemistry & Nutrition	2	1	3	5	2020123
2020213	Molecular Biology	2	0	2	2	--
740130	Contemporary Cultural issues	2	0	2	2	--
Total		15	3	18	23	

Fourth Semester

Course No.	Course Title	Units				Pre
		Lectures	Practical	Cr. Hr	Cont. Hr	
2010221	Pharmacology-3	3	0	3	3	2020121
2010222	Medicinal Chemistry-2	3	0	3	3	2010212
2010223	Pharmaceutical Dosage Forms	2	1	3	5	2010111
2020221	Pathophysiology-2	2	0	2	2	2020121
2020222	Immunology	2	0	2	2	2020121
2020223	Microbiology	3	1	4	6	2020211
2030221	Pharmaceutical Care-1	0	1	1	3	--
Total		15	3	18	24	

2030231	IPPE-1(Introductory Pharmacy Practice Experience in Community Pharmacy) For 4 weeks, 160 hours	0	2	2	6	-----
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Third Year, Fifth Semester

Course No.	Course Title	Units				Pre
		Lectures	Practical	Cr. Hr	Cont. Hr	
2010311	Pharmacology-4	3	0	3	3	2020121
2010312	Pharmaceutical Delivery System	2	0	2	2	2010223
2010313	Medicinal Chemistry-3	2	0	3	3	2010222
2010314	Bio-pharmaceutics	2	1	3	5	--
2030311	Therapeutics-1	4	1	4	7	2010211
2030312	Pharmaceutical Care-2	2	1	3	5	2030221
Total		15	3	18	24	

Sixth Semester

Course No.	Course Title	Units				Pre
		Lectures	Practical	Cr. Hr	Cont. Hr	
2030321	Therapeutics-2	4	1	5	7	2010221
2030322	Pharmaceutical Care-3	2	0	2	2	2030312
2030323	Institutional Pharmacy Practice	1	0	1	1	--
2030324	First Aid and Emergency Medicine	0	1	1	3	2020121
2010325	Research Methodology & Biostatistics	2	1	2	4	2020213
2010321	Natural Products & Herbal Medicine	2	0	2	2	2010213
	Elective University Required Course	2	0	2	2	
2010322/2010323	Electives Industrial	2	0	2	2	2010223/2010313

	Pharmacy/Principles of Drug Design					
	Total	14	3	17	23	
Summer training						
2030331	IPPE-2 Introductory Pharmacy Practice Experience in Institutional Pharmacy, for 4 weeks, 160 hours.	0	2	2	160	2030231



Fourth Year, Seventh Semester

Course No.	Course Title	Units				Pre
		Lectures	Practical	Cr. Hr	Cont. Hr	
2030411	Law & Ethics in Pharmacy Practice	1	0	1	1	2030111
2030412	Therapeutics-3	4	1	5	7	2010221
2030413	Drug Information Services	2	1	3	5	2030311
2030414	Clinical Pharmacokinetics	2	1	3	5	2010314
2030415	Parenteral Nutrition	1	0	1	1	2020212
2030416	Pharmaco-economics	1	0	1	1	--
	Elective Islamic Course	2	0	2	2	--
	Total	13	3	15	22	

Eighth Semester

Course No.	Course Title	Units				Pre
		Lectures	Practical	Cr. Hr	Cont. Hr	
2010421	Clinical Toxicology	2	0	2	2	2010124
2030421	Therapeutics-4	4	1	5	7	2010311
2030422	Pharmacy management	2	0	2	2	2030323
2030423	Pharm.D. Seminar	0	1	1	3	2030325
2030424	Self care & Non prescription Drugs	2	0	2	2	2010312
2030425	Pharmaco-epidemiology	1	0	0	1	2030414
2020421/2030426	Elective Pharmaceutical Biotechnology /Pharmacogenomics:	2	0	2	2	2020213/2020213
	Total	13	2	15	19	

Summer semester

Course No.	Course Title	Units				Pre
		Lectures	Practical	Cr. Hr	Cont. Hr	
2030431	Advanced Pharmacy Practice Experience-1 (APPE1)	0	5	5	40	
Total		0	5	5	40	



Fifth Year, Ninth semester

Course No.	Course Title	Units				Pre
		Lectures	Practical	Cr. Hr	Cont. Hr	
2030511	Advanced Pharmacy Practice Experience-2 (APPE2)	0	15	15	120	
Total		0	15	15	120	

Tenth semester

Course No.	Course Title	Units				Pre
		Lectures	Practical	Cr. Hr	Cont. Hr	
2030521	Advanced Pharmacy Practice Experience-3 (APPE 3)	0	15	15	120	
Total		0	15	15	120	

Courses' Description

First Year: Sem.1

PP-1	Pharmacy Orientation	2+0	توعية صيدلانية
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Course Description:

This course will cover The definition of Pharmacy and different areas of pharmacy profession and history of pharmacy, Introduction to ancient drugs, Ancient Egyptian, Greek and Roman medicine, Chinese and Indian medicine, Arab medicine in Spain and modern European medicine, History and Global progress in Pharmaceutical education, Type of Different dosage forms, Methods for the preparation of drugs, Introduction to Pharmacopoeias, formularies, regulatory control, and drug management, Medical and pharmacy terminology related to body systems needed for complete understanding of other courses, Objectives, scope and requirements of Pharm.D. program, Introduction to various terms like Pharmaceutical Care, Medication Therapy Management, Role of clinical pharmacist in Community and Health care setting, Introduction to clinical pharmacy and Role of clinical pharmacist in direct patient care as effective member of Inter-professional team of health care providers, , Introduction to various courses, compulsory and electives included in Pharm.D. Program, Mode of teaching, learning and training in Pharm.D. program, like concepts of Inter-professional Education and Service learning in Clinical Pharmacy Problem Based Learning, Objective Structured Clinical Exam (OSCE), Institutional Pharmacy Training and Experiential learning, College disciplinary rules and regulation for the examination.

PS-1	Fundamentals of Pharmaceutics	2+1	أساسيات الصيدلانيات
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Lectures: This course describes parts of prescription, abbreviation, model prescription, controlled substances, labeling techniques, weighing and measuring for compounding extemporaneous preparation and related incompatibilities. Introduction to various pharmaceutical dosage forms and basic guidelines such as solid, liquid, semisolids, suspensions and emulsions.

Practical: Standards for balances, weights and volumetric devices, Calculation, Compounding Prescription, Concentration and dilutions, Pharmaceutical Incompatibilities, types of labels. Lab sessions will be focused on solving actual, practical problems, thus building critical thinking and problem solving skills among the students

PS-2	Pharmaceutical Organic Chemistry-I	3+1	كيمياء عضوية صيدلانية-1
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Lectures: General introduction, nomenclature, bonding, structural isomerism, nomenclature and alkanes, stereochemistry and its biological applications, alkyl halides, free-radical reactions, alcohols, ethers, epoxides, sulfides and their pharmaceutical applications.

Practical: Practical session will consist of case based discussions, focusing on development of critical thinking and problem solving skills among students. Spectrometric Identification of different organic compounds (nuclear magnetic resonance, mass spectrometry and its applications in drug metabolism and infra red spectrophotometry).

BMS-1	Physiology-1	2+1	علم وظائف الأعضاء-1
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Lectures: Physiology of the cell, muscle and nerve (Resting membrane and action pot.-structure of sk. M.F, Simple M Twitch, tetanus & clonus, blood (Erythropoiesis, anemia, W.B.Cs, Coagulation, Blood grouping, immunity), autonomic and central nervous systems (receptors, sensations, vision and hearing, equilibrium), cardiovascular system (properties, heart rate, blood pressure, ECG, cardiac output, hemorrhage & Shock) and respiration (Mechanics of breathing, surfactant, lung vol. & capacities, regulation of breathing, O₂ -CO₂ transport by blood, Hypoxia, Cyanosis, artificial breathing).

Practical: Practical lab sessions will be limited to Hematological indices, determination of blood coagulation time, Blood Grouping and Rhesus factor, Measurement of blood pressure and ECG tracing identification. Appropriate time will be assigned to Case studies on Anemia, including Sickle Cell diseases, Hemophilia and Blood Group matching.

BMS-3 Biochemistry-1 2+0 1-كيمياء حيوية

Lectures: It is an introductory course that covers fundamental theoretical concepts of biochemistry and applications of the biochemistry in the life; the chemistry of biomolecules like carbohydrates, amino acids, proteins, nucleic acids, lipids and steroids; enzymes and enzymes regulations.

**BMS-2 Anatomy and Histology-1 1-علم التشريح والأنسجة-1
1+1**

Lectures: General features of bones; gross anatomy of organs, muscles, vessels and nerves; anatomy of limbs; development of human embryo and teratogenicity. Microscopic anatomy of the cell and tissues; histology of cardiovascular.

Practical: Lab sessions will consist of clinical case discussions followed by identification of relevant structures for applicable concepts for future clinical practice. To introduce the concept of IPE as basis of future collaborative clinical work,, the sessions will be facilitated jointly by Medical Faculty member in College of Medicine, preferably, in combined groups of medical and pharmacy students

Anatomy: Demonstration of human body parts.

Histology: Microscopic slides of tissues and organs of the body.

First Year Sem.2

PS-3 Physical Pharmacy 2+1 صيدلانيات فيزيائية

Lectures: This course describes fundamentals of physical pharmacy, physical properties of drug molecules, rheology, adsorption, surfactants, solubility, co-solvent, Effect on solubility, dissolution, pH and buffering, Concept of complexation, , thermodynamics, enthalpy and free energy, reaction kinetics, drug stability.

Practical: Lab hours will be utilized for case discussions to develop critical thinking and problem solving skills . Various topics covered will be: pH, pKa, density, viscosity, surface tension, flow properties of powder and adsorption. Mathematical problems will be used to enhance students skills for various pharmaceutical calculations related with pharmacy practice

PS-4 Pharmaceutical Analytical Chemistry 2+1 كيمياء تحليلية صيدلانية

Introduction and applications of chemical and physical methods of analysis of pharmaceutical substances. Fundamental concepts and applications of quantitative analysis utilizing different methods of instrumental analysis. These methods include colorimetry, ultra-violet spectroscopy, fluorometry, flame photometry and atomic absorption spectrophotometry. Introduction to Chromatography.

Practical: Six practical sessions, including service learning sessions involving project involving community service (testing water samples of various localities of the region and reporting to relevant authorities) Drug analysis utilizing the above mentioned methods.

PS-5 Pharmaceutical Organic Chemistry-2 3+0 كيمياء عضوية صيدلانية-2

Lectures: Alkenes and alkynes, aromaticity and benzene, substituted benzene, aldehydes and ketones, carboxylic acids and derivatives (amides, anhydrides, esters), amines and heterocyclic compounds. The effect of the chemical properties on the biological activity.

BMS-4 Physiology-2 2+0 علم وظائف الأعضاء-2

Lectures: Endocrinology: (pituitary, thyroid, parathyroid, reproductive systems hormones....etc), mechanism of hormonal action, types of hormones, regulation of hormone secretion & Hormonal effects. Digestion: GIT secretions & motility, liver function & gall bladder function, GIT disorders. Metabolism: temperature regulation, Basal metabolic rate, obesity. Renal physiology:, body fluids and acid base balance.

BMS-5 Anatomy and Histology-2 1+1 علم التشريح والأنسجة-2

Lectures: General features and anatomy of central and autonomic nervous systems; development of human embryo and teratogenicity. Microscopic anatomy of the lymphoid, digestive, respiratory systems, urinary, endocrine, reproductive and integumentary system.

Practical: Lab sessions will consist of clinical case discussions followed by identification of relevant structures for applicable concepts for future clinical practice. To introduce concept of IPE, and as basis of future collaborative clinical work,, the sessions will be facilitated by Medical Faculty

member in College of Medicine, preferably, in combined groups of medical and pharmacy students

Anatomy: Demonstration of human body parts.

Histology: Microscopic slides of tissues and organs of the body.

BMS-6 Biochemistry-2 2+0 كيمياء حيوية-2

Lectures: Metabolic pathways of biomolecules including; carbohydrates, lipids, steroids, prostaglandins, amino acids, proteins, nucleoproteins, nucleic acids, hem proteins, xenobiotics, free radicals and antioxidants in addition to their regulation.

Practical: 50% of practical lab sessions will consist of discussion sessions, where students will discuss, interpret and reflect on given lab report of biochemical tests, included in the course. Practical exam will also consist of 50% lab practical and 50% case scenarios with lab reports to be interpreted

Topics for practical sessions: Biochemical units of measurements, with special reference to molar units. Qualitative and quantitative assessment of carbohydrates, lipids, proteins and enzymes. Urine analysis, renal stone analysis, assessment of renal functions in form of estimation of blood levels of total proteins and non protein nitrogenous compounds including; Creatinine and urea will be estimated.

PS-6 Pharmacology-1 2+0 علم الأدوية-1

Lectures: Introduction to pharmacology, history and its subdivisions; Drugs and their origin, routes of drug administration, General principles in Pharmacology: drug absorption, distribution, metabolism: enzyme induction and inhibition, elimination, excretion and clearance of drugs; essentials of drug action, nature of drug receptors and drug receptor interactions with signaling mechanisms, , concept of agonist-antagonist and their types, dose response relationships, efficacy, potency and therapeutic index, variation in drug responses. Adverse drug reactions
Introduction of Autonomic Nervous system, Synthesis and metabolic pathways of Neurotransmitters, Cholinergic and adrenergic transmission and autonomic receptors, Cholinergic, anticholinergics, adrenergic and antiadrenergic drugs, Ganglionic and Neuromuscular blockers, Autacoids

Second Year Sem.1

PS-7 Pharmacology-2 علم الأدوية-2

Lectures: The students shall be provided with knowledge of the principles of cardiovascular, GIT, and respiratory drug actions, establishing enough adequate scientific background when using such drugs and to be critical in coping with new drugs in his future practice. They will also be able to impact an essential knowledge base of information about each cardiovascular, GIT, and respiratory prototype drug for a better correlating of current practices in pharmacy and therapeutics. This includes the following important groups of drugs:

Drugs used in treatment of hypertension, angina, heart failure and cardiac arrhythmias, drugs used in urogenital system, diuretics, drugs used in treatment of thromboembolic diseases, bleeding disorders as well as anemia, dyslipidemias, and drugs used in treatment of GIT, and respiratory diseases.

Practical: Simulation lab sessions to strengthen the concepts of mode of drug actions. Case studies involving the drugs included in the course.

PS-9 Medicinal Chemistry-1 كيمياء دوائية-1 3+0

Lectures: This course provides an introduction on drug actions and the chemistry and pharmacological activity of drugs acting on autonomic nervous system and cardiovascular system. The following topics will be addressed: Introduction to medicinal chemistry, drug action on enzymes, drug action on receptors, drug development, quantitative structure-activity relationship, drugs acting on autonomic nervous system, cardiovascular system (cardiotonics, anti-arrhythmics, vasodilators, antihypertensive, antihyperlipidemic, drugs affecting blood and diuretics) and drug design for related drugs.

BMS-7 Pathophysiology-1 علم فسيولوجيا الأمراض-1 2+0

Lectures: Physiological basis of pathology, etiology of diseases. Inflammation process and Cell Cycle. Cellular disturbances: Degeneration; regeneration and repair. Basics of neoplasm and Metabolic diseases. Diseases of cardiovascular system, Diseases of respiratory system, Skin transmitted diseases . Dermatology and sexually transmitted diseases. Parasitic and microbial diseases.

PS-16 Pharmacognosy عقاقير 2+1

Lectures: An introduction to Pharmacognosy, Drug evaluation and identification of adulterants. Study of certain organized drugs, leaves, flowers, barks, woods, seeds, fruits, herbs, roots and rhizomes. The study of each organ includes definition, collection, constituents, and diagnostic elements, chemical tests for identity, purity and uses.

Practical: Practical hours will be used for group discussions, presentations and case based studies on usage of natural products among local citizens and health profession and its importance in different diseases.

BMS-9 Molecular Biology 2+0 علم الأحياء الجزيئية

Lectures: Molecular biology methods are used extensively in modern day drug discovery, research and development, and diagnostics. This course is intended to provide background knowledge of Molecular biology to future clinical pharmacists. The course includes; Cell structure and functions, Mitosis and Meiosis, Chromosomes to DNA, Intracellular communications and mechanisms of signal transduction, Nucleotides and Nucleic acids, DNA and its organization in the nucleus, Information flow in the cell, DNA replication and its inhibitors, DNA repair mechanisms, Eukaryotic and Prokaryotic replication, Gene expression and its control, Transcription and its control, Genetic code and mutations, Protein synthesis and its inhibitors, Recombinant DNA techniques and Introduction to Bioinformatics.

**BMS-9 Clinical Biochemistry and Nutrition الكيمياء الحيوية السريرية والتغذية
2+1**

Lectures: The metabolic disorders related to metabolism of carbohydrates, lipids, steroids, amino acids, proteins, nucleoproteins, nucleic acids and hemoproteins. Also, starvation and obesity will be covered. In addition to the clinical enzymology, vitamins and minerals; electrolyte and trace elements will be taught. Topics also include, biochemical changes occurring in human body under pathological conditions and the related diagnostic lab parameters. Also it deals with evaluation of the disease parameters in biological fluids and their interpretations.

Practical: Investigation of biomedical changes associated with the metabolic diseases. Accuracy and precision of analysis. Assessment of liver functions in form of estimation of serum levels of GPT, GOT, albumin, total and direct bilirubin. Also, Assessment of lipogram in form of estimation of serum levels of total lipids, triglycerides, cholesterol, HDL and LDL. In addition to determination of blood levels of glucose, hemoglobin and serum uric acid. Case-based discussions will be included in the practical sessions

Second year Sem.2

PS-12 Pharmacology-3 2+! علم الأدوية-3

Lectures: The students shall be provided with knowledge of the pharmacokinetic and pharmacodynamic principles governing the drug actions, adverse drug reactions and drug interactions both in clinical pharmacy practice as well as in basic and clinical research in the area of pharmacology. This includes the following important groups of drugs:

CNS acting drugs (antipsychotic, antidepressants, anxiolytic, sedative and hypnotic agents), drugs used in parkinsonism and other movement disorders, Alzheimer's disease, epilepsy, local and general anesthetics, drugs of abuse and opioid analgesics. Nonsteroidal anti-inflammatory drugs and drugs used in rheumatoid arthritis and gout, Hormonal drugs (pituitary hypothalamic, corticosteroids male and female sex steroids, contraceptive and fertility drugs), and drugs acting bone and mineral

homeostasis,

PS-11 Medicinal Chemistry-2 كيمياء دوائية-2
3+0

Lectures: This course enables the student to know the chemistry and mode of action of hormones and drugs acting on the central nervous system. The following topics will be addressed: Chemistry and mode of action of drugs acting on the central nervous system (analgesics, anaesthetics, psychotropic drugs, antiepileptics and anti-parkinsonism), non steroidal anti-inflammatory, antihistaminic, local anesthetic agents, prostaglandins, steroidal and non-steroidal hormones, adrenocorticoids, oral hypoglycemics and anti-thyroid. Drug design for related drugs.

PS-10 Pharmaceutical Dosage Forms 2+1 أشكال الجرعات الصيدلانية

Lectures: This course covers the design and formulation of dosage forms, including liquids (elixirs, iodine solution, gargle, mouth wash), semisolids dosage forms (ointments, creams, gels, suppositories) and solid dosage forms (powders, tablets, capsules), emulsion, suspensions, parenteral preparations from raw materials, methods of preparation and quality control tests.

Practical: Seven of the practical sessions will be utilized for case based discussion. Calculations and preparations of different semisolids and solid dosage, liquid and sterile dosage forms and their quality control.

BMS-10 Pathophysiology-2 2+0 علم فسيولوجيا الأمراض-2

Lectures: Immune disorders (Auto immune diseases)- GIT disorders (diarrhea- Constipation- Peptic ulcers- gall bladder stones- jaundice and liver diseases: Hepatitis & liver cirrhosis)- Renal disorders (urinary tract obstruction- Renal stones- urinary tract infections- Renal failure-Body fluid disorders) – Endocrine disorders: Pituitary disorders (Hyper-prolactinemia- Acromegaly & Gigantism, dwarfism-Simmonds disease- ADH disorders-thyroid gland disorders (Goiter- Myxedema)- Suprarenal gland disorders (Cushing syndrome & Addison's disease)- Hematological disorders : Anemia-polycythemia- leukemia- Leukocytosis & Leucopenia. CNS disorders: Sensory & motor neurological disturbances, basal ganglia disorders, Headache.

BMS-12 Microbiology 3+1

علم الأحياء الجزيئية

Lectures: Microbiology is course offered to prepare the students for understanding of infectious diseases and their management. It includes; Introduction to Microbiology including History and its need in Pharmacy, General principals of Microbial Concepts including Terminology, Host parasite relationship and Normal Flora, Pathogenicity of Microorganisms, Principals of infectious Disease, Bacterial structure and classification, Bacterial growth, metabolism and its Genetics, Important pathogenic bacteria and Mechanisms of disease production, Fungi, Protozoa and Helminthes, Introduction to Virology including viral classification and important Human diseases causing viruses.

Practical: 50% time will be allocated to case studies, Gram staining, Culture and sensitivity tests, MIC for various anti-microbial drugs.

BMS-11 Immunology

علم المناعة

Lectures: Immunology is course offered in order to prepare the students for better understanding of drug pharmacokinetics and disease processes. The course is divided into Basic and Clinical sections and includes Basic concepts in immunology, adaptive and innate immunity, Immunological products and role of immunological products in prophylaxis, therapy and diagnosis. Antigen-antibody reactions, Immuno-regulation, Immunological memory and tolerance, Aberrations of the immune system including autoimmunity, Transplantation and rejection. Specific topics include Anatomy of the Immune System, Organs, Tissues, Cells and Soluble Factors of Immune System, The Immune Response, The Innate Immune System, The Adaptive Immune System, Humoral Immunity, Cell Mediated Immunity, Hypersensitivity Reactions, Autoimmunity, Immune Deficiency Disorders, Transplantation immunology and Tumour Immunity.

PP-2 Pharmaceutical Care-1 1-1

رعاية صيدلانية-1

0+1

Practical Sessions: This course will cover Introductory foundation to patient centered Pharmaceutical Care Practice/Medication Therapy Management, by providing the students first practical experiential interaction with patients, hospitals and its organization, administration of patient care facilities, and drug therapy management system. It will provide the student an experience of retrieving information directly from the patient regarding his health problem (history taking) and drug therapies (treatment history) as well as from medical chart, database, and from the caregivers using appropriate effective communication in both oral and written forms. In the first segment of the course, the students will learn the practical techniques in small groups during laboratory exercises in interviewing supervised by the instructors followed by clinical rotations. Student will participate in Supervised counseling of the patients. Student will also observe/study the hospital pharmacy organization in this course.

Third year Sem.1

PS-13 Pharmacology-4 3+0 علم الأدوية-4

Lectures: The students shall be provided with knowledge of the pharmacokinetic and pharmacodynamic principles governing the drug actions, adverse drug reactions and drug interactions both in clinical pharmacy practice as well as in basic and clinical research in the area of pharmacology of chemotherapeutic drugs. Pharmacology of chemotherapeutic drugs Antibacterial antiviral, antiparasitic, antifungal, anticancer and Immunopharmacology agents. Dermatological drugs

Introductory pharmacogenetics will also be the part of course

PS-14 Pharmaceutical Delivery Systems2+0 نظام إعطاء الدواء

Lectures: This course introduces the concept in Pharmaceutical/Drug Delivery including targeted and controlled drug delivery. Fundamental considerations of sustained release drugs, Liposomes, Niosomes, Microspheres, Nanoparticles, Parenteral or Sterile Preparations {Ocular drug delivery (calculation related to Osmolarity & Isotonicity)}, pulmonary drug delivery and Radiopharmaceuticals.

PS-15 Medicinal Chemistry-3 2+0 كيمياء دوائية-3

Lectures: This course enables the student to know the chemistry and mode of action of drugs acting as antibacterials, antivirals, antifungals, antiparasitics and antineoplastics. The following topics will be addressed: Chemistry of antibiotics (Bata lactams, tetracyclines, macrolides, rifamycins, chloramphenicol, aminoglycosides, antifungal and polypeptide), antibacterials, antimycobacterials, antivirals, antifungals, antimalarials, anthelmintics, antiscabious, antipedicular agents, antiprotozoal, antibilharzial agents and antineoplastics. Drug design for related drugs.

