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

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**College of Clinical Pharmacy**  
**Faculty Handbook**

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

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**Ministry of Higher Education**  
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# **College of Clinical Pharmacy**

# **Faculty Handbook**



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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 2019-2020. 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. Mohammed Al-Oahli for his unlimited support and encouragement and for Dr. Abdullah bin Omar Al-Najjar vice president of academic affairs, for the motivation and continuous improvements.

***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. Initially college was started in a temporary building. In 2015, COCP occupied its own new independent building with many classrooms, laboratories and independent offices for all admin and teaching staff.

### Former Deans



**Dr. Ahmed Al-Shoaibi**  
(2003-2006)



**Dr. Mohamed Al-Wesali**  
(2006-2010)



**Dr. Ibrahim A. Alhaider**  
(2010-2015)

## 1.3 Mission, Vision and Goals



### Vision of the college

***"To be a role model in pharmacy education and practice through scientific research and community engagement as a part of the global community of learning" .***

### Mission of the college

**“To provide quality education for enhanced patient-centered care through community engagement and scientific 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 .



**Pharm D program of COCP has secured Accreditation from Canadian Council for Accreditation of Pharmacy Programs (CCAPP) as well as Certification from American 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 (AACP), 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 got both CCAPP and ACPE accreditation.



**CCAPP team with KFU President and Vice presidents**



**CCAPP team with KFU President and Vice president**

## 1.5 Strategic Planning – (2016-2021)

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 center 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 4.2 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.

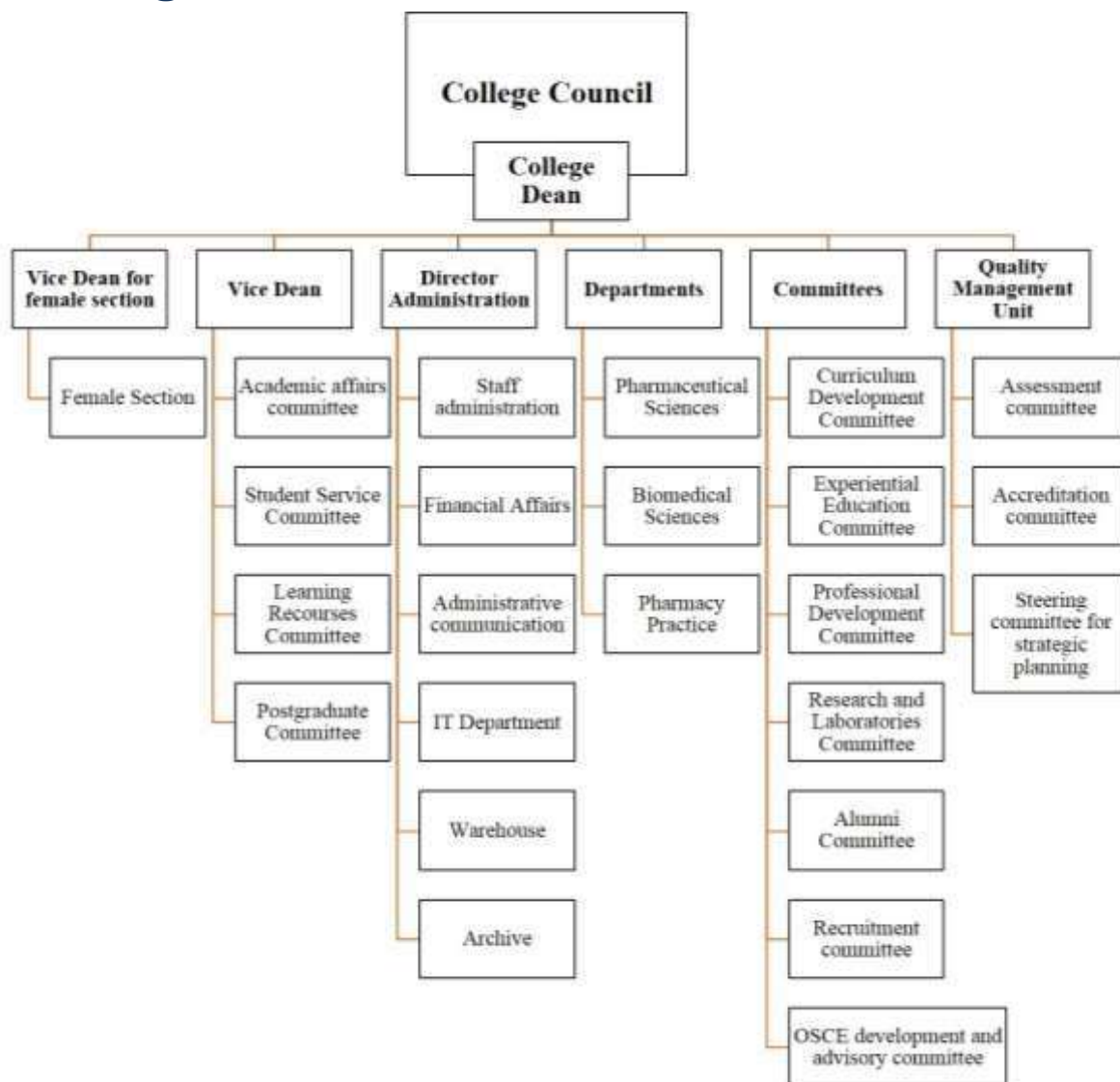
We feel that a lot is to be done and much less has been achieved in all domains of college objectives, so far.

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



**Dr. BANDAR E. AL-DHUBIAB**  
**[Dean]**

General Specialty: Pharmaceutics and Pharmacokinetics  
Academic Rank: Assistant Professor  
E-Mail: [baldhubiab@kfu.edu.sa](mailto:baldhubiab@kfu.edu.sa)  
IP Phone : 9798



**Fahad I. Al-Shubaiki**  
Tel: 9834  
Job: Manager of Administrative  
And Financial Affairs  
E-Mail: [falshbiki@kfu.edu.sa](mailto:falshbiki@kfu.edu.sa)

**Ahmed Mohhmed Al Shallakh**  
Job: Registrar  
Tel: 7273  
E-Mail: [faljwaisem@kfu.edu.sa](mailto:faljwaisem@kfu.edu.sa)



**Mishari Abdul Rahman Qadri**  
Job: Secretary of the Dean's  
Office  
IP Phone :5532  
E-Mail: [Talshrdan@kfu.edu.sa](mailto:Talshrdan@kfu.edu.sa)



**Taha S. Al-Bahrani**  
Tel: 9640  
Job : Scribe  
E-Mail:  
[talbahrary@kfu.edu.sa](mailto:talbahrary@kfu.edu.sa)



**Naser Al-Majad**  
General Specialty: Computer  
Job: Clerk  
E-Mail: [nalmajad@kfu.edu.sa](mailto:nalmajad@kfu.edu.sa)



**Ibrahim Alhadi**  
Job: Secretary -Vice  
dean  
Tel : 8559



**Ahmed Salem Al-Hadad**  
Tel :6296  
Outgoing/Incoming  
Email:  
[asalhaded@kfu.edu.sa](mailto:asalhaded@kfu.edu.sa)



**Saleh Rased Al-  
Abdelhai**  
Job : Office Mail  
Tel: 1783

**Abdul Rahman Al-Zoriq**  
Job : Driver

**Abdullatef K Al-Hamad**  
Job : Driver

## TECHNICIANS



**Tameem M Al-yahian**  
Qualification:  
Job : Supervisor of Labs  
IP Phone: 9901  
Email : [alahiyan@kfu.edu.sa](mailto:alahiyan@kfu.edu.sa)



**Sami Al-Qoaimi**  
Qualification: Diploma in  
Pharmacy  
Job: Lab Technician  
Tel: 1976/ Ext: 229  
E-Mail: [salgami@kfu.edu.sa](mailto:salgami@kfu.edu.sa)



**Naif Ali Munsif**  
Qualification: B.Sc (Biochemistry)  
Job: Technician  
Tel: 1976/ Ext: 269  
E-Mail: [nalmunssif@kfu.edu.sa](mailto:nalmunssif@kfu.edu.sa)



**Khalid Madini Al-Zaydi**  
Qualification :Diploma in  
Pharmacy (Hons)  
Job : Assistant Pharmacist  
Email :  
[kalzaydi@kfu.edu.sa](mailto:kalzaydi@kfu.edu.sa)



**Abdul aziz S. Al-Johani**  
Qualification : Diploma in Pharmacy  
Job : Pharmacy Assistant  
Email : [aaljohani@kfu.edu.sa](mailto:aaljohani@kfu.edu.sa)



**Hussain Ali Almusabeh**  
Qualification: B.Sc  
(Chemistry)  
Job : Lab Technician  
Email: .  
[halmusabeh@kfu.edu.sa](mailto:halmusabeh@kfu.edu.sa)



**Majed Yousuf Alsagair**  
Qualification: B.Sc (Chemistry)  
Job : Lab Technician  
Email : [malsugair@kfu.edu.sa](mailto:malsugair@kfu.edu.sa)

## Management [Female Section]

### **Fatimah Manaa Alqarni**

Job: Coordinator financial and administrative affairs, female section

IP Phone: 9675

Email : [falqarni@kfu.edu.sa](mailto:falqarni@kfu.edu.sa)

### **Sarah Faleh Alajmi**

Job : Secretary

Email : [salajmi@kfu.edu.sa](mailto:salajmi@kfu.edu.sa)

### **Mai Sultan Al-Otaibi**

Job: Registrar

Tel : 0355817174 / Extn. 273

Email : [maialotaibi@kfu.edu.sa](mailto:maialotaibi@kfu.edu.sa)

### **Majidh Ahmed Aljaber**

Job: Registrar

Tel : 0355817174 / Extn. 273

Email : [majjaber@kfu.edu.sa](mailto:majjaber@kfu.edu.sa)

### **Sarah Saad Alboteh**

Job: Clerk

Tel : 0355817174 / Extn. 273

Email : [salboteh@kfu.edu.sa](mailto:salboteh@kfu.edu.sa)

### **Aisha Khalil AlNasib**

Job: Clerk

Tel : 0355817174 / Extn. 273

Email : [aalnsib@kfu.edu.sa](mailto:aalnsib@kfu.edu.sa)

### **Anwar Saad Alboshaier**

Job: Lab technician

Email: [aalboshaier@kfu.edu.sa](mailto:aalboshaier@kfu.edu.sa)

Tel : 0355817174 / Extn. 9914

### **Aljawaher A. Almulhim**

Job: Lab technician

Email: [ajalmulhim@kfu.edu.sa](mailto:ajalmulhim@kfu.edu.sa)

Tel : 0355817174 / Extn. 350

### **Hajer S. Algoqaiman**

Job: Lab technician

Email: [halgoqaiman@kfu.edu.sa](mailto:halgoqaiman@kfu.edu.sa)

Tel : 0355817174 / Extn. 353

### **Nadiyah Khaleel Almutlag**

Job: Lab Technician

Email: [nalmutlag@kfu.edu.sa](mailto:nalmutlag@kfu.edu.sa)

Tel : 0355817174 / Extn. 352

### **Amnah Younes Al-Younes**

Job: Lab technician

Email: [aalyounes@kfu.edu.sa](mailto:aalyounes@kfu.edu.sa)

Tel : 0355817174 / Extn. 354



## 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	--
		<b>14</b>	<b>4</b>	<b>18</b>	<b>26</b>	

### 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
<b>Total</b>		<b>14</b>	<b>4</b>	<b>18</b>	<b>26</b>	

**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	--
<b>Total</b>		<b>15</b>	<b>3</b>	<b>18</b>	<b>23</b>	

**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	--
<b>Total</b>		<b>15</b>	<b>3</b>	<b>18</b>	<b>24</b>	

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
<b>Total</b>		<b>15</b>	<b>3</b>	<b>18</b>	<b>24</b>	

**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	<i>Electives</i> Industrial Pharmacy/Principles of Drug Design	2	0	2	2	2010223/ 2010313
<b>Total</b>		<b>14</b>	<b>3</b>	<b>17</b>	<b>23</b>	
<b>Summer training</b>						
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	--
<b>Total</b>		<b>13</b>	<b>3</b>	<b>15</b>	<b>22</b>	

**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	<i>Elective</i> Pharmaceutical Biotechnology /Pharmacogenomics:	2	0	2	2	2020213/2020213
		<b>13</b>	<b>2</b>	<b>15</b>	<b>19</b>	

**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	
<b>Total</b>		<b>0</b>	<b>5</b>	<b>5</b>	<b>40</b>	

**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	
<b>Total</b>		<b>0</b>	<b>15</b>	<b>15</b>	<b>120</b>	

**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	
<b>Total</b>		<b>0</b>	<b>15</b>	<b>15</b>	<b>120</b>	

## Courses' Description

### First Year: Sem.1

PP-1	Pharmacy Orientation	2+0	توعية 0+2 صي الدنية
<p><b>Course Description:</b></p> <p>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.</p>			
PS-1	Fundamentals of Pharmaceutics	2+1	أساسيات الصيدلانيات
<p><b>Lectures:</b> 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.</p> <p><b>Practical:</b> 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</p>			
PS-2	Pharmaceutical Organic Chemistry-I	3+1	كيمياء عضوية صيدلانية-1
<p><b>Lectures:</b> 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.</p> <p><b>Practical:</b> 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</p>			



compounds (nuclear magnetic resonance, mass spectrometry and its applications in drug metabolism and infra red spectrophotometry).

