

BACHELOR OF PHARMACY (BPHARM) CATALOG



Dubai Pharmacy College for Girls located in the Emirate of Dubai is officially licensed from 07/02/2016 to 20/01/2021 by the Ministry of Education of United Arab Emirates to award the Bachelor of Pharmacy degree in higher education DPCG has fulfilled the certification requirements set forth by ACPE for the Professional Degree Program in Pharmacy and Provisional Certification

(Category 1 and 2), is hereby granted through January 31, 2024

Praise be to Allah who taught man what he did not know and guided His servants through knowledge to the path of piety and obedience to Him. He Himself says in the Holy Book: Only those of his servants who are endowed with knowledge truly fear Allah. (35:28). And Allah's peace and blessing be upon Prophet Muhammad who taught humanity all things good, and guided it to righteousness and piety.



H. H. Shaikh Mohammed Bin Zayed Al Nahyan President of the United Arab Emirates



H. H. General Shaikh Mohammad Bin Rashid Al Maktoum
Vice President and Prime Minister of the
United Arab Emirates and Ruler of Dubai



H. H. Shaikh Hamdan Bin Mohammed Bin Rashid Al Maktoum

Crown Prince of Dubai

DPCG Academic Calendar- Academic Year 2019-2020 (1440-1441)						
First Semester						
Event	Day	Dates	Date / Hijri			
Beginning of 1st Semester for 2 nd , 3 rd and 4 th years	Sunday or Monday*	01/09/2019* Or 02/09/2019	01/01/1441			
Orientation & Beginning of M. Pharm 1st Semester classes	Friday	06/09/2019	07/01/1441			
Beginning of 1st Year classes and Welcome Ceremony	Sunday	08/09/2019	09/01/1441			
Mid- Semester Exams; 1st ,2nd and 3rd years	Sunday	20/10/2019	21/02/1441			
Beginning of Final Exams of 4th year	Sunday	01/12/2019	04/04/1441			
Winter Vacation	Sunday to Saturday	22/12/2019 to 04/01/2020	25/04/1441 to 08/05/1441			
Beginning of Final Exams for M. Pharm 1st & 3rd Semester	Friday	03/01/2020	08/05/1441			
Beginning of Final Exams for 1st, 2nd and 3rd years	Sunday	05/01/2020	10/05/1441			
Beginning of Re-sit Exams for 1st, 2nd and 3rd years	Sunday	02/02/2020 08/06/1441				
*According to the announcement of the Islamic New Year						
End of First Semester						
Second Sen	nester					
Beginning of 2nd Semester for 4th Year	Sunday	05/01/2020	10/05/1441			
Commencement of Classes for 1st, 2nd and 3rd years	Sunday	02/02/2020	08/06/1441			
Commencement of Classes for M. Pharm 2nd Semester	Friday	07/02/2020	13/06/1441			
Beginning of Final Examination of 4th year	Sunday	15/03/2020	10/07/1441			
Beginning of Mid- Semester Exams; 1st,2nd and 3rd year	Sunday	15/03/2020	20/07/1441			
Spring Vacation	Sunday to Saturday	29/03/2020 to 04/04/2020	04/08/1441 to 10/08/1441			
Beginning of Hospital Training for 4th year	Sunday	05/04/2020	12/08/1441			
Beginning of Final Examinations for 1st, 2nd and 3rd years	Sunday	07/06/2020	15/10/1441			
Beginning of Final Exams for M. Pharm 2nd Semester	Friday	05/06/2020	13/10/1441			
Announcement of all results	Saturday	04/07/2020	13/11/1441			
Beginning of Re-sit Exams	Sunday	05/07/2020	14/11/1441			

19/07/2020

28/11/1441

Sunday

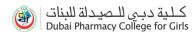
Summer Vacation Begins

Events				
Event	Date			
Arafah & Eid Al Adha holiday *	Saturday 10 th August - Tuesday 13 th August, 2019 –during Summer vacation			
Hijri New Year *	Saturday or Sunday (31 August or 1st September, 2019)			
Prophets Birthday*	Sunday 10 th November 2019 (12 th Rabi-Al Awaal)			
Student Leisure Trip- 1	3 th week of November, 2019			
Martyr's Day	Saturday 30 th November 2019			
UAE National Day	Monday & Tuesday 2 nd - 3 rd December, 2019			
New Year's Day	Wednesday 1st January, 2020 –during winter break			
Isra'a & Miraaj*	Sunday 22 nd March 2020 (27 th Rajab)			
Student Leisure Trip- 2	2 rd or 3 th week of April, 2020			
Farwell Party for Fourth year students	2 nd or 3 rd week of April, 2020			
29 th Ramadhan - Eid Al Fitr Holiday*	Saturday 23rd May – Tuesday 26 th May, 2020			
* Note : Islamic holidays are determined after sighting of the moon. Thus actual dates may not coincide with the dates in the calendar				

^{**}Beginning of Academic Year 2019-2020 will be on: Sunday 30th August, 2020

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Haji Saeed Bin Ahmed Al Lootah

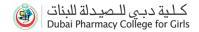
The Founder of Dubai Pharmacy College for Girls

Founder **Haji Saeed Ahmed Al Lootah** is famous for his diverse and successful business ventures, non-profit educational institutions, entrepreneurship, veracity as well as its profound dedication to corporate citizenship and sustainable development. His success spans across key business sectors from construction, real estate and energy conservation, to financial services, applied research, ICT, education, hospitality, media and healthcare among others.

With the enduring values of education, cooperation and economy which set the foundations of his work, Dubai Pharmacy College for Girls was established in 1992. The first pharmacy college, accredited by the Ministry of Higher Education and Scientific Research, UAE, is the result of single minded dedication of this great visionary.

His earlier educational ventures of importance and repute are- The Islamic School for Training and Education, Dubai Medical College for Girls, Dubai Institute for Environmental Research and Dubai Medical Centre for Treatment and Research.

Thanks to his vision and leadership, Dubai Pharmacy College for Girls continues to demonstrate unique values that extend well beyond its functional benefits creating greater economic, social and environmental benefits for people in the United Arab Emirates and beyond.



PREFACE: an insight into Dubai Pharmacy College for Girls



Prof. Dr. Saeed Ahmad Khan Dean, Dubai Pharmacy College for Girls

This is a challenging time to enter the pharmacy profession. With each passing year, the number of prescriptions increases and so does the role of a pharmacist. Welcome to Dubai Pharmacy College for Girlsthat offers an absolutely first-rate B.Pharm program, and so much more, all built on a tradition of excellence. That tradition is very long indeed.

Established in 1992 by Haji Saeed Ahmed Al Lootah, DPCG offered the first B.Pharm degree program in the Gulf region. In recognition, our College is accredited and licensed by the Ministry of Higher Education and Scientific Research, UAE in 1998. So, the Degree program has worldwide recognition. It is also endowed with the Dubai Quality Appreciation Award in 2004.

The modern facilities provided in the classrooms and, teaching and research labs would be a solid atmosphere for students who wish to study in pursuing a career as pharmacists who hold their own firm opinions based on scientific knowledge and researchers leading the field of Pharmaceutical Science and Life Science.

The curriculum has been designed to integrate the natural and social sciences with practice experience so that students will be able to learn, remember, and apply what they have been taught. Graduates of the DPCG program will learn to work collaboratively with other healthcare practitioners to help patients manage their medication regimens.

Early practice experiences will help DPCG students learn to communicate with patients, solve problems related to medications, and manage themselves and others in a practice environment. The practice experiences will become increasingly more challenging as students move through the student-centered curriculum. The fourth year will be entirely experiential. Students will complete over 900 hours of Professional Practice Experience (PPE) in community pharmacies, hospitals and pharmaceutical industries during their four years of study, enough to prepare them to enter practice upon graduation.

Every aspect of the teaching and learning processes will be continuously assessed to ensure that students are learning and instructors are teaching appropriately. Students, with the help of faculty advisors, will prepare Project portfolio to showcase their best work and document their progress in mastering the program's educational outcomes.

Dubai Pharmacy College for Girlsis proud of its tradition of close faculty student relations. We welcome all of you who have a strong will to fulfill your dreams as competent and successful healthcare providers. I assure, DPCG students will be well prepared to help patients manage their medication regimens and improve their quality of life.

Around the globe we have more than 600 alumni. Most of them are well placed or working towards higher degree in the US, UK, Canada, India, Syria, Egypt, Sudan - this stands a testimony to all our accomplishments.

1. A Chan



HISTORY of DUBAI PHARMACY COLLEGE

The great visionary and philanthropist Hajj Saeed Bin Ahmed Al-Lootah founded Dubai Pharmacy College for Girls in September 1992. It was created under the umbrella of Dubai Institute of Environmental Research, with the goal of establishing itself as a state-of-art institute in pharmaceutical education and research.