PP-3 Therapeutics-1 4+1 علاجات-1

Lectures: This course will cover Introduction Clinical laboratory tests and their interpretation and affects on therapy, Racial, ethics and gender differences in response to drugs, Epidemiology, Pathophysiology, Clinical presentation, and drug related problems during the management of cardiovascular disorders i.e. Cardiovascular Testing, Cardiopulmonary Arrest, Hypertension, Heart Failure, Ischemic Heart Disease, Acute Coronary Syndromes, Arrhythmias, Venous Thromboembolism, Stroke, Hyperlipidemia, Peripheral Arterial Disease, Use of Vasopressors and Inotropes in the Pharmacotherapy of Shock, Hypovolemic Shock. **Anemias including sickle cell diseases**

Practical: Clinical case studies, Case-Assisted Student Centered Learning (CASCL), case presentation followed by case discussion and presentation in SOAP format. The students will be required to maintain case histories log book. Students will visit hospital for minimum of 6 hours during the course to interact with other health professionals in relation to clinical case selection, discussion, presentation and reflection in an interprofessional environment.

PP-4 Pharmaceutical Care-2 رعاية صيدلانية-2
2+1

Lectures: This course will cover Introduction to Concept of Pharmacy practice and philosophy of pharmaceutical care, Pharmacotherapy Plan, Patient interview and the history taking, Communication skills in patient counseling, Barriers to affective communication , Concept and Paradigm of Patient counseling , Ethical Consideration In Pharmaceutical care , Review of medical records and data collection , Interpreting Lab values , Vital signs assessment and their interpretation, Glasgow coma scale, Morisky Scale, Beck Depression Inventory Clinical examination of individual organ systems examination of extremities and back, cardiovascular respiratory, gastrointestinal system, and CNS clinical examination and interpretation, in diagnosis and prognosis of the diseases during Pharmacotherapy, Standards of Care for Practitioners.

The course will be jointly taught by pharmacy and medical faculty at the college campus.

Practical: Introduction to equipment, practical demonstration of techniques of physical examination and clinical assessment in disease states, both in simulation lab and clinical setting. The student will maintain log book of case studied.

Students will be provided with, minimum two IPE sessions, 3 hours each, with students of CoM, under supervision of medical faculty, as an early exposure to IPE environment to prepare them for future collaborative clinical rotations during APPE.

PS-8 Biopharmaceutics 2+1 صيدلة حيوية

Lectures: This course introduces students to the concept and principles of biopharmaceutics, understanding of clearance, volume of distribution, order of kinetics, compartmental models, plasma protein binding. First pass and second pass metabolism. Physicochemical and dosage form factors influencing bioavailability. Assess and measure key biopharmaceutical properties, Bioequivalence, and biopharmaceutical classification scheme (BCS). Influence of dosage regimens on the plasma concentration-time profile of a drug in the body and factors involved in steady-state plasma concentration of a drug.

Practicals: Use of semi log graph paper, order of reaction, half life, clearance, area under curve (AUC), C_{max} and t_{max} and other calculations related to biopharmaceutics. Case studies will also be discussed in practical hours

Third year Sem.2

PP-4 Therapeutics-2 4+1 علاجات-2

Lectures: This course will cover Patho-physiology and pharmacotherapy of Asthma, Chronic Obstructive Pulmonary Disease, Pulmonary Hypertension, Drug-Induced Pulmonary Diseases, Cystic Fibrosis, Peptic ulcer, Inflammatory bowel diseases, Nausea and vomiting, Cholecystitis, Constipation and diarrhoea, Cirrhosis, Pancreatitis, Drug-Induced Liver Disease, Pancreatitis, Drug Therapy Individualization in Patients with Hepatic Disease or Genetic Alterations in Drug Metabolizing Activity. Acute and chronic renal diseases, Dialysis, Pharmacotherapy of end-stage renal diseases, Drug Induced kidney diseases, Critical care therapy for transplant patients. Gout, Rheumatoid

Arthritis and Systemic Lupus Erythromatosis

Practical: Clinical case studies, Case-Assisted Student Centered Learning (CASCL), case presentation in real time clinical settings (in hospitals) followed by case discussion. The students will be required to maintain case histories log book, from hospitals. Students will visit hospital for minimum of 6 hours during the course to interact with other health professionals in relation to clinical case selection, discussion, presentation and reflection in an interprofessional environment.

PP-6 Pharmaceutical Care-3 رعاية صيدلانية-3
2+0

Lectures: In continuation with Pharmaceutical care1 and 2, this course will cover, in depth, concepts of medication therapy management, including Medication therapy review, Personal medication record (PMR), Medication-related action plan (MAP), Intervention and/or referral, Documentation and follow-up in patient centered pharmaceutical care, including

The course will include Clinical Management of Diseases and incorporating clinical guidelines into Pharmaceutical Care. Patient assessment in relation to drug related problems, data collection, Developing and implementing action plan, principals of communication of action plan to the patient and health care providers, Pharmacotherapy case presentations, Decision Making (Decision making tree and other techniques), documentation (SOAP and other data collection and recording techniques) in Medication Therapy Management, Drug Therapy Problems, Follow up plan and adherence/compliance issues in Pharmaceutical care, Interventions in therapeutic made by the pharmacist and their effects health and economic outcomes Pharmaceutical care concerns in Pediatrics' Geriatrics, and women health. Interpreting patients' data/record for Drug Use evaluation, Drug Audit, medication error and adverse drug reactions. Ethical standards and professionalism in Pharmaceutical care practice.

PP-7 Institutional Pharmacy Practice ممارسة صيدلانية مؤسسية
1+0

Lectures: This course is aimed at providing the students insight of institutional pharmacy practice and will be followed by experiential summer training in hospital pharmacy. Lecture topics will include: hospital formulary; Inpatient outpatient and satellite/floor pharmacies; hospital pharmacy supplies, storage, indent; inventory control methods and medication distribution systems, automation in pharmacy practice; unit dose system, IV admixtures, controlled drugs/substance management; Investigational drugs in the hospital pharmacies; prescription and medication errors, medication safety; medication reconciliation, pharmacy and therapeutics Committee, principles of educations of nurses and other paramedics.

PP-8 First Aid and Emergency و طب الطوارئ الإسعافات الأولية
Medicine 0+1

Practical

Introduction to First Aid and Emergency Medicine, triage and referral skills for all ages and all systems of the body. Management of the injured patient and shock, Maintenance of airway passages and intravenous line, Cardiovascular resuscitation, Basic Life Support, management of bleeding, open wounds, fractures, epilepsy, coma, sunstroke, animal bites, high grade fever, burns, poisoning,

drowning, head injuries and emergency procedures at home, work, or leisure. Students will be required to successfully complete approved course on BLS in Hospital in an IPE environment

PP-9 Research Methodology & Biostatistics منهجية البحث والإحصاء الحيوي

Basic principles of biostatistics and research methodology have also been included in this course like, the research process, scales of measurement, accuracy of data, validity and reliability), research design (objective, literature review, sampling, types of design), clinical trial design (controlled multi-centered studies, random allocating, study types, blindness, placebo effect, retrospective and case studies, data collection forms). Individual variation, statistical terminology, errors of sampling, probability concepts, distribution of random variables, non-parametric methods, validity of results, analysis of variance and tests for significance, choice of proper tests for significance, statistical methods applied to biological assays and proper experimental design. During the course of study the students are divided in groups and each group is assigned a topic to develop a research proposal and defend it.

**PS-17 Natural Products & Alternative Medicine كيمياء النواتج الطبيعية والطب البديل
2+0**

Lectures: The course includes wide range of active constituents, their extrication methods, isolation, identification and assay. In addition to identification of the marketed drugs containing these active constituents. Also the course includes the different ways of adulteration and the different methods to detect these adulterations in order to standardize and apply quality control to herbal drugs. The course also deals with herbal medicine, current classes and application.

At the end of this course the students will have a basic background in phytochemistry to pharmacy practice, including the detailed studies about active constituents in the taught systems. In addition the students will be able their basic background in herbal medicine.

Detailed learning objectives provided for each lecture and exercise session are the basis for assessment..

Third year Sem.2 Electives

**PS-19 Industrial Pharmacy الصيدلة الصناعية
Elective 2+0**

Lectures: This course describes the manufacturing facilities, main unit operations that take place in the pharmaceutical industry and related equipment carrying out such operations. These operations include heat transfer and related pharmaceutical process such as freeze drying, sprays drying and drug stability studies. United States Pharmacopeia, FDA guidelines and fundamental considerations of good manufacturing practice (GMP) and quality control.

PS-20 Principles of Drug Design 2+0 مبادئ تصميم الأدوية

Elective

Lectures: This course provides an introduction on the principles of drug design and the development of new therapeutic agents from prototype compounds with special emphasis on drug action at the molecular level. The following topics will be addressed: overview of drug discovery and drug development, targets for biologically active molecules, structure-activity relationships, isosterism, prodrug design and applications and drug metabolism.

Summer training [Introductory Pharmacy Practice Experience - IPPE]

IPPE-2 (0 +2 credit hours)

40 hours/week = 4 weeks during summer

IPPE (Introductory Pharmacy Practice Experience) course is designed to provide to initial experience of institutional pharmacy practice and administration. Students will be involved in outpatient pharmacy activities like prescription handling and dispensing, patient counseling regarding medication with a comprehensive exposure ambulatory care. In patient pharmacy operations like in patient order entry, unit dose system, intravenous admixture, controlled medication handling will also be practiced by the student under supervision of preceptor. IPPE is preceded by a didactic course and institutional pharmacy practice during second semester of 3rd year.

Fourth Year Sem. 1

PP-9 Law and Ethics in Pharmacy أخلاقيات وقانون الصيدلة
Practice 1+0

Lectures: Governmental laws, regulations, detailed laws that govern and affect the practice of pharmacy such as drugs, narcotics and medical devices. General legal principles, non-controlled prescription requirements and over the counter drug requirements. Responsibilities of the pharmacist on the care of patients. Professional code of conduct, Common ethical issues and considerations, Identification of ethical problems and their workup.

PP-10 Therapeutics-3 4+1 علاجات-3

Lectures: This course will Focus on the Pharmacotherapy, Patho-Physiology of following disorders , Endocrinologic Disorders: Diabetes Mellitus, Diseases of Thyroid and parathyroid gland , Adrenocortical Disorders, Disorders of calcium Metabolism: Osteoporosis, Women Health: Gynecologic Diseases, Contraception, Hormone Replacement Therapy,

Central Nervous System and Psychiatric Disorders: Parkinson's disease, Epilepsy, Alzheimer's Disease, Multiple Sclerosis,

Psychiatric Disorders: Anxiety, Depression, Bipolar Disorders , mood and sleep disorders, Attention deficit/hyperactivity disorders (ADHD), , Schizophrenia, Alcoholism & substance abuse smoking cessation

Practical: Clinical case studies, Case-Assisted Student Centered Learning (CASCL), case

presentation followed by case discussion and presentation in SOAP format. The students will be required to maintain case histories log book. Students will visit hospital for minimum of 6 hours during the course to interact with other health professionals in relation to clinical case selection, discussion, presentation and reflection in an interprofessional environment.

PP-13 Clinical Pharmacokinetics حركية الدواء الإكلينيكية
2+1

Lectures: This course will focus on the basic principles of Pharma-co-kinetic for the purpose of optimizing drug therapy, therapeutic drug monitoring with the emphasis on pharmacokinetics of the following drugs. Therapeutic drug monitoring with the emphasis on pharmacokinetics of the following drugs (such as: aminoglycosides antibiotics, carbamazepine, cyclosporine, digoxin, ethosuximide, lidocaine, lithium, methotrexate, phenobarbital, phenytoin, procainamide, quinidine, salicylates, theophylline, tricyclic antidepressants, Valproic acid and vancomycin).

Practical: Group discussions on clinical problems/case scenarios aiming at interpretation of given data in the case scenario and solving the problem in terms of individualized dose calculation to optimize the drug therapy for that particular case/situation

PP-17 Pharmacoeconomics 1+0 اقتصاديات الدواء

Lectures: Introduction to Pharmaco- economics, Implication of Pharmaco-economics in Pharmacy, Investigating Pharmaco- economics Research Question, Quality Of life and Quality adjusted Life years , Measuring Cost, Cost Minimization Analysis, Cost Effective analysis , Cost Benefit Analysis , Cost Utility Analysis , Sensitivity Analysis , Decision Analysis, Daily Dose Calculation

PP-14 Parental Nutrition 1+0 التغذية الوريدية الكلية

Course Description: This course will cover; Principles of Healthy Nutrition, Nutritional Assessment of Hypertension and Cardiovascular Diseases; Critically Ill Patients; Gastrointestinal Diseases ; Renal Disease ; Pulmonary Diseases ; Life Expectancy ;HIV/AIDS ;Metabolic Stress ;Neoplastic Diseases ; Rheumatic Diseases ; Nutrition and Anemias ; Neurological and Mental Disorders, TPN Preparation, Concept , Calculation and Facility, Nutrition support introduction, Enteral nutrition background, Enteral nutrition calculations, Parenteral Nutrition, Parenteral Nutrition calculations, Case studies

PP-22 Drug Information Services 2+1 خدمات المعلومات الدوائية

This course will provide the students with concept and scope of Drug Information Services in Health care system. The course will have preview of the process/steps involved in its approval for clinical use, by FDA. It will include sources, types and evaluation of drug information resources, searching for drug information resources to respond to the drug information requests, critical evaluation of the results, using evidence based approach with knowledge of levels of clinical evidence. Fundamentals of research including measures, reliability, validity, ethical concerns, types of various research studies and level of clinical evidence will also be reviewed in this course. The course will also cover formulation of clinical question from a given clinical scenario and responding to such question after literature search and critical appraisal of the result.

Fourth Year Sem.2

PP-14 Therapeutics-4 4+1 علاجات-5

Lectures: Pathophysiology and management of Infectious Diseases:

upper respiratory infections, pneumonia, tuberculosis, urinary tract, intra-abdominal and gastrointestinal tract infections, infective endocarditis, central nervous system sexually transmitted diseases, acquired immunodeficiency syndrome (AIDS), mycotic infections, surgical antibiotic prophylaxis, bacteremia and sepsis, skin and soft tissue infections, immunization therapy

Supportive/palliative care therapy in cancer patients, chronic leukemias, Lymphomas, Lungs cancer, Prostate cancer, Breast cancer, Liver tumours,

Management of Burn patients, Issues in Pediatrics/ neonates and Geriatric drug therapy.

Practical: Clinical case studies, Case-Assisted Student Centered Learning (CASCL), case presentation followed by case discussion and **presentation in SOAP format**. The students will be required to maintain case histories log book. Students will visit hospital for minimum of 6 hours during the course to interact with other health professionals in relation to clinical case selection, discussion, presentation and reflection in an interprofessional environment.

PP-19 Pharmacy Management 2+0 إدارة صيدلية

This course introduces basic concepts of; Principles and methods of pharmacy management in all pharmacy practice, Fundamentals of human resource management, Leadership development, Project management, financial accounting, Managerial accounting, Finance management approaches, Skills, styles, organizational principles, Behavior and forms, Personal, purchasing and inventory control, Pricing, professional fees, pharmacy services and patronage, Concepts, tools, techniques and application of marketing in the health care and health insurance plan.

PP- Pharm D seminar 0+1 حلقة نقاش 20

This course will prepare students for presentation in journal club as well as for other assigned topics from didactics, to train the students for effective scientific presentation and scientific communication through response to the questions. The course will include ; Introduction to Scientific Peer reviewed Journal, Critical Steps in the selection of the research article, discussion on the topic, material methods, result, conclusion, and students' comment. The use of multimedia, slides, overheads, handouts and other visual aids as well as methods of answering questions from the audience will also be discussed in this course.

Presentation:

Every student will select or will be assigned, a relevant topic to Pharmacy Practice and present it to cover the scope of topic followed by discussion and answering the questions.

PS-18 Clinical Toxicology 2+0 علم السموم التطبيقي

Lectures: Definitions, toxicodynamics, toxicokinetics, toxic responses, target organ toxicity, carcinogenicity, mutagenicity, teratogenicity, Management of poisoned patient: decontamination, supportive care, antidotes, Clinical toxicology of drugs: digoxin, aminophylline, beta blockers, calcium channel blockers, anticoagulants, benzodiazepines, antidepressants, antipsychotics, opioids, NSAIDs, Antidiabetic agents, Clinical toxicology of air pollutants, solvents: alcohols, insecticides,

herbicides and pesticides, , Toxicology of heavy metals.

PP-21 Self Care and Non Prescription Drugs العناية الذاتية والأدوية اللاوصفية
2+0

Lectures: Use of evidence-based approach to establish the safety and effectiveness of self-care options for particular disorders and pharmacist's role in self-medication. Home diagnostic devices. A study of products used by the self-medicating public, including material on the symptoms for which patients seek self-treatment, evaluation and selection of products used to treat them, aspects of patient counseling on the safe and effective use of products and various legal considerations relating to this class of drugs.

PP-23 Pharmacoepidemiology 1+0 علم وبائيات الدواء

Lecture: Pharmacoepidemiology and Its Importance in Pharmacy Practice, Principles of epidemiology applied to the study of drug use evaluation, Medication Safety Pharmacovigilance (Use of pharmacoepidemiology to study beneficial drug effects, Use of pharmacoepidemiology to study adverse drug effects), Continual Monitoring for Unwanted Drug Effects (Post-marketing surveillance), Applications in Pharmacy Practice, Medication Adherence, Statistics in Pharmacoepias, International Perspective (global drug surveillance),

Fourth Year Sem.2: Electives

BMS-13 Pharmaceutical Biotechnology علم التكنولوجيا الحيوية الصيدلانية
2+0

Lecture: In this course the students will be introduced to pharmaceutical aspects of biotechnology. The topics covered in the course include signal transduction, transcription factors, applied enzymology, introduction to proteomics, gene manipulation and recombinant DNA technology to produce recombinant proteins, various expression systems, introduction to tissue culture, applications of recombinant DNA in the pharmaceutical fields, web resources for biotechnology, formulation of biotech products including biopharmaceutical considerations, gene therapy, DNA vaccines, biotechnology and drug discovery, the pharmacist's role in biotechnology and dispensing biotechnology products.

The students will be given practical assignments in addition to written examinations.

PP-24 Advance Pharmacogenomics علم الادوية الجينومي المتقدم
3+0

Lecture: This course is designed to introduce the students to role of genetics in drug responses. The genetic basis of variability in drug response can contribute to drug efficacy and toxicity, adverse drug reactions and drug-drug interactions The students will learn about genomic variation among humans, web resources for bioinformatics, applications of genomics in human health and complex disease, pharmacogenomics of drug metabolizing enzymes, pharmacogenomics of drug transporting proteins and drug receptors, pharmaco-genetics of drug metabolism and its clinical applications, pharmacogenomics of drug interactions and their adverse effects, cancer pharmacogenomics and pharmacogenomics in drug discovery and drug development..

Fifth Year

Advanced Pharmacy Practice Experience: 40 weeks

Professional Competencies to be achieved at the end of Advanced Pharmacy Practice Experience

Competency -1:	Disease State Knowledge
Competency -2	Drug therapy planning and evaluation
Competency -3	Monitoring for endpoints
Competency -4	Patient case presentations, written, oral
Competency -5	Patient interviews, education and counseling
Competency -6	Drug information
Competency -7	Professionalism: team interaction, motivation
Competency- 8	Institutional pharmacy operations drug, distribution systems, medication administration

PP-21 **Advanced Pharmacy Practice Experience 0+35** **40 weeks**

During the Advanced Pharmacy Practice Experience (clerkship), student will be involved in the provision of advanced clinical pharmacy services in various medical sub-specialty environments. The student will have experience of responsibilities (under direct supervision of preceptor) of:

- **Professional communication and collaboration** with patients and health care providers, while working in **Institutional** Pharmacies as well as in the clinical departments
- **Patient care** including therapeutic decision making by selecting appropriate drug therapy and monitoring that therapy. Students will be actively involved in the areas of: management of disease state, medication therapy management, patients' monitoring, care-planning and follow up, patients chart review including the patients' lab data, medication history, drug information and discharge medication counseling, in an interprofessional environment
- **Organizational and Professional** skills required to work in community as well as institutional pharmacy set up.

Student will have to complete total 10 rotations, 4 weeks each; 5 compulsory and 5 of his own choice from the following list B:

- A. Core:** Internal Medicine, Ambulatory Care, Institutional Pharmacy, and Community Pharmacy, Critical Care
- B. Elective:** 1. Cardiology & CCU 2. Intensive and Critical Care, 3. Surgery, 4. Nephrology, 5. Oncology and hematology, 6. Infectious Diseases 7. Anticoagulant Clinic/Clinical Pharmacokinetics 9. Nutritional Support 8. Emergency medicine 10. Endocrinology, 11. Pulmonary Medicine, 12. Psychiatry,

PP-21/M **APPE-1 Internal Medicine 40 Hours**

الطب الباطني

This rotation will prepare the student with knowledge base and problem solving skills relating to the drug therapy management of patients in internal medicine with pharmaceutical care perspective

PP-21/IPP	APPE-2	التدريب على الممارسة الصيدلانية السريرية المؤسسية
	Institutional Pharmacy Practice:	40
	hours/week	

This rotation will expose students to the practice of institutional pharmacy, its organization , operation and management , preparation, storage and supply of various medications, the role of pharmacists in professional decision making, (P&T committee) and how the pharmacist and staff supports the well-being of the patient

PP-21/AC	APPE-3:	الرعاية الاسعافية
	Ambulatory Care	40 h/week

This rotation will prepare the student with knowledge and skills for solving patients' problem relating to the therapeutic management of common disease states in an ambulatory pharmaceutical care setting. Student will work as full time trainee in the Pharmaceutical Care Clinic of a hospital providing patient counseling, pharmaceutical care and drug therapy monitoring to out patients.

PP-21/C.ICU	APPE-4: Cardiology & Intensive	علم أمراض القلب والعناية المركزة لأمراض القلب
	Cardiology Care	40H/week

This rotation is to prepare the student with knowledge and skills for solving patients' problem relating to the therapeutic management of patients with cardiovascular diseases like Ischemic Heart Disease: Angina and Acute Coronary Syndrome Essential hypertension, hypertensive urgencies and emergency Ventricular and atrial arrhythmias Congestive Heart Failure/Cardiomyopathy Cardiogenic Shock Endocarditis Hyperlipidemia Anticoagulation, Cerebrovascular diseases , while working with a team of experts both in ambulatory and ICC environment

PP-21/P	APPE-5:	طب الأطفال
		40H/week

This rotation will provide the student the opportunity to develop skills in dealing with direct patient care needs of pediatric population with special attention to dosage schedules. Student will participate in therapeutic decision making process by drug therapy management and its monitoring, with a patient specific medication counseling to parents and health professionals

PP-21/CC.ICU	APPE-6: Critical Care	العناية المركزة
		40 hours/week

This rotation will provide the student the opportunity to develop skills for dealing with critically ill patients, under the supervision of team of multidisciplinary health care experts in an ICU environment. Main areas covered will be Fluid electrolyte balance, cardiovascular hemodynamics, therapeutic drug monitoring for critically ill patients TPN, glycemic control, prevention of stress ulcers, DVT, ventilator associated pneumonia, sepsis etc

PP-21/H&O	APPE-7: Hematology/Oncology	أمراض الدم والأورام
		40H/week

The rotation will provide the student with the opportunity to develop skills in drug therapy management of hematology/oncology patients, like breast lung gastric and colonic cancer, leukemias and lymphomas in relation to supportive, palliative and curative therapy.

PP-21/N APPE-8:Nephrology 40 H/weeks أمراض الكلى

This rotation will provide the student with an opportunity to develop his/her skills in drug therapy management of Acute and Chronic Renal Failure along with co-existing morbidities, like hypertension and diabetes mellitus , being an active member of team of health professionals, taking part in therapeutic decision making, its application and monitoring.

PP-21/ID APPE-9: Infectious Diseases 40 H/week الأمراض المعدية

This rotation will provide an opportunity to the student to equip with a knowledge base and problem solving skills relating to drug therapy management of infectious diseases with a pharmaceutical care perspective. Student will work with experts team of health professionals in this area and also in an antimicrobial management program.