**BMS-1      Physiology-1   2+1      علم وظائف أأل أعضاء-1**

**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, O<sub>2</sub> –CO<sub>2</sub> 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      كيمياء حيوية-1**

**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+1      علم التشريح والأنسجة-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

صيدالنيات 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-8      Medicinal Chemistry-1      كيمياء دوائية-1**  
**3+0**

**Lectures:** This course provides an introduction to drug actions and the chemistry and pharmacological activity of drugs acting on the 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, and cardiovascular system (cardiotonics, anti-arrhythmics, vasodilators, antihypertensive, anti hyperlipedemic, drugs affecting blood and diuretics).

**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-9      Pharmacognosy      2+1      عقاقير**

**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-8****Clinical Biochemistry and Nutrition  
2+1**

الكيمياء الحيوية السريرية والتغذية

**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-10****Pharmacology-3 2+1**

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****3+0**





**Course Description:**

**Lectures:** This course enables the student to understand the chemistry and mode of action of hormones and drugs acting on the central nervous system. The following topics will be addressed: Drug metabolism, chemistry and mode of action of drugs acting on the central nervous system (analgesics, anaesthetics, psychotropic drugs, anti-epileptics and anti-Parkinsonians, non-steroidal anti-inflammatory drugs, antihistaminic drugs, local anesthetic agents, prostaglandins, steroidal and non-steroidal hormones, adrenocorticoids, oral hypoglycemic drugs, and anti-thyroid.

PS-12      **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.

**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 0+1** رعاية صيدلانية-1

**Practical Sessions: Course Description:** This course will provide the student with introductory foundation to the concept of patient-centered pharmaceutical care, Medication Therapy Management, role of clinical pharmacists as active and important member of a multi-disciplinary team of health care providers in community and hospital pharmacy settings, introduction to the fundamentals of human behavior, needs and motivation theories, and its relationship to patient medication-taking behavior, principles and methods of effective oral and written communication and patient counseling, cultural competence and its impact on communication, barriers to effective communication small group sessions focused on techniques of effective patient interview regarding health and medication-related problems and counselling on benefits of medication adherence and appropriate use of pharmaceutical preparations through various routes. Simulation sessions /role plays to build Students interpersonal and group communication skills. .

Students will be introduced with sources of information such as patient chart and electronic patient records and how to retrieve information from these sources regarding patient health and drug related problems

The course will prepare the students for upcoming IPPE-1 at community/outpatient pharmacy setting

### Summer Training

**PP-3 IPPE-1 (Introductory Pharmacy Practice Experience 0+2)**

Male students in Community Pharmacies.

Females students in Outpatient Pharmacies of Secondary and Tertiary Health Care Facilities

IPPE-1 is offered after completion of 2<sup>nd</sup> professional year Students are trained during summer vacations, for total of 160 hours, i.e., 8 hours daily 5 days a week for a period of 4 weeks, (male in community pharmacies and female in out-patient pharmacies). IPPE-1 is preceded by didactic practical course on Pharmaceutical Care-1, which provide the student with experience in retrieving information directly from the patient regarding his health problem (history taking) and drug therapies (treatment history) as well as from medical charts, databases, and from the caregivers using appropriate effective communication in both oral and written forms. IPP-1 will prepare the student for medication therapy management, retrieving patient information, patient counseling and monitoring, which are essential and integral components of APPE rotations and also needed to fulfill objectives of IPPE-2

**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      نظام إعطاء الدواء  
Systems2+0**

**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**

**Course Description:**

**Lectures:** This course enables the student to understand 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 (Beta lactams, tetracyclines, macrolides, rifamycins, chloramphenicol, aminoglycosides, antifungal and polypeptide), antibacterials, antimycobacterials, antivirals, antifungals, antimalarials, anthelmintics, antiscabious, antipedicular agents, antiprotozoal, antibilharazial agents and antineoplastics.

**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-5

Pharmaceutical Care-2 2+1

رعاية صيدلانية-2

**Course Description:**

**Lectures:** This course will cover techniques of patient interview and history taking. History taking will include retrieving disease and drug related problems and patient socio behavioral data . Review of medical records and data collection , interpreting lab values , performance of vital signs assessment and accurate interpretation of results of assessment, 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. Empathetic Communication with the patient and professionalism during physical assessment. Recording of clinical and lab finding in professional manner and interpretation of clinical and lab finding in diagnosis and pharmacotherapy planning. The concept of practice guidelines and its application in pharmacotherapy planning

**Practical:** Introduction to equipment, practical demonstration of techniques of physical examination and clinical assessment of disease states, in simulation lab

The student will maintain log book of case studies. The student will be expected to exhibit professional behavior and recognize the responsibility to provide service as member of interprofessional health care team

The course will prepare student for upcoming Advanced Pharmacy Practice Experiences

PS-16

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-6 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-7 Pharmaceutical Care-3** **رعاية صيدلانية-3**  
**2+0**

### Course Description:

**Lectures:** This course focuses on in- depth, concepts of medication therapy management, medication therapy review, Medication Management Services including, intervention and/or referral, in patient centered pharmaceutical care. Following topics will be covered in this course: Pharmaceutical Care as the Professional Practice for Patient-Centered Medication Management, Philosophy of Pharmaceutical Care Practice, Patient-Centeredness in Pharmaceutical Care, Practitioner-patient relationship, Drug Therapy Problems including medication errors, adverse drug reactions and their reporting, The Assessment, The Care Plan, Follow-up Evaluation, SOAP notes and other modes of Documentation in pharmaceutical Care practice, Decision making and preparing pharmacotherapy workup notes. Acquiring and Applying the Knowledge and Clinical Skills Required to Manage Drug Therapy, Managing Medication Management Services, Communication and collaboration with other healthcare providers, The Global Perspective in Pharmaceutical Care practice, Standards and ethics in Practice for Pharmaceutical Care practice, Guidelines for establishing pharmaceutical care practice.

**PP-8 Institutional Pharmacy Practice** **ممارسة صيدلانية مؤسسية**  
**1+0**

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***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-9 First Aid and Emergency Medicine 0+1** وطب الطوارئ الإسعافات الأولية

**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-10 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 2+0** كيمياء النواتج الطببية وعية والطب البديل

**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 2+0** الصيدلة الصناعية  
Elective

**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 الدواء

**Elective**

**Course Description:**

**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 lead discovery and drug development, targets for biologically active molecules, structure-activity relationships, iso-sterism, pro-drug design, structure-based drug design and applications of molecular modeling.

Summer training [Introductory Pharmacy Practice Experience - IPPE]

**PP-11 IPPE-2 (0 +2) 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 3<sup>rd</sup> year.

## Fourth Year Sem. 1

**PP-12 Law and Ethics in Pharmacy Practice 1+0** أخلاقيات وقانون الصيدلة

**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-13 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 inter professional environment.

**PP-14 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.

**PP-15 Clinical Pharmacokinetics 2+1** حركية الدواء الإكلينيكية

**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-16 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-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

## Fourth Year Sem.2

PP-18 Therapeutics-4 4+1 عالجات-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

**Course Description:**

This course introduces basic concepts principles and methods of management in all aspects of pharmacy practice, strategic and business planning and its application in pharmacy practice, fundamentals of human resources, marketing and financial management, needs and motivation theory and its impact on employees' behavior and organizational success, leadership development and decision-making, personal influence and opinion leadership, project management, , organizational principles, behavior and culture purchasing and inventory management health insurance plan.

PP-20 Pharm D seminar 0+1 حلقة نقاش

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 التاطبي في

**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 2+0** العناية الذاتية والدوية الالوصفية

**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 2+0** علم التكنولوجيا الحيوية الصيدلانية**Course Description:**

In this course the students will be introduced to pharmaceutical aspects of biotechnology. The topics covered in the course include, gene manipulation (endonuclease digestion, sub-cloning and transfection), recombinant DNA technology to produce recombinant proteins, various expression systems, introduction to tissue culture, applications of recombinant DNA in the pharmaceutical fields, 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..

**PP-23 Pharmacogenomics 3+0** علم الدوية الجينومي المتقدم

**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**



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

<b>Competency -1:</b>	<b>Disease state knowledge and management</b>
<b>Competency -2</b>	<b>Drug therapy planning and evaluation</b>
<b>Competency -3</b>	<b>Monitoring for endpoints and follow up</b>
<b>Competency -4</b>	<b>Patient case presentations, written, oral</b>
<b>Competency -5</b>	<b>Patient interviews, education and counseling</b>
<b>Competency -6</b>	<b>Drug information and literature evaluation</b>
<b>Competency -7</b>	<b>Professionalism: team interaction, motivation</b>
<b>Competency -8</b>	<b>Institutional pharmacy operations drug distribution systems, medication administration</b>

**PP-24-25-26      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



<b>PP-21/IPP</b>	<b>APPE-2</b>	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

<b>PP-21/AC</b>	<b>APPE-3:</b>	الرعاية السعافية
	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.

<b>PP-21/C.ICU</b>	<b>APPE-4: Cardiology &amp; Intensive</b>	علم أمراض القلب والعناية بالمركزة أمراض 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

<b>PP-21/P</b>	<b>APPE-5:</b>	Pediatrics 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

<b>PP-21/CC.ICU</b>	<b>APPE-6: Critical Care</b>	العناية بالمركزة
	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 والورام  
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      الأمراض المعدية  
H/week

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 m<sup>2</sup>. 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**



**Auditorium**



**Research Labs**



**Research Labs**



**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 Organic Chemistry-1	(3+ 1)	6
3	PS-3	2010121	Physical Pharmacy	(2 + 1)	5
4	PS-4	2010122	Pharmaceutical Analytical Chemistry	(2 + 1)	5
5	PS-5	2010123	Pharmaceutical Organic Chemistry-2	(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
<b>Total credit hours</b>				<b>56(48+8)</b>	<b>72</b>



### 4.1.1 Head of the Department



#### Bandar E. Al-Dhubiab

Nationality	: Saudi
General Specialty	: Pharmacokinetics
Academic Rank	: Associate Professor
IP Phone No	: 9798
E-Mail	: <a href="mailto:baldhubiab@kfu.edu.sa">baldhubiab@kfu.edu.sa</a>

**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.

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### 4.1.2 Staff of the Department



#### Dr. Mahesh Attimarad

Nationality	: Indian
Educational Qualification	: M. Pharm., Ph. D
General Specialty	: Pharmaceutical and Analytical Chemistry
Academic Rank	: Assistant Professor
IP Phone No	: 9601
Mobile	: +966-553269799
E-Mail:	: <a href="mailto:mattimarad@kfu.edu.sa">mattimarad@kfu.edu.sa</a>

Dr. Mahesh Attimarad is graduated from Al-Ameen College of Pharmacy and completed his doctorate in Pharmaceutical and Analytical Chemistry from 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.

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#### **Dr. Sree Harsha**

Nationality	: Indian
Educational Qualification	: M. Pharm., Ph. D
General Specialty	: Pharmaceutics
Academic Rank	: Assistant Professor
IP Phone No	: 9912
Mobile	: +966-535485322
E-Mail:	: sharsha@kfu.edu.sa

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.

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#### **Dr. Promise Madu Emeka**

Nationality	: Nigerian/British
Educational Qualification	: Ph. D
General Specialty	: Pharmacology
Academic Rank	: Assistant Professor
IP Phone No	: 9821
Mobile	: +966-582085150
E-Mail	: pemeka@kfu.edu.sa

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. He has published many national and international publications in reputed journals.

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#### **Dr. Mohamed A. Morsy**

Nationality : Egyptian  
 General Specialty : Pharmacology  
 Academic Rank : Associate Professor  
 E-Mail : [momorsy@kfu.edu.sa](mailto:momorsy@kfu.edu.sa)

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.

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#### **Dr. Anroop B. Nair**

Nationality : Indian  
 Educational Qualification : Ph. D, PDF  
 General Specialty : Pharmaceutics  
 Academic Rank : Assistant Professor  
 IP Phone no : +966-3-5899831  
 Mobile : +966-536219868  
 E-Mail: : [anair@kfu.edu.sa](mailto:anair@kfu.edu.sa)

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 fifteen years of experience in

teaching the undergraduate and Master's students. Dr. Nair has recently received a prestigious research grant from King Abdulaziz city for Science and Technology (KACST), National Science, Technology and Innovation Plan under Strategic Technology program. His 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 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 II 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 six 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.



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#### ***Dr. Tamer Mohamed Shehata***

Nationality	: Egyptian
Educational Qualification	: M. Pharm., Ph. D
General Specialty	: Pharmaceutics and Industrial Pharmacy
Academic Rank	: Assistant Professor
IP Phone No	: +966-3-5899904
Mobile	: +966-564787190
E-Mail:	: <a href="mailto:tshehata@kfu.edu.sa">tshehata@kfu.edu.sa</a>

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 participated in a lot of national and international conferences with research presentations and posters. He has published many national and international publications in reputed journals.