1992:	Dr. Mizza Rog. Director (DIED) was in charge. Dr. Saced Ahmad Man was appointed as the Head of Educational Unit
1992: 1992-'93:	Dr. Mizra Beg, Director (DIER) was in charge. Dr Saeed Ahmad Khan was appointed as the Head of Educational Unit. First batch of 27 students (16 girls and 11 boys) were enrolled.
1993	Prof. Fawzi Taha Ktob from Alexandria University took charge as the Dean.
1994-′95:	To provide internship to students DPC tied-up with Dubai Govt. Hospitals and Julphar Pharmaceutical Industry; for internship program for the students.
1996	April: Submission of the Form-A to the Ministry of the Higher Education and Scientific Research for the Accreditation process.
1996	October: Prof.J.S. Qadry was appointed as the Dean of the College.
1996	December: Graduation of the First Batch of Pharmacists.
1997	October: A team of experts from U.S.A visited the College to evaluate various facilities. A report was submitted to MOHE&SR.
1998	December: Got the approval and accreditation from the Ministry (MOHE&SR) as per its decree No (151) of 1998. The
	decree has authorized the College to award its graduates an approved degree of B.Pharm. Along with accreditation and deemed University status.
2001	February: Delegates from MOHE&SR visited the college again. Encouraging report was given. They also stressed that the college should start a Pharm.D.Degree program.
	August: Prof. Sobbi Ali Said took over as Dean
	-Dr. Saeed Ahmad Khan was appointed as Chief Academic Officer
	-Revised and updated syllabus and curriculum.
2004:	Awarded the Dubai Quality Appreciation Award for being the Best Teaching Institute in the UAE.
2007	February: Dr. Saeed Ahmad Khan was appointed as the Dean.
2007	Initiated the open lecture series 'Pharmatalk- Share and Inspire', providing a platform for sharing best practices.
	Introduced advanced courses; Pharmacogenomics, Pharmaceutical Technology, Instrumentation Techniques, Clinical
	Testing Methods, Alternative and Complementary Medicines and Clinical Pharmacy, Pharmacoepidemiology.
	Initiated Journal Alert Forum (JAF) to bring in awareness of E Journals, which resulted in periodical seminar presentations.
2008	Renovation of total infrastructure of the college, administration offices, faculty and staff offices, lecture rooms, the computer labs with all facilities.
	Major curriculum revision was done with the inclusion of newly revised assessment methods.
	New Administration Units and Committees were formed.
	Training in Global Pharmaceutical laboratories for student of the fourth year.
2011	DPC Newsletter, a monthly publication, was initiated with the aim of sharing experience and information covering news,
2011	events, faculty achievements and creative talents of students.
2013	This year is a proud moment in the history of Dubai Pharmacy College for Girls (DPCG) as the Masters Program got initial accreditation from the Ministry of Higher Education and Scientific Research, UAE; for two specializations: Clinical Pharmacy, and Pharmaceutical Product Development.
2015	Certificate course introduced in Drug Regulatory Affairs
2016	Awarded the GCC Pharma Outstanding Education Award.
	Re-accreditation for BPharm program by the Ministry of Education – Higher Education Affairs, UAE
2017	Introduced additional Certificate courses – Pharmacy Licensing and Pharmacovigilance
2018	Selected among 10 best valuable institutes in the UAE.
	Masters program was fully accredited by the Ministry of education – Higher Education Affairs, UAE.
	Education Leadership Award for Dean, Prof Saeed Ahmed Khan
	New research lab and labs for MPharm were designed in the DPCG extension in adjacent building.
2019	The infrastructure of the library was enhanced to include newly built study rooms to facilitate student learning. MoU with University of Strathclyde, United Kingdom to provide students in DPCG to pursue postgraduate/doctoral studie
-019	DPCG signed an MoU with Manipal Academy of Higher Education (MAHE - Dubai)



	DPCG Partnerships
PROF	ESSIONAL PRACTICE EXPERIENCE PARTNERS
ORGANIZATIONS	Description
Dubai Health Authority (DHA)	 Undergraduate students in their last semester undertake and under course Hospital training in different hospitals of DHA. Postgraduate students undertake their Clinical Clerkship in their final year of study
Iranian Hospital- Dubai	 Undergraduate students in their last semester undertake and under course Hospital training Postgraduate students undertake their Clinical Clerkship in their final year of study
Cleveland Clinic Abu Dhabi (CCAD)	Postgraduate students undertake their Clinical Clerkship in their final year of study
Military Hospital- Abu Dhabi	Postgraduate students undertake their Clinical Clerkship in their final year of study (applicable only for UAE Military staff)
MOHAP hospitals	 Postgraduate students undertake their Clinical Clerkship in their final year of study (applicable only for UAE nationals only in Al Qasimi Hospital, Al Baraha Hospital & Fujairah Hospital)
Thumbay Hospital- (GMU)-Ajman	 Undergraduate students in their last semester undertake and under course Hospital training Postgraduate students undertake their Clinical Clerkship in their final year of study in Thumbay Hospital – Ajman.
Emirates European Hospital	Undergraduate students in their last semester undertake and under course Hospital training
NMC Hospitals	Undergraduate students in their last semester undertake and under course Hospital training
Dr. Sulaiman Al Habib Hospital	Undergraduate students in their last semester undertake and under course Hospital training
Althiqa Pharmacy Group	Community Pharmacy training for undergraduate students
Aster Group	Community Pharmacy training for undergraduate students.
Monash University	Collaborate with Monash University to provide Simulation training
	ACADEMIC PARTNERS
University of Strathclyde	Memorandum of understanding with University of Strathclyde providing students the opportunity to pursue postgraduate /doctoral studies.
Universiti Sains Malaysia (USM)	Opportunity for students to pursue postgraduate/doctoral studies Faculty member in the Department of Clionical Pharmacy and Pharmacotherapeutics is an approved supervisor by USM
International Islamic University Malaysia (IIUM)	Opportunity for students to pursue postgraduate/doctoral studies Faculty member in the Department of Clionical Pharmacy and Pharmacotherapeutics and Department of Pharmaceutics are approved supervisors by IIUM
Manipal Academy of Higher Education –(MAHE- Dubai)	DPC and MAHE have common interest in field of pharmaceutical and life sciences education and research thus have a collaboration in the fields of academics, education and research.
Universitas 17 Agustus 1945 Jakarta	DPC and Universitas 17 Agustus 1945 Jakarta have common interest in field of pharmaceutical and life sciences education and research thus have a collaboration in the fields of academics, education and research.



SVKM'S Dr. Bhanuben Nanavati	DPC and SVKM'S Dr. Bhanuben Nanavati College of Pharmacy have common				
College of Pharmacy	interest in field of pharmaceutical and life sciences education and research				
	thus have a collaboration in the fields of academics, education and research.				
Ulster University, N Ireland	DPC and Ulster University, N Ireland have common interest in field of				
	pharmaceutical and life sciences education and research thus have a				
	collaboration in research, summer schools, exchange of staff and students and				
	joint course delivery.				
Institute of Pharmaceutical	DPC and UVAS have common interest in field of pharmaceutical and life				
Sciences, (IPS) University of	sciences education and research thus promoting academic and professional				
Veterinary and Animal Sciences	cooperation in training				
(Uvas), Lahore, Pakistan					
University of Colorado SKAGGS	DPC collaborates with University of Colorado SKAGGS School of Pharmacy				
School of Pharmacy and	and Pharmaceutical Sciences to provide studnets to clinical training				
Pharmaceutical Sciences					
Professional Regulatory Affairs	DPC partners with PRA to offer certificate courses in Regulatory Affairs,				
(PRA) Consultancy	Pharmacovigilance, etc.				
	STUDENT EXPERIENCE				
International Pharmaceutical	Students with the opportunity to explore numerous outreach activities,				
Student Federation (IPSF).	professional meetings, and student organization events.				



Vision

"To serve the healthcare community by nurturing competent and professional pharmacists while promoting a learning environment that fosters innovation, leadership, continued professional development and quality assurance, making DPCGG one of the leading institutions for the pharmacy education in the world."

Mission

"DPCG is committed to provide accredited pharmacy education at undergraduate and graduate level to female students based on Islamic values, advancement of pharmaceutical knowledge through research and community service in order to serve pharmacy profession, scientific community and public."

Accreditation and Licensure

Dubai Pharmacy College for Girls offers the following degrees:

- **I.** Bachelor of Pharmacy
- **II.** Master of Pharmacy with specialization in
 - Clinical Pharmacy

All the programs are accredited by the Commission for Academic Accreditation (CAA), Ministry of Education – Higher Education Affairs, UAE.



BOARD OF TRUSTEES



Haj Saeed Bin Ahmed Al Lootah (Late)
Founder and Former Chairman
Board of Trustees
New Chairman - TBA



H.E Lieutenant General Dhahi Khalfan Tamim
Lieutenant General and the current Deputy
Chief of Police and General Security.
Chairman
Board of Trustees



Eng. Yahya Saeed Lootah Vice Chairman, SS Lootah Group Vice Chairman - Board of Trustees



Eng. Hussain Nasser Lootah Executive Director, SS Lootah Group Former Director General of Dubai Municipality Member, Board of Trustees



Dr. Mohammed Murad AbdullaDirector, Foresight and Decision-Making
Support, Dubai Police
Member, Board of Trustees



Dr. Wadia Mohamed Al ShariefDirector, Medical Education and
Research Department, Dubai Health
Authority
Member, Board of Trustees



Dr. Fatima Sultan Al OlamaPediatrician, Champion of Women and
Children's Healthcare
Member, Board of Trustees



Suwaidi
Chairman, Sharjah Economic
Development Department (SEDD)
Member, Board of Trustees

Mr. Sultan Abdullah Bin Hada Al



Prof. Saeed Ahmed KhanDean, Dubai Pharmacy College for
Girls





Organizational Structure BOARD OF TRUSTEES - Chairman (to be decided) - Vice Chairman Comment to both Dubai Mediccal College and Dubai Pharmacy College for Citis • Strategic Planning, Budget & Review Advisory Board Admissions & Registration Dean/CEO Library • Research & Ethics Institutional Effectivesness Program Review and Assessment Unit Accreditation (Initial/Reaccreditation and Re-Licensure College Faculty Board Core Functional Units Administrative Units Chief Academic Officer Graduate Program Director DPCG E-Learning Coordinators General Education & Elective Dean's Office Clinical Pharmacy Examination & Evaluation Requirements **Enrollment and Records** Medical Science Courses Certificate Courses Faculty Development & Research Human Resources (Anatomy, Physiology, Bio chemistry, Pathology) (Regulatory Affairs, Pharma covigilance) Student Affairs Accomodation & Transportation Pharmaceutics Department* Student Counseling Community Engagement Health & Safety Pharmaceutical Chemistry Laboratories, Facilities Department* Safety & Security Finance & Accounting Professional Practice Experience Clinical Pharmacy and (BPharm & MPharm) Pharmacotherapeutics Department* Graduate Affairs & Career IT Services * Boch department has a Departmental Council Guidance Public Relations & Media Digital Education & Innovation Comments both Dubal Mediccal College and Dubal Pharmacy College for Gifs Reviewed and Updated: September 2021



1. Program

INSTITUTION: Dubai Pharmacy College for Girls, Dubai, UAE

DEGREE: Bachelor of Pharmacy

LENGTH & MODE: Four academic years, Full time
ACADEMIC PERIOD: First of September to End of July

MINIMUM REGISTRATION PERIOD: 4 years MAXIMUM REGISTRATION PERIOD: 6 years

Chief Academic Officer: Prof. Naglaa Gamil Shehab

2. Admission Requirements

To enroll in DPCG undergraduate degree program you will need to meet the minimum academic and English language requirements as outlined below:

Academic Requirements:

Applicants from a high school following the U.A.E. curriculum must have:

♦ The UAE High School Certificate – Science Stream (or equivalent) is required with an average score of 80% or more.