PP-21/EM APPE-10 Emergency Medicine 40 H/week طب الطوارئ

This rotation will provide the student with a knowledge base and problem solving skills relating to the provision of emergency medical care by exposing him to an experience with the EMS System, with a team of health care professionals

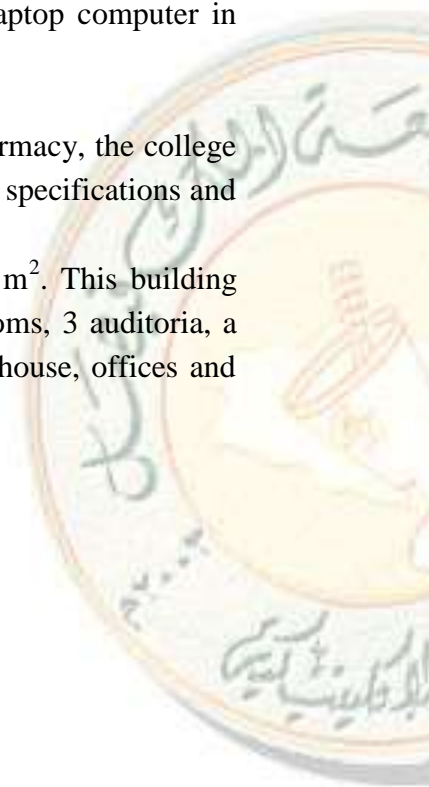
3.6 Facilities at the College

In order to provide the encouraging scientific learning environment and to achieve the highest quality of standards, we have done following things:

- Seven spacious Classrooms are equipped with various means of advanced education, and designated to increase comprehension and understanding.
- Four Student labs and special research laboratory designed and equipped with state of the art modern equipment.
- College library for faculty members and students contains more than 250 books and CD programs, in addition to subscription to more than 12 scientific journals.
- Drug Museum
- Computer lab.
- Restrooms in male and female sections.
- Meeting room.
- Electronic display screens to view College's events in male and female sections.
- The college has provided desktop computers to all faculty members and administrative staff. The faculty members are provided with a Laptop computer in addition to a desktop computer.

Based on the recognition of the importance of the College of Clinical Pharmacy, the college got an approval to build a temporary building that follows the international specifications and standards.

The project of the temporary building occupies an area of about 17110 m². This building includes 21 laboratories for the different college departments, 22 classrooms, 3 auditoria, a central library and a computer laboratory in addition to a typical animal house, offices and administrative and technical rooms





Class Rooms



Laboratories



College Museum



Computer Lab



Cafeteria in male sections



Meeting Room



Staff Room



College Corridor



4. About Departments

4.1 Dept. of Pharmaceutical Sciences

Mission:

The mission of the Department is to excel in Pharmaceutical Sciences' **education** and **research** through collaboration with other departments and programs (IPE), to prepare **life-long learners** (students) having basic and applied knowledge required for **discovery, development, and rational use of pharmaceutical agents** (all courses) for **prevention and treatment of diseases** (patient care)

Goals & Objectives:

- Provide challenging and quality course work in Pharmaceutical Sciences to prepare life long learners
 - Develop integrated courses: ILO', blue printing, course plan with s
 - Apply students centered learning: Case based teaching
 - Library assignments and projects
 - Assessments: case based, assessing higher learning
 - Initiate proposal for PG courses
- Recommend, recruit, develop and retain experienced faculty
 - Assist recruitment committee
 - Support Faculty development program:
 - Departmental staff development program
 - COCP and University Level programs
 - National and International
 - Provide excellent Administrative and collegial environment
 - Orientation of new faculty
 - Meetings SOPs
 - Facilities for students and staff
 - Social gatherings
- Collaborate with other Departments and programs for IPE and Research
 - IPE
 - Research
- Contribute to COCP and KFU mission in teaching, research and Community Engagement
 - Research targets:
 - KFU research grant target
 - National (KACST)
 - International
 - Students research
- 4.2 Community Engagement
 - Community research: through students



- Service learning in different courses
- Community Service:
 - Educate/assist Community/Hospital pharmacists through Lectures

Both didactic and experiential teaching strategies are adopted by our faculty members, including class room teaching using multimedia support, small group discussions, laboratory experiments, tutorial sessions and use of online support through Web CT. Our academic staff models the values, ethics, and attitudes of the profession for undergraduates and is dedicated to helping each student achieve his or her career objectives in the pharmaceutical sciences.

The department is actively involved in research and currently has funding from University as well as from KACST to support number of ongoing research projects.

Various new academic projects are in the pipeline including postgraduate degree program in pharmaceutical sciences.

Serial	Course Code	Course No.	Subject	Units	Contact hours
1	PS-1	2010111	Fundamentals of Pharmaceutics	(2 + 1)	5
2	PS-2	2010112	Pharmaceutical Chemistry-1 Organic	(3+ 1)	6
3	PS-3	2010121	Physical Pharmacy	(2 + 1)	5
4	PS-4	2010122	Pharmaceutical Chemistry Analytical	(2 + 1)	5
5	PS-5	2010123	Pharmaceutical Chemistry-2 Organic	(3 + 0)	3
6	PS-6	2010124	Pharmacology-1	(2 + 0)	2
7	PS-7	2010211	Pharmacology-2	(2 + 1)	5
8	PS-8	2010212	Medicinal Chemistry-1	(3 + 0)	3
9	PS-9	2010213	Pharmacognosy	(2 + 1)	5
10	PS-10	2010221	Pharmacology-3	(3 + 0)	3
11	PS-11	2010222	Medicinal Chemistry-2	(3 + 0)	3
12	PS-12	2010223	Pharmaceutical Dosage Forms.	(2 + 1)	5
13	PS-13	2010311	Pharmacology-4	(3 + 0)	3
14	PS-14	2010312	Pharmaceutical Delivery System	(2+0)	2
15	PS-15	2010313	Medicinal Chemistry-3	(2 + 0)	3
16	PS-16	2010314	Biopharmaceutics	(2 + 1)	5
17	PS-17	2010321	Natural Products & Herbal Medicine	(2 + 0)	2
18	PS-18	2010421	Clinical Toxicology	(3 + 0)	3
19	PS-19	2010322	Industrial Pharmacy (elective)	(2+0)	2
20	PS-20	2010323	Principles of Drug Design (elective)	(2+0)	2
Total credit hours				56(48+8)	72

4.1.1 Head of the Department



Bandar E. Al-Dhubiab

Nationality: Saudi
 General Specialty: Pharmacokinetics
 Academic Rank: Assistant Professor
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Dr. Bandar E. Al-Dhubiab has completed his graduation from King Saud University, KSA and Doctorate from University of Arizona, Arizona, USA. He is actively engaged in teaching and research in Pharmaceutics and Pharmacokinetics of drugs. His main areas of interests include pharmaceutics and pharmacokinetics. He is presently heading Department of Pharmaceutical Sciences at College of Clinical Pharmacy, KFU. His main areas of interests include Analysis of Pharmaceutical Compounds, Dissolution studies of some generic drugs and Development of new analytical methods using HPLC. He has many publications in many national and international journals. He has also presented many papers in national and international conferences. Currently, he is actively engaged in the process of NCAAA accreditation for the Pharm D programme at College of Clinical Pharmacy, King Faisal University, Saudi Arabia.

4.1.2 Staff of the Department



Dr. Mahesh Attimarad

Nationality	: Indian
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Dr. Mahesh Attimarad is graduated from Al-Ameen College of Pharmacy and completed his doctorate in Pharmaceutical and Analytical Chemistry at Rajiv Gandhi University of Health Sciences, Bangalore, India. He teaches text and practical based courses including: Pharmaceutical Organic Chemistry, Pharmaceutical Analytical chemistry and Medicinal Chemistry at College of Clinical Pharmacy, KFU. He is actively involved in the research and received few research grants from KFU. His major research interests include Development of new analytical methods for drug molecules for estimation in pharmaceutical formulations and body fluids (blood and urine), Microwave assisted synthesis of organic compounds, and Design and synthesis of NSAIDs and Screening for anti-inflammatory and analgesic activities. He has many national and international publications in peer reviewed journals to

his credit and serves on the editorial board of several international journals.



Dr. Sree Harsha

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Dr. Sree Harsha received his Master of Pharmacy Degree (ranked top 5) and subsequently earned a doctorate in Pharmaceutics from Rajiv Gandhi University of Health Sciences, Bangalore, India in 2006. He came to King Faisal University in 2007 as an assistant professor in the Department of Pharmaceutical Sciences, bringing with him several years' worth of teaching experience in fundamentals of pharmaceutics and drug delivery systems. His primary area of focus is pharmaceutical technology and novel/targeted drug delivery systems. For this research he received grants from Deanship of Scientific research, King Faisal University. The author contributed so far to 14 peer-reviewed full papers on a variety of topics in lung targeting, topical drug delivery, and mucoadhesive drug delivery systems. He has contributed in writing a book chapter titled "Targeted Drug Delivery System" and "Microspheres" in Textbook of Industrial Pharmacy, Publisher-Orient Longman Private Ltd. In addition he is an Ad-Hoc reviewer for scientific journals (International Journal of Pharmaceutics, The Journal of Pharmaceutical Innovation, Journal of Microencapsulation Drug Design, Development and Therapy, International Journal of Nanomedicine, Journal of Medicinal Plants Research, The African Journal of Food Sciences, The Archives of Pharmaceutical Sciences and Research). He has attended many seminars and Workshop both national and international on Pharmaceutical Technology and Public health issues. Dr. Sree Harsha has attained local and international professional affiliations.



Dr. Mueen A. Khaleel

Nationality: Indian
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Dr. Mueen Ahmed Khaleel completed graduation and post graduation from Al-Ameen College of Pharmacy, and Doctorate from Dr. HS Gour University, India in the specialization of pharmacognosy. His major research interest has been screening of natural products for pharmacological activity with special emphasis on cardiovascular activity. His research group is presently involved in HPTLC/HPLC fingerprinting of natural products and phytopharmacological evaluation of standardized extracts. More recently his interest shifted towards the role on identifying the progenitor cells of potential benefits in vascular system in

general. His is a group which has started studying to evolve strategies to identify, plant extracts and mobilize progenitor cells from bone marrow or peripheral circulation, as the potential of these cells in vascular biology or in tissue repair process and in general well being is immense and is yet unexplored.



Dr. Promise Madu Emeka

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Dr. Promise Madu Emeka graduated from University of Ibadan, Nigeria for his first degree. He did his postgraduate in pharmacology and graduated with MSc from the University of Lagos Nigeria where he later obtained his Doctorate in pharmacology. Currently, he is involved in teaching Pharmacology in College of Clinical Pharmacy, KFU. His major research interest has been pharmacological and toxicological evaluation of drug and drug products. His research group is presently involved in HPTLC/HPLC fingerprinting of natural products and phyto-pharmacological evaluation of standardized extracts. More recently his interest shifted towards the role on identifying the progenitor cells of potential benefits in vascular system in general. His is a group which has started studying to evolve strategies to identify, plant extracts and mobilize progenitor cells from bone marrow or peripheral circulation, as the potential of these cells in vascular biology or in tissue repair process and in general well being is immense and is yet unexplored. He has published many national and international publications in reputed journals.



Dr. Ibrahim A. Alhaider

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Dr. Ibrahim A. Alhaider, Dean, College of Clinical Pharmacy Since 2010, he has completed his graduation from King Saud University, KSA and Doctorate from University of Houston, Houston, USA. He is actively engaged in teaching and research in Pharmacological action of drugs. His main areas of interests include CNS pharmacology. He has completed many projects such as Antidepressants, Sultan Bin Abdulaziz Humanitarian City, Riyadh in 2003,

Role of Polyethylene Glycol 3350 in Gastrointestinal Tract, Sultan Bin Abdulaziz Humanitarian City, Riyadh. 2003, Chronic caffeine treatment prevents sleep deprivation-induced impairment of cognitive function and synaptic plasticity. University of Houston, Houston, USA. 2010. Etc. He has many publications in many national and international journals. He has also presented many papers in national and international conferences. Currently, he is actively engaged in the process of NCAAA accreditation for the Pharm D programme at College of Clinical Pharmacy, King Faisal University, Saudi Arabia. Apart from this, he is also working actively on strategic planning for five years. Dr. Ibrahim has played a major role in revising and upgrading curriculum of Pharm. D programme conducted at college and benchmarked with many American universities.



Dr. Noor Kamil

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Dr N Kamil is a graduate of Faculty of Pharmacy, University of Karachi and he secured his PhD in Pharmacology from the same institute and University in Pakistan. Recently he is affiliated with King Faisal University, College of Clinical Pharmacy and involved in the teaching of Pharmacology and Toxicology. Dr Kamil has a keen interest in the neuropsychopharmacology of Antipsychotic drugs in special and other neuroactive drugs in general. He is also interested in dermatological toxicities of various cytotoxic drugs like the antineoplastics and published his work in the various scientific journals.



Dr. Mohamed A. Morsy

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Dr. Mohamed A. Morsy holds a bachelor in Pharmaceutical Sciences, PhD in Pharmacology and Diploma in Clinical Pharmacy. He spent more than 20 years in teaching Pharmacology to Medical, Pharmacy, Dental and Nursing under- and postgraduates. He contributed in writing a chapter in an international book about peptic ulcer disease. He has about 20 national and international publications in the field of Pharmacology. He is a reviewer in many international journals e.g. European Journal of Pharmacology, Pharmacy and Pharmacology, and Clinical and Experimental Pharmacology and Physiology. He supervised 8 master and

PhD theses. In addition to a 4-year PhD scholarship in Japan, he was awarded a grant to initiate joint research for screening for inducers of molecular chaperone in Sojo University, Japan. His major research interest is hepato-, gastro-, and nephro-protective agents. He shared in many national and international conferences. He is a membership in many professional organizations like American Society for Pharmacology and Experimental Therapeutics.



Dr. Anroop B. Nair

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Dr. Anroop Nair has received his Bachelor of Pharmacy from MGR Medical University, Chennai, Master of Pharmacy in 1998 from BIT, Mesra, Ranchi and PhD in Pharmaceutics from Jadavpur University, Kolkata, India. He has done his postdoctoral fellowship in noninvasive drug delivery in the Department of Pharmaceutics of University of Mississippi, USA. Currently, he is engaged in teaching the pharmaceutics subjects for undergraduate students in the College of Clinical Pharmacy, KFU. He has thirteen years of experience in teaching the undergraduate and Master's students. Dr. Nair's core research interests revolve around the solubility/permeability dogma (with biopharmaceutics classification system as the central theme) in the design and delivery of drug molecules for optimum therapeutic effect. He has a multidisciplinary research background with more than a decade of research experience in drug delivery systems and expertise in the field of novel preclinical drug delivery approaches, trans-ungual drug delivery, topical & transdermal drug delivery, pharmacokinetic studies, dermatokinetic studies, nano formulation and drug delivery, *in vivo* animal studies, oral controlled drug delivery, targeted drug delivery, preformulation studies, protocol development, analytical development etc. Presently, Dr. Nair is working on various drug delivery projects with the objective of improving the treatment methods of diseases and replace all invasive and painful techniques with the most patient acceptable non invasive techniques. The major research project which he has executed during his post doctoral fellow has successfully completed the phase I clinical trials. His constant efforts in research have enhanced the comprehension on the development of novel drug delivery systems in general and in specific the transdermal and trans-ungual drug delivery. He has effectively completed two research grants and has guided twenty five Master level projects. He has more than 100 research findings which are published in peer reviewed journals or presented in conferences. In addition, he is an active member of several pharmaceutical councils/forums, and reviewer for several peer reviewed journals.



Dr. Ra'ed S. Khashan

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Raed Khashan started his bachelor of science degree at the College of Pharmacy in Jordan University in 1994. In his third year, he got interested in Computer-Aided Drug Design and therefore decided to get a bachelor of science degree in Computer Science as well. Therefore, he obtained a double major in Pharmacy and Computer Science in 1999, and 2000, respectively. Then he joined Dr. Pearlman's group in University of Texas at Austin for a master degree, followed by a doctorate degree in Dr. Tropsha's group at University of North Carolina at Chapel Hill. He has been working on applying subgraph mining technique to develop Cheminformatics tools, such as ligand/structure-based drug design techniques, as well as Bioinformatics tools, such as protein-protein interaction.



Dr. Tamer Mohamed Shehata

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Dr. Tamer graduated from Faculty of Pharmacy Zagazig University Egypt, MSc. in Pharmaceutics from Zagazig University in 2004. In March 2009, Dr. Tamer received his PhD. from Faculty of Pharmacy Okayama University Japan. He is a staff member in department of Pharmaceutics and Industrial Pharmacy Faculty of Pharmacy Zagazig University until now. Since June 2012, he joined College of Clinical Pharmacy, KFU as Assistant Professor. Dr. Tamer's research lies in the area of formulation and evaluation of different pharmaceutical dosage forms such as tablet, suppositories, creams, ointments, gels and microspheres. More recently his interest shifted towards the development of nano-drug delivery systems, characterization, *invitro* and *invivo* evaluation. In brief, he focused on development of polymeric coated nanocarriers for anticancer drugs, specifically using surface modified liposomes and niosomes. He had a good experience in animal handling for measuring pharmacokinetics, biodistribution and drug efficacy by HPLC and radioactive labeling. In addition he is utilizing cancer cell lines and tumor inoculated animals in order to evaluate toxicity profile studies of nanoparticulate loaded with anticancer drugs. Dr. Tamer

Dr. Sabah H. Akrawi, B.Pharm, PhD. was graduated from the College of Pharmacy, University of Kentucky, USA, specialized in Clinical Pharmacokinetics and Biopharmaceutics. He teaches under and post graduate Pharmacy students the courses of Clinical Pharmacokinetics, Pharmacokinetics, Biopharmaceutics, Metabolism, Physical Pharmacy and Applied Therapeutics, and he supervised more than 17 graduate students in the area of Biopharmaceutics, Drug-Drug Interaction, Bioavailability studies. He worked as a principal investigator for many Bioequivalence studies. His Research activities included the determination and evaluation of serum drug concentration to detect its relationship of the pharmacokinetic parameters to the therapeutic effects and pharmaceutical dosage form. Moreover, performed and validated drug analytical method.

For instance; the evaluation and interpretation of the pharmacokinetic parameters of drugs (AUC, Clearance, $T_{1/2}$, K_e , K_m , C_{max} , T_{max} , V_d ...etc.); Pharmacokinetic/ Pharmacodynamic relationship. Drugs under investigations required studies to determine their disposition, stereoselective disposition, through renal or metabolic route of elimination in addition to its absorption and distribution in various body tissues; dose and dosing rate can be specified after treating the data with statistical programs to determine if it is significant or not; effect of Drug-Drug and Drug-Food interaction on the disposition and its effect on pharmacokinetic parameters; bioavailability and bioequivalence studies include three parts the clinical, analytical and data statistical analysis; using micro sampling technique and the chronic intra hepatic infusion of drugs in unrestrained animals to predict the drug disposition and concentration profile. Moreover, he published several articles in national and international scientific journals, established two bioequivalence studies centers, and he performed several bioequivalence studies for different drug molecules as a principal investigator and head of the analytical laboratory, provided to different drug companies.



Dr. Hany Ezzat Khalil Ahmed

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He is an assistant professor of pharmacognosy. He got his Ph.D., in Pharmaceutical Sciences (Pharmacognosy) Faculty of Pharmacy, Hiroshima University, Japan; Minia University, Egypt, under the title of "Phytochemical and Biological Studies of *Montanoa bipinnatifida*, Family Asteraceae, Cultivated in Egypt". He has gained an experience in a wide range of isolation of naturally occurring compounds from plants using normal and advanced tools of chromatography as well as interpretation of the isolated compounds during his Ph.D. studies in Hiroshima University in Japan. In addition, He has gained an experience in biological investigation of the identified compounds and the extracts such as; antihyperglycemic, antioxidant, gastroprotective actions, DPPH assay, Multi drug resistance assay, A549 cytotoxicity assay, anti-leishmanial assay and routine antimicrobial activities. His main interest is discovery of novel biologically active compounds that could be used to develop

new therapeutic medical agents. He has supervised for 4 master students, Faculty of Pharmacy, Minia University, Minia, Egypt. He has published many papers in national and international journals.

As a part of his administrative responsibilities, he was the assistant manager of the CIQAP (continuous improvement for quality assurance and accreditation project) of the faculty. He was also a board member of a special Pharmaceutical and Herbal Products, Crisis management and Quality assurance units as well as the executive manager of portal in the Faculty of Pharmacy, Minia University, Minia, Egypt.



Dr. Christophe Tratrat

Nationality	: French
Educational Qualification	: Doctorate, Post-Doc
General Specialty	: Organic/Medicinal Chemistry
Academic Rank	: Assistant Professor
Tel: / Ext	:
Mobile	: +966-547208319
E-Mail	: c_tratrat@yahoo.fr

Dr. Christophe Tratrat received his Magistère Inter-Universitaire de Chimie in 1996 from the Ecole Normale Supérieure/Université Pierre et Marie Curie of Paris and his Doctorate in Organic/Medicinal Chemistry in 1999 from the Faculty of Pharmaceutical and Biological Sciences in Paris, working in the group of Professor Henri-Philippe Husson on the synthesis of pharmacologically active heterocyclic compounds. Patents in the discovery of synthetic compounds as promising anti-cancer agents were registered after his thesis completion. After nearly two years as Research Associate in the laboratory of Professor Anthony G.M. Barrett at Imperial College in London devoted to solid-phase methodology for the generation of diverse libraries of natural-product-like molecules, Dr. Christophe joined the group of Professor Yves Troin at Ecole Nationale Supérieure de Chimie de Clermont-Ferrand, where he was involved in efforts toward the asymmetric synthesis of quinolizidine and indolizidine natural products. He held the position of Assistant Professor of Chemistry at Notre Dame University in Lebanon from 2004 to 2010. He was then appointed as Assistant Professor to the Faculty of Pharmacy at Umm Al-Qura University, and recently to the Faculty of Clinical Pharmacy at King Faisal University in Saudi Arabia. His research interests include synthetic methodology, heterocyclic chemistry, asymmetric synthesis, solid-phase synthesis for combinatorial chemistry and medicinal chemistry in drug discovery in the field of cancer. Dr. Christophe has strong experience in multi-step organic syntheses at the forefront of the discovery of active compounds. He is familiar with the planning of synthetic routes, the execution of reactions in solution and in solid phase, and current methods of isolation and characterization of products. He has excellent training in modern spectroscopic and analytic techniques especially in Nuclear Magnetic Resonance, IR and GC/MS.



Dr. Wail Soliman

Nationality	: Canadian
Educational Qualification	: PhD
General Specialty	: Pharmaceutical Chemistry
Academic Rank	: Asst. Professor

Dr. Wael Soliman received his B.SC in Pharmaceutical Sciences from Cairo University in 1999, M.SC in Medicinal Chemistry in 2004 from Cairo University as well, the research was focused in synthesis of cyclohexane analogues of anticipated anticonvulsant and analgesic activities. He got his PhD in Medicinal Chemistry in 2011 from Faculty of Pharmacy and Pharmaceutical Sciences, University of Alberta, Canada. The research involves the study of peptides interactions with various substrates among class II bacteriocins using both synthetic and novel computational approaches. Dr. Wael's research interests are synthetic organic chemistry, molecular dynamics simulations and molecular modelling in addition to studying biological and microbiological activities of peptides. His research resulted in number of peer-reviewed papers in prestigious journals and number of abstracts and presentations.



Dr. Maged El-Sayed Mohamed

Nationality	: Egyptian
Educational Qualification	: PhD
General Specialty	: Pharmacognosy
Academic Rank	: Assistant Professor
Tel: / Ext	: +966-3-5898970
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Dr Maged El-Sayed Mohamed has received his PhD degree from the school of Biological Sciences, University of Bristol, United Kingdom in 2009 in plant molecular biology and biotechnology and their applications in the field of medicinal plants and pharmaceuticals. Since his PhD, Dr Mohamed has been engaged in teaching Pharmacognosy, natural products chemistry, plant molecular biology and related subjects. The main research area for Dr Mohamed is natural products, how to produce them in nature or and using molecular biology and genetic engineering techniques; pathways for production natural products; methods for isolation, identification and chemical structure elucidation of natural products. One of the main research areas Dr Mohamed works in is the area of plant volatile and essential oils. Dr Mohamed attended many scientific conferences and has many publications nationally and internationally. Dr Mohamed is a member of many societies such as phytochemical society of Europe and American society of pharmacognosy. Dr Mohamed has more than 5 year experience in quality control, assurance and management in higher education. He had many workshops as a trainee and a trainer and performed many peer

reviewing visits in Zagzig University, Egypt. He was the vice-manager of the quality management unit in the faculty of Pharmacy, Zagazig University, Egypt for 3 years.