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### ***Dr. Mohammed Abdou Khedr***

Nationality	: Egyptian
Educational Qualification	: PhD
General Specialty	: Medicinal Chemistry [Drug Design]
Academic Rank	: Assistant Professor
IP Phone No	: +966-3-5895446
Mobile	: +966-545045648
E-Mail	: <a href="mailto:mmohammed@kfu.edu.sa">mmohammed@kfu.edu.sa</a>

Dr. Mohammed Abdou Khedr did his PhD in ‘‘Computer-aided drug design and synthesis of novel antivirals’’ from Cardiff University, UK. His research interests are Design and synthesis of PARP-1 enzyme inhibitors, Design and synthesis of COX-2 inhibitors, Design and synthesis of novel anticancer compounds, Design of new anti HCV enzyme, Design of Antidiabetic compounds, Molecular docking, Homology modeling, and all aspects of drugdesign. He had delivered many lectures and Speaker and Organizer of Some workshops for ‘‘Molecular Modeling in Drug design’’, Egypt. He has supervised PhD thesis ‘‘synthesis of new theinopyrimidines of expected biological activities’’, Helwan University, Egypt. and he is also a research advisor for a PhD thesis in King Saud University and A research advisor for a PhD thesis , National Research Institute, Egypt. He has vast experience in Quality management such as Worked in The Supreme court of universities (Group3) in the Project Management Unit PMU. As a coordinator, reviewer. Experience in revising the strategic Plans. Involved in the preparation of research plan, action plan, and staff development plan for Faculty of Pharmacy, Helwan University. He has published many papers in national and international journals.

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### **Dr. Sabah H. Akrawi**

Nationality	: USA
Education	: B. Pharm., PhD.
General Specialty	: Pharmacy
Minor Specialty	: Clinical Pharmacokinetics & Biopharmaceutics
Academic Rank	: Associate Professor
e-mail	: <a href="mailto:sakrawi@kfu.edu.sa">sakrawi@kfu.edu.sa</a>
Phone	: 0096635898969
Mobile	: 00966504922094

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.

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#### Dr. Hany Ezzat Khalil Ahmed



Nationality	: Egyptian
Educational Qualification	: PhD
General Specialty	: Pharmacognosy [Natural Products Chemistry]
Academic Rank	: Assistant Professor
Mobile	: +966-563724624
E-Mail	: heahmed@kfu.edu.sa

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.

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### *Dr. Christophe Tradrat*

Nationality	: French
Educational Qualification	: Doctorate, Post-Doc
General Specialty	: Organic/Medicinal Chemistry
Academic Rank	: Assistant Professor
Mobile	: +966-547208319
E-Mail	: <a href="mailto:c_tradrat@yahoo.fr">c_tradrat@yahoo.fr</a>

Dr. Christophe Tradrat 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.

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### Dr. Maged El-Sayed Mohamed

Nationality	: Egyptian
Educational Qualification	: PhD
General Specialty	: Pharmacognosy
Academic Rank	: Assistant Professor
Tel: / Ext	: +966-3-5898970
Mobile	: +966-542990226
E-Mail	: memohamed@kfu.edu.sa

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

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### Dr. Venugopala Gowda

Nationality	: Indian
Educational Qualification	: PhD
General Specialty	: Pharmaceutical Chemistry
Academic Rank	: Asst. Professor
Email	: kvenugopala@kfu.edu.sa

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.

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#### **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.

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#### **Dr. Nancy Safwet Abdel Daium Younis**

Nationality : Egyptian  
 Educational Qualification : M. Sc, Ph. D  
 General Specialty : Pharmacology  
 Academic Rank : Assistant Professor  
 Tel: / Ext : +966-135898602  
 E-Mail: : nancysafwet@hotmail.com

Dr. Nancy graduated from Faculty of Pharmacy, Zagazig University, Egypt with a B. Sc. Degree in pharmaceutical sciences in 2001. Dr Nancy Safwat was granted her MSc. in Pharmacology from the College of Pharmacy, Zagazig University in 2006. In June 2014; Dr Nancy Safwat received her PhD in pharmacology from the College of Pharmacy, Zagazig University with a dissertation discussed the "Role of Toll like receptors in brain ischemia". Dr Nancy Safwat has become an American Board Pharmacotherapy specialist in July 2014. During the period from March 2007 to March 2009, Dr Nancy Safwat worked as a research assistant in the department of Physiology and Pharmacology, School of Medical Sciences, University of Bristol, United Kingdom, in a project granted through the British heart foundation on the Ryanodine receptors signalling cascade. Dr Nancy Safwat research interests are in Diabetes and its complications; Stroke and related disorders, Toll like receptor signaling cascade and Cardiovascular pharmacology and pharmacotherapy. Dr Nancy Safwat had a good experience in animal handling for measuring different parameters and surgical procedures. Dr Younis is member of many societies such as British Society of Pharmacology, British Heart Foundation and Egyptian Society of Pharmacology and Experimental Therapeutics.

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#### **Dr. Heba Elsewedy**

Nationality : Egyptian  
 Educational Qualification : M. Pharmacy  
 General Specialty : Pharmaceutics  
 Academic Rank : Pharmacist  
 Tel: / Ext : +966-135899833  
 E-Mail: : hebaelsewedy81@gmail.com

Ph. Heba Elsewedy graduated from faculty of pharmacy, Zagazig University, Egypt and obtained her master degree in 2013 from Zagazig University, Egypt. She joined Egyptian ministry of health as a pharmacist from 2003 till 2014. Ph Heba is specialized in pharmaceutics and industrial pharmacy. Currently, she is involved in teaching practical fundamental of pharmaceutics and practical of biopharmaceutics in College of Clinical Pharmacy, KFU. Her

major research interests are transdermal drug delivery system, targeting drug delivery and formulation of nanoparticles.

## 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
<b>Total credit hours</b>				31 (25+6)	<b>43</b>

#### 4.2.1 Staff 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  
 Mobile : +966-567895045  
 E-Mail: : [srasool@kfu.edu.sa](mailto:srasool@kfu.edu.sa)

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.

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#### **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  
 Mobile : +966-535334928  
 E-Mail : [mshwhan@kfu.edu.sa](mailto:mshwhan@kfu.edu.sa)

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. Snawar Hussain**

Nationality : Pakistani  
 Educational Qualification : MSc., Ph. D  
 General Specialty : Biochemistry  
 Academic Rank : Assistant Professor  
 Tel: / Ext : +966-3-580000-1783-243  
 E-Mail: : [snawar76@gmail.com](mailto:snawar76@gmail.com)

Dr. Snawar Hussain received his Bachelor of Science (Hons) and Master of Science in Biochemistry from the Department of Biochemistry, University of Karachi in 1998 and received his

Ph.D from College of Life Science, Wuhan University in 2005. Dr. Hussain Joined Thomas Gallagher's lab at Loyola University Chicago as postdoctoral Research Fellow in 2006 and investigated the role of Severe Acute Respiratory Syndrome Coronavirus (SARS-CoV) accessory proteins in virus infection. After completing his first postdoc, Dr. Hussain Joined Susan Uprichard's lab at University of Illinois at Chicago as a postdoctoral Research Fellow in November 2008 and investigated the role of host genes in the modulation of HCV infection. Using a high throughput siRNA library screen, Dr. Hussain have identified several host genes that modulate HCV infection. He was later promoted to Research Assistant Professor Position and served in this capacity at University of Illinois at Chicago from June 2010-August 2012 and Loyola University Chicago from September 2012-March 2014. Dr. Hussain's research is focused on host-virus interactions and he is particularly interested in the molecular mechanism of Hepatitis C Virus interaction with host lipid metabolism machinery and its impact on HCV-induced liver pathogenesis and diseases progression. His other research interests are the tropism of RNA viruses and factors that determine the host/tissue tropism.

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### Dr. Mohammed Monirul Islam

Nationality	: Bangladeshi
Educational Qualification	: MSc., Ph. D
General Specialty	: Biochemistry
Academic Rank	: Assistant Professor
Tel: / Ext	: +966-3-580000-1783
E-Mail:	: mismail@gmail.com

Dr. Mohammed Monirul Islam graduated from the Department of Biochemistry, University of Dhaka, Bangladesh with a B.Sc. degree in Biochemistry in 1999. Dr. Mohammed earned his M.Sc. degree in Biochemistry in 2000 from the same university. As a Ph.D. student at the Rutgers university, USA, Dr. Mohammed had the unique opportunity to train under two respected faculty. He began in the laboratory of Dr. Julie Williams as a technician before his acceptance to the Rutgers graduate program in Cellular and Molecular Pharmacology. As senior laboratory technician and graduate student, he studied the interaction between sleep and immune response in the Drosophila model system. As a fourth year graduate student, funding issues resulted in the termination of Dr. William's research and required his transition to the laboratory of Dr. Li Cai. This switch involved moving from Drosophila to working with chicken embryos and learning a whole new battery of techniques and a new field. In May 2012 he obtained his Ph.D. from Rutgers University, USA in Cellular and Molecular Pharmacology with a dissertation titled "Regulation of Foxn4 during retina development". In July 2012, Dr. Mohammed joined Dr. Chun-Li Zhang's lab in the department of Molecular Biology at UT Southwestern Medical Center in Dallas, TX as a postdoctoral fellow. His research at the Zhang lab focused on the regulation of nuclear receptor TLX (Nr2E1) expression in neural stem cells during brain development using mouse model system. Dr. Mohammed's research interests involve the understanding of complex transcriptional networks controlling the fate of the NSCs and regeneration of neurons from neural stem cells (NSC) for replacement therapies. Dr.

Mohammed is a member of the American College of Clinical Pharmacy (ACCP) as well as the New York Academy of Sciences (NYAS).



**Dr. Sheenu Pottathil**

Nationality: Indian

Educational Qualification: PhD

General specialty: Medical Microbiology

Academic Rank: Assistant Professor

Mobile: +966-551732794

[E-mail: spottathail@kfu.edu.sa](mailto:spottathail@kfu.edu.sa)

Dr. Shinu Pottathil received his Masters Degree (Medical Microbiology) from Kasturba Medical College, Manipal and PhD (Medical Microbiology) from Maharishi Markandeshwar University, Ambala, India. He has twelve years of experience in teaching Medical Microbiology to Medical, Dental, Pharmacy, Nursing undergraduates and postgraduates. He is a reviewer and editorial board member of various international journals. He has published many national and international publications in various journals of international repute. He holds membership in various professional organizations like Member of International Forum of Teachers of The UNESCO Chair in Bioethics and Indian Association of Medical Microbiologists. His major research interests include direct detection techniques of tuberculosis and exploring the various drug resistance mechanisms of human pathogenic bacteria.

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## 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	(0+5)	5
			Experience-1		
26	PP-26	2030511	Advanced Pharmacy Practice	(0+15)	45
			Experience-2		
27	PP-27	2030521	Advanced Pharmacy Practice	(0+15)	45
			Experience-3		
<b>Total credit hours</b>				88 (40+48)	<b>184</b>

### 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

Tel: +966-553104865

E-Mail: yibrahim@kfu.edu.sa

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](mailto:hawaj@kfu.edu.sa)

Dr. Maitham Al-Hawaj, has obtained his graduation during the year 2000-2005 from College of Pharmacy, King Saud University, Riyadh, KSA and obtained his Ph. D from Department of Pharmacotherapy and Outcomes Science, School of Pharmacy, Virginia Commonwealth University, Richmond, Virginia, United States. He has worked as Teaching assistant, Department of Pharmacy Practice, College of Clinical Pharmacy, King Faisal University, Hofuf, Saudi Arabia (2005–2007). Currently, he is working as Assistant Professor, Department of Pharmacy Practice, College of Clinical Pharmacy, King Faisal University, Hofuf, Saudi Arabia. He is currently teaching Therapeutics for Pharm. D students. He holds position like Chairman, Interprofessional Education (IPE) Committee. He has also presented and published papers in national and international journals.

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##### Dr. Afzal Haq Asif

Nationality : Pakistani  
 Educational Qualification : M.B;B.S., M.Phil.  
 General Specialty : Pharmacology & Therapeutics  
 Academic Rank : Associate Professor  
 Tel: / Ext : +966-13-5899790  
 Mobile : +966-555891874  
 E-Mail : [ahasif@kfu.edu.sa](mailto:ahasif@kfu.edu.sa)

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.

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**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: : [elhassan@kfu.edu.sa](mailto:elhassan@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.

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**Dr. Kareem El Fass**

Nationality : Egyptian  
 Educational Qualification : Pharm D  
 General Specialty : Pharmacy  
 Academic Rank : Clinical Lecturer  
 Mobile : +966  
 E-Mail : [kareem.elfass@gmail.com](mailto:kareem.elfass@gmail.com)

Dr. Kareem El Fass received his Bachelor of Pharmacy from Faculty of Pharmacy, Alexandria University, Alexandria, Egypt, in 2007. In 2013 he received his Pharm D from the same university. Dr. Kareem completed General and Special Courses for Master Degree in Pharmacology and Experimental Therapeutics at Medical Research Institute, Alexandria University, during 2010. After graduation, he worked as Teaching assistant of pharmacology at Pharos University, Alexandria. Then, he worked as clinical pharmacist in oncology and nephrology. Also, he is a registered pharmacist in Egypt.



#### **Dr. Mohamed Mukhtar Elteгани**

Nationality	: Sudanese
Educational Qualification	: M Sc (Clinical Pharmacy)
General Specialty	: Clinical Pharmacy
Academic Rank	: Lecturer
Mobile	: +966-542054979
E-Mail:	: mohd_mukh@yahoo.com

Dr. Mohamed Mukhtar Elteгани graduated from Faculty of Pharmacy, AL Ahliyya Amman University, Jordan with a B. Sc. Degree in pharmaceutical sciences in 2002. Dr. Mohamed was granted his MSc. in Clinical Pharmacy from the College of Pharmacy, University of Medical Sciences and Technology, Sudan in 2013. He had worked as Hospital Pharmacist for 3 years in Sudan Heart Centre. He served as Clinical Pharmacist in Radiation and Isotopes Center- Khartoum (R.I.C.K) from August 2013 to August 2014. His main duties were supervising a patient's inpatient chemotherapy administration as well as providing pharmaceutical care for patients receiving their chemotherapy. Dr. Mohamed has also participated in producing (R.I.C.K) regular newsletter. He had worked for short period of time in Boots pharmacy, Dubai, UAE.