If you come from a high school following an International curriculum must have 12 years of school in Science Stream (or equivalent) with a minimum 80% or more. Equivalency certificate for a High School Certificate obtained abroad from UAE Ministry of Education.

Additional Requirements:

Students of GCSE/IGCSE curriculum must have completed five subjects (Biology or Human Biology, Chemistry, English Language, Mathematics or additional Mathematics or Statistics, and Physics) at the ordinary level with at least 2 B's and 3 C's grades, plus two subjects (Biology and Chemistry) at the GCE Advanced Subsidiary or Advanced level with at least B & C grade.

Students of International Baccalaureate Diploma must have completed six subjects with three at the standard level and three at the higher level with minimum 30 diploma points (equivalent grade of 80%) fulfilling following mandatory courses requirement:

- Standard or Higher level Math
- Standard or Higher level Biology
- Standard or Higher level Chemistry

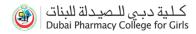
English Proficiency Requirements

All students are required to provide a certificate of English proficiency, such as Internet Based Test (IBT) TOEFL 61 out of 120. *TOEFL (PBT) will not be accepted.*

- International English Language Testing System (IELTS-Academic) 5.0
- Cambridge English: Advanced (CAE) with a test score of 41
- Pearson Test of English Academic (PTEA) score range of 36-46
- City & Guilds IESOL Test score of B1 First Class pass
- The Emirates Standardized Test (EmSAT) with a test score range 1100 1225

Exceptions are:

Any native speaker of English that has completed her secondary education in an English medium institution in any country where English is an official language.



Applications are initially reviewed by the college and applicant will be called for an interview. Final decisions rest with the college, which, after considering the recommendation of the department concerned, will notify the applicant of the decision.

Candidates should submit certificate in proof of having good character and provide evidence for their emotional, social and academic maturity from the Head of the Institution last attended.

DPCG Conditional Admission

Students who qualify for conditional admission will have to sign a note of undertaking of conditional admission that specifies the conditions that she must meet the minimum English Language Proficiency within a month from the date of joining. In case of not achieving the required score she will be turned out of the College.

Note: Conditional admission means that students are limited to enrolling in 15 credit hours for the first semester and cannot continue without the required minimum score as set by the *Ministry of Higher Education and Scientific Research, UAE.*

TRANSFER ADMISSION POLICIES

The College also welcomes applications from candidates studying with other educational institutions in BPharm. course who wish to transfer to DPCG. It may be possible to grant exemption from earlier part of the degree course in recognition of a candidate's success in her previous course of study.

The following are the necessary conditions for transfer to the DPCG from other Pharmacy Colleges:

- **1.** Dubai Pharmacy College for Girls (DPCG) accepts transfer of students from accredited College with a curriculum that is comparable to that offered at DPCG.
- **2.** Students must meet the English language proficiency requirements such as minimum TOEFL score of (61 IBT) or 5.0 in IELTS.
- **3.** The student must provide a letter of application to the Dean of the College specifying reason (s) for requesting transfer and desired date of transfer.
- **4.** Dubai Pharmacy College for Girls requires applicants to submit their transcripts for evaluation of transferable subjects /teaching hours from previous College experiences.
- 5. No student who has been dismissed from any Pharmacy College will be eligible for transfer to DPCG.
- **6.** All applicants must provide conduct certificates from the Pharmacy College where they are currently enrolled.
- 7. All applicants should contact the **<u>Dean's Office</u>** to inquire about having their transcripts reviewed.
- 8. The student transferring from another accredited college must be in a good academic standing (a minimum CGPA of 2.0, C grade, on a 4.0 scale or equivalent).
- 9. <u>Student applying for transfer to DPCG must study more than 60% of the syllabus of B. Pharm at DPCG.</u>
- **10.** The final decision for approval of transfer will be made by the Dean after review of the transfer request by the Chief Academic Officer of the College.
- **11.** Transfer of students is not allowed after second year.
- **12.** Before considering any application for transfer, existence of an appropriate seat for the student should be considered.
- **13.** Before attending Dubai Pharmacy College, attested records from the previous College and higher secondary school should be submitted to the Dean's secretary.



ADMISSION RULES FOR DIPLOMA IN PHARMACY & SCIENCE GRADUATES Diploma in Pharmacy holders will be admitted in second year of B.Pharm, if they meet the following requirements:

- 1) She should have passed the qualifying examination viz. Higher Secondary/Intermediate/10+2/GCE-A level "12 Grade" or equivalent with science subjects (Physics, Chemistry, Biology or Mathematics) from a school recognized by Ministry of Education, U.A.E. with not less than 80% marks in aggregate.
- 2) She should have passed Diploma in Pharmacy <u>with a good academic standing (a minimum CGPA of 2.0, C grade, on a 4.0 scale or equivalent).</u>
- 3) She should apply for admission to BPharm course in DPCG within five years after obtaining the Diploma in Pharmacy and also she should be working in the field related to Pharmacy.
- 4) Candidates should submit certificate in proof of having a good character and provide evidence for their emotional, social and academic maturity from the Head of the Institution last attended.
- **5)** Evidence of proficiency in English language should also be provided.

Science graduates and graduates in Medicine, Health Sciences, Dentistry and Veterinary Sciences can also be admitted to B. Pharm. course if they meet the following requirements:

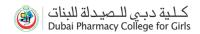
- 1) She should have passed the qualifying examination viz. Higher Secondary/Intermediate/10+2/GCE-A level "12 Grade" or equivalent with science subjects (Physics, Chemistry, Biology or Mathematics) from a school recognized by Ministry of Education, U.A.E. with not less than 80% marks in aggregate.
- 2) She should have passed Graduate Degree with <u>a good academic standing (a minimum CGPA of</u> 2.0, C grade, on a 4.0 scale or equivalent).
- 3) She should apply for admission in B. Pharm. course in DPCG within five years after obtaining her Graduate Degree and also she should be working in the field related to her specialization.
- 4) Candidates should submit certificate in proof of having a good character and provide evidence for their emotional, social and academic maturity from the Head of the Institution last attended.
- **5)** Evidence of proficiency in English language should also be provided.

Online Registration:

New applicants should follow the steps below to register online:



New applicants will be shortlisted and contacted. If you have any questions regarding the system, or should you encounter problems while using the system, call the college reception during office hours.



Registration Procedure:

Registration must be completed by the end of the July of each year. Authority to extend this deadline is vested on the Dean.

The applicant should fill the online application form and attach the required documents with 300/- AED and then submit it to Dean's office.

DOCUMENTS required for admission:

The following documents will be required to be submitted along with the application form. The original certificates should be brought in person by the applicant at the time of interview.

- **1.** Provisional certificate of the examination passed (Higher Secondary) on the basis of which admission is sought.
- 2. Mark-sheet of the examination passed.*
- **3.** Leaving certificate from the school last attended.
- 4. Six passport size color photographs.
- 5. Birth certificate.
- **6.** Character certificate from the Head of the Institution last attended.
- 7. Copy of the passport and resident visa (for expatriate students only).
- 8. Medical certificate.
- **9.** Document certifying TOEFL/IELTS requirements.

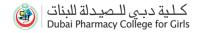
Note: School certificates from outside UAE should be attested from place of issue:

a) Country of Study

- Ministry of Education
- Ministry of Foreign Affairs
- The Embassy

b) UAE

• Equivalency certificate from Ministry of Education



3. Student Intake and Fee Structure

STUDENT INTAKE: Student intake will be limited to 70 students not exceeding 80 students in total.					
Fees	Total Amount/Year	Mode of Payment			
Tuition*	Dhs45,000 (+5% VAT applicable) Dhs1100/credit hour	Dhs22,500/- at time of admission Four installments			
Hostel	Dhs12000/- to 18000/-	Four installments with tuition fees.			
Transportation (+5% VAT a	pplicable)				
Dubai(daily)	Muhaisnah/Mezher/Mirdiff/Rashidiya/Twar/Qusais/ Nahda Dhs3000/- Deira/Bur Dubai/Satwa/Karama/Umm Suqaim/Jumeirah/Barsha Dhs4000/-	Four installments with tuition fees.			
Sharjah/Ajman(daily)	Dhs 5000/-				
AbuDhabi, Fujairah, Al Ain, Baniyaas (weekly)	Dhs 5000/-	Four installments with tuition fees.			

*NOTE:

The tuition fees once communicated will remain the same throughout the course for the four year of study. Transport and Hostel fees are subject to change.

FinancialAid

Dubai Pharmacy College for Girls as part of the Board of Trustees keen desire to attract outstanding girls students to the Dubai Pharmacy College, it is hereby decided as follows:

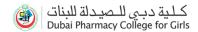
The College awards four scholarships to meritorious students each year who are newly admitted (equivalent to the tuition fee of the 1st year)

- > One student is awarded 50% scholarship
- One student is awarded 40% scholarship
- Two students are awarded 20% scholarship each

This scholarship remains with the students all four years if they maintain their merit in each academic year results. If they do not maintain good academic standing then other students with good grades are awarded the scholarship.

Grant of the above mentioned concession shall be subject to the following:

- **1.** Fulfillment of other conditions mentioned in the prevailing rules and regulations.
- **2.** Faithfully adhering to the Islamic educational codes and principles and other rules and regulations in force in the College.
- **3.** The College shall not be bound to continue the concession so granted in case of the students transfer to another College, or any change in her educational progress.
- **4.** Consistently obtaining not less than Excellent (grade) at all levels of studies.
- **5.** Priority for award of the concession shall be given to the candidate scoring the highest marks in the admission to the College.