Dr. Venugopala Gowda

Nationality	: Indian
Educational Qualification	: PhD
General Specialty	: Pharmaceutical Chemistry
Academic Rank	: Asst. Professor

Dr. Katharigatta Narayanaswamy Venugopala is graduated in Pharmacy with first class from Bangalore University, completed M.Pharm (Pharmaceutical Chemistry) from Rajiv Gandhi University of Health Sciences, Bangalore with II rank and obtained Ph.D (Pharmaceutical Chemistry) from Rajiv Gandhi University of Health Sciences, Bangalore with international peer reviewed publications. Dr Venugopala has worked as research associate at Department of Solid State and Structural Chemistry Unit, Indian Institute of Science, Bangalore on crystallography and done his postdoctoral fellowship at University of KwaZulu-Natal, South Africa on synthesis of natural cyclic depsi-peptide analogues as anti-TB agents. He also worked as NRF Innovation postdoctoral research scholar at Durban University of Technology on Identification of heterocyclic lead compounds for antitubercular activity against MDR and XDR strains.

Dr Venugopala got 13 years of teaching experience at undergraduate and postgraduate level, supervised and co-supervised B.Tech (Hons), M.Pharm and M.Tech research projects and presented over 25 research papers at national and international conferences and published over 65 research papers in national and international journals. He was involved in multidisciplinary research projects and worked with universities such as Universidad Nacional de Córdoba, Argentina, Université de Rennes, France, Indian Institute of Science Education and Research, India, Istituto Italiano di Tecnologia, Italy and University of Barcelona, Spain. His research area is on design and synthesis of heterocyclic/cyclic depsi-peptide compounds for analgesic, anti-inflammatory, antioxidant, anti-TB, anti-HIV and antimosquito activity.

Dr. Arshia Shariff

Nationality	: Indian
Educational Qualification	: M. Pharm., Ph. D
General Specialty	: Pharmaceutics
Academic Rank	: Assistant Professor
Tel: / Ext	: +966-3-5800354
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Dr. Arshia Shariff completed her post graduation from Al-Ameen College of Pharmacy, India and Doctorate from Annamalai University, India in the specialization of Pharmaceutical Technology. Currently, she is involved in teaching Pharmaceutics and Biopharmaceutics in

College of Clinical Pharmacy, KFU. Her major research interest has been in development of Novel Drug Delivery systems for actives of natural origin and their characterization. Her research group is presently involved in identification and in *in vitro* characterization of formulation excipients from Plant origin. In this regard, she has many publications in journals of national and international repute. Her M. Pharm students have also worked under her guidance on Quality Assurance systems in pharma manufacturing including manufacturing process validations and Quality Risk Management. Presently, her research interest also lies in application of biostatistics in clinical research using SAS and SPSS softwares.

Dr. Nashwa H. Zaher

Nationality: Egyptian

Medicinal Chemistry :General Specialty

Academic Rank: Assistant Professor

Email: nzaher@kfu.edu.sa

Dr. Naswa Zaher completed her post graduation from Ain shams university, Egypt and Doctorate from Cairo University, Egypt in the specialization of Medicinal Chemistry. Currently, she is involved in teaching Medicinal Chemistry in College of Clinical Pharmacy, KFU. Her major research interest has been in atomic energy. In this regard, she has many publications in journals of national and international repute.

Dr. Michelyne Haroun

Nationality	: French
Educational Qualification	: Doctorate
General Specialty	: Organic/Medicinal Chemistry
Academic Rank	: Assistant Professor
Tel: / Ext	:
Mobile	: +966-550909890
E-Mail	: michelineharoun@gmail.com

Dr. Michelyne Haroun obtained her DEA in Chemistry in 1997 from Louis Pasteur University, Strasbourg, working on the synthesis of calixarenes for the complexation of heavy metals. She received her Doctorate Organic/Medicinal Chemistry in 2001 from the Faculty of Pharmaceutical and Biological Sciences, University of Paris V, where she was involved in the design, synthesis, characterization, and biological evaluation of heterocyclic compounds as anti-cancer agents. Some of the designed molecules showed potent cytotoxic activities attributable to its DNA-binding properties and its stabilization of topoisomerase-II-DNA covalent complexes properties thus providing a novel lead compound for the design of gene-targeted anticancer agents. She was appointed as Assistant Professor of chemistry from 2002 to 2009 at Notre Dame University in Lebanon. In 2009, she joined the prestigious Doctoral School of the Lebanese University in Beirut where she pursued her research activities. In 2010, she moved to the Department of Pharmaceutical Chemistry of the Faculty

of Pharmacy at Umm Al-Qura University. She presently adheres to the Department of Pharmaceutical Sciences of the Faculty of Clinical Pharmacy at King Faisal University in Saudi Arabia. Her research interests lie in the area of heterocyclic chemistry. She is currently conducting research programs in Chemistry-Biology interface, as Medicinal Chemistry is paying increasing attention to the development of methods for the synthesis of condensed heterocyclic structures. Interest in such compounds is due to the prospects of seeking new biologically active substances, particularly substances that are cytotoxic against a panel of tumor cell lines. She has acquired expertise in molecular modeling and drug design in addition to modern techniques in organic synthesis, including designing pathways, troubleshooting chemical reactions, monitoring reactions, isolation, purification, and structural identification of reaction products with modern spectroscopy techniques including NMR, MS, and IR. In addition to her academic responsibilities, Dr. Haroun is an active member of the Editorial Board of Arabian Journal of Chemistry.

Teaching Assistants

Nouf Saleh Alwadei

Job : Teaching Assistant

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Sukainah Aiyesh Aherz

Job: Teaching Assistant

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4.2 Dept. of Biomedical Sciences

Mission:

The mission of the Department is to excel in Biomedical Sciences' **education** and **research** through collaboration with other departments, programs and the community to prepare **life-long**, having basic and applied knowledge required for development of diagnostic and therapeutic strategies for **prevention and treatment of diseases**

Goals & Objectives:

- Provide challenging and quality course work in Biomedical Sciences to prepare life long learners
 - Develop integrated courses: ILO', blue printing, course plan with s
 - Apply students centered learning: Case based teaching
 - Library assignments and projects
 - Assessments: case based, assessing higher learning
 - Initiate proposal for PG courses
- Recommend, recruit, develop and retain experienced faculty
 - Assist recruitment committee
 - Support Faculty development program:
 - Departmental staff development program
 - COCP and University Level programs
 - National and International
 - Provide excellent Administrative and collegial environment
 - Orientation of new faculty
 - Meetings SOPs
 - Facilities for students and staff
 - Social gatherings
- Collaborate with other Departments and programs for IPE and Research
 - IPE
 - Research
- Contribute to COCP and KFU mission in teaching research and Community Engagement
 - Research targets:
 - KFU research grant target
 - National (KACST)
 - International
 - Students research
 - Community Engagement
 - Community research: through students
 - Service learning in different courses
 - Community Service:
 - Educate/assist Community/Hospital pharmacists through Lectures
 - Consultation services

The Department of Biomedical Sciences comprises faculty members from diverse biomedical and biological disciplines. Our mission is to train students in all aspects of biomedical sciences to prepare them become competent pharmacists and productive members of the society. Our department offers courses in Anatomy, Histology, Physiology, Pathophysiology,

Biochemistry, Microbiology, Immunology and Molecular Biology. In addition, we are dedicated to basic research in life sciences, applied biomedical research and medical education.

Serial	Course Code	Course No.	Subject	Units	Contact Hours
1	BMS-1	2020111	Physiology-1	(2+1)	5
2	BMS-2	2020112	Anatomy and Histology-1	(1+1)	4
3	BMS-3	2020113	Biochemistry-1	(2+0)	2
4	BMS-4	2020121	Physiology-2	(2+0)	2
5	BMS-5	2020122	Anatomy and Histology-2	(1+1)	4
6	BMS-6	2020123	Biochemistry-2	(2+0)	2
7	BMS-7	2020211	Pathophysiology-1	(2+0)	2
8	BMS-8	2020212	Clinical Biochemistry and Nutritional Support	(2+1)	2
9	BMS-9	2020213	Molecular Biology	(2+0)	2
10	BMS-10	2020221	Pathophysiology-2	(2+0)	2
11	BMS-11	2020222	Immunology	(2+0)	2
12	BMS-12	2020223	Microbiology	(3+1)	6
13	BMS-13 (elective)	2020421	Pharmaceutical Biotechnology	(2+0)	2
Total credit hours				31 (25+6)	43

4.2.1 Head of the Department



Dr. Sahibzada Tasleem Rasool

Nationality	: Pakistani
Educational Qualification	: MBBS, MA, Ph. D
General Specialty	: Microbiology
Academic Rank	: Assistant Professor
Tel: / Ext	: +966-3-580000-1783-243
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Dr. Sahibzada Tasleem Rasool completed his graduate degree in Medicine (MBBS) from The University of Punjab, Lahore Pakistan. He sought a career in research and teaching of Basic Medical Sciences and earned an MA in Biochemistry from University of Scranton, Pennsylvania, USA. He worked in USA for few years to return back to Pakistan as a faculty member in the department of Biochemistry at a distinguished medical school. Later he joined State Key Laboratory of Virology, Wuhan University, China and worked successfully to complete his PhD program. His research interest includes interactions between viruses and inflammatory pathways including involvement of various novel cytokines. More recently his interest shifted towards studying the cellular signal transduction pathways. He is currently the chief editor of an online open access peer reviewed journal, *i.e.* International Journal of Basic

and Clinical Research. He has published several articles in peer reviewed journals and has an h-index of 5.0. Currently he is involved in teaching Microbiology, Immunology and Molecular Biology in College of Clinical Pharmacy, KFU.

4.2.2 Staff of the Department



Dr. Muhammad Shahzad Chohan

Nationality	: Pakistani
Educational Qualification	: M.B.B.S. M. Phil
General Specialty	: Anatomy
Academic Rank	: Assistant Professor
Tel: / Ext	: +966-3-5895447
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Dr. Muhammad Shahzad Chohan completed graduation from Nishtar Medical College, Multan, Pakistan and post graduation from University of Health Sciences, Lahore, Pakistan in the specialization of Anatomy. Currently, he is involved in teaching Anatomy and Histology, Physical Assessment and First Aid in College of Clinical Pharmacy, KFU. He has highly motivated Professional experience in teaching of Gross anatomy, Histology, Embryology and Neuro Anatomy. He has excellent written and verbal communication skills. He can work well in dynamic team-oriented environment. He is aggressive to learn and work with new technologies.

His major research interest has been histological observations of herbicide in the tissues of liver, spleen and adrenal glands. Recently his interest shifted towards the observation of adverse effects of streptomycin on tissues of liver and kidney and reversal of these adverse effects by Nigella Sativa. He attended the national and international conferences, workshops and seminars. He has also published national and international publications in reputed journals.

Dr. Omar Mohafez



Nationality	: Egyptian
Educational Qualification	: M. Pharm., Ph. D
General Specialty	: Biochemistry
Academic Rank	: Assistant Professor
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Dr. Omar Mahmoud Mohamed Mohafez was graduated from Al-Azhar University, college of pharmacy, Cairo-Egypt. He got his M.Sc. from Assiut University, Egypt and doctorate from Toyama University, Japan in the specialization of biochemistry and molecular biology. He was a member of COP program in the 21st century, and a member of the Japanese Society for Biochemistry & Molecular Biology, Japan until 10/2007. Now he is a member of Egyptian Society for Biochemistry & Molecular Biology. Currently, he is involved in teaching

biochemistry and molecular biology in College of Clinical Pharmacy, KFU. His major research interests are: 1- Protein separation, purification, and Gene expression. 2- Hepatocellular carcinoma and the possibility of treatment. 3- Screening of natural and synthetic compounds for its anticancer activity. Recently his interest shifted towards the role of autophagy in the diabetes and its signal pathways. He has published many national and international publications in reputed journals.

**Ahmed Ragaa Nour Ibrahim**

Nationality: Egyptian

General Specialty: Clinical Pharmacy

Academic Rank:

E-Mail: aribrahim@kfu.edu.sa

Ahmed Ragaa Nour Ibrahim completed his Doctor of Philosophy, Hiroshima University, Higashi-Hiroshima, Japan and Master of Science, Hiroshima University, Higashi-Hiroshima, Japan and Bachelor of Science in Pharmacy, Minia University, Minia, Egypt (2002). His main subjects are Biochemistry, Clinical biochemistry, Clinical pharmacy. His Research interests are Clinical biochemistry, Pharmacoproteomics, Pharmacogenomics, Clinical immunology. He has published three papers and four Podium presentations in international conferences.

Dr. Taghreed S. Almahdi

Nationality: Egyptian

General Specialty: Microbiology

Academic Rank:: Assistant professor

E-Mail: telmahdy@kfu.edu.sa

Dr. Tagrid Said completed her graduation from Cairo University, Egypt in 1995 and Post graduation in Helwan University, Egypt in 2003 and doctorate from Helwan University, Egypt in association with Bradford University, UK. She is currently teaching Microbiology and Immunology in the college of clinical pharmacy, King Faisal University, Al-Ahsa, KSA. She has worked as Demonstrator and assistant lecturer: Faculty of Pharmacy, Helwan University and 6th October University, Egypt, Demonstrator: Dept. of Biomedical Sciences, Bradford University, UK (2006-08) and Lecturer: Faculty of Pharmacy, Helwan University, Egypt (2008-2011). She has received many grants such as Channel Scholarship for PhD fulfillment between Helwan University, Egypt and Bradford University, UK funded from the Egyptian Ministry of Higher Education from Feb. 2006 - Feb. 2008 (£ 48.000), Society of General Microbiology (SGM) travel grant for poster presentation in the 161st meeting, Edinburgh, Sept. 2007 and Fulbright postdoc fellowship for 9 months to Creighton University, Omaha, Nebraska, USA, 2010-2011 (\$ 50.000). She has published many research papers to her credit.

Dr. Asia Taha

Nationality: Indian

General Specialty: biochemistry

Academic Rank: Assistant professor

E-Mail: asiataha@kfu.edu.sa

Dr. Asia Taha completed her graduate and post graduate from University of Kashmir, India and doctorate from Jamia Millia Islamia, India. Currently, she is teaching Biochemistry in College of Clinical Pharmacy, King Faisal University, Al-Hasa. She has published many papers in national and international journals.



4.3 Dept. of Pharmacy Practice

The Department of Pharmacy Practice (PHPR) in the College of Clinical Pharmacy is the core academic department of the *Doctor of Pharmacy (Pharm. D.)* program. The department is strongly committed to train the Pharm. D. graduates to participate in *Direct Patient Care* as an effective team member in health care system as lifelong experts in therapeutic planning, intervention and rational use of medicines. This is achieved through a structured academic program and excellence in teaching with special focus on clinical training in the areas of drug information, institutional pharmacy practice training, internal medicine, critical care, ambulatory medicine, cardiology, outcomes research, infectious disease, pharmacokinetics/pharmacodynamics, managed care, emergency/ ambulatory care and community pharmacy training. The interaction with experienced faculty, departmental environment and clinical rotations build strong foundations for the professional degree students.

Mission:

The mission of the Department is to excel in **education** and **research in clinical pharmacy** through collaboration with other departments, programs and community, to prepare **life- long learners** having knowledge and skills required for evidenced based patient centered care for **prevention and treatment of diseases**. The department is also committed to improve the health of the community through provision of pharmaceutical care services to fill the gaps in patient care.

Goals & Objectives:

- 1 Provide challenging and quality course work and experiential education to prepare life-long learners
 - Develop integrated course plan: ILO', blue printing,
 - Apply students centered, service learning and Case based teaching
 - Library assignments and projects
 - Assessments: case based, assessing higher learning levels of students
- Develop, implement and continuously improve Experiential learning programs of the Department
 - Preceptors training
 - Sites development
 - Improvement of manuals
- Recommend, recruit, develop and retain experienced faculty both for didactic teaching and preception
 - Assist recruitment committee
 - Support Faculty development program:
 - Departmental staff development program
 - Preceptors training program
 - COCP and University Level programs
 - National and International
- Provide excellent Administrative and collegial environment
 - Orientation of new faculty
 - Meetings SOPs
 - Facilities for students and staff

- Social gatherings
- Collaborate with other Departments and programs for IPE and Research
 - IPE
 - Research
- Contribute to COCP and KFU mission in teaching research and Community Engagement
 - Research targets:
 - KFU research grant target
 - National (KACST)
 - International
 - Students research
 - Community Engagement
 - Provision of Pharmaceutical Care/Clinical Pharmacy Services in various health care settings of the region
 - Service learning in different courses
 - Community/practice based research
 - Community Service:
 - Educate/assist Community/Hospital pharmacists through Lectures

Serial	Course Code	Course No.	Subject	Units	Contact Hours
1	PP-1	2030111	Pharmacy Orientation	(2+0)	2
2	PP-2	2030221	Pharmaceutical Care-1	(0+1)	3
3	PP-3	2030311	Therapeutics-1	(4+1)	6
4	PP-4	2030312	Pharmaceutical Care-2	(2+1)	5
5	PP-5	2030321	Therapeutics-2	(3+1)	6
6	PP-6	2030322	Pharmaceutical Care-3	(2+0)	2
7	PP-7	2030323	Institutional Pharmacy Practice	(1+0)	1
8	PP-8	2030324	First Aid and Emergency Medicine	(0+1)	3
9	PP-9	2030325	Scientific Writing	(2+1)	5
10	PP-10	2030331	Institutional Pharmacy Practice Rotation	(0+2)	6
11	PP-11	2030411	Law and Ethics in Pharmacy Practice	(1+0)	1
12	PP-12	2030412	Therapeutics-3	(3+1)	6
13	PP-13	2030413	Therapeutics-4	(3+1)	6
14	PP-14	2030414	Evidence Based Practice	(1+0)	1
15	PP-15	2030415	Clinical Pharmacokinetics	(2+1)	5
16	PP-16	2030416	Total Parenteral Nutrition	(1+0)	1
17	PP-17	2030417	Pharmacoeconomics	(1+0)	1
18	PP-18	2030421	Therapeutics-5	(3+1)	6
19	PP-19	2030422	Pharmacy management	(2+0)	2
20	PP-20	2030423	Pharm.D. Seminar	(0+1)	3

21	PP-21	2030424	Self care and Non-prescription Drugs	(2+0)	2
22	PP-22	2030425	Drug Information Services	(2+0)	2
23	PP-23	2030426	Pharmacoepidemiology	(2+0)	2
24	PP-24	2030427	Pharmacogenomics (elective)	(2+0)	2
25	PP-25	2030431	Advanced Pharmacy Practice Experience-1	(0+5)	5
26	PP-26	2030511	Advanced Pharmacy Practice Experience-2	(0+15)	45
27	PP-27	2030521	Advanced Pharmacy Practice Experience-3	(0+15)	45
Total credit hours				88 (40+48)	184

4.3.1 Head of the Department



Dr. Yasir Ibrahim

Nationality: Sudan

Qualification: BS, MS, Pharm.D. (USA), BCPS, (AQ Infectious Diseases)

General Specialty: Clinical Pharmacy

Academic Rank: Assistant Professor

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Dr. Yasir A. Ibrahim completed his graduation from University of Baghdad, Iraq and post graduation and Pharm D. from The University of Iowa, College of Pharmacy, Clinical and Administrative Division, Iowa City, Iowa, USA. He has undertaken Critical Care Specialty Residency (ASHP Accredited) from Texas Tech University, School of Pharmacy, Amarillo, Texas, USA. Dr. Yasir is Board Certified Pharmacotherapy Specialist from Board of Pharmaceutical Specialties, Washington, DC 20037, USA. He has also earned Added Qualification in Infectious Diseases from Board of Pharmaceutical Specialties, Washington, DC 20037, USA. He has received The Pharmacy Leadership Academy from American Society of Health System Pharmacists (ASHP), Bethesda, Maryland 20814, USA. He had worked as Asst. Professor, Al-Ain University of Science and Technology, Al-Ain, UAE (2010-11), Adjunct Assistant Professor, Faculty of Medicine and Health Sciences (FMHS), United Arab Emirates University, Al-Ain, UAE. He served as Senior Clinical Pharmacist, Critical Care Clinical Pharmacy Specialist, Clinical co-ordinator, Pharmacist, Tawam Hospital, Department of Pharmacy, Al-Ain, UAE. He has also worked as tenure track teaching at different American universities. He has published a number of research papers in his related field in different national and international journals and he has also successfully completed many research projects during his career. Currently, Dr. Ibrahim holds a Head of

the Department of Pharmacy Practice at College of Clinical Pharmacy, King Faisal University, Kingdom of Saudi Arabia.

4.3.2 Staff of the Department

Maitham Abdullah Al-Hawaj

Nationality: Saudi

General Specialty: Pharmacy

Academic Rank: Assistant Professor

E-Mail: hawaj@kfu.edu.sa

Dr. Afzal Haq Asif



Nationality : Pakistani

Educational Qualification : M.B;B.S., M.Phil.

General Specialty : Pharmacology & Therapeutics

Academic Rank : Professor

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Mobile : +966-555891874

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Dr. Afzal completed M.B;B.S from Nishtar Medical College, Multan, in 1984 and M.Phil from Postgraduate Medical Institute, University of Punjab, Lahore, Pakistan in Pharmacology in 1995. He worked as a resident in Internal Medicine and Cardiology for couple of years before perusing his career in Pharmacology and Therapeutics. He served as Head of Department of Pharmacology and Therapeutics at Postgraduate Medical Institute, and many distinguished Schools of Medicine in Pakistan. He has been involved in teaching of Pharmacology, Therapeutics and Toxicology at COCP since 2007. His area of interest in research is nephrotoxicity of drugs and its protection; and anti-diabetic and anti-hyperlipidemic activity of indigenous plants. He has many national and international publications in reputed journals, on his credit and is member of editorial boards of some peer reviewed journals. He has attended many workshops and courses on Education, Training and Assessment in health sciences, Curriculum Development and Quality Assurance in Higher Education, and has been actively involved in these activities throughout his career.



Dr. Mohamed F. Zaitoun

Nationality: Egyptian

General Specialty: Clinical Pharmacy

Academic Rank: Lecturer

E-Mail: mzaitoun@kfu.edu.sa

Dr. Muhammad F. Zaitoun completed his B. Pharm from Alexandria University, Egypt (2006) and Pharm D from Alexandria University, Egypt (2010)> He is currently teaching pharmacy practice at college of clinical pharmacy, King faisal University, Al-Ahsa, KSA. He has more than three Years Experience As A Hospital Pharmacist And Two Years Experience

As A Clinical Pharmacist (Nephrology And ICU). He is a member of Egyptian Syndicate of Pharmacists Association of Applying and developing Pharmacy (AADP) - Egypt



Dr. Kazeem Babatunde Yusuff

Nationality: Nigerian

Educational Qualifications: BPharm (Hons), MPharm, PhD (Clinical Pharmacy)

General Specialty: Pharmacy Practice

Academic Rank: Assistant Professor

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Dr. Yusuff obtained his Bachelor of Pharmacy (Hons) from the University of Ife, now Obafemi Awolowo University in 1987, Master of Pharmacy (Distinction) and Doctor of Philosophy from the University of Lagos 2000 and 2008 respectively. Dr. Yusuff has a rich career history traversing different areas of pharmacy practice including hospital pharmacy, medical marketing, public health and pharmacy education / training where he is currently engaged. Dr. Yusuff joined the Department of Clinical Pharmacy and Pharmacy Administration, Faculty of Pharmacy, University of Ibadan, Nigeria as Lecturer II in 2002, and was promoted to Lecturer I in 2005. He became a Senior Lecturer in the same department in 2009.

Dr. Yusuff recently returned from a 15 month academic sojourn (June 2010-August 2011) to the Department of Pharmacy Administration and Practice, Faculty of Pharmacy, Rhodes University, South Africa. He has taught several courses in clinical pharmacy and pharmacy administration and supervised research projects at both undergraduate and postgraduate levels. While at Rhodes University, Dr. Yusuff participated in a compulsory pedagogical training known as "Assessors' Course" and was certified as highly competent at the end of the course. In addition, Dr. Yusuff also served as an external examiner to the Faculty of Health Science, University of Witwatersrand, Johannesburg, South Africa. Dr. Yusuff's research areas include pharmaceutical care, pharmacoepidemiology, medicine use problems, medicine advertisement and medication history. Till date, he has published 15 original research articles in reputable peer-reviewed international journals. He also serves as a peer-reviewer to a good number of reputable international journals in the area of clinical pharmacy and pharmacy practice. Dr. Yusuff was a consultant to the Federal Ministry of Health and World Health Organisation in Nigeria for projects in areas such as drug supply management, immunization and HIV/AIDS.