#### **Mr. Efren Li Plaza Molina**

Nationality	: Philippine
General Specialty	: Clinical Pharmacy
Academic Rank	: Lecturer

Mr. Efren is highly Skilled and Experienced Clinical Trainer. He worked for 3 years as an Emergency Nurse specializing in Trauma Cases; Trained in Basic Life Support, Advanced Cardiac Life Support and IV Therapy; acts as Medical Coordinator for Swiss Foundation for Mine Action (FSD) specialized in demining work. He also worked for 9 years as a Clinical Instructor and Lecturer; highly-sought lecturer and reviewer of Fundamentals of Nursing, Intensive and Emergency Nursing, and Medical-Surgical Nursing; rated as excellent by the students of Manila Tytana Colleges (Formerly Manila Doctors College). He is compassionate Health Professional, Works well with the team; patient advocate; able to maintain critical thinking in the extreme situation;

emotionally stable; good presence of mind; flexible, hardworking and energetic; able to create an environment conducive to patient's recovery.

#### **Dr. Amal Abu Alhumus**

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

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#### **Dr. Dalia El-Maghraby**

Nationality : Egyptian  
General Specialty : Clinical Pharmacy  
Academic Rank : Lecturer

Email : [delmaghraby@kfu.edu.sa](mailto: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.

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#### **Mansour Mutlaq Al-Otaibi**

Nationality: Saudi  
General Specialty: Clinical Pharmacy  
Academic Rank: Demonstrator  
Tel: 1783 / Ext: 246  
E-Mail: [mmqalotaibi@kfu.edu.sa](mailto:mmqalotaibi@kfu.edu.sa)

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#### **Ali Ahmed Al-Shammari**

Nationality: Saudi

General Specialty: Clinical Pharmacy  
Academic Rank: Demonstrator  
Tel: 1783 / Ext: 245  
E-mail: aalshammari@kfu.edu.sa

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### Ali Mahroos Al-Dayyen

Nationality: Saudi  
General Specialty: Clinical Pharmacy  
Academic Rank: Demonstrator  
Tel: 1783 / Ext: 244  
E-Mail: aaldayyen@kfu.edu.sa

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### Haithem Alwali

Nationality: Saudi  
General Specialty: Clinical Pharmacy  
Academic Rank: Demonstrator

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### Rashed Almuqbil

Nationality: Saudi  
General Specialty: Clinical Pharmacy  
Academic Rank: Demonstrator

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### Nisrin Alojjan

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

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## 5. Research Activities at the College

### 5.1 Some of the ongoing and completed DSR projects at College (2017-2018)

<i>Sl. No</i>	<i>Title of the DSR Projects</i>	<i>Name Of the Faculty (PI)</i>	<i>Budget</i>
1	Formulation and optimization of lung-targeting microspheres: In vitro/ Pharmacokinetic studies	Dr. Sree Harsh	69900.00
2	Insilco design, synthesis and characterization of (1,2,7-trisubstituted-indolizin-3-yl)(substituedphenyl)methanone molecular scaffolds: A search for novel anti-tubercular agents against MDR and XDR strains of Mycobacterium tuberculosis	Dr Venugopala K.N	77437.00
3	Does co-administration of date palm fruits with hydrochlorothiazide correct thiazide - induced hypokalemia in male rabbits	Dr. Kazeem Yusuff	56900.00
4	Assessment of Physicians and Clinical Pharmacists Awareness about the new guidelines of dyslipidemia	Dr. Yasir A. Ibrahim	26338.00
5	Design and development of polymeric nanoparticles for oral delivery of candesartan	Dr. Anroop Nair	65000.00
6	Novel drug delivery approach to treat diabetes: In vitro/ In vivo studies	Dr. Afzal	70400.00
7	Molecular modeling screening, synthesis and antidiabetic evaluation of new thiazolidinedione (tzd) analogues as potential antidiabetic type 2 agents	Dr. Michelyne Haroun	82000.00
8	Design, synthesis and cytotoxic evaluation of novel aza- podophyllotoxin analogues as potential anticancer agents	Dr.Christophe Tratratt	82000.00
9	Assessment of physicians and clinical pharmacist awareness about new guidelines of dyslipidemia	Dr.Mais Hasan Iflaifel	
10	Capillary Electrophoresis method	Development for Simultaneous estimation of	



Sl. No	Title of the DSR Projects	Name Of the Faculty (PI)	Budget
	antidiabetic drugs in biological samples and its application to pharmacokinetic studies		
11	Screening of Herbal HCV RNA replication inhibitors	Dr. Sahibzada T Rasool	92700.00
12	Attenuation of cardiomyopathy induced in sub-chronic exposure of acrolein by sulforaphane: an indirect PPAR gamma expression promoter.	Dr. Promise Emeka	81000.00
13	Anticancer evaluation of bioactive potentials from leaves of Carissa macrocarpa growing in Saudi Arabia	Dr.Hany Ezzat	71400.00
14	Interactions between the Red palm weevil (Rhyncophorus ferrugineus) and its host the date palm (Phoenix dactylifera): a Metabolomic study	Hany Ezzat	74400.00
15	Determination of the active ingredients of the Prosopis Farcta leaves extract.	Dr Sabah Akrawi	74400.00

## 5.2 2 List of Staff publications in the year 2017-18

### Department of Pharmaceutical Sciences

المجلة/المجلد/العدد/الرقم الصفحات، تاريخ النشر	أعضاء هيئة التدريس	عنوان البحث	م
Colloids Surf B <i>Biointerfaces</i> 2017;150:106-113.	Mariela ES-B, Maria EM, Virginia M, Raquel MG, Odhav B, Venugopala KN, Daniel AG.	Membrane effects of dihydropyrimidine analogues with larvicidal activity	1
Indian Journal of Pharmaceutical Education and Research 51 (4), 571- 579, 2017	AB Nair, BE Al-Dhubiab, J Shah, M Attimarad, S Harsha	Poly (lactic acid-co-glycolic acid) Nanospheres Improved the Oral Delivery of Candesartan Cilexetil	2

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Drugs & Therapy Perspectives 33 (6), 290– 301, 2017	S Jacob, AB Nair	A review on therapeutic drug monitoring of the mTOR class of immunosuppressants: everolimus and sirolimus	3
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Journal of Young Pharmacists 9 (1), 2017	AB Nair, AA Al-ghannam, BE Al-Dhubiab, AA Hasan	Mucoadhesive Film Embedded with Acyclovir Loaded Biopolymeric Nanoparticles: In vitro Studies.	4
Biomedical Research 28 (8), 2017	S Harsha, AB Nair, M Attimarad, KN Venugopala, SA Kedarnath,	Pharmacokinetics and tissue distribution of microspheres prepared by spray drying technique: targeted drug delivery	5
Immunopharmacology and Immunotoxicology, 1-8, 2017	AA El-Sheikh, MA Morsy, AM Okasha	Inhibition of NF- $\kappa$ B/TNF- $\alpha$ pathway may be involved in the protective effect of resveratrol against cyclophosphamide-induced multi-organ toxicity	6
Journal of Biomolecular Structure and Dynamics 35 (12), 2654-2664, 2017	A Singh, KN Venugopala, MA Khedr, M Pillay, KU Nwaeze, Y Coovadia, ...	Antimycobacterial, docking and molecular dynamic studies of pentacyclic triterpenes from <i>Buddleja saligna</i> leaves	7
Journal of Biomolecular Structure and Dynamics, 1-16, 2017	MA Khedr, M Pillay, S Chandrashekarappa, D Chopra, BE Aldhubiab, ...	Molecular Modeling studies and anti-TB activity of trisubstituted indolizine analogues; Molecular docking and dynamic inputs	8
Asian Journal of Chemistry 29 (8), 2017	KN VENUGOPALA	Design, Microwave Assisted Synthesis and Characterization of Substituted 1, 2, 4-Oxadiazole Analogues as Promising Pharmacological Agents.	9
INDIAN JOURNAL OF PHARMACEUTICAL EDUCATION AND RESEARCH 51 (3), 452-460, 2017	C Sandeep, KN Venugopala, MA Khedr, B Padmashali, RS Kulkarni, ...	Design and Synthesis of Novel Indolizine Analogues as COX-2 Inhibitors: Computational Perspective and in vitro Screening	10
Journal of Basic and Clinical Pharmacy 8 (2), 49-61, 2017	C Sandeep, KN Venugopala, MA Khedr, M Attimarad, B Padmashali,	Review on Chemistry of Natural and Synthetic Indolizines with their Chemical and Pharmacological Properties	11
Journal of Basic and Clinical Pharmacy 8 (2), 49-61, 2017	C Sandeep, KN Venugopala, MA Khedr, M Attimarad, B Padmashali,	Review on Chemistry of Natural and Synthetic Indolizines with their Chemical and Pharmacological Properties	12
Anti-Cancer Agents in Medicinal Chemistry, 28(8). 2017	K Kasumbwe, K N Venugopala, V Mohanlall, B Odhav	Synthetic mono/di-halogenated coumarin derivatives and their anticancer properties	13

Chemical Biology & Drug Design DOI: 10.1111/cbdd.12957, 2017.	BD Dharma Rao, S Bhandary, D Chopra, KN Venugopala, RM Gleiser,	Synthesis and characterization of a novel series of 1, 4-dihydropyridine analogues for larvicidal activity against <i>Anopheles arabiensis</i>	14
Drying Technology: An International Journal, 2015, 33, (4), 502-512.	Sree Harsha, Bandar E. Al-Dhubiab, Anroop B. Nair, Mohammed Al-Khars, Mohammed Al-Hassan, et	Novel Drying Technology of Microsphere and Its Evaluation for Targeted Drug Delivery for Lungs,	15
Drug Des Devel Ther 2015 23;9:273-82.	Sree N Harsha, Bander E Aldhubiab, Anroop B Nair et al.	Nanoparticle formulation by Büchi B-90 Nano Spray Dryer for oral mucoadhesion.	16
DARU Journal of Pharmaceutical Sciences 2015, 23(1) :49	Usha G K, Sree Harsha Nagaraja, Balakeshwa R and Prakash RB	Improved intraocular bioavailability of ganciclovir by mucoadhesive polymer based ocular microspheres: development and simulation process in Wistar rats.	17
<i>Combinatorial Chemistry &amp; High Throughput Screening</i> , 2016, 19(1), 51-57.	Michelyne Haroun, Tratrath Christophe, Geronikaki Athina	Thiazole-based thiazolidinones as potent antimicrobial agents. Design, synthesis and biological evaluation.	18
Indian J. Pharmace Edu Res, 50(1), 2016.	Anroop B Nair, Rachna Kumri , Bandar E Al-Dhubiab , Mahesh Attimarad and Sree Harsha.	Development of Transdermal Delivery System of Vildagliptin and Its Comparison with Oral Therapy.	19
Fundam Clin Pharmacol. 2016, 30(5):406-18.	El-Sheikh AA, Morsy MA, Al-Taher AY.	Protective mechanisms of resveratrol against methotrexate-induced renal damage may involve BCRP/ABCG2.	20
. Basic Clin Pharmacol Toxicol. 2016 Jun;118(6):449-55.	Morsy MA, Heeba GH	Nebivolol ameliorates cisplatin-induced nephrotoxicity in rats.	21
Pharmacogn Mag. 2016, 12(Suppl 1):S76-81.	El-Sheikh AA, Morsy MA, Hamouda AH.	Protective mechanisms of thymoquinone on methotrexate-induced intestinal toxicity in rats.	22
Toxicol Ind Health. 2016 Jan;32(1):59-67.	Morsy MA, Ibrahim MA, Abd-Elghany MI.	Dimethyl dimethoxy biphenyl dicarboxylate attenuates hepatic and metabolic alterations in high fructose-fed rats.	23

Environ Toxicol Pharmacol. 2015 Nov;40(3):907-14.	Heeba GH, Morsy MA.	Fucoidan ameliorates steatohepatitis and insulin resistance by suppressing oxidative stress and inflammatory cytokines in experimental non-alcoholic fatty liver disease.	24
Mediators Inflamm. 2015;2015:859383.	El-Sheikh AA, Morsy MA, Abdalla AM, Hamouda AH, Alhaider IA.	Mechanisms of thymoquinone hepatorenal protection in methotrexate-induced toxicity in rats.	25
.. Eur J Pharmacol. 2015 Mar 5;750C:90-97.	Morsy MA, Heeba GH, Mahmoud ME	Ameliorative effect of eprosartan on high-fat diet/streptozotocin-induced early diabetic nephropathy in rats	26
Colloids Surf B <i>Biointerfaces</i> 2017;150:106-113	Mariela ES-B, Maria EM, Virginia M, Raquel MG, Odhav B, Venugopala KN, Daniel AG.	Membrane effects of dihydropyrimidine analogues with larvicidal activity,	27
Chem Biol Drug Design 2016;88(6):899-904.	Sandeep C, Venugopala KN, Raquel M. Gleiser, Abeen Chetram, et al.,	Greener synthesis of indolizine analogues using water as a base and solvent: study for larvicidal agents against <i>Anopheles arabiensis</i> .	28
Drug Des Devel Ther 2016;10:2681-2690.	Venugopala KN, G B Dharma Rao, Subhrajyoti Bhandary, Bandar E Aldhubiab, Mahesh A, Osama I Alwassil, et al	Design, synthesis and characterization of (1-(4-aryl)-1 <i>H</i> -1,2,3-triazol-4-yl)methyl, substitutedphenyl-6-methyl-2-oxo-1,2,3,4-tetrahydropyrimidine-5-carboxylates against <i>Mycobacterium tuberculosis</i>	29
Drug Des Devel Ther 2015;9:911-921.	Venugopala KN, Reshme G, Mohammed AK, Rashmi V, Bandar E. Aldhubiab, Sree Harsha, Odhav B.	Design, synthesis, and computational studies on dihydropyrimidine scaffolds as potential lipoxygenase inhibitors and cancer chemopreventive agents.	30
Antivir Ther. 2016; 21(1):17-25.	Anroop B,	Quantification of uptake and clearance of acyclovir in skin layers.	31
Drugs R D.16:303-316, 2016.	Jacob S, Anroop B,	An updated overview on therapeutic drug monitoring of recent antiepileptic drug.	32
Basic. Clin. Pharm. 7, 27- 31, 2016.	Anroop B, Jacob S, J.	A simple practice guide for dose conversion between animals and human	33
Drug Deliv, 23(7):2154- 2162, 2016.	Al-Dhubiab BE, Anroop B, Kumria R, Attimarad M, Harsha S.	Development and evaluation of buccal film impregnated with selegiline loaded nanospheres.	34