Refund Policy of Tuition Fees

Dubai Pharmacy College for Girls admits only a very limited number of students, so if any student after admission cancels her admission then this will create a vacancy which could have been used by another qualified student. Therefore the College authorities are strict in their action for such students and they will not refund the fees paid at the time of admission until and unless a valid reason is provided for cancellation of admission.

The valid reasons can be:-

- 1. If a candidate faces visa difficulties from U.A.E. govt. that are out of College Control.
- **2.** If the guardian of the candidate faces sudden employment problems, such as termination, visa cancellation etc.
- **3.** If a candidate is granted a scholarship provided that it occurs after the date of fee payment. The refund usually is granted to student in first or second week after commencement of academic year to which they are admitted.

Refund requests should be made at the Registration office through a written request enclosing the ID card and original fee receipt. Refunds will be made after clearance of dues, if any. The amount paid is construed as your booking the seat for yourself in the college. The refund policy applicable is as follows:

In the case of withdrawal before joining the college	5% (applicable only on tuition fees)
For every month of attendance in case of withdrawal after joining the college:	
Bachelor of Pharmacy	AED 4500
Master of Pharmacy	AED 5000

Add/Drop/Withdrawal from Courses

Credit transfer system is not applicable for regular students as DPCG strictly adheres to the time-table schedule, the students cannot add or drop any regular courses allotted for each semester.

Withdrawal Policy

If withdrawal is required by a student in good standing, a written petition for withdrawal is made and approved by the Chief Academic Officer/ Graduate Program Director. Good standing designates any student not subject to probation or disqualification.

Leave of Absence:

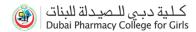
Students in good standing may request a Leave of Absence. A leave of absence allows a student to return to the same semester at any registration period for up to one year from the start of the leave without the necessity of re-applying but should fill in the Leave of Absence form. Students on scholarship who are in good academic standing will retain their award when returning to the College from a leave of absence not more than one year. Students returning from a Leave of Absence will need to fill out a readmission form available in the Dean's office.

Returning Student Readmission Policy:

If returning to first semester: Readmission form must be submitted on or before the start of the term. If returning to second semester: Readmission form must be submitted on or before the first week of second semester of the same year.

Students returning from a *Leave of Absence* who have a tuition balance are subject to the rules regarding overdue tuition balances in place at that time. After one year, students will have to re-apply for admission and if applicable, for scholarship.

Students' Leave of Absence that exceed one calendar year from date of request will have their status changed to "Withdrawal."



4. Prospective Careers

Various avenues open to pharmacists in different areas of activity are as follows:

1) Community Pharmacy (Retail Pharmacy)

- > Dispensing of prescriptions after review
- Selection of non-prescription drugs
- ➤ Pharmaceutical care of certain diseases
- > Purchasing, storing and dealing of pharmaceutical products

2) Hospital Pharmacy (Clinical Pharmacy – Pharmaceutical Care)

- Dispensing of prescriptions after review
- ➤ Answering gueries through Drug Information Center
- > Therapeutic Drug Monitoring
- > Dealing with intravenous admixtures
- ➤ Pharmaceutical Care (prevents drug interactions and adverse drug reactions, proper use of drug products, ensure compliance, discover and solve adverse drug reactions)
- Production of certain radioactive drug products
- Administration, purchasing and participating in selection of drugs

3) Pharmaceutical Industry

- > Synthesis and analysis of raw materials
- > Extraction of active ingredients from medicinal herbs, and other natural products
- Production of pharmaceutical products
- Quality Control of pharmaceutical products
- > Research and Development
- ➤ Marketing and promotion of drugs/Distribution of pharmaceutical products

4) Government Organizations (MOH & DHA)

- > Control and auditing of community hospital pharmacies
- > Drug Registration and Control
- > Defense and Interior Ministry pharmacies
- > ADR monitoring

5) Research and Development Centres

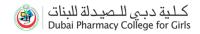
- Research on drugs in various research centers
- > Research on medicinal herbs, natural products, biotechnology and genetic engineering
- Research on other areas of pharmaceutical sciences

6) Universities and Colleges

- ➤ Work as Demonstrators/Teaching Assistants
- > Seek higher education to obtain Diploma, Masters and Ph. D. degree

7) Other Careers

- ➤ Medicinal Diagnostic Laboratories
- > Pharmaceutical Consultation
- ➤ Marketing for Drug Products
- ➤ Nuclear Pharmacy and Forensic Pharmacy
- > Insurance companies



5. BPharm Program Aims and Outcomes

5. A. General Education Program

PROGRAM OBJECTIVE

General Education program builds on a foundation that prepares lifelong learners who will be engaged citizens in a complex and dynamic world in which they will live and work.

PROGRAM OUTCOMES
Apply mathematical and statistical reasoning to discipline specific problems and decision making
Interchange ideas and information effectively through writing, speech, and visual and digital media
Assess and weigh moral beliefs and practices, and their applications to ethical dilemmas
Locate, evaluate, cite, and effectively using information
Acquire knowledge and analytical skills to understand a variety of perspectives and experiences.
Systematic questioning and analysis of problems, issues, and claims
Acquire knowledge in science-based health fitness and aesthetic concepts.



5. B. BPharm Program

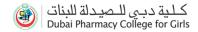
PROGRAM OBJECTIVES

- 1. Offer a highly motivated educational environment to provide the students with profound knowledge of various fundamental, pharmaceutical and clinical sciences.
- 2. Develop the ability of the students to utilize the acquired knowledge to contribute productively in various fields of pharmaceutical and clinical settings.
- 3. Produce graduates with professional skills needed to ensure effective communication with health care members, patients and community following professional code of ethics.
- **4.** Develop a highly competent, responsible, life-long learner pharmacist with the vision of continuous professional development.

	PROGRAM OUTCOMES				
QF Emirat Level 7	On successful completion of this program the students will be able to:	Learning/ Teaching Methods and Strategies	Types/ Methods of assessment		
Knowledge	Knowledge A1. Acquire knowledge and understanding of natural and synthetic drugs, drug isolation, structural design, synthesis, and chemical structural relation with pharmacological activity and toxicity, analysis of drug and pharmaceutical products by qualitative and quantitative methods. A2. Acquire knowledge of the basic concepts and techniques involved in manufacturing and quality assurance of different pharmaceutical and biotechnology based products considering physicochemical, biopharmaceutical and pharmacokinetics aspects. A3.Gain the comprehensive knowledge of biomedical, pharmacokinetics, pharmacodynamics& toxicological principles of medications appropriate to apply in clinical settings. A4. Understand various concepts, policies and procedures related to pharmacy practice in different clinical settings including hospital and community.		Written Examinations, Practical Reports, Project Report, PBL assessment		
Skills	 B1.Acquire the basic skills and techniques involved in drug manufacture and development, drug design and screening, quality control and analysis of pharmaceutical products. B2.Communicate effectively orally and in writing and deploy a range of presentation techniques within workplace setting. 	Practical classes, Project Work, Workshops, Problem Based Learning, Case	Oral, poster presentation, Seminars, OSCEs, practical, Case based		



	B3. Interpret prescription orders, integrate the knowledge of biostatistics and clinical calculations in identifying problems with drug therapy, formulate solutions and assess risk associated with the solutions to deliver the best pharmaceutical care to the patients.	studies, Computer Lab	assessment, Project Report & Capstone Project
Competencies	C1.Demonstrate the leadership ability and take responsibilities to function both independently and as a member of a team. C2. Develop self-learning skills, problem solving skills and critical thinking abilities for professional development and become independent life- long learner. C3. Display Islamic behavior, moral and ethical attitudes to practice the profession competently and ethically.	Problem Based Learning, Prescription evaluation, Workshops, E-learning, Communication skills classes, Self-Directed Learning	PPE, OSCEs, Written examinations, Calculations in Practice and PBL assessments Capstone Project



6.Study Plan for the BPharm Program

Dubai Pharmacy College for Girls accepts only female students with General Secondary School Certificate or its equivalent with science subjects (Physics, Chemistry, Biology, or Mathematics) for admission to Bachelor of Pharmacy degree program. The BPharm curriculum requires a minimum of 164 hours

Dubai Pharmacy College for Girls grants its students, after successful completion, Bachelor's Degree in Pharmacy (B. Pharm.). The total program of Dubai Pharmacy College for Girls extends over four academic years and the maximum course duration to complete the degree within a reasonable time frame of six years. The academic year starts in September and ends in the third week of July.

- Each academic year is divided into 3 semesters except first year (2 semesters only).
- The first and second semesters are composed of twenty weeks of which 15 weeks devoted to teaching
- Summer semester is composed of 4 weeks in which 2 subjects only will be delivered (Third week of June-Third week of July)

BPharm Program Objectives mapping against Program Outcomes										
Program objectives	Program outcomes									
	Knowledge			Skills			Competencies			
	A 1	A2	А3	A4	В1	B2	В3	С	С	C 3
Offer a highly motivated educational environment to provide the students with profound knowledge of various fundamental, pharmaceutical and clinical sciences.	√	√	√	√						
2. Develop the ability of the students to utilize the acquired knowledge to contribute productively in various fields of pharmaceutical and clinical settings.					√		√			
3. Produce graduates with professional skills needed to ensure effective communication with health care members, patients and community following professional code of ethics.						√				
4. Develop a highly competent, responsible, lifelong learner pharmacist with the vision of continuous professional development.								√	√	√

• Each week has five teaching days which accounts for 30 teaching hours in a week.