Dr. EL Walid EL Hassan

Nationality : Sudanese

Educational Qualification : M. Pharm., MSc. D

General Specialty : clinical pharmacy

Academic Rank : clinical lecturer

Mobile : +966-543275644

E-Mail: : eelhassan@kfu.edu.sa

Dr. Hassan got his bachelor degree in 2002 from AL Ahliyya Amman University , and in 2005 and masters in clinical pharmacy from Jordan University of Science and technology (J.U.S.T.). After that he worked at the American hospital in Dubai for 2 years and joined Tawam hospital (in affiliation with John Hopkins) for 5 years.

His areas of expertise are

Patient Counseling and education

My Main Work to See the patient Upon Discharge and do counseling to the patients or the care givers regarding many aspects of their treatment:

Treatment plan, Drug Food interactions, Drug-Drug interactions, Adverse effects, Signs of toxicity and when to report to the physician, Duration of treatment, Storage of medications and providing them with printed materials.

His main patients are cardiac, renal, diabetic, Transplant patients and most of the high risk patients who are on High alert medications.

Medication reconciliation upon discharge

This process of comparing a patient's medication orders to all of the medications that the patient has been taking. It is done to avoid medication errors such as omissions, duplications, dosing errors, or drug interactions by reviewing medication profile with the patient to assure it is correct and up-to-date Ensure appropriate drugs and dosages are being used according to diagnosis and protocols. Discontinue all non-active medications, Renew all expired medications, OTC, herbal, and traditional medications to be reviewed and mentioned. Also involved in Providing Clinical advice to fellow health professionals.



Dr. Ahmad Sarsour

Nationality	: US Citizen
Educational Qualification	: PharmD, RPh
General Specialty	: Clinical Pharmacy
Academic Rank	: Lecturer
Mobile	: +966-542054979
E-Mail:	: a_sarsour@hotmail.com

Dr. Ahmad Sarsour graduated in 2012 with a Doctor of Pharmacy Degree from the University of Toledo College of Pharmacy in Toledo, Ohio USA. He is a Board Certified Pharmacist and holds two licenses in Michigan and Ohio. Dr. Ahmad worked for 4 years as a intern at Rite Aid Pharmacy, a retail chain, where his job included counseling patients, administering the influenza vaccine, recommending therapy for patients and doctors and compounding. Dr. Ahmad also assisted the pharmacists in conducting medication therapy management, MTMs. As a pharmacist he worked for Rite Aid for 8 months administering a number of vaccines including Shingles, Pneumococcal, Pertussis (Whooping Cough),

Tetanus, Hepatitis A, Hepatitis B, Diphtheria. Other duties included checking prescriptions and training technicians. During his school years Dr. Ahmad did his introductory pharmacy practice experience, IPPE, at St. Anne's Hospital where his duties included preparing medication orders and maintaining adequate number of medications in each unit in the hospital. He conducted his clerkships in numerous hospital settings including psychiatry, general and advance medicine, internal medicine, cardiology and nephrology. His training their included rounding with physicians making recommendations and counseling patients about therapy change. Currently Dr. Ahmad is getting ready to teach and train students in the College of Clinical Pharmacy at King Faisal University.

Dr. Ziad Nasr



Nationality	: Lebanese
Educational Qualification	: PharmD
General Specialty	: Pharmacy
Academic Rank	: Clinical Lecturer
Mobile	: +966-541705508
E-Mail	: ziadnasr88@hotmail.com

Dr. Ziad Nasr received his BSc in Pharmacy from Lebanese American University, Byblos, Lebanon in 2011. In 2012 he received his Pharm D from Lebanese American University, Byblos, Lebanon. Also, he is a registered pharmacist in Lebanon. Dr.Ziad completed his Pharm D internship at The Methodist Hospital, Houston, TX, USA and pharmacy school internship at the American University of Beirut Medical Center, the University Medical Center Rizk Hospital and did a research project at St. Joseph Hospital. After graduation, he worked as Community Pharmacist at Pharmacy Boutros, Beirut, Lebanon and then as a Quality Assurance Coordinator at Pharmaline, Beirut Lebanon.

Dr. Amal Abu Alhumus

Nationality: Jordanian
 General Specialty: Clinical Pharmacy
 Academic Rank: Lecturer
 E-Mail: aabualhomos@kfu.edu.sa

Dr. Amal Khalil Ahmad Abu Alhommos completed her graduation from Jordan University of Science and Technology, Jordan (2002) and post graduation from Jordan University of Science and Technology, Jordan in 2004. She is currently teaching Clinical Pharmacy at College of Clinical Pharmacy, King Faisal University, KSA. She has more than 5 years of teaching experience at Al Isra University, Pharmacy Faculty, Jordan. She has also worked as hospital pharmacist at King Abdullah In Irbid/Jordan for 6 months and King Hussein Cancer Center In Amman for 6 months.

Dr. Dalia El-Maghraby

Nationality: Egyptian

General Specialty: Clinical Pharmacy

Academic Rank: Lecturer

Email : delmaghraby@kfu.edu.sa

Dr. Dalia El-Maghraby completed her Pharmacy graduation in 2002 from Faculty of Pharmacy, Alexandria University, Egypt and did her Diploma in biotechnology science from the former university and also completed Pharm. D. in the year 2009 from Alexandria University, Egypt. She had worked as Clinical Pharmacist in Alexandria University Hospitals, Egypt. Currently, she is involved in teaching in Female section of College of Clinical Pharmacy, King Faisal University. Kingdom of Saudi Arabia.

Mansour Mutlaq Al-Otaibi

Nationality: Saudi

General Specialty: Clinical Pharmacy

Academic Rank: Demonstrator

Tel: 1783 / Ext: 246

E-Mail: mmqalotaibi@kfu.edu.sa

Ali Ahmed Al-Shammari

Nationality: Saudi

General Specialty: Clinical Pharmacy

Academic Rank: Demonstrator

Tel: 1783 / Ext: 245

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Ali Mahroos Al-Dayyen

Nationality: Saudi

General Specialty: Clinical Pharmacy

Academic Rank: Demonstrator

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Haithem Alwali

Nationality: Saudi

General Specialty: Clinical Pharmacy

Academic Rank: Demonstrator

Rashed Almuqbil

Nationality: Saudi

General Specialty: Clinical Pharmacy

Academic Rank: Demonstrator

Nisrin Alojjan

Nationality: Saudi

Job: Teaching Assistant**Email:** alojaun@kfu.edu.sa



5. Research Activities at the College

5.1 Some of the ongoing and completed projects at College (2012-2013)

Sl. No	Title	Investigators	Source of Financial Support	Budget	Expected date to be finished
1	Influence of captagon on spatial learning and memory at the behavioral level	Ibrahim A. Alhaider	Deanship of Scientific Research, KFU	52000.00 SAR	Ongoing
2.	Evaluation of long-term effect of stem-cell therapy for cardiac repair,	Ibrahim A. Alhaider	KACST grant, Strategic Plan, 2012-2014,	20,00,000 SAR.	Ongoing
3.	Cardiotoxic and oxidative stress protection by caffeic acid phenethyl ester following acute and subchronic exposure to co-administration of cyclophosphamide and naproxen in mice.	Mohammad A Morsy Received a grant as Co-Investigator (Project number 130016):	Deanship of Scientific Research, KFU	SAR 69500	Ongoing
4.	Cardioprotective effect of cannabidiol in rats with doxorubicin toxicity.	Mohammad A Morsy Received a grant as Co-Investigator (Project number 130243):	Deanship of Scientific Research, KFU	SAR 88500	Ongoing
5.	Mucoadhesive microspheres containing a new antidiabetic drug:	Sree Harsha, Mahesh	Deanship of Scientific Research,	SAR 87400	Ongoing

	Preparation and in-intro characterization	Attimarad	KFU			
6.	Self emulsifying drug delivery systems (SEDDS) for oral delivery of lipophilic antimuscarinic drugs	Arshiya Shariff	Deanship of Scientific Research, KFU	of SAR 66650	Ongoing	
7.	Validated Liquid Chromatographic method development for simultaneous estimation of Metformin And Gliptins,	Mahesh Attimarad	Deanship of Scientific Research, KFU	of SAR 63100/-.	Ongoing	
8.	Microwave assisted efficient one pot synthesis of steroidal oxazolines and aziridines of pharmaceutical importance under solvent free condition.	Sheeba Shafi, Mahesh Attimarad	Deanship of Scientific Research, KFU	of SAR 141400.00	Ongoing	
9.	Cardiotoxic and oxidative stress protection, by caffeic acid phenethyl ester following acute and subchronic exposure to co-administration of cyclophosphamide and naproxen in mice.	Promise Emeka	Deanship of Scientific Research, KFU	of SAR/ 69500.0.	Ongoing	
10.	Development of Novel Levofloxacin Loaded Nanoparticles (Niosomes) with Macrophage Targeted Properties as a Parenteral Drug Delivery System,	Azza Hassan	Ali Deanship of Scientific Research, KFU	of SAR 180,000/-.	Ongoing	
11.	A comparative study of the possible protective role of pentagalloyl	Fatma Moharram	Deanship of Scientific Research,	of SAR 75000	Ongoing	

	glucose and protective effect of famotidine on low dose aspirin-induced gastric mucosal lesion.			KFU			
12.	Therapeutic effects of some herbal extracts on male infertility in experimental animals.	S Sangi		Deanship of Scientific Research, KFU	SAR 54400/-.	Ongoing	
13.	Computer-assisted design and synthesis of novel aldose reductase inhibitors for prevention of diabetic complications	Kamel Metwally Ashraf Khalil Othman Al Shabanah		King Abdulaziz City for Science and Technology (KACST)	SAR 951000	24 Oct 2010 to 30 Dec. 2012	
15.	Developing microchip electrophoresis and its application to drugs of abuse analysis in biofluids.	Ahmaed O. Alnajjar,		King Abdulaziz City for Science and Technology	\$200,000	01 Jan. 2011 to 30 Dec. 2013	
16.	Simultaneous estimation of Metformin and Miglitol by HPLC	Mahesh Attimarad, Ahmaed O. Alnajjar, Shree Harsha N		Deanship of Scientific Research, KFU	92400 SR	26 Jan 2011 to 30 Jan. 2012	
17.	Developing microchip electrophoresis technology and applications to drug analysis	Ahmaed O. Alnajjar,		Deanship of Scientific Research, KFU	\$53,000	23 Jan 2010 to 30 Nov. 2011	
18.	Design and evaluate oral mucoadhesive microspheres of new antiglycemic drug	Sree Harsha Mahesh Attimarad and Tanveer Ahmad Khan.		Deanship of Scientific Research, KFU	88400 SR	Completed	
19.	Anti-angiogenic Activities of Some Saudi	Hafez R. Madkor,		Deanship of Scientific	100000	Completed	

	Medicinal Plants on Sherif W. Research, SR Experimentally Induced Monsour, and KFU Breast Cancer in Rats Mueen A. Khalil,
20.	Studies on Metabolomic Mueen Deanship of 175000 Completed profiling of Saudi Ahamed, Scientific SR Arabian Medicinal Plants Hafez R. Research, through the integration of Madkour, KFU Metabolomics and Mahesh Fluxomics Attimarad,

King Faisal University, College of Clinical Pharmacy

Title of the Approved Research projects under 14th DSR Projects for 2012-2013

Sl. No	Name Of the Faculty (PI)	Title of the 14 th DSR Projects 2012	Budget in SAR
1	Dr. Nashwa Zaher	Design, Synthesis, SAR and Anti-breast Cancer Potential of New Thymoquinone Analogs as PPAR γ Ligands	106000.00
2	Dr. Sree harsha	Preparation and Evaluation of Spraydried Oral Mucoadhesive Noveon Aa-1 Polycarbophil Nanoparticles Containing Anti-Diabetic Drug	74400.00
3	Dr. Emeka Promise	Evaluation of lutein protective effects against Vancomycin induced acute renal injury	70000.00
4	Dr. Anroop Nair	Development of a novel non invasive technique for therapeutic drug monitoring in epilepsy patients	65900.00
5	Dr. Bandar	Formulation and evaluation of buccal films impregnated with selegiline loaded nanospheres	68400.00

6	Dr. Mahesh Attimarad	Development and validation of Stability indicating Chromatographic method for simultaneous determination of Statin and Gliptin	57900.00
7	Dr. Tamer Shehata	Evaluation of Iontophoresis effect on Niosome – Emulgel Combination as a Novel Transdermal Drug Delivery System	115900.00
8	Mohammed Abdou Khedr	Design and Synthesis of Novel Dipeptidyl Peptidase IV Inhibitors for the Treatment of Type-2 Diabetes Mellitus	77000.00
9	Dr. Taghrid El-Mahdy	Molecular Characterization of Resistance Mechanisms to Beta-Lactams in Clinical Isolates of Enterobacteriaceae and <i>Pseudomonas aeruginosa</i> from Hospitals in Saudi Arabia	144640.00

5.2 List of Staff publications in the year 2012-13

Department of Pharmaceutical Sciences

1. Mohammad T. Elnakish, Fatemat Hassan, Duaa Dakhlallah, Clay B. Marsh, **Ibrahim A. Alhaider**, and Mahmood Khan Mesenchymal, Stem Cells for Cardiac Regeneration: Translation to Bedside Reality, Stem cell International, Accepted, 2012.
2. Mahesh V Attimarad, **Bander E Al-Dhubiab**, **Ibrahim A Alhaider**, Anroop B Nair and Sree Harsha N, Mueen Ahmed K, Simultaneous determination of moxifloxacin and cefixime by first and ratio first derivative ultraviolet spectrophotometry, Chemistry Central Journal, 6, 105, Accepted, 2012.
3. Munder Zagaar, **Ibrahim Alhaider**, An Dao, Amber Levine, Ahmed Alkarawi, Mariam Alzubaidy, Karim Alkadhi, The beneficial effects of regular exercise on cognition in REM sleep deprivation: Behavioral, electrophysiological and molecular evidence, Neurobiology of Disease (2012); 45:1153–1162.
4. **Bandar E Aldhubaib**, Pharmaceutical applications and phytochemical profile of *Cinnamomum burmannii*, Pharmacognosy Reviews, 2012; vol 6(12) Page 125 - 131
5. **Bandar E Aldhubaib**, Evaluation of Olive Oil Ester-Buffer System for the Development of Piroxicam Micro-Emulsion. Accepted 2012, *King Faisal University Journal*, Saudi Arabia
6. **Bandar E Aldhubaib**, Development and Evaluation of Fast Dissolving Tablets of Glimepiride. *Zagazig Journal of Pharmaceutical Sciences*, Egypt- Accepted for publication 2012
7. **Harsha, S.**, Dual drug delivery system for targeting H. pylori in the stomach: preparation and in vitro characterization of amoxicillin-loaded Carbopol® nanospheres. *International Journal of Nanomedicine*, 2012. 7(1), 4787 - 4796. **(Impact Factor 3.14)**
8. **Sree harsha**, Mahesh Attimarad, Tanveer A. Khan, Anroop B. Nair, Bandar E. Al-Dhubiab, Sighatullah Sangi and Arshia Shariff, Design and formulation of mucoadhesive microspheres of sitagliptin, *Journal of Microencapsulation*, 2012 (Accepted and in press) (Impact factor 1.5).
9. Mahesh Attimarad, **Sree Harsha N**, Ramachandra Setty S, Simultaneous Determination Of Ofloxacin And Flavoxate Hydrochloride In Human Plasma By RP HPLC, *Journal of Liquid Chromatography and Related technologies* 2012, 35:6 (In press) (DOI: 10.1080/10826076.2011.608234) (2011 Impact factor 0.953).
10. Fouad AA, Al-Mulhim AS, Jresat I, **Morsy MA**. Protective effects of captopril in diabetic rats exposed to ischemia/reperfusion renal injury. *J Pharm Pharmacol*. 2012 (in press).
11. El-Sheikh AK, **Morsy MA**, Mahmoud MM, Rifaai RA, Abdelrahman AM. Effect of coenzyme-Q10 on doxorubicin-induced nephrotoxicity in rats. *Adv Pharmacol Sci*. 2012 (in press).

12. Ibrahim MA, **Morsy MA**, Hafez HM, Gomaa WM, Abdelrahman AM. Effect of selective and non-selective cyclooxygenase inhibitors on doxorubicin-induced cardiotoxicity and nephrotoxicity in rats. *Toxicol Mech Methods*. 2012 Jul;22(6):424-31.
13. **Morsy MA**, Heeba GH, Abdelwahab SA, Rofaeil RR. Protective effects of nebivolol against cold restraint stress-induced gastric ulcer in rats: role of NO, HO-1, and COX-1,2. *Nitric Oxide*. 2012 Jun 8;27(2):117-122.
14. **Morsy MA**, Abdalla AM, Mahmoud AM, Abdelwahab SA, Mahmoud ME. Protective effects of curcumin, α -lipoic acid, and N-acetylcysteine against carbon tetrachloride-induced liver fibrosis in rats. *J Physiol Biochem*. 2012 Mar;68(1):29-35.
15. El-Moselhy MA, **Morsy MA**, Abdel-latif RG, Khalifa MA. Enhanced Nitric Oxide Synthase-Nitric Oxide (NOS-NO) signaling underlies sildenafil amelioration of cyclosporine-induced nephrotoxicity in rats. *FASEB J*. March 29, 2012 26:1051.13.
16. **Anroop B**, Vaka SRK, Gupta S, Repka MA, Murthy SN. *In vitro* and *In vivo* evaluation of a hydrogel based prototype transdermal patch system of alfuzosin hydrochloride. *Pharm. Tech. Dev*. 17, 158-163, 2012.
17. Loretta O. Iniaghe, **Promise M. Emeka**, Henrietta Ogbunugafor. 2012. Effects of Co-Administration Of Ascorbic Acid On Sulphadoxine/Pyrimethamine In Mice Infected With *Plasmodium Berghei*. *West Afr. Journal of Pharm*. [accepted and in press].
18. **Promise Madu Emeka**, Mokhtar Jawad Al-Omar & Tahir Mehmood Khan. 2012. A Qualitative Study Exploring Role of Community Pharmacy in the Irrational Use and Purchase of Nonprescription Antibiotics in Al Ahsa. [In Press] *European Journal of General Medicine*.
19. **Emeka PM**. Badger-Emeka LI. Fateru O. In-vitro Antimicrobial activities of *Acalypha ornata* Leaf Extracts on Bacterial and Fungal Clinical Isolates. *Journal of Herbal Medicine* [Accepted and In press].
20. Ahmed O. Alnajjar, Abubakr M. Idris, **Mahesh V. Attimarad**, Adnan M. Aldughaiash and Rafea E.E. Elgorashe, Capillary Electrophoresis Assay Method for Metoprolol and Hydrochlorothiazide in their Combined Dosage Form with Multivariate Optimization, *Journal of Chromatographic Science*, 2012;00:1–6. (2011 Impact factor 1.07).
21. **M. Attimarad**. Simultaneous Determination of Ofloxacin and Flavoxate Hydrochloride by First and Ratio First Derivative UV Spectrophotometry, *Journal of the Iranian Chemical Society*, 2012, 9:551–557 (2011 Impact factor 1.65).
22. **Azza A. Hasan**; "Formulation and evaluation of dorzolamide hydrochloride-loaded nanoparticles as controlled release drug delivery system", *Asian Journal of Pharmaceutics*, 6 (2012) 67-73.
23. Mahmoud M. Ibrahim and **Tamer M. Shehata** The Enhancement of Transdermal permeability and anti-inflammatory effect of Ketorolac Tromethamine formulated as novel niosome emulgel combination.. *J. DRUG DEL. SCI. TECH.*, 22 (4) 353-359 2012

24. **Raed Khashan**, Weifan Zheng, and Alexander Tropsha. Scoring Protein Interaction Decoys using Exposed Residues (SPIDER): A Novel Multi-Body Interaction Scoring Function based on Frequent Geometric Patterns of Interfacial Residues. *Proteins: Structure, Function, and Bioinformatics*, Volume 80, Issue 9, Pages 2207-2217, August 2012.
25. **Raed Khashan***. FragVLib - A Free Program for Generating "Fragment-based Virtual Library" Using Pocket Similarity Search of Ligand-Receptor Complexes. *Journal of Cheminformatics*, Volume 4, Issue 1, Page 18, 2012 August 21.
26. Fehri B, Aiache J, **Mueen Ahmed KK**. Active spermatogenesis induced by a reiterated administration of *Globularia alypum* L. aqueous leaf extract. *Phcog Res* 2012;4:138-47
27. **Mueen Ahmed KK**, Gupta BM. India's contribution on antioxidants: a bibliometric analysis, 2001–10. *Scientometrics* [Internet]. 2012 Mar 18 [cited 2012 Mar 18]; [Online first]
28. **Mueen Ahmed KK**. Assessing citations with Google Scholar: A new feature. *J Pharmacol Pharmacother* 2012;3:75-6

Department of Biomedical sciences

1. Pardeep Kumar, **Asia Taha**, R.K. Kale, P.McLean and Najma Zaheer Baquer "Beneficial effects of *Trigonella foenum graecum* and sodium orthovanadate on metabolic parameters in experimental diabetes." *Cell Biochemistry & Function*, accepted Feb 06, 2012 (in print).
2. Rubab Satti, Farah Mustafa, Muhammad Imran Khan, Tahmina Sultana Haq, Ziad Umar Khan, Muhammad Zubair, **Sahibzada Taslim Rasool**, Maleeha Azam, Muhammad Ajmal and Raheel Qamar, Prevalence of Hepatitis C Virus in Urban Ghettos of Twin Cities, *Pakistan J. Zool.*, vol. 44(4), pp. 937-943, 2012.
3. Afzal H. Asif , **Sahibzada T. Rasool** and Tahir M Khan, Pyridoxal Phosphate a Possible Intervention to Prevent Aminoglycoside Induced Electrolyte Imbalance, *J Clinic Res. Bioeth* 2012, 3:1
4. Sibghatullah Sangi , Sree Harsha, Sahibzada **Tasleem-ur-Rasool**, Afzal Haq Asif Formulation and evaluation of mucoadhesive Nigalla Sativa and Olive oils for vaginal infection, *Der Pharmacia Letter*, 2011, 3(2):39-46.

Department of Pharmacy Practice

1. **Afzal H. Asif** , Sahibzada T. Rasool and Tahir M Khan: Pyridoxal Phosphate a Possible Intervention to Prevent Aminoglycoside Induced Electrolyte Imbalance. *J Clinic Res Bioeth* 2012, 3:1 <http://dx.doi.org/10.4172/2155-9627.1000124>
2. **Yusuff KB**. Perceived medications use challenges and self-initiated coping strategies used by medical outpatients. *International Journal of Clinical Pharmacy*.2012 Accepted.

6 .Various committees at the college

6.1 Academic Affairs Committee



Purpose

The purpose of Academic Affairs Committee is to ensure proper academic administration and smooth delivery of Pharm. D Program starting from orientation of new students about academic program, students' registration for courses in the program, planning for the academic calendar and schedules for examinations, if approved by the

college council. The committee will work in liaison with Deanship of Admission and Registration. The Committee is also responsible for implementation and periodic evaluation of academic advisory system of the college

Roles and Responsibilities:

- Initiate and recommend to Dean, policies and procedures, as per university guidelines, regarding smooth delivery of academic programs and students' advisory system of the college
- Organize and implement effective academic orientation program for new students.
- Follow-up of students during registration process and help them to resolve the related issues.
- Preparation and review of the college time tables for both male and female sections as per university calendar
- Prepare detailed rules, regulations and instructions both for faculty members and the students regarding program delivery and assessment, as per university guidelines, by the start of the academic year
- Monitor the teaching and assessment schedules and address any issue, resolve the problems that could impede the educational process.
- Monitor students' attendance and examine their excuses of absences and withdraw for approval or disapproval.
- Prepare, periodically review and disseminate, a set of instructions and rules for conduct of final exams for both students and faculty members; and ensure their implementation in smooth manner.
- Monitor and regulate final semester examinations through a sub-committee constituted by the Chair
- Supervise the entrance of the final results in the banner program and delivered to the Deanship of Admission and Registration after approval by the Dean of the College.
- Prepare/Activate, implement and monitor academic advisory system in the college, students' portfolios, in coordination with Academic Advisors of various students' groups.

assist the academic Department in implementation of service learning modules of their courses. The committee works in close association with Deanships of Students Affairs and Community Engagement Unit of KFU.