Drug Deliv, 23: 471-478, 2016	Kumria R, Anroop B, Goomber G, Gupta S.	Buccal films of prednisolone with enhanced bioavailability.	35
, Indian J Pharm. Edu. Res., 50(1): 130-137, 2016.	Anroop B, Kumria R, Al-Dhubiab BE, Attimarad M, Harsha S	Development of transdermal delivery system of vildagliptin and its comparison with oral therapy.	36

### Department of Biomedical sciences

المجلة (المجلد/العدد/الرقم الصفحات، تاريخ النشر)	أعضاء هيئة التدريس	عنوان البحث	م
Stem Cell Reports , Volume 5 , Issue 5 , 805 – 815. (2015)	Islam, M. M., Smith, DK., Niu, W., Fang, S., Iqbal N., Sun, G., Shi, Y. and Zhang, CL.	Enhancer Analysis Unveils Genetic Interactions between TLX and SOX2 in Neural Stem Cells and In Vivo Reprogramming.	1
Acta Tropica, 173, 2017, 126-136.	S Hussain, ST Rasool,	Analysis of Synonymous Codon Usage in Zika Virus,	2
Tropical Journal of Pharmaceutical Research. (In press).	Chohan M Shahzad, Omar M. M. Mohafez, Sahhibzada T Rasool, Anroop B Nair	. Effect of vitamin C on N,N'-dimethyl-4,4'-bipyridinium dichloride induced hepatic and renal toxicity in swiss albino mice.	3

### Department of Pharmacy Practice

المجلة (المجلد/العدد/الرقم الصفحات، تاريخ النشر)	أعضاء هيئة التدريس	عنوان البحث	م
Saudi Pharmaceutical Journal . 2015; 23(3) :266-275.	Yusuff K B.	Does self-reflection and peer-assessment improve Saudi pharmacy students' academic performance and metacognitive skills?	1
Int. J. Pharmacol., 2018 (Accepted for publication)	Kazeem Babatunde Yusuff, Promise Madu Emeka and Mahesh Attimarad, ,	Concurrent Administration of Date Palm Fruits with Lisinopril Increases Serum Potassium Level in Male Rabbits	2
Pharmaceutical biology 54 (3), 530-535 2016 و	N Ullah, MA Khan, S Khan, H Ahmad, AH Asif, T Khan	Nephro-protective potential of Morus alba, a prospective experimental study on animal models	3



## 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.

- Prepare database of students based upon their academic and co-academic activities, attitude and their conduct, for recommendations for placements for training (IPPE,APPE) as well as for future recommendations.
- Organize and implement Students' development activities (like lectures on Writing the CV, How to overcome exam anxiety...etc.) in coordination with College Committee for Activities and the Deanship of Students' Affairs.
- Any other responsibility, assigned by the Dean

## 6.2 Activity and Community Engagement Committee



### Purpose

The purpose of the committee is to design and implement plan for Staff activities and community engagement activities which include, but not limited to, social, cultural, recreational, academic and community engagement programs; to complement the COCP academic program of studies for fulfillment COCP mission. The committee will ensure contribution of all staff in on and off-campus activities of their interest, organized by the committee. The committee is also responsible for dissemination of information regarding COCP, its program and information on general health issues to the community in general, and to the high school students in special, through posters, camps, lectures and collaborative co-curricular programs involving COCP students' committees. The committee will also 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

## 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 (NCAAAA, 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

## 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

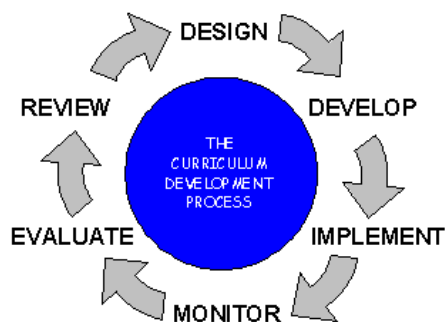
### Some activities of Assessment Committee

- 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.

## 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:**

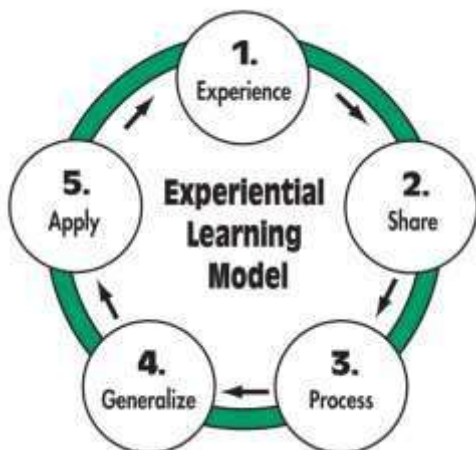
- Review NCAAA, ACPE and CCAPP standards and University rules and regulations, and make clear policy and procedure for development and amendment in the study plan for approval by the Faculty, College and University Council.
- Continue assessing the changing needs based upon feedback from the stakeholders, 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.

- Dr. Jean Dib (SAMSO)

## 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.



## 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

## 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.

## 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

## 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**

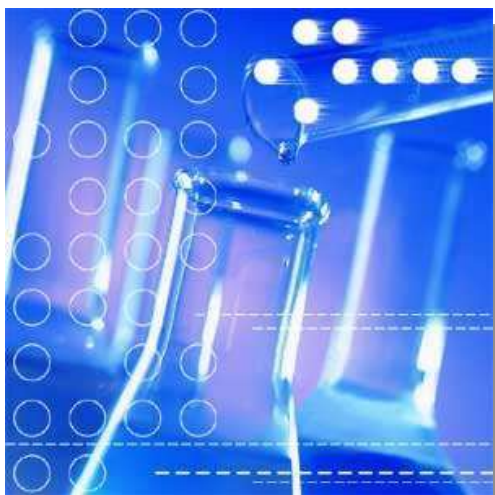
- Develop quality assurance (QA) policies and procedures (with mission, goals and objectives) for all domains of education and training, administration, research and community service, and prepare schedules for activities, and provide copies of these to all faculty and administration well in time, after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

### 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



- 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.

## 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 KFU 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

## **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

## 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
<i>Faculty Members</i>	10	One month
<b>Lecturers, Demonstrators and Graduate students.</b>	7	One month

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*Students (Males & Females)*

5

15 days

<b>Staff/Employees</b>	3	15 days
<b>Others</b>	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	Sunday – Thursday Saturday	8:00 Am – 9:30 pm 12:00 am – 03:00 Afternoon
Girl Library	Monday	8:00 Am – 02:00 pm

## 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.

### **Regulations for Saudi Universities Staff Members promotions**

Kingdom of Saudi Arabia Higher Education Council General Secretariat Regulations for Saudi Universities Personnel Including Staff Members and the Like Issued by the Higher Education Council Resolution No. (4/7/1417 H) in its (Sixth) session held on 1417/8/26 H. and endorsed by the Royal Directive of the Custodian of the Two Holy Mosques, Prime Minister, and President of the Higher Education Council, in the telegram No. (7/b/12457) dated 22/8/1418 H. First Edition 1418 /1998. Higher Education Council Resolution No. (4/6/1417H.) Resolution No. (4/6/1417 H) The Higher Education Council In accordance with the provisions

stated in Paragraph (7) of Article (15) of the Statutes and Regulations of the Higher Education Council and Universities, stating that the Council issues regulations for Saudis and expatriates university personnel, including staff members and pertaining to their salaries, remunerations, allowances, after being prepared by the Ministry of Higher Education, the Ministry of Finance and National Economy, and the Ministry of Civil Service.

**Article 21** Controls for the promotion from the rank of Assistant Professor to the rank of Associate Professor: 1. At least four years of professional experience in the rank of Assistant Professor in a Saudi University or another accredited one, provided that her/his serving term is not less than a year. 2. Fulfilling the minimum amount of academic research required for promotion according to the provisions of Article (32) of the herein Regulations. 3. The academic research should be published or accepted for publication while in service as an Assistant Professor.

**Article 22** Controls for the promotion from the rank of Associate Professor to the rank of Professor: 1. At least four years of professional experience in the rank of Associate Professor in a Saudi University or another accredited one, provided that her/his serving term is not less than a year. 2. Fulfilling the minimum amount of academic research required for promotion according to the provisions of Article (32) of the herein Regulations. 3. The academic achievement should be published or accepted for publication while in service as an Associate Professor.

**Article 23** At least six months before the end of the staff member's serving time, s/he is entitled to submit a promotion application to the Department Council.

**Article 24** The duration of secondment and transfer for the purpose of promotion is calculated as follows: 1. The full duration is counted if the secondment and transfer is to an academic body and the work was in the same field of specialty. 2. Half the duration is counted if the secondment and transfer is to a non-academic body and the work was in the same field of specialty. 3. No part of the duration is counted for the purpose of promotion if the work done was not in the same field of specialty.

**Article 25** Promotion is granted to the staff member according to the following: 1. Academic achievement. 2. Teaching. 3. University and community Service.

**Article 26** Promotion procedures: 1. The staff member applying for promotion shall submit an application to the Department Council including the following: a) Statement of professional and academic qualifications in addition to the candidate's job hierarchy. b) Statement of teaching activities. c) Statement of activities regarding university and community service. d) Five copies, at least, of the academic achievement submitted for promotion and clarifying information. e) Additional information supporting the promotion application. f) Additional information/documents requested by the Department Council, College Council, or Scientific Council. 2. The Department Council shall review the promotion application to ensure the fulfillment of the necessary procedures and requirement. The Department Council shall recommend submitting the application to the College Council proposing the names of a minimum of eight specialized referees. 3. On the basis of the Department Council recommendation, the College Council shall review the application and nominates a minimum number of eight specialized referees, not less than eight, recommended by the Department or others. 4. On the basis of the recommendations of the

Department and College Councils ,the Scientific Council shall review the promotion application, before undertaking the following: a) Selecting five referees form the College Council to evaluate the researches; three as main referees, the fourth as a standby examiner, and the fifth as a second standby examiner. At least two of the three referees should be from outside the university. b) Researches and promotion data shall be confidentially sent for evaluation according to the criteria set by the Scientific Council. c) Upon reviewing the reports of the referees and those related to the candidate's teaching activities, as well as her/his university and community service, the Council shall decide on the staff member's promotion. d) Upon deciding not to promote the candidate due to the weakness of her/his professional achievement, the Scientific Council shall decide on the submitted researches whether they shall be excluded or can be resubmitted in the future. In case of future re-application for promotion, the minimum requirements will include at least one new research for the rank of Associate Professor, and at least two new researches for the rank of Professor.

**Article 27** The candidate's application for promotion shall be evaluated on a 100 point scale as follows:-Sixty (60) points for professional and academic Achievement.-Twenty-five (25) points for teaching.-Fifteen (15) points for university and community service. Based on the Scientific Council recommendation, the University Council shall lay down the Criteria and Standards for the evaluations of teaching and university and community service.

**Article 28** The staff member should obtain the accumulation of at least sixty (60) points to be eligible for promotion, a minimum of (35) thirty-five points must be gained from professional and academic achievement if the candidate will be promoted to the rank of Associate Professor, and a minimum of (40) forty points for the rank of Professor. Promotion to the rank of Associate Professor shall be based on the majority of the three referee's recommendation, and unanimous recommendation of the three referees for the rank of Professor. If only two of the three referees recommend promotion, the opinion of a fourth referee shall be sought and is considered conclusive.

**Article 29** The minimum number of academic achievement points needed for the staff member's promotion shall include the following: 1. Published research papers or accepted for publication in refereed journals The University Council sets the acceptance criteria for the refereed journals. 2. A maximum of one research is accepted from refereed researches, whether published or accepted for publication, presented in specialized international conferences and symposia. 3. Refereed, published, or accepted for publication researches by specialized university research centers. 4. A maximum of one is accepted from refereed textbooks and references. 5. A maximum of one is accepted from refereed authentication of rare books. 6. A maximum of one is accepted from refereed translations of specialized scientific books. 7. A maximum of one is accepted from refereed books and research reports published by scientific bodies and approved by the Scientific Council. 8. Inventions and novelties that have patents from approved patent agencies approved by the Scientific Council. 9. A maximum of one is accepted from distinguished creative work based on the University Council approved regulations and the Scientific Council recommendations.