	No. of Courses	Credit Hours	%					
Elective Courses	3	6	3.6%					
General Education Courses	8	18	11.0%					
Core requirement	42	118	72.0%					
Professional Practice Experience(PPE)	3	20	12.2%					
Capstone Project (CS)	1	2	1.2%					
Total	57	164	100%					

Domain	No. courses	Credit Hours	%
PS-Pharmaceutical Science	13.5	41	34.7%
BS-Basic Sciences	2	7	5.9%
CS-Clinical Science	19.5	52	44.1%
BBS-Basic Biomedical Sciences	7	18	15.3%
Total	42	118	100%



6.1. Distribution of Courses

Academic Year 2019-2020

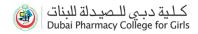
	FIRST YEAR									
First Semester										
Code	Domain	Courses	Prerequisite	Corequisite	Lecture	Practical	Total Units			
PN701	BS	Organic Chemistry- I	-	-	3	1	3			
MC701	BBS	Anatomy and Physiology I	-	-	2	1	3			
MC702	BBS	Medical Terminology	-	-	1	-	1			
GE701	GE	Mathematics and Statistics	-	-	3	-	3			
GE702	GE	English Language and Study Skills	-	-	2	1	3			
PC701	GE /PS	Introduction and History of Pharmacy	-	-	2	-	2			
GE703	GE	Computer application			-	2	2			
		TOTAL	-	-	13	4	17			
		Second Se	mester							
Code	Domain	Courses	Prerequisite	Corequisite	Lecture	Practical	Total Units			
PN702	BS	Organic Chemistry- II		-	3	1	4			
PN703	PS	Natural Products I	-	-	3	1	4			
GE704	GE	Islamic Studies	-	-	2	-	2			
PC702	PS	Physical Pharmacy			3	1	4			
MC703	BBS	Anatomy and Physiology-II		-	3	1	4			
GE705	GE	General Psychology	-	-	2	-	2			
		TOTAL	-	-	16	4	20			



Academic Year 2020-2021

	SECOND YEAR									
	Fall Semester									
Code	Domain	Courses	Prerequisite	Corequisite	Lecture	Practical	Total Units			
GE706	GE	Environmental Sustainability	-	-	2	=	2			
PN704	PS	Pharmaceutical & Medicinal Chemistry –I	PN702	-	3	-	3			
PN705	PS	Natural Products II	PN702, PN703	-	2	1	3			
MC704	BBS	Biochemistry	MC703	-	2	-	2			
MC705	BBS	Medical Microbiology	-	-	3	1	4			
PC703	PS	Pharmaceutics- I	PC701, PC702		2	1	3			
		TOTAL	-	-	14	3	17			
		Sp	oring Semester							
Code	Domain	Courses	Prerequisite	Corequisite	Lecture	Practical	Total Units			
PN706	PS	Pharmaceutical & Medicinal Chemistry –II	PN704	-	2	1	3			
CP701	CS	Pharmacology and Therapeutics I	MC704, MC703	-	3	1	4			
CP702	CS	Clinical Biochemistry	MC704	-	2	1	3			
PC704	PS	Pharmaceutics-II	PC701; PC702	-	2	1	3			
MC706	BBS	Immunology	MC705		2	-	2			
MC707	BBS	Pathology	MC703	-	2	-	2			
·		TOTAL	-	-	13	4	17			

	Summer Semester (three weeks continuously) =30 Lectures								
Code	Domain	Courses	Prerequisite	Corequisite	Lecture	Practical	Total Units		
CP703	CS	Social and Behavior Aspects in Pharmacy	GE704	-	2	-	2		
EC7011 EC7012	EC	Elective area I	-	-	2	-	2		
	Total				4	-	4		



Academic Year 2021-2022

		TH	IRD YEAR							
	Fall Semester									
Code	Domain	Courses	Prerequisite	Corequisite	Lecture	Practical	Total Units			
PN707	PS	Pharmaceutical & Medicinal Chemistry-III	PN706, MC705		3	-	3			
PC707	PS	Pharmaceutical Technology	PC703; PC704	-	2	1	3			
PC705	PS	Basic Genetic and Pharmaceutical Biotechnology	MC705; PC703		3	-	3			
PC706	PS	Biopharmaceutics and Pharmacokinetic	CP702, PC703; PC704	-	3	0	3			
CP704	CS	Pharmacology and Therapeutics-II	CP701	-	3	1	4			
CP705	CS	Alternative and Complementary Medicine	PN705, CP701	CP704	2	-	2			
		TOTAL		-	16	2	18			
Code	Domain	Professional Practice Experience	No of Hours		No of C	redit Hours				
PPE01	CS	Introductory Professional Practice Experience	200			4				
		Spri	ng Semester							
Code	Domain	Courses	Prerequisite	Corequisite	Lecture	Practical	Total Units			
PN708	PS	Instrumental Analysis	-	PN707	2	1	3			
CP706	CS	Pharmacology and Therapeutics- III	CP704	-	3	1	4			
CP707	CS	Clinical Pharmacy and Pharmaceutical Care	CP701, CP704	CP706	3	-	3			
CP708	CS	Pharmacy Practice	CP704		3	1	4			
CP709	CS	Clinical Toxicology	CP704	-	2	-	2			
CP710	CS	Applied Pharmacokinetics	PC706		2	-	2			
		TOTAL			15	3	18			

Professional Practice Experience						
Code	Domain	Professional Practice Experience	No of Hours	No of Credit Hours		
PPE03A	CS	Advanced Professional Practice Experience	100	2		

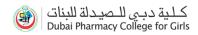
	Summer Semester (three weeks continuously) =30 Lectures									
Code	Domain	Courses	Prerequisite	Corequisite	Lecture	Practical	Total Units			
EC7021										
EC7022	EC	Elective area II	-	-	2	-	2			
EC7023										
EC7031	r.c	Floative erec III			2		2			
EC7032	032 EC	Elective area III	-	-	2	-	2			
Total				4	-	4				



Academic Year 2022-2023

		FOU	IRTH YEAR				
		Fai	II Semester				
Code	Domain	Courses	Prerequisite	Corequisite	Lecture	Practical	Total Units
CP711	CS	Pharmacology and Therapeutics- IV	CP706	-	3	1	4
GE707	GE	Innovation and Entrepreneurship	-		2	-	2
CP713	GE/CS	Research Methodology & Biostatistics	GE701, GE702, GE703	-	2	-	2
CP714	CS	Professional Skills in Practice	CP708	-	1	2	3
CP715	CS	Pharmacy Laws and Drug Regulations	-		1	-	1
CP716	CS	Pharmacoepidemiology & Pharmacovigilance	CP707	-	2	-	2
		TOTAL			11	3	14
		Professiona	l Practice Experien	ce			
Code	Domain	Professional Practice Experience					
PPE02	PS	Industrial Professional Practice Experience	100			2	
		Spri	ng Semester			_	1
Code	Domain	Courses	Prerequisite	Corequisite	Lecture	Practical	Total Units
CP712	CS	Pharmacogenomics	CP701; PC705	-	2	-	2
CP717	CS	Integrated Problem Based Learning	CP707,Cp701,C p702	-	-	3	3
CP718	CS	Hospital Pharmacy	CP707	-	2	-	2
CP719	CS	Pharmaceutical management	-	-	2	-	2
CP720	CS	Pharmacy Automation & Informatics	CP713		2	-	2
PC708	PS	Pharmaceutical Calculations in Practice	PC702; GE701	_	2	-	2
CS701		Capstone Project	-		-	2	2
		TOTAL	-	-	10	5	15

	Professional Practice Experience							
Code	Domain	Professional Practice Experience	No of Hours	No of Credit Hours				
PPE03B	CS	Advanced Professional Practice Experience	600	12				



7. Courses of	Study	in the BPharm program	
General Education (GE)	18	Pharmaceutical Sciences (PS)	41
Mathematics and Statistics	3	Natural Products I	4
English Language and Study Skills	3	Physical Pharmacy	4
slamic Studies	2	Pharmaceutical & Medicinal Chemistry –I	3
Research Methodology	1	Natural Products II	3
General Psychology	2	Pharmaceutics- I	3
Computer Applications	2	Pharmaceutical & Medicinal Chemistry –II	3
listory of Pharmacy	1	Pharmaceutics-II	3
Environmental Sustainability	2	Pharmaceutical & Medicinal Chemistry-III	3
nnovation and Entrepreneurship	2	Instrumental Analysis	3
	'	Basic Genetic and Pharmaceutical Biotechnology	3
Basic Sciences (BS)	7	Biopharmaceutics and Pharmacokinetic	3
Organic Chemistry I	3	Pharmaceutical Technology	3
Organic Chemistry II	4	Pharmaceutical Calculations in Practice	2
-		Introduction to Pharmacy	1
Basic Biomedical Sciences (BBS)	18	,	
Anatomy and Physiology I	3		
Anatomy and Physiology II	4	Clinical Sciences (CS)	52
Medical Terminology	1	Clinical Biochemistry	3
Biochemistry	2	Social and behavior aspects in Pharmacy	2
Pathology	2	Pharmacology and Therapeutics I	4
Medical Microbiology	4	Pharmacology and Therapeutics-II	4
Immunology	2	Alternative and Complementary Medicines	2
Electives (EC)*	6	Pharmacology and Therapeutics- III	4
Elective (choose from Area-I)	2	Clinical Pharmacy and Pharmaceutical Care	3
Elective (choose from Area-II)	2	Pharmacy Practice	4
Elective (choose from Area-III)	2	Clinical Toxicology	2
Area I		Applied Pharmacokinetics	2
EC7011 -Organizational Behavior and Cultural Diversity		Pharmacology and Therapeutics- IV	4
EC7012- Emotional Intelligence and Leadership		Pharmacogenomics	2
, , , , , , , , , , , , , , , , , , ,		Biostatistics	1
Area II		Professional Skills in Practice	3
EC7021 - Nuclear Pharmacy		Pharmacy Laws and Drug Regulations	1
EC7022 - Bioassay		Pharmaceutical Management	2
,		Integrated Problem Based Learning	3
Area III		Hospital Pharmacy	2
EC7031 - Nutrition and Health		Pharmacoepidemiology & Pharmacovigilance	2
EC7032 - GMP Guidelines in Pharmaceuticals		Pharmacy Automation & Informatics	2
		Professional Practice Experience (PPE)	20
		Introductory Professional Practice Experience (PPE-I)	4
Capstone Project (CS)	2	Industrial Professional Practice Experience (PPE-II)	2



Canatana Project (CC)	1 2	Advanced Professional Practice Experience (PPE-III)	1.4	1
Lapstone Project (CS)	1 /	Advanced Professional Practice experience (PPE-III)	14	1



8. Course Description

GENERAL EDUCATION

Mathematics and Statistics

Credit Hours: 3+0

The course will introduce basic mathematical concepts and calculations required for the subsequent studies of pharmaceutical and clinical calculations. The course includes introduction of important mathematical concepts through the development of mathematical techniques. Students will be equipped with the skills needed to apply mathematical techniques correctly. Statistical concepts will be introduced helping students to analyze data using quantitative analysis techniques, measures of central tendency and measures of spread, samples and populations and histograms.