Roles and Responsibilities

- Develop a clear schedule for all the activities for the staff, on and off-campus, well in time and advertise accordingly for implementation
- Organize orientation sessions and social event for new faculty members
- Maintain record of all upcoming social and cultural events, in the Kingdom and outside the Kingdom, ensure college participate, and manage necessary correspondence with the organizers and the Deanship of Students/Academic Affairs.
- Arrange seminars, symposia, surveys and other activities for professionals, schools and general community on common health issues
- Organize school visits for awareness regarding clinical pharmacy as career
- Develop COCP alumni data, maintain liaison and organize alumni get-to-gather, once in each semester
- Organize end of year Alumni-students-staff get-to-gather, every year
- Communicate with the community representatives for arrangement of service learning modules of the courses of studies, in each semester
- Encourage students and all staff of COCP to share their academic and co-academic experiences with the community by publishing in KFU magazine
- Organize social and recreational events for staff of the college, once in each semester
- Examine and recommend reward for students and faculty for their contribution in COCP and community engagement activities

Events to be organized

- Welcome party for new students, in collaboration with Students' Services Committee
- End of year student-faculty get-to-gather
- Semester-wise faculty-families trip/get-to-gather
- School and community visits
- Community camps/activities for awareness of Health issues, medication-use issues
- Alumni get-to-gather, once during each semester
- Any other National Day or Day on health issues, like Stop Smoking Day, Diabetes Day etc
- Organizing weekly lectures, in collaboration with Professional Development Committee, on general topic of interest for faculty and students
- Contribute in KFU community engagement events

Media activities:

- Announcement of the college News, Events and activities on the wall board, electronic LCD, and college website
- Editing the college website, forums, and encouraging students for healthy participation in forum activities

Printing the college prints e.g. College handbook, research handbook, annual report, student handbook, training manual, etc

Members of the committee (2012-13)

- **Dr. Hany Ezzat - Head of Committee**
- Dr. Ahmed Rajaa
- Dr. Nashwa Zaher
- Mr. Tameem Alyahiyah
- Mr. Abdulaziz Aljhani
- Mrs. Fathimah Alqarni
- Mrs. Alwahaer Almulhim
- Ms. Fathimah Alhadad
- Mr. Faisal Aladeel

6.3 Accreditation Committee**Purpose:**

The purpose of accreditation committee is to ensure that the COCP is achieving its stated mission and the graduates are educated at the level reflected by the program outcomes, which are according to the standards set by the relevant accrediting bodies. The committee will prepare Program Review Report according to the standards provided by the Accrediting body by involving all the faculty, students' and staff representatives; and, get it approved by internal and external evaluators. The committee will also document the

evidences verifying the relevant SSR.

Roles and Responsibilities:

- Assess, review and report on the COCP functions in relation to the accreditation standards of the accreditation body/agency (NCAAA, CCAPP or ACPE)
- Compile Self Study Report, involving all the faculty, student and administration representatives.
- Discuss the report at faculty forum for feedback for approval
- Collect and document systematically, all the relevant evidences
- Prepare and submit all the documents as required by the accreditation agency
- Get the report and evidences verified by the internal and external reviewers, prior to submission of application to the accrediting body. .
- Review the recommendations of the reviewers for incorporation or response

- Keep close liaison with Director Quality Assurance Unit, heads of all COCP Committees and Academic and Administrative Departments and recommend appropriate amendments for improvement in functions and resources to fulfill the standards of accrediting body.
- Apply for accreditation on prescribed forms and submit all the required supporting document documents to the accrediting agency
- Organize the visit schedules for the CCAPP team
- Follow up with the Team recommendations, If any

Members of the committee (2012-13)

- **Dr Ibrahim A. Alhaider** **Head of Committee**
- **Dr Bandar**
- Dr. Sahibzada Tasleem Rasool
- Dr Sabah Akrawi
- Dr. Afzal Haq Asif
- Dr. Sherif W Mansour
- Dr Yasir Ibrahim
- Dr Mahesh
- Dr Promise Emika
- Dr. Taghrid Elmahdy
- Mr. Tameem
- Mr. Sulaiman Almahaish
- Ms. Sarah Khalid Alhussain

6.4 Assessment Committee

Purpose:



The Purpose of Assessment Committee of COCP is to conduct assessment and evaluation of all the actions and procedures leading toward COCP mission through achievement of Pharm D Program outcomes and COCP strategic goals and objectives, pertaining to mission related areas, to determine extent of achievement and to provide input and recommendations to concerned committees and administration for forward planning for improvement. The committee will work under umbrella of QAU and in collaboration with Curriculum Development

Committee

Roles & Responsibilities:

- Develop, manage and implement assessment plan with time schedule/calendar for all assessment activities at COCP

- Define infrastructure and resources needed to manage implementation of the assessment plan.
- Develop the assessment tools and guidelines to assess the achievement of the Program terminal objectives and objectives of the strategic plan (mission related areas) .
- Analyze the assessment data to identify areas of improvement for COCP.
- Develop feedback mechanisms to use results of findings in the assessment process for improvement.
- Disseminate the assessment data appropriately through feedback to the administration, the academic departments and committees.
- Continuously review the assessment plan for improvement

Some activities of Assessment Committee

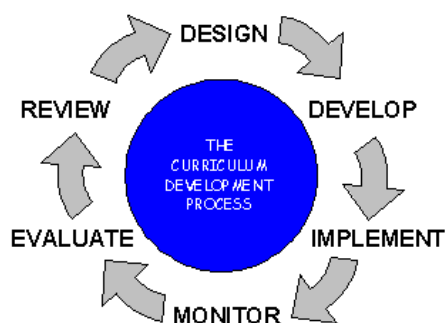
- Serve as advisor to the College Council and Faculty on matters related to quality control of courses
- Assess the results of comprehensive examination
- Assist faculty in developing assessment tools for courses, laboratories or rotations
- Conduct course/faculty evaluations each semester
- Conduct periodic alumni and employer surveys
- Conduct student surveys
- Conduct other assessment activities as assigned
- The Assessment Committee shall coordinate the activities with the Curriculum Committee.

Members of the committee (2012-13)

- **Dr. Ibrahim Alhaider** - Head of Committee
- Dr. Afzal Haq Asif
- Dr. Mueen Ahmed KK
- Dr. Sree Harsha
- Dr. Arshia Shariff

6.5 Curriculum Development Committee

Purpose:



The purpose of curriculum development committee is to monitor, evaluate and continuously improve the study plan so that it should fulfill the college mission in general and lead towards achievement of the program outcomes in special. The committee will have liaison with the Quality Assurance Unit for feedback

and will design and implement strategies for final revision of the study plan within the framework provided by National and International accrediting bodies, based upon input from the faculty, students and stakeholders to address the new needs of the community; and to be in pace with recent advancement in the knowledge and practice of pharmacy.

Role and Responsibilities:

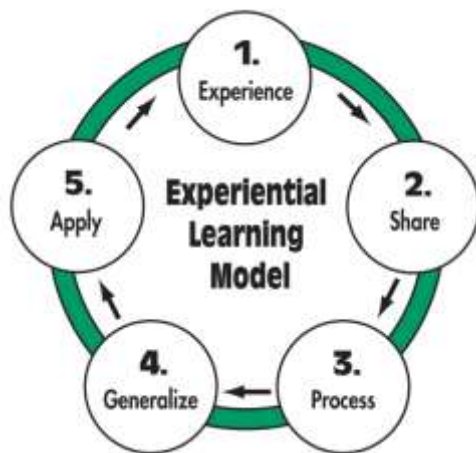
- Review NCAAA, ACPE and CCAPP standards and University rules and regulations, and make clear policy and procedure for development and amendment in the study plan for approval by the Faculty, College and University Council.
- Continue assessing the changing needs based upon feedback from the stakeholders, alumni and recent advances in the pharmacy practice, and modify program objectives accordingly, if needed, for upcoming revision of the study plan
- Apply approved policy for improving consistency and integrity across the study plan by regular evaluation of content of study plan, based upon member's reflections and input from the faculty member teaching the courses, departmental recommendations, .result of students surveys (at the end of each semester), and feedback from the stakeholders
- Keep liaison with the QAU for their recommendations based on various survey reports, after end of every semester.
- Thoroughly review the departmental recommendations for amendments in the specific course in the Study Plan received during the teaching sessions, and approve and recommend to the Dean for approval by the college council.
- Chalk out plan for revision of study plan and recommend additions, deletions, or revisions of courses and providing documents in support of the recommendations.
- Thoroughly review the recommendations on new course- proposals and recommend to the college council.
- Review and recommend new educational and assessment techniques to support excellence in both teaching and training.
- Bench mark all the amendments/amended study plan with those of Colleges of Pharmacy from Gulf region and with those from USA (ACPE guidelines)
- Seek remarks and recommendations from stakeholders for amendments in study plan
- Review/incorporate /discuss recommendations made by the college council and University committee for Study Plans
- Assist and guide the faculty members, from time to time, on matters such as course planning and development of blue prints before the beginning of each semester.
- Ensure the optimum delivery of the courses as per blue print prepared.
- Keep liaison with committee for community engagement for modification in the courses/addition of courses so as to achieve the desired learning outcomes/program objectives through service learning
- Collaborate with Committee for Interprofessional Education for implementation of IPE in various courses and designing new IPE courses for revised study plan.

Members of the committee (2012-13)

- **Dr. Afzal Haq Asif - Head of Committee**
- Dr. Mueen Ahmed KK
- Dr. Sheriff Wajeh
- Dr. Yasir Ibrahim
- Dr. Promise Emeka
- Dr. Asia Talha
- Mr. Ali Alshammary
- Mr. Solaiman Almohaish
- Ms. Sara Alhussein

6.6 Experiential Education Committee

Purpose:



The purpose of Experiential Education Committee is to formulate and implement policies and procedures for outcome oriented academic administration of experiential programs of the Pharm D study plan. It also search, select and evaluate program sites for experiential education and coordinate with external preceptors.. The committee helps to identify areas of excellence and deficiencies of different training sites and provide assistance for implementation of programs to the external preceptors and helps to initiate/improve clinical pharmacy practice at the

site, wherever required. A subcommittee constituted by the Chair, deals with any administrative and disciplinary issues emerging during the program implementation.

Experiential Education Modules of Pharm D Program:

1. IPPE-1 (Introductory Pharmacy Practice Experience) Community Pharmacy
2. IPPE-2 (Introductory Pharmacy Practice Experience) Institutional Pharmacy
3. APPE (Advanced Pharmacy Practice Experience)

Roles and Responsibilities

Selection of program site and Training of preceptors:

- Survey and search for prospective experiential program sites for above programs, for both male and female students according to increasing number of the students
- Visit the prospective sites and introducing the objectives and activities of the program to get the approval from the site administrator, well before time
- Work for making contracts with the program sites, according to the University rules and regulations
- Make recommendations for all above to the Dean for approval and for future planning

- Design and implement orientation and training program for new/prospective preceptors, from COCP or from external sites

Selection of Students and orientation:

- Make the uniform criteria for students' selection for placement at different sites, according to University guidelines or College rules regulation for APPE,
- Implement Selection criteria with firm and fair policy
- Arrange orientation for each experiential education program for the target students, well in time
- Hold Orientation of Internal preceptors regarding outcome oriented experiential training, monitoring and assessment of students during the program

Selection of Program supervisor for each training program during summer semester

- **During Training (for each program supervisor):**
 - Monitor the students punctuality and regularity, and professional behavior
 - Motivate the students for active learning during the program
 - Monitor the achievement of training specific objectives as designed by the relevant academic department, in collaboration with the preceptor
 - Allocate any training specific assignment, to the students and arranging for follow up evaluation (presentation in the college) after the training.
 - Monitor the implementation of the assessment program of the training, if applicable.
 - Collect the final assessment of the trainee from the site preceptor
 - Write and submit report to the Head of committee after completion of Experiential Education program (summer training), consisting of students results and recommendations for improvement of the program
- Execute any other Experiential/Clinical program, as suggested by the college academic council/Academic Department and approved by the Dean
- Assist the Department of Pharmacy Practice in compilation and printing of APPE and IPPE manuals, and their review, based upon feedback from students and stakeholders, and recent advances in Pharmacy Practice.
- Initiate and maintain liaison with all training sites(hospital) in Al-Ahsa region, and will assist these for provision of clinical pharmacy services to the community by appointing clinical staff at the site.

Members of the committee (2012-13)

- **Dr. Yasir Ibrahim - Head of Committee**
- Dr. Taher Khan
- Dr. Afzal Haq Asif
- Dr. Dalia Almagribi
- Dr. Alwaleed Alabbas
- Dr. Saira Azhar
- Mr. Mohammed Al-harbi

- Mr. Majed Alqahtani
- Ms. Marwaa Alnoees
- Mr. Mohammed Alabdelwah

6.7 Interprofessional Education Committee

Purpose:



The purpose of Interprofessional Education Committee is to design and execute strategies for implementation of Interprofessional Education within the framework of current Pharm D program of COCP, in collaboration with other health colleges at KFU with an objective to build students' capacity for provision of collaborative patient centered care to the community. The committee, in collaboration with other health colleges and their curriculum development committees, will prepare proposal for designing of common modules to be included in

Study Plans of health colleges. The committee will also prepare a proposal for establishment of Center for Interprofessional Education at KFU level.

Roles and Responsibilities:

- Communicate with Head/coordinator of each department for their needs for IPE in the courses taught by the relevant departments
- Review all the IPE modules in Pharm D program, in collaboration with Curriculum Development Committee and the instructors
- Prepare a document as practical plan for each course having IPE modules, for each semester, in collaboration with other health college for implementation:
- Prepare/ propose team of faculty members, from different health college and get their consent through proper channel, before beginning of semester.
- Resources like, venue, any special aids/simulation for the module
- Time schedule/exact place of the module within the course plan, with time and date
- Mode of module delivery and assessment
- Mode of Evaluation of the usefulness of the module in achievement of desired course and program terminal outcomes
- Prepare a comprehensive courses' evaluation report and submit to the Vice Dean Academic Affairs and Curriculum Development Committee
- Provide input to the Curriculum Development Committee for designing of common IPE courses for academic programs of KFU health colleges
- Ensure that IPE modules in Pharm D courses satisfy the standards national and international accrediting bodies

- Promote and advocate for change towards collaborative patient centered care by organizing presentation at various levels, on importance of Interprofessional Education
- Facilitate practice based interdisciplinary, students' and faculty research projects to signify and advance knowledge across various health professions

Members of the committee (2012-13)

- Dr. Maitham Alhawaj **Head of Committee**
- Dr. Mohammed Zaitoon
- Dr. Mamoon Rateb
- Dr. Amal Abu Alhummus
- Mr. Abdullah Khababa'
- Ms. Sara Alamer

6.8 Learning Resource Committee



Purpose : The purpose of the committee is to provide, facilitate and guide for use of available learning resources for development of active, and reflective learning skills, for better performance in course work to become lifelong learners in their future career. The committee will also support and assist the faculty in provision and use of such resources in and outside the class room for better program delivery. The committee will work in close

association with deanship of library affairs of the University

Roles and Responsibilities

- Develop plan for establishment of learning resource center at COCP in future.
- Keep close contact with course instructors to identify the learning resources' requirements like books, softwares, or other resources and plan for their procurement through COCP and KFU administration
- Submit demand for books and journals to the Library Deanship as per faculty requirements
- Organize workshop/orientation sessions for both faculty and new students for appropriate use of KFU and Digital Saudi Library
- Provide assistance and guidance to the faculty for use of online instructional strategies like Black Board
- Keep liaison with focal persons/committee in other colleges, like COM, for use of learning resources available at their disposal
- Assist and collaborate with Department of Pharmacy Practice for development of clinical skill labs at COCP.

Members of the committee (2012-13)

- **Dr. Sahibzada Tasleem - Head of Committee**
- Dr. Sree Harsha
- Dr. Mahmood Khan
- Dr. Arshia Sharif
- Ms. Najla Aldolijan
- Salah Alahmad

6.9 Professional Development Committee**Purpose:**

The purpose of Professional Development Committee is to design professional development activities for faculty and staff at COCP level and to facilitate organized participation of COCP faculty and staff in such activities organized by KFU or other national organizations in the Kingdom in order to build the capacities and enhance the abilities of COCP personnel to achieve COCP mission, in the areas of education

and training, governance and administration, quality management and research; and clinical services and direct patient care for the community. The committee will work in liaison with Deanship of Academic Development, Deanship of Quality Assurance and other local and national organizations/institutions organizing such activities

Roles and Responsibilities:

- Assess the needs of individual COCP personnel for Professional Development Activities based upon **personal development plan** of each faculty members and data from previous annual performance evaluation record available with Dean's office
- Prepare a database regarding expertise, availability and willingness of COCP personnel to be recommended to DAD for COCP contribution in KFU professional development activities.
- Prepare a data base consisting of information about available activities, at KFU or outside, like conferences, symposia, workshops; notify, motivate, and assist COCP personnel for timely registration for the activity.
- Based upon above (4.1, 4.2, 4.3) prepare yearly plan for Professional Development for Faculty, administrative and technical staff of COCP to be forwarded to Dean for approval.
- Intimate, through Dean's office, KFU DAD, regarding COCP needs for particular program for COCP personnel
- Collaborate with Committee of Activities and Community Engagement to utilize weekly Activity Hour for Faculty Development Activities

- Initiate correspondence with, and take steps to fulfill the requirements of, National and International CPD accrediting professional bodies for securing accreditation for COCP Continuing Professional Development Activities.
- Collaborate with other health institutions of KFU and tertiary care health facilities for organization of combined activities.
- Plan for collaboration with International Institutions of higher learning for combined online Professional Development Programs
- Facilitate the process of for monetary and other compensations for faculty attending conferences, seminars, held nationally and internationally, as per KFU policies.
- Review and evaluate all Faculty Development Activities of COCP

Members of the committee (2012-13)

- **Dr. Sherif Wajeh Mansour - Head of Committee**
- Dr. Sree Harsha
- Dr. Arshia Shariff

6.10 Quality Assurance Unit

Purpose :



The purpose of quality assurance unit is to develop policies and procedures by which the college can measure its working in all domains like education, training, research, administration and services to reflect vision and mission of the college, using standards provided by National and International Accrediting Agencies. QAU, in collaboration with Deanship of Quality Assurance will oversee all the quality issues ranging from reviewing changes in study plan to administration of the programs through

teaching, training and assessment strategies within the program with required documentation, surveys, and their analysis; and also prepare annual self study report. The Unit will make recommendations based upon the analysis and ensure their implementations in the relevant area as part of dynamic and continued improvement process, towards fulfillment of the college mission. The Unit will also establish assessments/internal audit system/ policy for all of its procedures and activities.

Roles and Responsibilities

- Develop quality assurance (QA) policies and procedures (with mission, goals and objectives) for all domains of education and training, administration, research and community service, and prepare schedules for activities, and provide copies of these to all faculty and administration well in time, after approval by the Dean

- Disseminate awareness of the concept of quality assurance and its various components like filling the survey forms, among students and staff.
- Develop and periodically review performance standards within the framework provided by NCAAA, and striving to meet those standards in practice.
- Conduct self study (SSR) to determine the extent to which it meets the set performance standards in practice, and use the results of such evaluations to improve practice in education, training, research and administration.
- Prepare annual program specification and Annual program report and send recommendations to relevant departments/committees
- Plan, or respond to the plan by the University regarding Internal or external evaluation of quality standards
- Prepare Schedule for the visit of evaluators, and hold orientation session for the faculty and students for interaction with the evaluators
- Implement the recommendations resulting from internal and external evaluations within predetermined time lines
- Keep staff, students and University administration informed of the evaluation results and efforts being made to implement the recommended improvements.
- Review, summarize and enlist the accreditation requirements of NCAAA and other International accrediting agencies, prioritizing the actions needed with timeline and person/committee of responsibility
- Monitor, supervise evaluate the above from time to time, submitting report to the Dean
- Hold workshops on various quality matters like course planning, construction of aims, objectives, learning outcomes, filling of course specification and course report templates

Some Activities of QAU

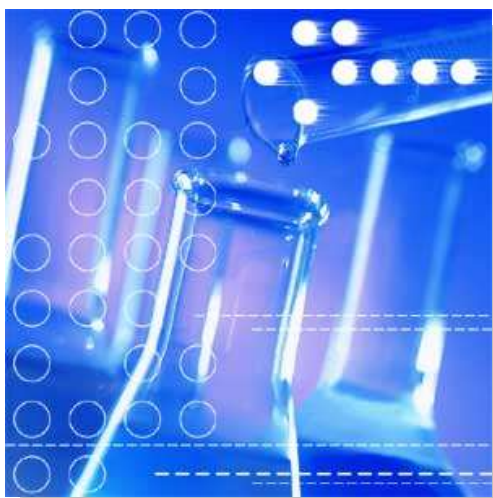
- Collecting course specifications from each course coordinator at the beginning of each semester.
- Collecting course reports from each course coordinator at the end of each semester.
- Preparing and maintaining Course file for each course updated in each semester containing all necessary documents
- Educating students regarding response to the survey forms, collecting different types of questionnaires for courses and program followed by statistical analysis and recommendations made to the concerned for improvement

Members of the committee (2012-13)

- **Dr. Ibrahim Alhaider - Head of Committee**
- Dr. Afzal haq Asif
- Dr. Sherif Wajeh Mansour
- Dr. Sahibzadah Tasleem

- Dr. Promise Emeka
- Dr. Sabah Arkawi
- Dr. Anroop Nair
- Dr. Yasir Ibrahim
- Dr. Mahesh Attimarad
- Dr. Arshia Shariff
- Dr. Tagrid Al-mahdi
- Monther Alsulthan
- Khalifa Alrajeh

6.11 Research and Laboratories Committee



Purpose:

The purpose of the committee is to promote an environment of research in the college, evident by number of internal and external research grants secured by college faculty members, number of research publications by the college faculty members in peer reviewed journal every year and active participation of students in faculty-supervised research. The committee is also responsible to ensure provision of sufficient facilities in college laboratories, both for research as well as for experimental work for Pharm D curricular

requirements.

Roles and Responsibilities

- Initiate and recommend clear policy to the Dean for actions and strategies aiming at achievement of college strategic objectives in the area of research
- Encourage faculty members to submit grant proposals to DSR of KFU and external funding organizations in the kingdom
- Update the faculty members on research seminars/symposia being held nationally and international and encourage them to participate and present their research findings in such scientific meetings
- Motivate students to participate in research activities and guide them in writing research proposal, if needed
- Plan for and support authorship and translation activities in the college.
- Assist college administration/activity committee for holding workshop/seminar
- Work up for finding out the community related health issues and recommend these to the college faculty, to be addressed in research proposals

- Design an automation system for the college research database being available to the community (both professional and general) on college website as well as in print form as "College Research Handbook"
- Encourage the faculty members to share their experience regarding research, with the community through publishing in the university magazine
- Encourage research studies related to the Islamic orientation of health sciences.
- Recommend the college administration, after discussion in the committee meeting for procurement of chemicals and instrument every year, based on the demands made by academic departments of the college for research and practical lab work for the students
- Discuss the research related issues referred by the University administration, through the Dean and provide him positive feedback, as and when asked for.

Members of the committee (2012-13)

- **Dr. Tamer Shaheta - Head of Committee**
- Dr. Mohammed Abdou
- Dr. Anroop Nair
- Dr. Mahesh Attimarad
- Dr. Omar Mohafez
- Dr. Asia Talha
- Mr. Abdulaziz Aljhani
- Mr. Fahad Almulhim
- Dr. Yousef Kazim
- Dr. Mohammed Morsi
- Dr. Majed Mohammed
- Mr. Tameem Alyahiyah
- Ms. Fatimah Alhrehri

6.12 Student Services Committee

Purpose :



The purpose of the committee is to design and implement a holistic and integrated plan for students' development beyond the classroom to provide them assistance in their personal development, and support and guide them to utilize available KFUF facilities. The committee will be responsible for organization and smooth working of all students committees for various academic and co-academic

activities, to promote leadership among students. The committee will work closely with Deanship of students affairs and committee of Activities/Academic affairs of COCP.