**Article 30** A minimum number of one published, or accepted for publication research is shall be required for the staff member's promotion to the rank of Associate Professor and a minimum of two for the rank of Professor.

**Article 31** The academic research submitted for the staff member's promotion should be published or accepted for publication in more than one place and not to be affiliated to one publishers, university or scientific body.

**Article 32** A minimum of four published or accepted for publication researches - at least one should be a sole academic production- shall be required for the promotion to the rank of Associate Professor. The University Council can overlook this requirement with regard to

certain specializations on the basis of the Scientific Council recommendation, provided that a minimum of one research has been published.

**Article 33** A minimum of six published or accepted for publication researches- at least three should be sole academic productions- shall be a required for the promotion to rank of Professor. The University Council can overlook this requirement with regard to certain specializations on the basis of the Scientific Council recommendation, provided that a minimum of three researches have been published.

**Article 34** The academic achievement shall be counted as “one unit” if it is single authored, “half unit” if it has two authors. If the research is authored by more than two individuals, “half unit” shall be assigned for the main author and “quarter unit” for each of the others. If another collective work is considered for promotion, a “quarter unit” shall be assigned for each researcher.

**Article 35** The academic research material should not be copied from the Master's of Doctorate thesis of the promotion candidate, or from any previous publications. If the Scientific Council finds otherwise, s/he shall be denied consideration for promotion for one calendar year, effective from the date of the Scientific Council resolution.

**Article 36** Referees of the ad-hoc promotion committee should be Professors and if the promotion is to rank of Associate Professor, one of the referees shall be an Associate Professor.

**Article 37** Academic promotion of the staff member is effective from the date of the Scientific Council resolution in this effect. However, job promotion, is effective from the executive resolution date provided there is a vacant position. Duties and Responsibilities

**Article 38** A staff member should demonstrate the following characteristics: 1. Integrity and good manners and abide by the set rules and regulations and avoiding all that affects her/his professional code of honor. 2. Follow-up new materials and promote her/his specialty through academic research. 3. Transfer to students the latest information in her/his specialty, and to illicit intellectual curiosity that stimulates original work and knowledge pursuance. 4. Become an effective member in the activities of the Department, Councils, and Committees that serve the community. 5. Dedication to University teaching. Seeking an additional job outside the University is not permitted without prior approval according to the set rules and regulations.

## **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 dependent 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.

### **Children 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 overdue 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 and 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: 13

## **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.

## Welcome to Blackboard at COCP

Blackboard is e-learning platform. Instructors use Blackboard to post and distribute course content such as syllabuses and handouts, to communicate with students via announcements and email messages, to assess student learning through quizzes and online assignments, and much more.

### Getting Started

To create a course in your name on Blackboard, you need to send an email from your KFU email ID to webct@kfu.edu.sa.

By default, Blackboard courses are visible only to the instructor. After instructors have added content to their course, they can make the course available to students

### Uploading a Syllabus

#### Adding or Uploading a Syllabus:

To upload and use a syllabus in your Blackboard course, begin by logging into Blackboard and entering the course, then.

1. In Edit Mode, access an existing content area [e.g., Syllabus] on the Course Menu.
2. On the Action Bar, click Build Content.
3. Click Syllabus.

The screenshot displays the Blackboard interface for a course titled 'pharmaceutical analgetiad chemistay-1'. The 'Edit Mode' is set to 'ON'. The 'Build Content' menu is open, showing options for creating new content. The 'Syllabus' option is highlighted. Below the menu, there are sections for 'Attached Files' and 'Ph' (likely a folder or page name) with associated files and their sizes.

Build Content	Create Assessment	Add Interactive Tool
<ul style="list-style-type: none"> <li>&gt; Item</li> <li>&gt; File</li> <li>&gt; Audio</li> <li>&gt; Image</li> <li>&gt; Video</li> <li>&gt; URL</li> <li>&gt; Learning Module</li> <li>&gt; Lesson Plan</li> <li>&gt; Syllabus</li> <li>&gt; Course Link</li> <li>&gt; Content Package (IMS)</li> <li>&gt; Content Package (NLN)</li> <li>&gt; Content Package (SCORM)</li> </ul>	<ul style="list-style-type: none"> <li>&gt; Content Folder</li> <li>&gt; Blank Page</li> <li>&gt; Module Page</li> <li>&gt; Tools Area</li> </ul>	<ul style="list-style-type: none"> <li>&gt; Flickr Photo</li> <li>&gt; SlideShare Presentation</li> <li>&gt; YouTube Video</li> <li>&gt; Scholar Stream</li> <li>&gt; Scholar Bookmark</li> </ul>

Attached Files: [Ph\\_Anal Chem svllbus.doc](#) (136 KB)

Ph

Attached Files: [Ph\\_Analytical\\_Chemistry\\_curriculum.doc](#) (131 KB)

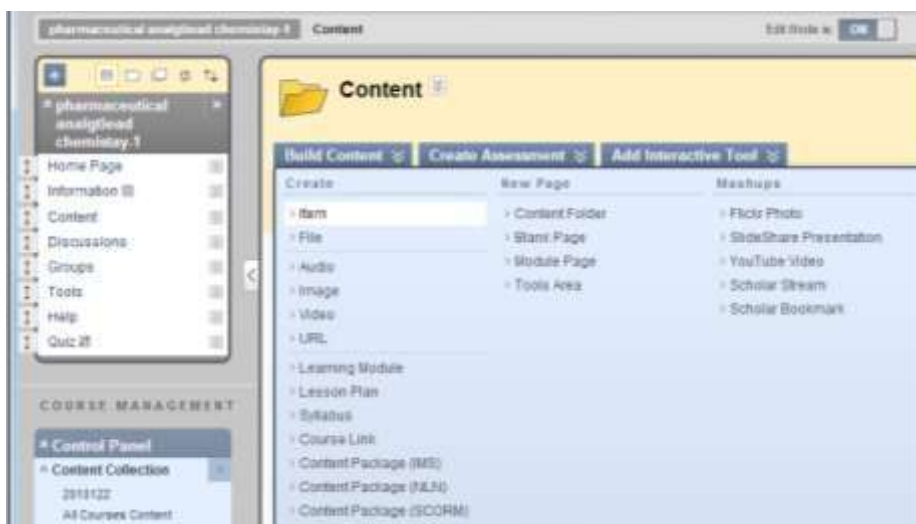
4. Enter a name, students will see this as the title of the file you upload, select use existing file and brows my computers to select the syllabus file and submit

5. Under Options select Yes for “Permit Users to View this Content” to make the syllabus available to students.
6. Click Submit.

## Loading Files

1. In Edit Mode, access an existing content area [e.g., Content, Syllabus, Assignments] on the Course Menu.

- On the Action Bar, click Build Content.
- Click Item.



- On the Create Item page, enter the item's Name (required) and any accompanying Text (optional).
- To add a file, click Browse My Computer. Repeat this step to add additional files.
- Under Options select Yes for Permit Users to View this Content to make the item available to students.
- Click Submit

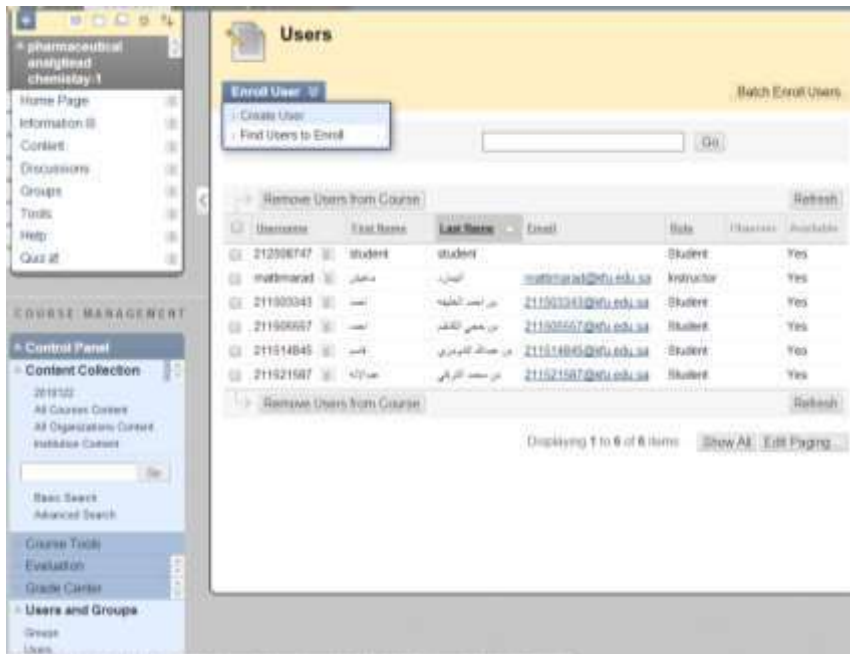


## Enrolling a Student

You do not need to manually enroll students in your Blackboard courses. Blackboard's student enrollment data comes directly from the University's Student Information System

To add additional students to your Blackboard course roster,

1. Click Users & Groups in the lower left corner of the course's Course Management area.
2. Click Users.
3. Go to Enroll User and click Find Users to Enroll button in the upper left corner of the page.



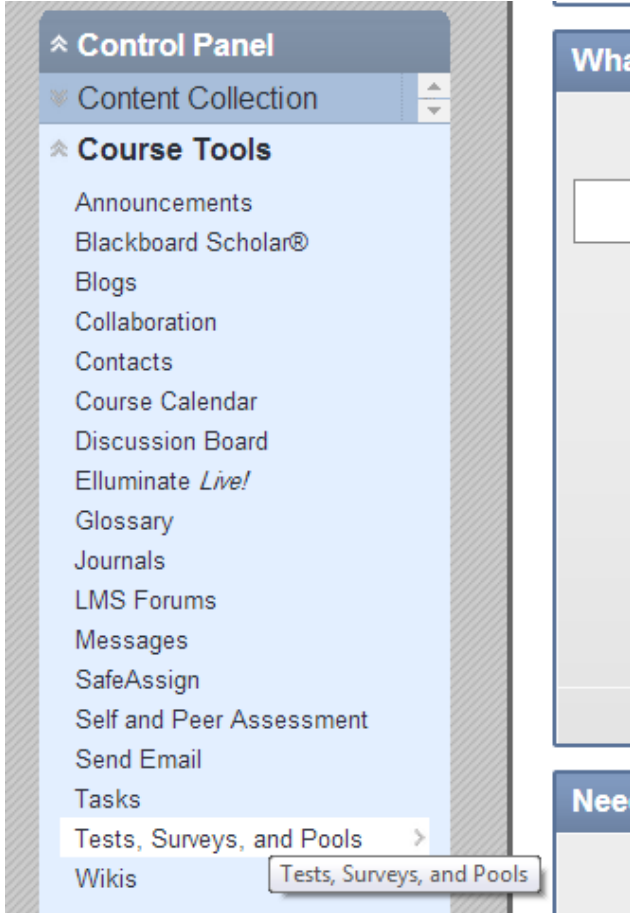
4. Enter students' academic number with comma and submit.



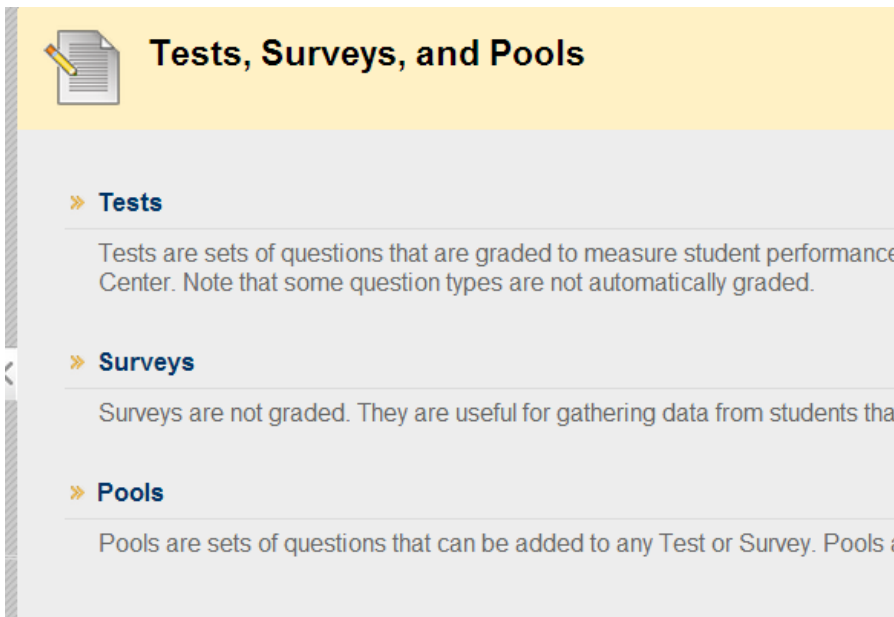
## Creating Tests

### Topic: Using the Tests Tool

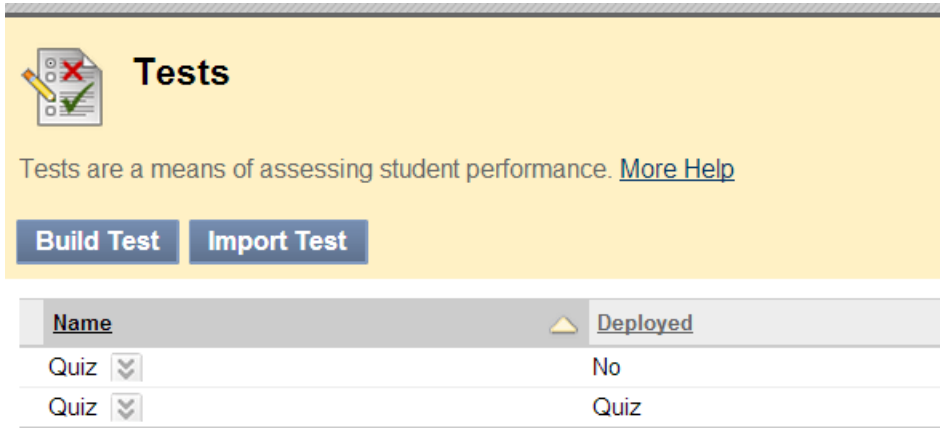
1. On the Control Panel, under Course Tools, click Tests, Surveys, and Pools.