English Communication and study Skills

Credit Hours: 2+1

This course is designed to enable the students to achieve oral and written communication skills. The course integrates the language skills with emphasis on writing, and it stimulates students' imagination, and promotes self-expression. Students in this course are trained to apply critical thinking skills to a wide range of challenging subjects from diverse range of topics focusing on healthcare related issues. Course activities include writing various types of academic genre, acquiring vocabulary, and getting involved in group discussions and debates. The course is taught paying attention to small groups. Students, in this course, are assessed by using diverse tools, such as presentations, assignments and exams.

Computer Applications

Credit Hours: 0+2

The aim of this course is to provide students, the ability to access e-learning tools with the help of Learning Management System to facilitate remote online learning. It will provide students, the ability to format and document text, numeric data, referencing methods, presentation skills using MS. office applications, while using technology to support education goals and reinforcing skills that help them to demonstrate the responsible use of technology and an understanding of ethics and safety issues in using electronic media.

Islamic Studies Credit Hours: 2+0

The aim of this Islamic studies course is to give the students a comprehensive understanding of the main two sources of Islamic Legislation: Holy Qur'an and sunnah (prophet Mohamed Hadith). This course deals with definition of the Holy Qur'an with an explanation of selected Qur'anic verses, the definition of Sunnah with an explanation of selected Prophet's sayings (Hadith), study sections of the biography of the prophet (PBUH), and the definition of schools of jurisprudence and the reasons for their differences, with an indication of the most important sources and references of Islamic studies.

General Psychology Credit Hours: 2+0

The aim of this course is to provide the students with the knowledge of the basic fundamentals in Psychology. The content of each session is driven by a set of student-centered learning objectives and targeted feedback.

Environmental Sustainability

Credit Hours: 2+0

The course introduces the global environmental issues linked to different climatic factors. The course covers current global environmental issues related to ecological factors and studies the importance of renewable and alternative sources of energy. It also examines major threats posed by the environment due to climatic changes.

Innovation and Entrepreneurship

Credit Hours: 2+0

This course aims to provide the students with an overview of the key concepts of strategic planning as a fundamental component of the Innovation & Entrepreneurship

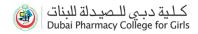
General Education/Pharmaceutical Sciences (GE/PS)

Introduction and History of Pharmacy

Credit Hours: 1+1

This course introduces the student to the profession of pharmacy and the role of the pharmacist within health care delivery systems, it gives preview about the history of pharmacy and the different historical Eras, the important contributions of the ancient people and cultures to the evolution of the profession. Also, it describes the legislative, ethical and professional standards in which the profession of pharmacy operates, the calculation of concentration expressions. This course also introduces basic concepts in pharmaceutics including discussion on dosage forms design, routes of drug administration, pharmaceutical preparations, medical prescription, labelling of medications and pharmaceutical Latin abbreviations. Besides, the course teaches extemporaneous dispensing and the fundamentals in the calculation of concentration expressions.

General Education/ Clinical Sciences (GE/CS)



Research Methodolgy & Biostatistics

1+1

This is an intensive introductory course to understand the basic concepts of pharmaceutical, clinical research & statistical methods used in applied research. This helps the students in getting acquainted with different research strategies and identifying potential research plans that will help them in their future research projects. This course help the students to develop the writing skills of research proposal, reports, thesis & articles in international standards. The course familiarize the students with the use of a statistical package and give them the skills needed for effective data management, data manipulation, a data analysis at a basic level. The course will develop basic skills in the use of a statistical package through classroom demonstrations and independent lab

BASIC BIOMEDICAL SCIENCES

Anatomy and Physiology-I

Credit Hours: 2+1

The course offers a comprehensive knowledge of the structure and function of the human cell, integumentary, Blood, skeletal, muscular and nervous systems. The information offered by the course forms the foundations for further understanding of pharmacology, pathology, pathophysiology, and medicine. It gives the student an opportunity to develop into an independent learner and researcher.

Medical Terminology Credit Hours: 1+0

Medical terminology is the study of the principles of medical word building to help the student develop the extensive medical vocabulary used in health care occupations. Students receive a thorough grounding in basic medical terminology through a study of root words, prefixes and suffixes. The study focuses on correct pronunciation, spelling, abbreviations and use of medical terms.

Anatomy and Physiology-II

Credit Hours: 3+1

The course offer a comprehensive knowledge of the structure and function of the digestive, cardiovascular, respiratory, renal system, endocrine and reproductive systems. The information offered by the course forms the foundations for further understanding of pharmacology, pathology, pathophysiology, and medicine. It gives the student an opportunity to develop into an independent learner and researcher.

Biochemistry Credit Hours: 2+0

The course provides the Pharmacy students with the knowledge to understand the mechanisms of life, acid base balance, structure- function relationship and clinical correlation of different biomolecules including carbohydrate, lipids, amino acids, proteins, enzymes, hemoglobin and fibrous proteins and ultimately energy production through oxidative phosphorylation reactions in mitochondrial electron transport chain.

Medical Microbiology Credit Hours: 3+1

Medical Microbiology is an exciting discipline with far-reaching impacts in human health and disease. This course will introduce students to the microbial species that cause human disease. We will cover bacteria, fungi, and viruses and discuss current topics including antibiotic resistance, public health threats, and global health. The course also discusses various issues related to Sterilization, Sterility testing, Microbial spoilage & preservation of pharmaceutical products. Laboratory focuses on the Fundamental microbiological techniques. This course is therefore intended to provide knowledge in Microbiology and students will gain both background and experimental experience in the broad field of microbes setting foundation needed for more advanced and specialized courses.

Immunology Credit Hours: 2+0

The aim of this course is to provide the students an understanding of immune system, important theories of immunology and the different types of failures of immune system. The students will be aware of immunohematology and various immune therapies which include Biotherapeutics, Immune stimulants, Immune suppressants and Monoclonal antibodies.

Pathology Credit Hours: 2+0

The course provides the students with the basic knowledge and conceptual understanding of the pathology of various diseases. Thus the student will be familiar with the names, classification, pathogenesis and pathological changes in the various body tissues in different diseases.



Credit Hours: 3+0

Credit Hours: 2+1

Credit Hours: 3+0

Basic Sciences (BS)

Organic Chemistry- I Credit Hours: 3+0

This course describes the basics of organic chemistry as atomic structure, orbital theory, hybridization, bond characteristics and chemical bonding. This course also describes the role of electronegativity on the polarity of chemical bonding, resonance effect, isomerism, and nomenclature of organic compounds.

Organic Chemistry- II Credit Hours: 3+1

This course describes the structural configuration, physical properties, preparation methods, and chemical reactions/reaction mechanism of aliphatic, aromatic hydrocarbon, substituted hydrocarbons, polynuclear hydrocarbons, esters, ethers, thioethers, alcohols, carboxylic acids, aldehydes, ketones, amines, diazonium salts and heterocyclic compounds. Laboratories include identification of functional groups of different organic molecules and preparation of few selected organic compounds.

PHARMACEUTICAL SCIENCES (PS)

Natural Products-I Credit Hours: 3+1

Natural products is a specific discipline taught only at pharmaceutical faculties deals with the versatile studies of drugs and auxiliary substances of biological origin (plant and animal products) used in human and veterinary medicine. The aim of this course is to provide the students information about the taxonomic classification of the medicinal plants, the part/s used and the morphological and the histological characters of the different plants organs. Also, the student should be aware with the identification of the drugs, in the whole state and in powdered condition. Suitable examples of different medicinal plants organs. Botanical origin, pharmacological uses, folkloric use, contraindication, side effects and chemical tests for each medicinal plant will be also explained to the students.

Pharmaceutical & Medicinal Chemistry-I

Medicinal chemistry is the application of chemistry in the context of human medicine. This course describes the physiochemical, stereo-chemical aspects of drug action and biotransformation chemical reactions of phase I and phase II. This course also describes the chemistry of pharmacophore and structure activity relationship of several classes of drugs that affecting cardiovascular system (cardiac glycosides, antiagnial, antiarrythmic and antilipidemic agents, anticoagulants, antiplatelets, and diuretics), cholinergic, adrenergic neurotransmission, and stimulating central nervous system. In this course student will gain knowledge about how the structure of a drug relates to its intermolecular drug-receptor interactions/biological activity and metabolism. Students will also gain knowledge about drug designing and synthesis of different classes of medicinal agents.

Natural Products-II Credit Hours: 2+1

Natural Products II course provides the students international guidelines for assessing the quality and the standardization of natural products according to WHO. In addition, the course introduces the pharmacy students to the concept of the drugs derived from natural resources according to their biosynthetic origin as well to impart an understanding of natural product structures and the way they are put together in living organisms. The students should be aware with different advanced methods of extraction, Isolation/identification, purification and standardization of the plant constituents. Examples of secondary metabolite of medicinal values like volatile oil, glycosides, tannins and alkaloids with their therapeutic and toxicological activities are also discussed in this course.

Pharmaceutical & Medicinal Chemistry-II

This course describes the medicinal chemistry of centrally acting drugs that includes opiate analgesics, nonsteroidal anti-inflammatory agents analgesic-antipyretics, sedatives-hypnotics, antiepileptics, general anesthetics, psychotherapeutic drugs, antiparkinsonian and skeletal muscle relaxant. It also describes the drugs that affect neuronal transmission as local anesthetics. In this course student will gain knowledge about how the structure of a drug relates to its physicochemical properties, intermolecular drug-receptor interactions leads to pharmacological activity and metabolism. Students will also gain knowledge and skills about drug designing, synthesis and analysis of different classes of medicinal agents.