Roles and Responsibilities

- Help the student to maintain positive balance between academic achievement and extracurricular activities
- Organize students orientation sessions for prep and first year students, in collaboration with committee of academic Affairs
- Assist the students in overcoming the difficulties, they face during transition from secondary school culture to University life, and provide psychological support, if needed
- Assist and guide the students for utilization of health and residential facilities, as and when required.
- Assist the students for release of their scholarships through collaboration with Deanship of Students Affairs
- Develop hobbies and skills of students with active involvement of the students and optimal use of their time.
- Organize all activities (mentioned below) through active participation of students/student committees to promote leadership.
- Monitor the organization and development of students' committees, shadowing the faculty committees, according to KFU rules, regulations and policies
- Organize educational tours for students and ensure students participation.
- Motivate and facilitate the students to participate in collaborative team activities organized by KFU, like Health Club.
- Motivate and guide the students to secure membership of national and international professional organizations, like Saudi Pharmaceutical Society, Pharmacy Club, American College of Clinical Pharmacy
- Develop a clear schedule for all students' extracurricular activities, well in time and advertise accordingly
- Maintain record of all upcoming social and cultural events, in the Kingdom and outside the Kingdom, ensure students' participate, and manage necessary correspondence with the organizers and the Deanship of Student Affairs.
- Develop and implement fair, transparent and uniform policy regarding selection of students for participation of all activities and events , inside and outside the university
- Encourage students for sharing research activities of the COCP
- Arrange, organize and ensure participation of students' representatives in all cultural, social, recreational, community service and scientific activities such as symposia, scientific trips and conferences inside and outside the Kingdom of Saudi Arabia.
- Provide psychological support for those students referred by academic advisors.

- Encourage students to share their academic and co-academic experiences with the community by publishing in KFU magazine
- Examine and recommend reward for students for their contribution in COCP administration and activities

Main Activities to be organized/carried out:

Sports activities:

- Organizing class-wise teams and interclass matches
- Organize college teams and manage participation in all University games organized by the deanship of student affair and arrange representation of the college in University teams of:
 - Collective Games: like football, volleyball, basketball and handball
 - Single-Games: like swimming, athletics, table tennis, Lawn tennis and billiards
 - Competitions for Recitation from Quran, Speech competitions, Article writing competitions
- Arts activities: Drawing, Photo, Singing, poetry competitions

Events to be organized

- Welcome party for new students/White coat ceremony
- School and community visits
- Community camps/activities for awareness of Health issues, medication-use issues
- Any other National Day or Day on health issues, like Stop Smoking Day, Diabetes Day etc

Members of the committee (2012-13)

- Dr. Omar Mohafez - **Head of Committee**
- Dr. Tamer Shehata
- Dr. Mohammed Abdou
- Dr. Nashwa Zaher
- Dr. Azza Suliman
- Mr. Hassan Haidan

6.13 Recruitment Committee



Purpose:

The purpose of the recruitment committee is to assist the Dean and Deanship of Faculty Affairs of KFU, in selection, recruitment and appointment of competent available faculty and other staff in the college as per university rules and regulation, in a streamlined, organized and efficient manner, keeping in liaison with the departments, for their needs and with the Dean's office to pursue the process. The committee

will also act as main body for advertising, searching, short listing and interviewing the applicants, in addition to its main role as recommending authority.

Roles and Responsibilities:

- Initiate and recommend clear policy as part of COCP Recruitment Plan, to the Dean for selection of faculty and staff, and recommendation to the Deanship of faculty affairs, which should be in compliance with University Faculty Recruitment and Selection Guidelines.
- Collect staff and faculty requirements from different Departments with justification of the demand, before start of every semester.
- Define required qualification and specify selection criteria, within University Guidelines.
- Submit Position Vacancy Announcement to Deanship of faculty affairs after approval of the Dean for posting in University Position Vacancy Listing System on the KFU website
- Design and apply screening, evaluation and short-listing criteria
- Review applications of the candidates and seek for comments of the relevant departments for each applicants.
- Develop interview questions for various positions
- Conduct direct/online/tele-interviews of the shortlisted applicants.
- Prepare the final merit list of applicants based on pre-defined criteria, after conduct of interview
- Recommend final list to the Dean for approval and onward transmission to the KFU Deanship of Faculty Affairs for appointment
- Maintain all recruitment and selection record, including all discipline-wise record of applications and resumes for future reference.
- Prepare, maintain and regularly update data of potential applicants in each discipline, ready to join COCP at short notice

Members of the committee (2012-13)

- **Dr. Sabah Arkawi - Head of Committee**
- Dr. Sahibzada Tasleem
- Dr. Yasir Ibrahim

7. UNIVERSITY LIBRARY

About the Deanship of LIBRARY

Brief Introduction

The Deanship of Library Affairs provides different knowledge materials to the university members : students, Teaching Staff...

Besides, the library serves it's society and participate in local, national and international manifestations, especially those related to information and books exhibitions

Our Libraries follow the 'Library of Congress' Classification Scheme which divides the human knowledge in to 21 divisions, they are as follows:

Description	Code	Description	code
General	A	Fine Arts	N
Religion, Philosophy	B- BJ	Languages	P
History	C,D,E,F	Pure Sciences	Q
Geography, Maps, and Anthropology	G	Medical Sciences	R
Social Sciences	H	Agricultural Sciences	S
Political Sciences	J	Technology	T
Law	K	Military Sciences	U
Education	L	Navel Sciences	V
Music	M	Bibliography and Library Science	Z

Circulation Services

Books can be borrowed by Faculty members, Students, Staff and local community members.

Borrowers	No. of Books	Loan Period
Faculty Members	10	One month
Lecturers, Demonstrators and Graduate students.	7	One month
Students (Males & Females)	5	15 days
Staff/Employees	3	15 days

Others

3

15 days

Terms & Conditions for Non-KFU borrowers

Please contact the circulation department for details.

Renewals

Books may be renewed for up to three consecutive period unless the material required by borrower. All books should be returned by the designated date unless renewal privilege has been given.

Books may be renewed by telephone or through the library website.

Non-Circulating Materials

- Reference materials, Dictionaries, Encyclopedias etc. etc...
- Manuscripts
- Audio visual materials, Filmstrips, slides etc...
- Reserve Books
- Single copy (Arabic only)
- Copy one (Arabic only)
- Periodicals (English or Arabic)

Computer services

The Libraries at KFU provide computers for student use. The university ID is required to use this service. Printing services are provided in the computer lab located in the main floor.

Research help and consultation:

The Library at KFU offers expert guidance in all departments such as the research through the index (Horizon®), E. Library, media resources, as well as databases on compact CD.

Interlibrary loan

The central Library at king can obtain books and other materials which are not available at KFU libraries by borrowing from other library collections. We can also borrow copies of books that are currently in use by another patron. Current students, faculty member, and staff

are eligible to this service free of charge.

Vision

We strive to make our Library a unique center to offer all kinds of information sources in every field. This will foster education and Scientific Research. We are also trying to reach an unprecedented level of expertise in library work in order to meet the needs of our employees and meet the standards put forth by the University.

Goals

The direct responsibilities which lie on the shoulder of the Deanship of the Libraries is as follows:

- Provide information sources required for educational purposes and research purposes which are needed to fulfill the Universities mission. This is further accomplished by organizing, maintaining and establishing these resources.
- Provide needed assistance to those using the Library by providing them with guidance and support in order to be able to use it.
- This includes providing the users with the necessary assistance so as to meet his needs

Working Hours

Central Library	Saturday – Wednesday	8:00 Am – 9:30 Pm
	Thursday	12:00 am – 03:00 Afternoon
Girl Library	Saturday – Wednesday	8:00 Am – 05:00 Pm
	Thursday	9:00 Am – 12:00 Noon At Central Library



8. Community Engagement



One of the goals and objectives of the college of clinical pharmacy is to fulfill the social commitments. The policy of the College of Clinical Pharmacy for community services stresses the implementation of certain activities that meet the College Mission. As pharmacists, we feel committed to educate the society about proper use of drugs, herbs and medicinal plants, misuse of drugs, narcotic drugs and smoking. The community services of the college could be summarized in the following:

1. The college has sponsored a number of public lectures addressing issues of vital importance to the community.
2. Faculty members in both male and female sections participate in surveys where significant community issues are addressed.
3. Sponsoring a program for continuous education in collaboration with Al-Dawaa and Al-Nahdi Pharmacy Chains.
4. Organizing workshops in different area of specialties.
5. The College organized "The 1st Stakeholders Meeting" where 30 institutions, related to the fields of Pharmacy and Clinical Pharmacy, were invited. Requirements, Strengths and credentials of the professional graduates were discussed keeping in view the job market and needs of the country.
6. Many research projects are conducted by the college faculty members and students .
7. Participation in a program against the epidemic diseases e.g. swine flu.

8. Coordination and exchange of experiences with various institutes and other universities in Saudi Arabia e.g. King Saud University, Saudi FDA, and Saudi Council for Health Specialties.
9. Advanced public relations and interaction with the patients through arrangement of many public lectures in order to increase the health awareness of the community e. g Rational use of drugs, Health foods, Obesity, Smoking *etc.*
10. Active communication with the community through the college website, where the questions are answered by specialist faculty members and health advices is given to the individuals via e-mail.
11. Cooperation with pharmaceutical companies including Saudi Pharmaceutical Industries & Medical Appliances (SPIMACO) in Al-Qassim, Jamjoom Pharmaceutical Company and Tabook Pharmaceutical Company.
12. Good interaction with high school students to increase awareness regarding Pharmacy profession, Clinical Pharmacy, its role in community service and college admission system.
13. College has offered on its website many useful links related to the public health to serve the community.
14. The college has prepared a college handbook, which includes all the important information about the college. It is available on college Website and has been distributed to many high schools.
15. Participation in the Award of Prince Mohammed bin Fahd for excellent governmental performance in 2007, 2008, 2009 and 2010.
16. In light of the standards set by American Council for pharmacy education (ACPE), College plans to get its accreditation to keep pace with the latest developments in clinical pharmacy. Any new developments in this regard are recorded and compiled. These are printed and distributed to faculty members.
17. The renewal of the College membership in Scientific Society of Colleges of Pharmacy in the Arab world .
18. Cooperation with the large scientific institutes e.g. the King Abdulaziz City for Science and Technology through submitting and reviewing of several research projects .
19. Cooperation with emergency administration in Al-Hasa and the Department of Safety and Security in the KFU in the implementation of a training plan for emergency evacuation to ensure the safety alarms and evacuation training on how to secure all employees of the college.

9. Dealing with Appeals from KFU Staff

9.1 Appeals made by Academic Staff:

An academic staff member has the right of appeal against a penalty imposed on him or her as follows:

- 1- The appeal is submitted to the University President within 30 days from the date of informing him or her of the penalty.
- 2- In case of receiving the appeal before the end of the aforementioned 30 days, the University President refers the case to the Disciplinary committee to reconsider the penalty.
- 3- If the committee reaches the same decision, the case is reconsidered in the University Council to take the final decision.
- 4- The University Council decision is irreversible.
- 5- These procedures are applied with both Saudi and non-Saudi staff, in accordance with article (44) of the regulations on recruiting non-Saudi staff in Saudi Universities which stipulate that the disciplinary measures of Saudi staff are also applied with the contract academic staff.

9.2 Appeals made by Non-Academic Staff and Technicians:

If the employee wants to appeal against a penalty on him/her, s/he may follow the following steps:

- 1- The appeal must be submitted to the University President within 60 days from the date of penalty decision.
- 2- University President refers the appeal to the Dept. to study the causes of the appeal and decide to what extent the violation deserves that penalty.
- 3- After studying the appeal, the Legal Dept. presents a comprehensive report to the University President about the case, whether penalty is deserved or not, and reduction of penalty if possible.
- 4- Then the University President refers the matter to the standing committee on administrative and technical violations to reconsider the penalty.
- 5- If the committee upholds the decision, University President considers the appeal in the light of Legal Dept. recommendations regarding deservedness of penalty.

10. GENERAL INFORMATION FOR FACULTY

General

All employees of the University are employees of the Saudi Arabian Government. Foreign faculty contracts are executed between the University and the individual in the role of a foreign “contractor”, and all such employees are subject to the general laws of the Kingdom.

Faculty Ranks

The titles that are used to describe faculty members in the University are as follows. Generally, the faculty members are required to perform duties involving teaching, research and University / community services.

Professorial Ranks

All professorial rank faculty members hold a PhD degree or equivalent. The titles used to describe faculty members of the University are: Assistant Professor, Associate Professor, and Professor. Titles used to describe faculty members who apply or are invited to join the University on a temporary basis: are (I) Adjunct Professor, who works on a part-time basis or for a part of an academic year, and (ii) Visiting Professor, who by mutual agreement wishes to associate himself with the university on a full-time basis for a specified period.

Non-Professorial Ranks

The non-professorial ranks in the University are:

- (I) Graduate Assistant / Research Assistant, who holds a B.S. degree,
- (ii) Lecturer, who holds a Master Degree.

Faculty Appointment

The University has a comprehensive review procedure to maintain and build up its excellent faculty. Usually, an expatriate faculty member is appointed on a contractual basis. Contracting procedures are designed to obtain a pool of highly qualified applicants in order to maintain the excellence and high standards of the University. When considering a contract for an expatriate faculty member, the following general procedures are practiced to evaluate the candidate's file: (i) evaluating the applicant's academic and professional experience thoroughly by the concerned academic department, college, or RI center councils, (ii) interviewing the applicant by university representative(s), (iii) recommending or rejecting the application, and (iv) sending an offer of employment or a decline letter. The final decision to offer the candidate a contract is made by the Rector of the University on the basis of councils' recommendations and comments.

Contract Renewal

It is the intention of the University to encourage the faculty to maintain continuity of services. Therefore, the appointment and contract is, usually, renewed automatically on a one-year basis, depending on departmental evaluation and recommendations.

Otherwise, either party should notify the other in writing of the desire to terminate the contract two months before the expiration date of the contract. In the event of termination of contract, all accrued salary is paid on departure from the University.

Work Loads and Responsibilities

To maintain high quality of instruction, research and service, a faculty member is expected to spend up to 40 hours per week in executing University duties. However, he has the freedom to distribute these hours for the purpose of teaching, research development and creative work, office attendance, and committee services.

In addition, a professorial rank faculty member is expected to accept maximum instructional load during the regular semesters. The distribution of loads are (i) Ten class sessions per week per semester for a Professor, (ii) Twelve class sessions per week per semester for an Associate Professor, and (iii) Fourteen class sessions per week per semester for an Assistant Professor. However, the work load may be reduced where a faculty member has other administrative responsibilities, special assignments, approved research, lab development, development of new course materials, and supervision of theses, senior projects, summer training and co-op students.

A non-professorial rank faculty member is expected to accept maximum teaching load of about eighteen class sessions per week during the regular semesters. However, the work load may be reduced where he has other special assignments or learning duties.

End of Employment

Both the faculty member and the University have the right to initiate the act of termination of employment. Forms of this action are: resignation, retirement, and contract termination.

Procedures linked to each case are displayed in the following subsections.

Resignation

Resignation is an action by which a faculty member terminates his academic employment voluntarily. A faculty member must follow these procedures in order to resign from the University:

- The faculty member addresses a resignation letter to the head of his academic department or RI center.

- The head of the department or RI center forwards the letter to the college dean or a higher authority together with his recommendations and comments.
- The Rector officially declares the acceptance or temporary delay of the resignation.

Contract Termination

Upon recommendations of the department, college, and/or higher administration, a contracted faculty member is granted an automatic contract renewal one year. If either party requests otherwise, a contract termination may be effective at an agreed-upon date. Reasons for contract termination are acceptance of resignation, cancellation of the academic position, job disqualification, and unjustified absences, involvement in a crime or severe rule violation, disciplinary dismissal, permanent sickness, or death.

Faculties Responsibilities and Duties

Teaching and Related Activities

Teaching Activities

The University considers the faculty's role in teaching and educational engagements as primary and essential. A faculty member, as a teacher, shall discharge his teaching responsibilities by presenting materials accurately and effectively in accordance with the approved course objectives and course outlines. He should make every effort to encourage students to learn and perform better, and in this respect, he shall adopt teaching methods. He should convey at the beginning of the semester the instructional objectives of each course and see that the objectives are fulfilled through course-related activities. Apart from the classroom teaching assignments, a teacher has the responsibility to develop a relationship with students in which he should act as an intellectual guide, counselor, advisor and mentor.

Assignment of Instructional Responsibilities

Normally, the department chairman assigns teaching load, academic advising, and other teaching related tasks to the faculty members, all of which vary from semester to semester depending on the departmental requirements and the policy of the department.

Teaching and Related Activities

Teaching Load

Teaching load for a full-time teaching instructor in a regular semester may vary from semester to semester depending upon the requirements of the department and the number of available staff. Primarily, teaching load includes teaching preparatory year, undergraduate and graduate courses. For faculty members holding professorial ranks, the maximum teaching load in a semester is 14 contact sessions p/w. Additional load, over and above the normal

teaching load, would result from supervision of co-op reports, senior projects and summer work reports and coordination of multi-section courses if appointed as a course coordinator. The department may reduce the course load of a member who is assigned a special duty by the department, the College or by the University. Up to 40 hours p/w, faculty members are expected to be available for professional duties.

Curriculum Development

Each faculty member should have a continuing commitment to the development of subjects in his field. He should review and update the course contents, as and when necessary, to reflect new developments and advances.

Class Management

Course Scheduling

All on-campus credit courses are scheduled by the Registrar's Office under the Deanship of Admissions & Registration. The request for a change in the scheduled class time can be made only if there is conflict and/or a strong justification. The request must be filed with the Registrar's office through the chairman of the department, citing the reasons.

Hours of Instruction and Conduct of Classes

The duration of each lecture and laboratory session is indicated by the Registrar's office. An instructor is responsible to the department offering the course and to the college dean for orderly and competent conduct of classes and all teaching activities. Faculty members are expected to start and finish their scheduled classes promptly on time.

Classroom Supplies

Each classroom is fitted with a white board, an overhead projector, a screen, writing chalks and dusters. Colored chalks, transparencies and other classroom supplies are available from the academic departments.

Teaching and Related Activities

A faculty member is also expected to develop new courses to include new advances and topical issues, which would strengthen the academic curricula. He should work in collaboration with other faculty members in his field to seek continuous updating and improvement of curricula.

Office Hours

Instructors are expected to schedule and keep a reasonable number of weekly office hours for student conferences and consultations. Office hours should be scheduled at times convenient to students. The minimum number of office hours is normally specified by the department.

The academic departments require that the instructors post their scheduled office hours for the convenience of students and provide the department with a copy of their posted office hours.

Class Management

Class Roster

It is the responsibility of the instructor to ensure that all names of students who are officially admitted to the course are duly registered in the official class roster supplied by the Deanship of Admissions & Registration. The official class list is also posted on-line on the website of the Deanship, access to which can be made by the instructor.

Record of Class Attendance

A regular student is expected to attend all classes and laboratory sessions. To discourage class absenteeism of students, the University enforces a policy on class attendance in which a regular student will not be allowed to continue in a course and take the final examination, if his unexcused absences exceed 20% of the lecture and laboratory sessions scheduled for the course or, if his attendance, allowing for both excused and unexcused absences, is less than 66.7% of the scheduled class and laboratory sessions. A course instructor should therefore keep a record of class and laboratory attendances of all students. A grade of DN in a course is given, if the student's unexcused absences are more than 20% of the lecture and laboratory sessions scheduled for the course.

Class Management

Cancellation of Classes and Make-up Classes

An instructor may cancel a class due to sickness, emergency leave, official business trip or assignment or any other unforeseen, unavoidable events. In such cases, he must inform the department of the cancellation with justification and also notify the class. For all cancelled classes, make-up classes must be scheduled to complete the course coverage. It is the responsibility of the instructor to make arrangements for the extra class meetings at a suitable time free of conflict with student's academic engagements. The department should be informed of the scheduling of all make-up classes.

Textbooks and Course Materials

Wherever necessary, a scheduled course has a designated textbook, which has been adopted by the department. As all students registered in a course will have a copy of this book, an instructor may freely refer to the textbook as and when necessary. The adoption of a textbook does not restrict the instructor to use this book exclusively in his teaching and therefore he

may freely adopt other references to supplement teaching material, which may include his own prepared lecture notes.

Class Management

Where there is no designated textbook, an instructor must rely on his own collection of materials and whenever necessary and appropriate, he should distribute the course materials to the students in his class. An instructor can propose a new textbook, either as a replacement for an existing one or as a new addition for a course where there is no designated textbook, by following the University's procedure, which requires approval of the department, the college and the University.

Course Portfolio

The University maintains a policy on course portfolio, according to which an instructor is required to prepare a course file with necessary documentation and submit it to the department on completion of the course. The course file should contain materials in accordance with the department's policy and may include syllabus, instructor's report, and copies of homework, projects and examinations and samples of students' work.

Faculty Benefits

General

The main incentives offered to expatriate faculty members are spelled out clearly in the "Employment Contract for Non-Saudi Faculty". In addition, eligibility to receive other incentives is governed by the regulations and procedures presented by the university.

Earned Benefits and Compensations

Earned benefits and compensations are the direct pay back that a faculty member gains against executing and completing different official assignments of the University.

Base Salaries and Merit Increments

Monthly base salaries of expatriate faculty members are defined on the basis of the established University pay scales in accordance with their academic qualifications and professional experience. The merit increments for expatriate faculty members are considered at their contract renewals. The percentage of increment applicable to the evaluation grade of their overall performance, as defined by the Faculty Affairs Committee, is calculated on their salaries drawn prior to the renewal of their contracts.

Summer Compensation

A faculty member is entitled to receive this type of compensation if requested to execute a summer assignment. Summer duties include summer session teaching and other related

assignment. A faculty member who participates in a summer assignment, for which he is compensated, loses his right to be eligible for summer vacation. In general, the summer compensation does not exceed the amount of the individual's two-month salary.

Short Course Compensation

The University encourages its faculty members to participate in offering a variety of short courses. The University compensates the faculty member for short course coordination, marketing, and teaching. The compensation amount is calculated on the basis of the faculty member's academic rank (i.e. professorial or non-professorial) and number of hours spent in coordination and/or teaching.

Retirement and End of Service Benefits

An expatriate faculty member receives end of service benefit(termination benefit) equivalent to a half month of basic salary for each full year of service upon completion of two full years of service with the University. However, upon completion of five years of service consecutively, the faculty member is entitled to a termination or end of service benefit equivalent to one month of his basic salary for each year of service based on his basic salary at the time he leaves the University. The accumulated amount of termination benefit, not exceeding SR 100,000, is payable at final termination of the contract.

Transportation Allowance

A faculty member is entitled to receive a fixed monthly transportation allowance against local transportation expenses. This benefit is considered on the basis of his academic rank.

Indirect Benefits

Repatriation Benefits

At the start of contract, the University provides one-way air tickets to the expatriate faculty member and his eligible dependents (wife and two children) from their official point of origin to Dammam by the most direct routing through Saudi Arabian Airlines (SAUDIA). The maximum number of tickets must not exceed four, if needed, and each child's age should not exceed 18 years. In addition, the University provides similar round-trip air tickets to the expatriate faculty member and his eligible dependents from Dammam to his contract point of origin and back every year at the due time of his annual vacation. One-way tickets are also supplied to the expatriate faculty member and his family for final repatriation upon final completion of his contract or termination of employment.

Health Care

The Medical Center provides free basic health and dental care to all faculty members and their families. Laboratory, x-ray, vaccination, pharmacy, emergency and treatment room services are available.

Indirect Benefits

In case of serious medical situation or accident, the University Medical Center usually issues referral letters to faculty members or any of their authorized dependents to be examined and treated in a neighborhood specialized Government hospital. Optional medical insurance plans are available at cost.

Holidays and Vacations

All faculty members in the University are eligible for the following vacations and holidays:

- Weekends, which are Thursdays and Fridays in Saudi Arabia.
- Official holidays, which are EidAl-Fitr and EidAl-Adha holidays. Government media, upon the instruction of the Council of Ministers, announce the official beginning and end of these two holidays.
- Annual vacation of a maximum of 60 days if a faculty member does not have any official summer assignment. The Dean of Faculty & Personnel Affairs, upon the Rector's approval, announces the official start and end of the annual vacation.

School Tuition fees for dependant children

The University will cover the educational expenses of to the non Arabic spoken faculty Members son's, as well as Sons of Arabic faculty members studying in International schools and not fluent in Arabic as a language which allow them to continue their studies in government schools, according to the following conditions:

Faculty Benefits

1. They are not accepted in government schools.
2. Their age must not be under six, and not exceeding eight years old.
3. Their schools must be inside the Kingdom of Saudi Arabia.
4. The University will cover the educational expenses of a maximum of four son's with a maximum of (SR 25000) for each year.