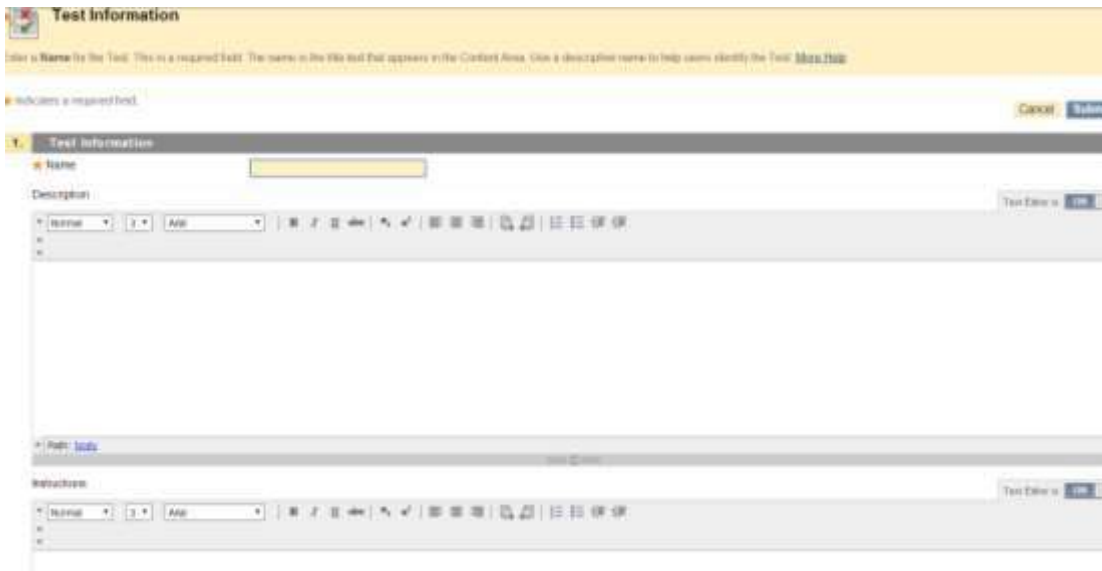
2. On the Tests, Surveys, and Pools page, click Tests.



- The Tests page displays any existing tests and allows you to build new tests.

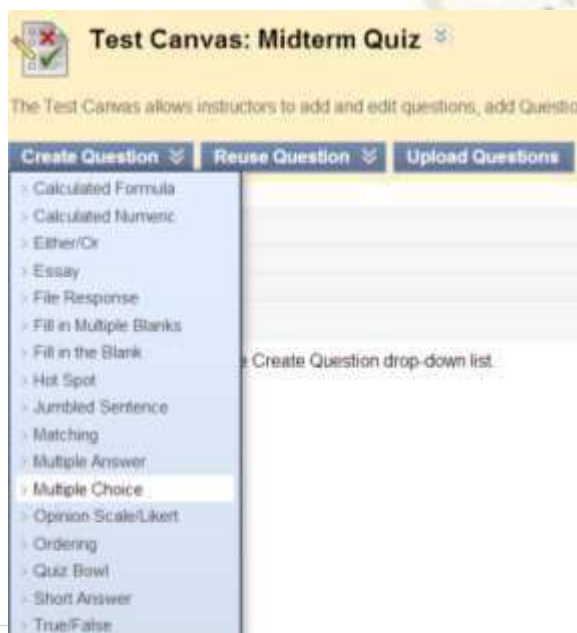


- On the Tests page, click Build Test.
- On the Test Information page, enter a Name, Description, and Instructions.
- Click Submit.



**Topic: Creating Multiple Choice Questions**

- On the Create Question drop-down list, select Multiple Choice.

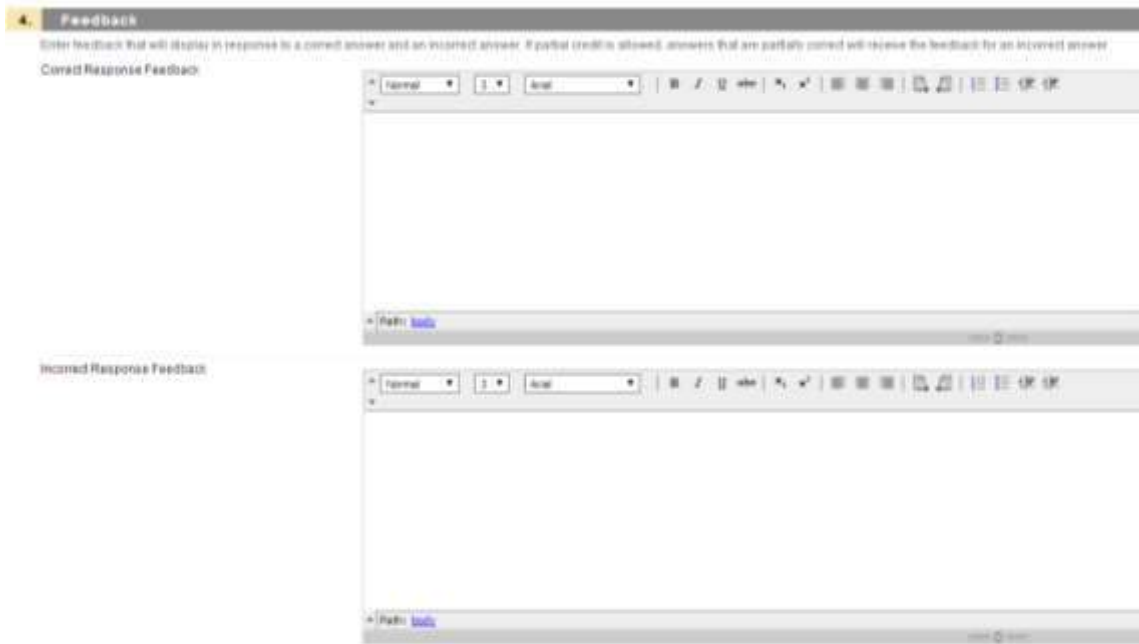


2. On the Create/Edit Multiple Choice Question page, enter the Question Text and title. Format the question with the Text Editor, if desired.
3. Select Options, such as how answers are numbered, orientation, and partial credit, if desired.

4. Select Number of Answers from the drop-down list.
5. Enter answers in the Answer text boxes.
6. Select the radio node for the Correct answer.



7. Optionally, enter Feedback for correct and incorrect answers.



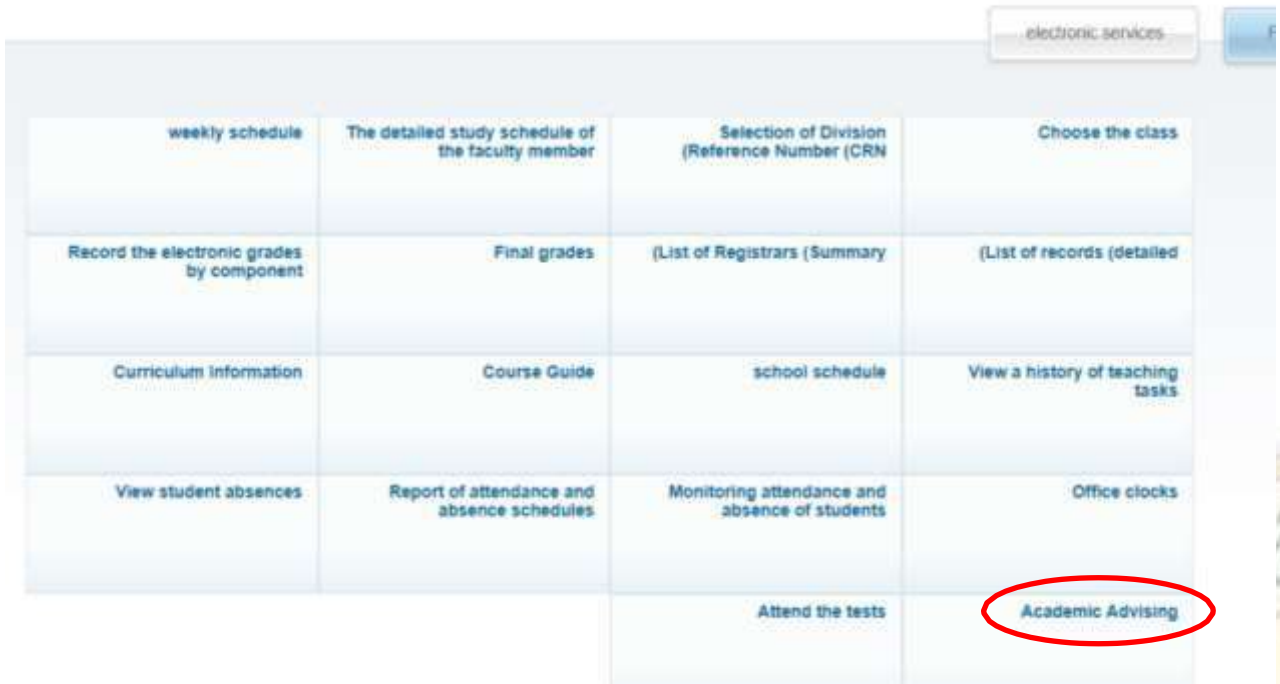
- 8. You can choose to give the question a category, topics, a difficulty, and keywords for sorting later.
- 9. You can also leave instructor notes for yourself for later.
- 10. Click Submit.



## Academic Advising

### Procedure for online academic advising

1. Log in to the banner and click on academic advisor from the below page



2. The list of students allotted to you will appear as below

الاسم	رقم الهوية	الحالة	الدرجة	الكلية	الفرقة	الصف	الوقت	العدد	الاسم	الاسم	الاسم	الاسم	الاسم	الاسم	الاسم	الاسم	الاسم	الاسم
محمد بن عبد الله	1111111111	✓	1	الرياض	الفرقة الأولى	الصف الأول	10:00	10	محمد بن عبد الله	محمد بن عبد الله	محمد بن عبد الله	محمد بن عبد الله	محمد بن عبد الله	محمد بن عبد الله	محمد بن عبد الله	محمد بن عبد الله	محمد بن عبد الله	محمد بن عبد الله
أحمد بن محمد	2222222222	✓	2	الرياض	الفرقة الأولى	الصف الثاني	11:00	10	أحمد بن محمد	أحمد بن محمد	أحمد بن محمد	أحمد بن محمد	أحمد بن محمد	أحمد بن محمد	أحمد بن محمد	أحمد بن محمد	أحمد بن محمد	أحمد بن محمد
فاطمة بنت علي	3333333333	✓	3	الرياض	الفرقة الأولى	الصف الثالث	12:00	10	فاطمة بنت علي	فاطمة بنت علي	فاطمة بنت علي	فاطمة بنت علي	فاطمة بنت علي	فاطمة بنت علي	فاطمة بنت علي	فاطمة بنت علي	فاطمة بنت علي	فاطمة بنت علي
عبد الرحمن بن خالد	4444444444	✓	4	الرياض	الفرقة الأولى	الصف الرابع	13:00	10	عبد الرحمن بن خالد	عبد الرحمن بن خالد	عبد الرحمن بن خالد	عبد الرحمن بن خالد	عبد الرحمن بن خالد	عبد الرحمن بن خالد	عبد الرحمن بن خالد	عبد الرحمن بن خالد	عبد الرحمن بن خالد	عبد الرحمن بن خالد

3. Click on the registration

View student absence	Study Plans	acadimec registration	C
View student absence	Study Plans	acadimec registration	C
View student absence	Study Plans	acadimec registration	C
View student absence	Study Plans	acadimec registration	C
View student absence	Study Plans	acadimec registration	C

4. Below page will open, it shows the courses completed by students.

اسم المادة	المعدل	الحالة
المادة الأولى	3.16	مكتملة
المادة الثانية	3.78	مكتملة
المادة الثالثة	4.41	مكتملة
المادة الرابعة	1.81	مكتملة

المعدل	عدد	إجمالي المعدل	إجمالي الساعات
3.16	1	3.16	3
3.78	1	3.78	3
4.41	1	4.41	3
1.81	1	1.81	3

5. Click on the middle icon study plan  
Once preregistration starts, it will show all the unregistered courses of students, you can discuss with students and can suggest the courses to be registered for the next semester.
6. After suggestion save and confirm.