Pharmaceutical & Medicinal Chemistry-III

This course describes the medicinal chemistry of beta-lactam antibiotics, antimicrobial agents, antimalarial, antifungal, antiviral and antineoplastic agents. It also describes the drugs affecting immune system as antihistamines and antiulcer agents, endocrine system as insulin and oral hypoglycemic drugs, steroid hormones and therapeutically related drugs



(corticosteroids, sex hormones) and thyroid drugs. In this course student will gain knowledge about the development of lead compound and how the structure of a drug relates to its physicochemical-pharmacokinetic properties, drug-receptor interaction leads to biological activity and pharmacological-clinical uses.

Instrumental Analysis Credit Hours: 2+1

This course is an introduction to modern instrumental methods of chemical and pharmaceutical analysis. It describes the theory of operation, instrument design and methodology, and applications of spectroscopic techniques of UV/VIS, Fluorescence, FTIR, AAS, MS, and NMR, and chromatographic methods that includes gas and liquid chromatography. Laboratory includes the application of instruments in analysis of chemicals, drugs, supplements and medicinal agents.

Physical Pharmacy Credit Hours: 3+1

This course provides the student with good knowledge to study some physical pharmacy principles such as colligative properties and pH of solutions, isotonicity, buffer solutions, drug solubility and dissolution. The flow behavior of liquids, physicochemical properties and stability of colloidal, and coarse dispersions, surface and interfacial tension, surface-active agents, particle wetting, and adsorption phenomena are also discussed.

Pharmaceutics-I Credit Hours: 2+1

The course is designed to provide the students with the theoretical and practical formulation principles of conventional pharmaceutical dosage forms concerning types and functions of excipients, preparation techniques, formulation strategies, packaging, and stability of the final product. The course deals with liquid dosage forms such as aqueous and non-aqueous solutions, suspensions, emulsions, and sterile parenteral and ophthalmic dosage forms. Formulation basics of aerosols are also taught. The course also exposes the students to the recent formulation technology and innovations in pharmaceutical dosage forms and drug delivery systems.

Pharmaceutics-II Credit Hours: 2+1

This course is designed to cover different pharmaceutical dosage forms, their properties, characterization and methods for the production of finished pharmaceuticals. It includes semisolid dosage forms, including creams, ointments, gels, and pastes. Furthermore, the course discusses topics related to solid dosage and modified solid dosage forms in terms of their production, manufacturing methods, machinery and evaluation of the final product. Also, It provides background knowledge in some advanced nanoparticles. The Lab component of this course is designed to provide extensive practical exposure in development & evaluation of such dosage forms.

Basic Genetic and Pharmaceutical Biotechnology

Credit Hours: 3+0

This course is designed to provide knowledge about basic genetic concepts related to chromosomes and nucleic acids. It also delivers up-to-date information about different biotechnological processes (rDNA, hybridoma, and fermentation technology) involved in the development of therapeutic proteins, peptides, and gene products. It also discusses various issues related to the development and delivery of these stable biotechnological products in humans.

Biopharmaceutics and Pharmacokinetics

Credit Hours: 3+0

The major focus in biopharmaceutics will be concentrated on the various in vitro and in vivo factors that can affect drug performance in the body during the processes of liberation, absorption, distribution, metabolism, excretion with the purpose of evaluation of drug delivery systems, and the therapeutic management of patients. The pharmacokinetics section of the course provides a conceptual and quantitative background in pharmacokinetic theory and applications needed to pursue advanced studies in clinical pharmacokinetics.

Pharmaceutical Technology

Credit Hours: 2+1

The course is designed to provide students with proper knowledge in various aspects in the pharmaceutical technology including pre-formulation studies of solid dosage forms, manufacturing processes as granulation, drying and filtration. Packaging technology and its effect on medicine safety, effectiveness, and patients' compliance are also discussed. The course also focuses on the development of new drug delivery systems such as matrix solid dispersions, transdermal patches, and microspheres

Pharmaceutical Calculations in Practice

Credit Hours: 2+0

The aim of this course is to provide clear instructions of calculations to pharmacy students and enabling them to perform flawless calculations accurately which develops confidence in them. Since pharmacist use calculations regularly in their practice, it is vital that they are able to employ calculation skills precisely so as not to compromise patient safety. Students are revised for calculations in various pharmaceutical aspects including calculations applied in various pharmaceutical dosage forms as concentration expressions, reducing and enlarging formulas, alligation, reconstitution of powdered dosage forms and calculation involving in injectable medications. Students are trained to calculate the precise dose of drugs



according based on patient's age, body weight, body surface area, in addition to dose adjustment for patients with hepatic and renal failure.

CLINICAL SCIENCES (CS)

Pharmacology & Therapeutics-I

Credit Hours: 3+1

The course provides knowledge of basic principles of pharmacokinetics and pharmacodynamics of medications and their therapeutic application. An in-depth discussion of concepts of importance in pharmacology is emphasized. The principles of the drugs affecting autonomic nervous system are discussed. Autacoids and anti-inflammatory medications (NSAIDs & Corticosteroids) are also covered. Drugs used in respiratory disorders and management of bronchial asthma and COPD are approached from a therapeutic perspective.

Clinical Biochemistry Credit Hours: 2+1

The course provides to the pharmacy students the knowledge and advance understanding of the metabolic pathways of different biomolecules and related clinical correlations in addition to integration of metabolic reactions in different human tissues and different physiological and pathological conditions.

Social and Behavior Aspects in Pharmacy

Credit Hours: 2+0

The course introduces sociological, psychological, and behavioral aspects of pharmacy practice regarding patients' perspectives of health and illness, as well as their implications for pharmacists' roles. Variability in patients' individual needs, relationships with health care providers. It brings more knowledge of human behavior to the students. It provides improved ways and means for students to learn about the nature of the multiple factors: social, culture & psychological which affect the maintenance of health and the prevention of disease and disability. This will help in promoting health, preventing illness, restoring health and alleviating suffering.

Pharmacology and Therapeutics-II

Credit Hours: 3+1

The course deals with the principles of the common cardiovascular diseases describing the causes of hypertension, the major determinants that control coronary blood flow, and the etiology of heart failure. Then, the course provides the clinical characteristics (mechanism of action, benefits, adverse effects, interactions, and contraindications) of beta blockers, α -blocker, diuretics, vasodilators, calcium channel blockers, nitrates, ACE inhibitors, ARBs, cardiac glycosides and antiarrhythmics. In addition, the course provides the clinical characteristics of peptic ulcer and inflammatory bowel disease. Finally, the pharmacologic benefits of medications in each disease, the management guidelines, treatment algorithms, and patient educations of the studied disorders are fully covered.

Alternative and Complimentary Medicine

Credit Hours: 2+0

Alternative and Complementary Medicines course provides the students a broad range of complementary therapies and how these can be utilized to enhance health. The students will be able to locate and evaluate credible information about complementary therapies and wellness. This course also covers the treatment of different diseases by herbal therapy, dietary health supplements, aromatherapy, relaxation therapy, minerals and vitamins supply, acupressure, ayurvedic medicine therapy, homeopathy and hydrotherapy.

Pharmacology and Therapeutics-III

Credit Hours: 3+1

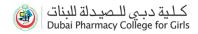
This course is designed to provide students with broad understanding of central nervous system pharmacology in addition to the pharmacology, pathophysiology, clinical pharmacokinetic and pharmacotherapy in major areas of endocrinology with special emphasis on the diabetes mellitus, thyroid disorders and osteoporosis. The course includes practical classes using case-based approaches related to the topics of this course. The course will be taught concurrently with Pharmaceutical and Medicinal Chemistry to offer the maximum benefit of integrated knowledge

Clinical Pharmacy and Pharmaceutical Care

Credit Hours: 3+0

This course provides the knowledge and experience that enables the students to understand and describe clinical pharmacy and pharmaceutical care practice aspects. The aim of this course is to provide the students with the skills of treatment assessment, care plan developing and follow up evaluation. Also, the student will be provide with the skills of identifying different types of patients drug related needs, different types of drug related problems and taking decision with ethical considerations in the practice of clinical pharmacy.

Pharmacy Practice Credit Hours: 3+1



Credit Hours: 2+0

Credit Hours: 3+1

Credit Hours: 1+0

Credit Hours: 2+0

This course introduces students to various aspects of pharmacy practice. It covers the knowledge of minor diseases that can be managed by the pharmacist concerning etiology, symptoms, diagnosis, treatment, management and counselling. Moreover, the student will learn the different types of over-the-counter (OTC) medications used for a variety of medical cases, such as respiratory and GIT systems, skin and dental care, ears, eyes, nose and throat (ENT) problems, as well as pain management. Further areas of learning are women's health, children's care, and smoking cessation. This course will also provide the student with professional communication skills needed to deal with patients in the hospital and community pharmacy settings during an OTC therapeutic dialogue.

Clinical Toxicology Credit Hours: 2+0

The course is intended to empower students with basic knowledge of Clinical Toxicology. The major focus of the course is on basic principles, mechanisms, and common approaches for the management of poisoned patients. Selected topics are covered in this course that includes occupational, heavy metals and drug toxicities. Students will gain knowledge of how selected chemicals/drugs exert toxic effects, present and managed clinically.

Applied Pharmacokinetics

The course deals with the concepts of clinical pharmacokinetics of certain drugs and calculation of doses of drugs during organ impairment and transplant clinical pharmacokinetics and therapeutic drug monitoring, drug administration, alteration of dosage form and doses based on individualization and population data, approach to therapeutic drug monitoring, case study of drugs requiring therapeutic monitoring.

Pharmacology and Therapeutics-IV

This course is designed to provide students with integrated knowledge of basic pharmacology of various classes of antibacterial, antiviral and antifungal agents. Focus is emphasized on main indication of each antimicrobial, its significant adverse effect and precautions to avoid drug resistance. Furthermore, the course covers the management of selected infectious diseases based on evidence-based guidelines including lower respiratory tract, urinary tract, CNS, invasive fungal infections as well as HIV. The last part of this course includes the most common rheumatologic disorders and drugs that are used in their management.