Sons Tuition

- First son Yearly tuition fees with maximum of (SR 10,000)
- Second son Yearly tuition fees with maximum of (SR 7,500)
- Third Son Yearly tuition fees with maximum of (SR 5,000)

- Fourth son Yearly tuition fees with maximum of (SR 2,500)

The expenses of participation in scientific conferences

According to regulations at King Faisal University, it was decided to allow non-Saudi faculty members to participate in the scientific conferences once a year, according to the following conditions:

1. Approval of the board of the department and the College
5. To be a member of the teaching staff for at least one year, with a contract renewal for the next year, and gaining an excellence rating in job performance evaluation report during the previous years.
6. To propose an accepted paper on behalf of University. And the conference must be international arbitrator.

Academic Support Units

Library Opening Hours

During the academic term, the main library operates from Saturday to Wednesday from 08:00 AM to 02:00 PM., and 05:00 PM to 09:00 PM and Thursday, 08:00 AM to 02:00 PM.

Borrowing Library Materials

All KFU faculty members can borrow library materials using the KFU ID card. A faculty member may borrow up to 25 library books for a period of one semester. Bound and unbound periodicals can also be borrowed by faculty members, but for a very short period. Renewal of the borrowed materials can be done by submitting a renewal request to avoid the fine for over-due materials.

Electronic Resources

The library provides access to a significant number of electronic resources, electronic journals and electronic encyclopedias.

Information Technology Center

The Information Technology Center (ITC) is the primary computing facility at KFU. It provides computing support for education, research, and management at the University.

ITC Mission

ITC is committed to providing high-quality information services that foster a productive academic and research environment for students, faculty, staff, and management at KFU.

Internet and E-mail

All faculty and students at KFU are provided with internet and e-mail services. A faculty

member needs a login ID and password for these services, which can be obtained from the ITC. The use of these services is expected to be in compliance with the applicable rules and regulations. Faculty members can also post their course or personal web pages. Such services can be obtained by contacting the ITC. The network is also enhanced to provide wireless LAN connectivity to selected buildings across the campus. Dial-in facilities are also available.

User Support

The ITC staff provides a wide range of support services to faculty members. A help-desk to answer queries is operated during daytime office hours. It also provides assistance to faculty members regarding hardware and software installation and support. In addition, ITC offers frequent short courses, tutorials, awareness seminars and workshops on PC applications as well as general user-orientation of university computing facilities.

On-Campus General Services

Campus Facilities

The University buildings are equipped with all academic needs and a variety of special purpose facilities including computer terminals and closed circuit television outlets. All University buildings are centrally air-conditioned.

The facilities available include the academic buildings that comprise laboratories, lecture halls, classrooms, seminar rooms, teaching and research laboratories and offices. Other buildings include the Research Institute, the Library, the Information Technology Center, the Administration Building, and the Faculty & Student Center, which includes the Faculty Dining Hall, the Post Office, Stationery shop, the Medical Center and a Mosque. The sporting facilities include a Stadium, a Gymnasium, and playing fields for inter-collegiate and intramural sports. In addition there is the Transportation Center, and the Garage for maintenance of University vehicles.

Food Services

Meals of both Arabic and Western menus are available at low prices to the members of the University community in the restaurants of the Food Services Department. In addition, coffee shops are located in several academic/administration buildings.

Administrative Services

The Department of Administrative Affairs offers a wide range of administrative services to the faculty personnel, which are divided into several units, and their functions are:

- The General Services unit deals with the fax facility and telephone billing system. Faculty can send personal faxes through this unit on the same rate as the telephone bills.
- Smart Card Section issues smart cards to the new faculties/staff on their arrival after receiving a notification from the Deanship of Faculty & Personnel Affairs.
- The Mail Center deals with all incoming and outgoing mail, cables, etc. Each faculty member is assigned a mailbox to use during the period of his service. The faculty can also direct their mail to their academic departments.
- The Transportation unit deals with the transport needs of the University community. Additionally, shuttle bus service is available in the weekend from the Campus to Al-Khobar and Dammam shopping areas. Faculty and their families benefit from this service.

Medical Services

The University operates a Medical Center on campus as an outpatient clinic with Internist, Pediatricians, Dentists, General Practitioners, Female Gynecologist, Pharmacists, and Nurses, an X-ray Ultrasonography scanning facility and an emergency unit. A well-equipped laboratory is available, which performs most hematological, bacteriological, serological, hormonal assays and biochemistry tests. The Medical Center also operates ENT, Eye and Dental Clinics equipped with the basic facilities. The Medical Center also issues medical reports for sick leave. Vaccinations for children are also available. The services of the Medical Center are available without charge to all University faculty, staff, their families and students. Prescribed medicines are available at the KFU Pharmacy.

Telecommunication Services

The University services cover the cost of local telephone calls. However, the faculty must pay for all long distance calls. Internet facilities provided by the University can be accessed in offices.

Educational Technologies

The services offered by the Educational Technologies Department are given below:

- Smart Classrooms. High-tech smart classrooms already set and ready to use in different KFU buildings. Each smart classroom contains a personal computer (PC), computer screen, a reading-desk, large screen, a ceiling mounted overhead projector that can be connected to PC LAN, or laptop. The instructor can show his material from the PC, laptop, floppy disk, flash memory, DVD, or CD.

- Video Conferencing. Services are available between academic buildings. The department can provide more services if needed, provided that it is given enough time for preparation. Video conferences outside KFU are going to be available soon.
- Audiovisual Services. These include auditorium reservation; maintenance of classroom projectors and screens, video projectors, TVs and VCRs; overhead projectors; audio recordings; professional public address systems on the important official occasions, graduation ceremonies in the Stadium & Maidan, auditoriums, or student social activities such as: stage dramas, lectures, conferences and exhibitions, etc.

KFU Press

The KFU press provides production services to the campus community. These includes quality printing in black & white and multi-color in the form of academic books, undergraduate & graduate bulletins, department handbooks and brochures, annual reports and research papers, university stationery, calendars and registration schedules, announcements and forms, periodicals, miscellaneous academic publications pertaining to conferences & exhibitions, short courses, graduation ceremonies and student activities issuance of business cards, various sizes of banners and posters, printing on gifts and presentation items such as tee-shirts, plaques, name plates & signboards for all the University Departments. In addition to the above, KFU Press services are extended to all Community Colleges under KFU for their activities.

Security and Safety

Security and safety on the whole campus is the responsibility of the Security & Safety Department. The functions of this department include the following activities:

- Maintaining safety and security of the University community and its properties by
- providing protection 24 hours a day.

Issuing stickers for faculty and students' cars in order to control road security in

- the campus and allow the cars to be parked in proper parking areas at the academic buildings and in residential areas. The stickers must be returned to the Security and Safety Department if the car is sold.
- Enforcing the traffic regulations on the campus. The maximum speed allowed on campus roads is 50 km/hr. Only certain parking areas are allocated to the faculty members and they are labeled. A fine must be paid for any violation of the traffic

regulations, such as speeding, seat belt not being fastened, parking violations, non-observance of signals, etc.

- Inspecting the safety of fire extinguishing devices located in the academic buildings.

Sports Facilities

Sports and Recreation facilities are available in a large area ideally situated on the main campus. The mid campus area has a swimming pool, indoor student shower and changing facilities, soccer field, tennis court, athletic track, basketball, volley ball courts, squash court sand a weight training room. Modern indoor physical education facilities include areas for basketball, volleyball, gymnastics, handball, squash, table tennis, weight training and many other sports activities. Shower and changing rooms are adjacent to the gymnasium

Web Services

The following web services are provided to students, faculty, administrators and various university departments through the Deanship of Admissions and Registration website

- Online Web general services:

- Schedule of Classes
- Schedule of Final Examinations
- Academic Calendar
- Early Registration/Registration procedure
- Registration Schedule and events
- Important announcements
- Important Dates
- Information about Registrar Office

- Online Web services for Students:

- Early registration and Registration
- Registration Confirmation
- Registration Status
- Student Transcript
- Student Transfer Credits Transcript
- Student Schedule
- Graduation Declaration
- Dropping of course with 'W' grade
- Dropping of course without permanent record



- Online Web services for Faculty:

- Teaching Schedule
- Class Rosters
- Grade Confirmation Submissions
- List of students with W/DN grades

Other On-Campus Services

The following services are also available within the campus facilities:

- The University Mail Center takes care of all types of mail (normal and express mail) services. The Mail Center is located in a central area of the academic buildings.
- The KFU branch of Riyadh Bank is located closely to the University Medical center to serve the University community. Automated teller machines (ATMs) are installed at various locations on campus.

Telephone dialing code

Hofuf, Saudi Arabia

The country code is: 966

The city code is: 3



CONFLICT OF INTEREST POLICY AND PROCEDURE

Preamble: - College of clinical Pharmacy, in line with its mission of commitment to the community by providing excellence in Pharmacy education and training, research and continuing professional development, aims at improving patient-centered care. In providing training, research and services, a potential for conflict of interest is likely to occur that might compromise objectivity of faculty/staff and thereby affecting their performance and college interest. In meeting their obligated responsibilities, COCP expects all employees to act responsibly with honesty, integrity and with the best interest of the college while performing their duties. Faculty/staff should abide by the high professionals standards in research and comport themselves with decorum. Therefore, the purpose of this policy is to identify areas of potential conflict of interest, manage, reduce and eliminate such conflicts should they arise. Faculty/Staff must disclose conflict of interest where they exist. This policy will be made available to all new faculty/staff that has recently joined COCP and also at COCP website.

Definition: - For the purpose of this policy, Conflict of interest will be defined as any relationship that may inappropriately compromise or bias a faculty/staff member's judgment in the discharge of their duties.

Disclosures: - When a faculty/staff is confronted with a potential conflict of interest, COCP expect them to disclose it in writing (using a reported format as provided by the COCP) to the Dean or Dean- appointee. If Dean- appointee is responsible for processing and compiling disclosures, a comprehensive report of all disclosures will be forwarded to the Dean at the end of every session.

Disclosures include but not limited to:

1. Faculty/Staff must not use their official position or influence to gain advantage for self or relatives or acquaintances at the expense of the college.
2. Faculty/Staff taking part in decisions where their own interest (financial or otherwise) are or affected must disclose.
3. Faculty/Staff taking part in extracurricular activities for another employer for additional pay must disclose.
4. Faculty/Staff taking part taking part in decisions and deliberations where a family member could be affected or otherwise must disclose.
5. Faculty/Staff must not ask for or accept any incentives or gifts that may affect their objectivity in carrying out COCP responsibilities.
6. Faculty/Staff who have financial interest in an organisation must disclose and not allow these interests to adversely affect his commitment to the college.
7. Faculty/Staff must not enter into any relationship that will affect commitment to COCP mission and goals.

8. Faculty/Staff who receive grants from outside the university should not promote specific products but results should published in scientific journal and it is the property of the college.

Procedure for Evaluating Disclosures.

The Dean or his appointee shall oversee all disclosed potential conflict of interest. During the process of evaluation, faculty/staff disclosing might be asked to provide additional information or documentation. Consultation might be sought from the Academic Affairs committee of college council. If it is established that a potential conflict of interest exists (e.g., purchase of good/services or research project), The Dean or his appointee will initiate a management plan to minimize, eliminate or manage in consultation with the faculty/staff.

In cases of disputes

In the event the faculty /Staff member is not satisfied with the decision taken with respect to the potential conflict of interest disclosed, they will have the right to ask for a review. If however they are still not satisfied, the matter will be dealt with in accordance the University policy and procedure on handling disputes.

Policy Review and Revision

The Dean or his appointee shall regularly review all disclosures, decisions and actions taken to ensure consistency within the college framework as provided by its mission in accordance with the University rules and regulations.



FACULTY ACTIVITIES DURING THE YEAR 2012-2013

The committee organized a training workshop entitled “Preceptor training workshop” on Wednesday; 21/11/2012 at 10:30 am, delivered by Dr. Yasser Ibrahim, coordinator of Pharmacy Practices Department and under the chairmanship of the Dean Dr. Ibrahim Al-Haider. Faculty and preceptors as well as alumni attended the workshop and at the end of workshop participation certificates were distributed.

Community engagement and professional training lectures.

The committee organized numerous lectures on health issues with the support of faculty members. This was in accordance with COCPs’ vision and mission in community engagement and professional training.

Lecture entitled “Osteoporosis”

Dr. Sherif Wagih delivered a lecture entitled “Osteoporosis” in workshop organized by health club, King Faisal University in coordination with the Students Affairs Deanship. This was held on December 25, 2012.

Lecture entitled “Medical Terminology”

Dr. Mohamed Morsy delivered a lecture entitled "Medical Terminology" in workshop organized by Administration of training, research and continuous education, King Fahd Hospital, Al-Ahsa, Saudi Arabia. This was held on December 5, 2012.

Lecture entitled “the effects of psychiatric drugs on neurotransmitters

Dr. Mohammad Zaitoun delivered a lecture entitled "the effects of psychiatric drugs on neurotransmitters" in the "psychiatric drugs" workshop organized by the Psychiatric Hospital in collaboration with the Pharmaceutical Care department of health affairs directorate-ahsa. This was held on the period of 2-4/3/1434 H.

Lecture entitled “Medical Rumors”

Dr. Nashwa Zaher delivered a lecture entitled “Medical Rumors” in workshop organized by health club, King Faisal University in coordination with the Students Affairs Deanship. This was held on 26/12/ 2012.

Lecture entitled “Breast cancer; Protection, Early detection and management”

Dr. Nashwa Zaher delivered a lecture entitled “Breast cancer; Protection, Early detection and management” in workshop organized by Committee of Scientific Meetings, female section, King Faisal University. This was held on 20/3/2012 in Hall 3061,building (27).

Lecture entitled “Total Parenteral Nutrition”

Dr. Maamon Abu Jaber delivered a lecture entitled “Total Parenteral Nutrition” in workshop organized by Administration of Training, research and continuous education, King Fahd Hospital, Al-Ahsa. This was held on 1/5/2013.

Lecture entitled “Program Learning Outcomes”

Dr. Nashwa Zaher delivered a lecture entitled “Program Learning Outcomes” in workshop organized by COCP, which was held on Wednesday 8/5/2013 at 12.00 pm. The lecture focused on how to write Program LOs and the difference between modules LOS.

Lecture entitled “Orientation Lecture on Student Research”

Dr. Arshia Shariff delivered a lecture entitled “Orientation Lecture on Student Research” in workshop organized by COCP. This was held on Tuesday 30/4/2013 at 12.00 pm. This lecture was delivered with an aim to introduce students to the goals and objectives of the committees and also to motivate them towards starting research at an early stage of student life.

COCP participated in third international conference on quality assurance in postsecondary education titled "Learning Outcomes and Quality of Learning and Teaching in Postsecondary Education" ,which was organized by University of Dammam in cooperation with National Commission for Academic Accreditation & Assessment Standards. The conference was held at Sheraton Hotel, Dammam, from 27-29 April 2013. The college was represented by Dr. Sherif Wageeh Mansour and Dr. Hany Ezzat Khalil.

COCP participated in the ESMO Summit Saudi Arabia:

COCP participated in the ESMO Summit Saudi Arabia organized by the European Society of Medical Oncology and King Fahad specialized hospital. The summit was held in Sheraton-Dammam from 6-7th of March 2013. The summit discussed the most recent modalities of breast, lung and colon cancers management and reduction of side effects of chemotherapy and radiotherapy. The college was represented by Dr. Mohamed Aly Morsy and Dr. Mohammad Fathullah Zaitoun.

In the framework of the activities carried out by the faculty members and students, the college participated in the sixth symposium of Psychiatric Pharmacy held in Al-Amal complex for Mental Health in Riyadh on Wednesday, 20 Jumada II 1434 the first of May 2013 ,Dr. Mohammad Zaitoun a lecturer in the of Pharmacy Practice gave a lecture entitled" drug development in psychiatry : Opportunities and Challenges ".The Symposium was also attended by a group of college female students; Sarah Al-amer, Faten alhomaidan, Tarfah alhobail, Somia al-khaoaga and Hawara alkhltet under the supervision of Dr. Nashwa Zaher and Mrs. Fatima alqarni.

In its three scientific session, the symposium discussed side effects of psychiatric drugs ,how to improve psychiatric patients' adherence to drugs, the latest updates in management of depression, the opportunities and challenges in the process of development of new psychiatric drugs and the problem of psychiatric drugs shortages: causes and solutions.

COCP participated in the Second Scientific Meeting on Medication Safety, King Saud University:

A group of college faculty and students attended the Second Scientific Meeting on Medication Safety organized by the Medication Safety Research Chair - King Saud University which was held on faislyah hotel from 26-27th February 2013, program of activities included:

Day 1:

- Safety of herbal products in pregnancy and lactation: a cross sectional market study (Mohammad F. Zaitoun and Ahmad A. Alamer) Oral.

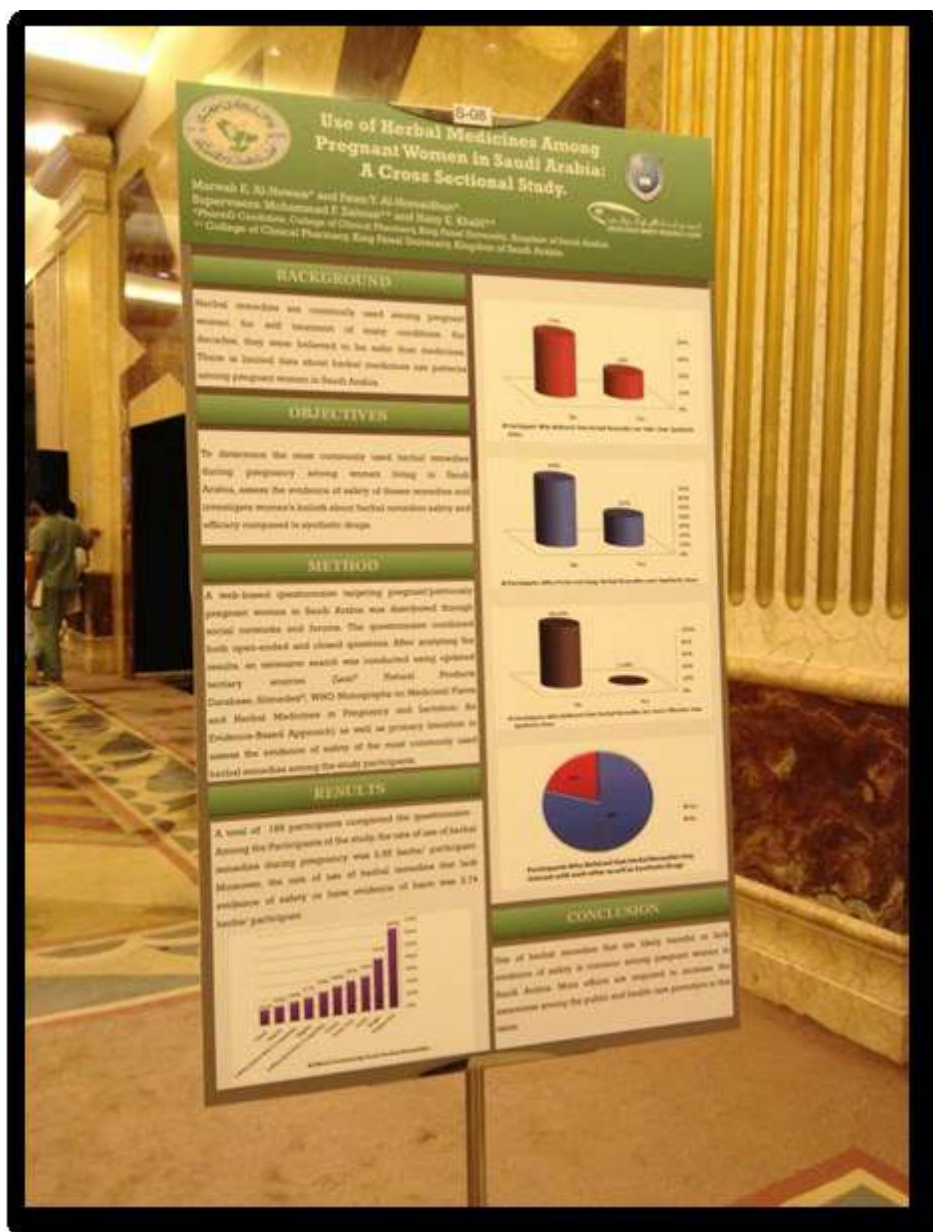
- Impact of Hospital Pharmacists' Interventions on Prevention of Prescribing Errors in a Saudi Tertiary Hospital. (Niaz Al –Somai, Mahmoud El Rggal and Mohammad Zaitoun) Poster. A collaborative work with King Abdullah Medical City and Umm AlQura Univerisity, Makkah

Day 2:

- Factors Apprehending Adverse Drug Reactions Reporting In Community Pharmacy Setting Eastern Region, Alahsa, Saudi Arabia (Tahir M Khan) Oral - Use of Herbal Medicines among breastfeeding women in Saudi Arabia: A Cross Sectional Study. (Mohammad F. Zaitoun, Fatimah M. Al-Haddad and Hany Ezzat Khalil) Poster

- Use of Herbal Medicines among Pregnant Women in Saudi Arabia: A Cross Sectional Study. (Mohammad F. Zaitoun, Marwah E. Al-Nowis, Faten Y. Alhomaidan and Hany Ezzat Khalil) Poster.





COCP participated in the first exhibition of quality assurance offices in female sections for the academic year 1433/1434 under supervision of Dr. Taghrid El-Mahdy, the college coordinator of quality assurance in female section. Student Council of Quality Assurance in the college also took part in this event: Fatma Aldoghan, Mariam Alnaim, Alanoud Altaysan and Faten Alhomaidan. They presented different quality assurance practices established in the college to the visitors, such as course evaluation filling sessions as well as booklets for NCAAA and CCAPP accreditation. Ms. Anwar Al-Bashir and Ms. Hagar Al-Gegheman participated in the preparation for this exhibition. At the end of the exhibition the college participants were awarded appreciation certificates from the quality assurance and academic accreditation deanship. The exhibition was held on Monday 22/4/2013.



A field visit to the public schools in Al-Hasa area for measuring blood pressure:

COCP organized a visit to a number of public schools in Al Ahsa as part of awareness programs for measuring blood pressure of students for the academic year 1433/1434 AH in order to achieve the leadership in the community partnership.

**Social activities.**

The College organized a recreational touristic trip for the male faculties to Al Oqeer beach on Thursday 28-2-2013. The activity started with breakfast at the university restaurant with the dean and also ended with a lunch.

Academic Calendar – 2013-14
College of Clinical Pharmacy
September 2013 – June 2014

Start of confirmation	Registration	11-Aug-13
End of confirmation	Registration	18-Aug-13
Orientation for new students		25-Aug-13
	1	1-Sep-13
	2	8-Sep-13
	3	15-Sep-13
23 Sep -2013 – National Day	4	22-Sep-13
	5	29-Sep-13
	6	6-Oct-13
10 to 20 Oct 2013	Vacation	13-Oct-13
	7	20-Oct-13
	8	27-Oct-13
Mid term exam	9	3-Nov-13
Mid term exam	10	10-Nov-13
Mid term exam	11	17-Nov-13
	12	24-Nov-13
	13	1-Dec-13
Start of early registration for 2nd sem	14	8-Dec-13
	15	15-Dec-13
Practical Exam	16	22-Dec-13
	Study Leave	29-Dec-13
	Final Exam	5-Jan-14
	Final Exam	12-Jan-14
19-1-2014 last day of entering marks on banner	Vacation	19-Jan-14
20 to 23 confirmation of registration	1	26-Jan-14
	2	2-Feb-14
	3	9-Feb-14
	4	16-Feb-14
	5	23-Feb-14
	6	2-Mar-14
	7	9-Mar-14
Mid term exam	8	16-Mar-14
Mid Sem Vacation	Vacation	23-Mar-14
Mid term exam	9	30-Mar-14
Start of early registration for 1st sem	10	6-Apr-14
	11	13-Apr-14
	12	20-Apr-14
	13	27-Apr-14
	14	4-May-14
Practical Exam	15	11-May-14
	16	18-May-14
	Final Exam	25-May-14
	Final Exam	1-Jun-14
	Vacation	8-Jun-14
	Vacation	15-Jun-14
	Vacation	22-Jun-14
	Vacation	29-Jun-14
	Vacation	6-Jul-14
	Vacation	13-Jul-14
	Vacation	20-Jul-14
	Vacation	27-Jul-14
	Vacation	3-Aug-14
	Vacation	10-Aug-14
		17-Aug-14
		24-Aug-14
		31-Aug-14
Start of next academic year	→	

Summer Course

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