**Repeat steps 5 and 6 for all students.**

7. Once you see green tick mark, advising is complete.

عرض غياب الطالب	الخطط الدراسية	المسجل الأكاديمي	الحالة	البريد الإلكتروني	المعدل	عدد
عرض غياب الطالب	الخطط الدراسية	المسجل الأكاديمي	✓	hhhussain.880@gmail.com	3.16	0
عرض غياب الطالب	الخطط الدراسية	المسجل الأكاديمي	✓	musa0aljassm@gmail.com	3.78	0
عرض غياب الطالب	الخطط الدراسية	المسجل الأكاديمي	✓	mohd12421@gmail.com	4.41	0
عرض غياب الطالب	الخطط الدراسية	المسجل الأكاديمي	✓	aaf1428@hotmail.com	1.81	0

## FACULTY ACTIVITIES

### 1. COCP organized a presentation on strategic planning 2016-2020

Quality Assurance Unit of COCP organized a presentation on strategic planning 2016-2020 on 20th February 2017, Monday at 1.30 pm. The presentation was started with introduction to strategic plan, its importance and different stages of planning by Dr. Afzal Haq Asif, Associate professor, Department of Pharmacy Practice. Dr. Afzal also highlighted the major achievements of strategic plan 2011-2015. He also listed some of the 2011-2015 goals, which were not accomplished. Then he showed the list of strategic planning committee members and their responsibilities. Further, Dr. Afzal explained the new vision, mission, goals and values and compared with KFU new vision, mission, goals and values. Followed by Dr. Afzal, Dr. Maged Elsayed, Associate Professor, Department of Pharmaceutical Sciences, showed the mapping of COCP goals with KFU goals. Then they discussed all the six COCP goals in detail with objectives of all the goals. At the end, they mentioned the requirements for successful implementation of new strategic plan 2016-2020 and time line. Faculty members, students and a representative from KFU University actively participated in the discussion. Finally, feedback was collected from all the attendees.







## 2. CCAPP visited College of Clinical Pharmacy for final accreditation

A team of CCAPP members Dr. K Wayne Hindmarsh and Dr. L Marvin Vercaigne visited COCP during 16-17<sup>th</sup> October 2017 for evaluating the accuracy of COCP self study. Main agenda of this visit was to follow up on outstanding issues and verify or revise its preliminary findings concerning both compliance and improvement. During the visit team members met President, Vice presidents and Dean to collect the administrative information. They also had meetings with curriculum committee, strategic plan and assessment committees. The meeting was also arranged with Pharm D students, APPE training students and with alumni. CCAPP members took complete tour of our new building and appreciated all the facilities. Team members are impressed with the skill and OSCE lab facilities.





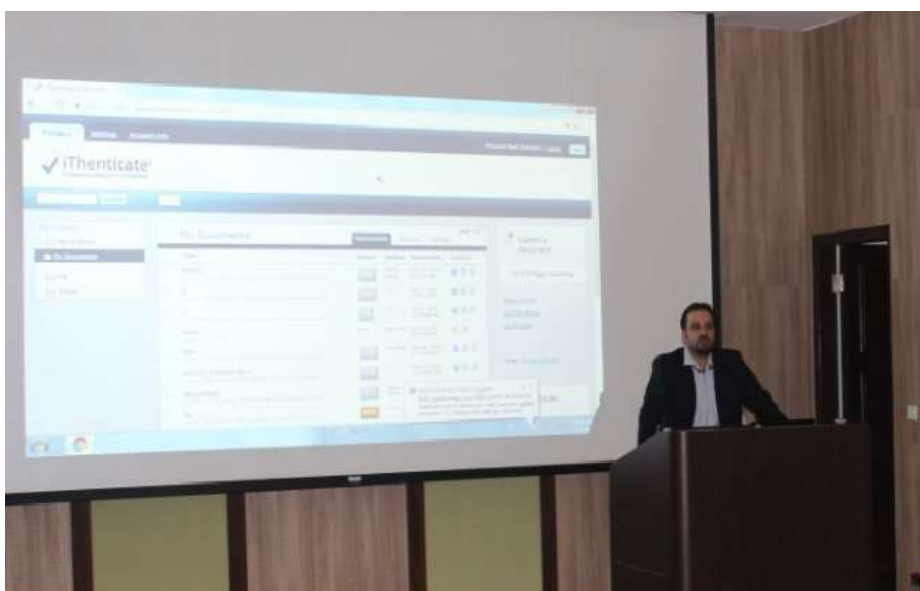
### 3. COCP participation at 6<sup>th</sup> KIPC 2017

Dr. Bandar E Aldhuaib, Respected Dean of COCP, DR. Yasir Ibrahim, Coordinator, Department of Pharmacy practice and Dr. Maged Elsayed, Assistant Professor, Department of Pharmaceutical Sciences, participated at 6th Kuwait International Pharmacy Conference. The theme of the conference was 2nd Forum On Advancing Pharmacy Education In The GCC And Middle-East. The conference was organized Under the Patronage of Prof. Nouria Al-Awadhi, Director General; National Bureau For Academic Accreditation & Education Quality Assurance, Kuwait. This event was held during February 9-11, 2017, at, Radisson Blu Kuwait. Many interesting topics regarding pharmacy curriculum, motivating students to be lifelong learners etc were discussed. Dr. Yasir was one of the evaluator for the poster session, where many students and faculty members presented their research work.



**4. COCP organized a presentation on iThenticate, the plagiarism detection software.**

College of Clinical Pharmacy organized a workshop on iThenticate, the plagiarism detection software. The workshop was co-organized by Professional Development Committee (PDC) and Learning Resources Committee (LRC). Mr. Mohanad Albaaj, Academic Sales Consultant, Techknowledge, presented the talk. The workshop took place during the activity hour (11:00 am-12:00noon) on Wednesday 4th January 2017, at COCP in the main auditorium for male faculty members and students. Female faculty and students followed the presentation through the video conferencing in the auditorium of the female side. Mr. Mahanad showed, how to register for the Ithenticate software, followed by uploading the document for plagiarism check. He also showed how to read the report and how to share the plagiarism checked documents with other colleagues and students. The session was focused on the full protocol to be followed in order to detect plagiarism in documents. All students and faculty members attended were benefited with the presentation.



**5. COCP organized a presentation on "Chemistry, Crystallography and Anti-TB Properties of Indolizine Analogues; Molecular Docking and Dynamic Inputs"**

Professional Development Committee, COCP organized a presentation on "Chemistry, Crystallography and Anti-TB Properties of Indolizine Analogues; Molecular Docking and Dynamic Inputs" on Tuesday 20th November 2018 during activity hour. Dr Katharigatta Narayanaswamy Venugopala, Assistant Professor, Department of Pharmaceutical Sciences delivered his research article entitled Molecular Modeling studies and anti-TB activity of trisubstituted indolizine analogues; Molecular docking and dynamic inputs, published in Journal of biomolecular Structure & Dynamics (2017). Dr Venugopala started his talk based on the present challenges that are facing with resistance developed by Mycobacterium tuberculosis and brief review on discovery of anti-TB drugs from couple of decades.

He explained the design of series of trisubstituted indolizine analogues by fragment based approach to target the inhibition of mycobacterial enoyl-acyl carrier protein reductase. Anti-tuberculosis (TB) screening of the characterized compounds by a resazurin microplate assay. A molecular docking study was also conducted to evaluate the stability of the active compounds, He also explained the SAR of Indolizine Analogues against susceptible and multidrug-resistant strains of Mycobacterium tuberculosis.



**6. COCP organized a presentation on Pharmacokinetic interaction between dietary black tea and carbamazepine in epileptic patients.**

Professional Development Committee and Students activity committee, of COCP organized a presentation on "Pharmacokinetic interaction between dietary black tea and carbamazepine in epileptic patients" on Tuesday 7th March 2017 during activity hour. Dr. Sabah Akrawi, Associate Professor, Department of Pharmaceutical Sciences

delivered his research article published in Latin American Journal of Pharmacy, during 2015. Dr. Sabah started his presentation with effects of black tea components on the liver enzymes and metabolism of carbamazepine and possible hypothesis that black tea might have effect on metabolism of carbamazepine. Then he explained the research methodology and results of their findings. The presentation was very interesting and informative. All faculty members and few students also attended the presentation and all participants actively participated during final discussion. The discussions opened many research problems to pursue further.



#### **7. President and Vice presidents Visit to COCP (2017)**

His Excellency Dr. Mohammad bin Abdulaziz bin Mohammed Al-Oahli, President, King Faisal University, Dr. Ibrahim Alhaider, Vice President for Academic Affairs, KFU, and Prof. Dr. Hassan bin Rfdan Alhajhoj, Vice President for Postgraduate Studies and Scientific Research, KFU visited the College of Clinical Pharmacy, on December 13, 2017. Dr. Bandar E. Aldhubaib, Dean, COCP and the entire faculty of the COCP received the president. HE Dr. Mohammad Abdul Aziz Al-Oahli during his address, he appreciated all the faculty members and administrative staff for their commitment and efforts in achieving Accreditation Council for Pharmacy Education (ACPE), USA certification for four years. He also appreciated the quality management unit and research accomplishments of COCP faculty and students. He expressed his confidence that the faculty will work with the same dedication in future, mainly concentrating on process. HE Dr. Mohammad Abdul Aziz Al-Oahli took a tour of college facilities, and appreciated the facilities and assured to provide any support required from the KFU Afterwards, HE Dr. Al-Oahli met with the College council where Dr. Bander

Aldhubaib briefed him about the progress of the college especially in connection with the CCAPP and NCAAA. He was happy to learn that college has overcome many of its weaknesses and he assured the College Council that the University would support the COCP to resolve those issues where University support is required. He was delighted with the teamwork, family environment and the cooperation among the faculty. At the end, Dr.Bandar E Aldhubaib thanked him for his attention and support.



**8. KFU President and Vice president Visit to COCP (2018)**

His Excellency Dr. Mohammad bin Abdulaziz bin Mohammed Al-Oahli, President, King Faisal University, and Dr. Ibrahim Alhaider, Vice President for Academic Affairs,

KFU, visited the College of Clinical Pharmacy, on March, 11th 2018. Dr. Bandar E. Aldhubaib, Dean, COCP and the entire faculty of the COCP received the president. HE Dr. Mohammad Abdul Aziz Al-Oahli took a tour of female section and appreciated the facilities. HE also observed the posters of students who received certificates and awards during different student's conferences. HE Dr. Mohammed Al-Oahli appreciated the efforts of faculty and students for their research work and for getting awards in conferences. HE DR. Mohammed Al-Oahli also addressed the faculty and students, during his address, he appreciated all the faculty members and students for their commitment and efforts in carrying out quality research and publication in high impact factor journals. He expressed his confidence that the faculty will work with the same dedication in future, mainly in training students both academically and in research. HE Dr. Mohammed Al-Oahli also offered to provide any support required from the KFU administration.





#### 9. COCP organized a presentation on 'A perspective in antiviral drug discovery'

Professional Development committee, organized a presentation on 'A perspective in antiviral drug discovery' on Tuesday 13<sup>th</sup> February 2018 during activity hour. The presentation was delivered by Dr. Mohammed Abdou, Associate Professor, Department of Pharmaceutical Sciences, COCP. The presentation started with introduction to different types of viruses and targets for antiviral drug development. Than Dr. Abdou explained about virus surface proteins responsible for fusion and development of antiviral drugs by targeting this protein. It was very interesting and faculty members actively involved in discussion at the end of the presentation



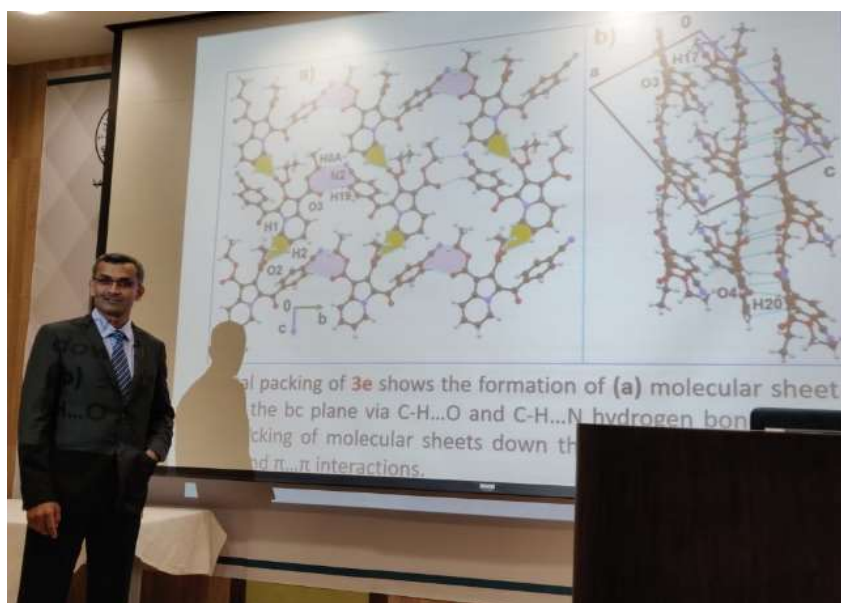
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Visit  
College website

[http://www.kfu.edu.sa/en/Colleges/Clinical Pharmacy/Pages/Home.aspx](http://www.kfu.edu.sa/en/Colleges/Clinical_Pharmacy/Pages/Home.aspx)





## **College of Clinical Pharmacy, King Faisal University**

PO Box 400, Al-Ahsa -31982,

Kingdom of Saudi Arabia

Phone: +966-3-5817175, +966-3-5800000, Extn:1783

Fax: +966-3-5817174

E-mail: [clinicalpharmacy@kfu.edu.sa](mailto:clinicalpharmacy@kfu.edu.sa)