Pharmacogenomics Credit Hours: 2+0

The goal of the course is to give students an understanding of the principles of human genetics and genomics as they apply it to find solutions in drug therapy optimization and patient care, thus providing basic understanding of discipline of pharmacogenomics. This course discusses genetic basis of variability in drug response that contribute to drug efficacy and toxicity, adverse drug reactions and drug-gene interaction. As such, pharmacists need a thorough understanding of the genetic component of patient variability to deliver effective individualized pharmaceutical care.

Professional Skills in Practice Credit Hours: 1+2

The aim of this course is to provide the students with the knowledge of the various health care providers, rapidly evolving types of healthcare delivery systems, and complexities of relationships among the various health care professionals working within the health care system. Students should be aware of the basic clinical skills required by pharmacists to get the insight they need to cultivate informed, compassionate and effective patient care.

Pharmacy Laws and Drug Regulations

The course covers various policies, laws & regulations related to pharmacy practice and pharmacy professionals dealing with licensing, pharmacy operations, controlled substances, and operations in institutions. Brief overview of the legal system including nature and sources of UAE laws on practicing pharmaceutical profession and trading in a medicine profession.

Pharmacoepidemiology &Pharmacovigilance

This is an introductory course, which equip students with a basic understanding of the concepts and practice of pharmacoepidemiology and pharmacovigilance in areas related to the assessment of drug safety and risk-benefit of drug use. This course will meet the needs of a wide variety of practitioners in detecting, managing, reporting of Adverse Drug Events/Reactions.

Integrated Problem Based Learning Credit Hours: 0+3



Credit Hours: 2+0

Credit Hours: 2+0

The course is clinically oriented to emphasize the pharmacotherapy in patient care. The students discuss different scenarios of patient cases where medical history, symptoms, clinical presentation and laboratory values are stated. The students are directed to raise the objectives of their study in order first to assess the possible drug-related problems, second to suggest possible solutions of these problems and finally to evaluate these solutions based on clinical evidence. This course will enhance the students' oral and written communication skills, and their abilities to extract information from medical records, search, sort, critically think and analyze drug-related information.

Hospital Pharmacy Credit Hours: 2+0

The aim of this course is to provide the students with knowledge of the principles of pharmacy practice in a hospital setting. It aims to enable students to gain knowledge to practice in various areas of hospital pharmacy including: understanding the basic layout of the pharmacy department in a hospital setting; understanding the roles of the pharmacist in hospital practice including the distribution of medications, medication compounding, collaborations as a member of the healthcare team, and other patient care services, identifying and reporting any possible drug interactions and mastering the administrative part of hospital pharmacy services including drug distribution control system & unit Dose Systems.

Pharmaceutical management

The aim of this course is to provide the students with the working knowledge and fundamental principles of management related to pharmacy practice leadership. During this course, students are exposed to various administrative skills, strategic planning, motivational theories and risk management, which enable them to efficiently manage health care sectors.

Pharmacy Automation & Informatics

This course will be conducted in collaboration with automation industry to introduce the concept of automation in pharmacy like robotic pharmacy, use of mobile health tools, clinical software applications ("clinical apps"), and other associated devices used by clinicians and patients for patient care. This course is acquaint with cyber-security systems and procedures for vulnerabilities. This course also support with key decision-making roles for pharmacists in the planning, selection, design, implementation, and maintenance of medication-use information systems, electronic health records.

Professional Practice Experience (PPE) - Credit Hours: 20

PPE01: Introductory Professional Practice Experience for 200 hours during summer vacations in second and third year of BPharm.

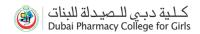
PPE02: Industrial Professional Practice Experience for 100 hours during fourth year of BPharm.

PPE03A & PPE03B Advanced Professional Practice Experience 700 hours during spring semester of third and fourth years of BPharm.

Capstone Project

Capstone Project Credit Hours: 0+2

In the final phase of their studies, students have to present a project based on all round knowledge they have acquired in different areas of pharmaceutical sciences. The presented project is evaluated and the students are assessed for their knowledge by a panel of internal and external examiners.



ELECTIVE COURSES

AREA I

Organizational Behavior and Cultural Diversity

Credit Hours: 2+0 This course exposes students to behavioral science theories and applications in management. Organizational behavior is an interdisciplinary field drawing from numerous disciplines including psychology, sociology, economics, organization theory and many others. Organization behavior helps the student to learn the value-added of "soft" management interventions. Understand and articulate how culture, society, and diversity shape the role of the individual within society and human relations across

fundamental component of the Innovation & Entrepreneurship.

Emotional Intelligence and Leadership

Credit Hours: 2+0

The course is designed to enable students to equip with the knowledge, skills, perspectives, and attitudes to achieve desired leadership outcomes across the three EIL facets which are consciousness of self, consciousness of others, and consciousness of context. Across three EIL facets are nineteen capacities. Through the idea of EI and leadership this course provides students a framework, a toolbox, and a guide for seeing the unique capacity in themselves to make a difference in the lives of others.

cultures. In addition, the course aims to provide the students with an overview of the key concepts of strategic planning as a

AREA II

Nuclear Pharmacy Credit Hours: 2+0

Nuclear pharmacy is a specialty area of pharmacy practice dedicated to the compounding and dispensing of radioactive materials for use in nuclear medicine procedures. This course covers basic concepts involved with radioactivity, different types of radiations, radiation dose, nuclear medicines, and diagnostic & therapeutic applications of nuclear medicines.

Credit Hours: 2+0 **Bioassay**

The course provides basics of tests applied in screening of new substances or herbal extracts. It also focuses on clarification of the basic concepts of biological assay of drugs based on their pharmacological classification. Experiments applied to assess many drug classes like autonomic-acting agents, anti-histaminics, anti-inflammatory, antihypertensive agents, analgesics and neuroleptics are fully discussed.

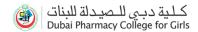
AREA III

Credit Hours: 2+0 **Nutrition and Health**

Nutrition and Health course provides the pharmacy students basics of nutrition by discussing the nutrients, their function in the human body and their sources in the diet. This course gives the students an understanding of the causes behind health issue related to nutrition. The course makes the students aware about what to eat and how to choose healthy foods. The course also makes the students to solve nutrition-related problems and make healthy food and nutrition decisions.

Pharmaceutical GMP Credit Hours: 2+0

This course provides a comprehensive overview on the Good Manufacturing Practice (GMP) in manufacturing process and quality control testing of the pharmaceutical products. It covers various aspects of quality control and quality assurance as well as the industrial standards in the areas of the workplace, warehousing, production, packaging cleaning and sanitation, documentation and records archiving. GMP auditing, facilities and requirements to Good Laboratory Practice (GLP). The instructor will deliver the course contents by multiple learning activities such as didactic lectures, self-learning, class discussion and tutorials. While students' performance will be evaluated via different assessment instruments including class activity, project and written exams.



9. Examination, Grading & Assessment

Course Assessment

Each course is assessed as outlined in the course description form and can be further discussed with the course coordinator.

Types of Assessment:

Written Examination (Mid semester and Final exam): Written examination assures that students have attained the appropriate knowledge related to the profession which can be applied in learning the skills. These exams measure the comprehension of students and their improvement.

Oral exam: The oral evaluation gives feedback from the students on how they see the relative importance of the different topics. The oral exam is suitable for many types of performance and for working with different competencies. If students' oral communication in a specific area or in general is important, an oral exam is to be preferred.

Practical and laboratory work: The practical exam evaluates the skills gained by the student which they have learned in all over the practical sessions offered in the course. It identifies the student's level of performance while demonstrating well-developed skills.

Assignment: Assignments are evaluated through rubric scores based on different criteria's. It helps to measure the student's ability to understand the theoretical knowledge in depth. Assignments assess the student's ability to gather the information, processing, interpreting and drawing conclusions.

Case study: A specific and detailed description of an event, situation, or circumstance that is presented to a student for study and analysis.

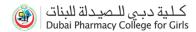
Scientific Poster: A large, printed sheet intended for display and containing words, illustrations, or both to provide general or specific information for broad or targeted students.

Professional Practice Experience reports: The PPE reports develop observation and recording skills. Students' efficiencies can be measured through the submitted reports which give the detail of students learning activities during the training.

Article review and Presentation: Students ability to appraise the literature will be assessed based on their interpretation and presentation of research paper.

Self-assessment: Students develop their own list of characteristics and judge their own work. Students learn to monitor their own progress and will strive to improve.

PBL: Students active participation, involvement in the group discussion will be peer assessed and also assessed by the instructor. Observations will be recorded as a narrative and highly structured format, such as a checklist. Students knowledge applied in the problem based discussions will be assessed through quiz (teaching and assessment methodologies are presented in the related course descriptor).



Students Graduation Project:

A project submitted by the students in the fourth year of B. Pharm., based on all round knowledge they have acquired in the four main areas viz., Pharmaceutics, Pharmaceutical Medicinal Chemistry, Natural Products, Pharmacology, Therapeutics and Clinical. This project includes a research work, which the students carry out on recent developments in pharmaceutical sciences.

Examination Schedule:

The students shall take their exams as per the schedule fixed by the College in the light of the following rules and regulations: The students shall take their exams as per the schedule fixed by the College in the light of the following rules and regulations. Final exams will be held at the end of the semesters (Fall and Spring), on completion of the prescribed syllabus.

Re-sit Exams:

- Re-sit exams for all the subjects considered necessary shall be held at the end of second semester within a week after the declaration of the examination results.
- Not more than one re-sit exam for any subject shall be allowed within one academic year.

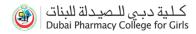
Course Grading System:

Students are assigned grades (letters) for each course in which they have enrolled. The letter reflects the student's achievement in the course. The minimum grade for passing a course is letter (D) and grades are written in letters according to the following table:

Pango of Marks	Grade Poi	n f	For BP	harm			
Range of Marks	Grade Pol	πι	Evaluation	Grade Symbol			
95- 100	4		Outstanding	A+			
90 – 94.99	3.75		Excellent	Α			
85 – 89.99	3.50		Very Good	B+			
80 – 84.99	3.00		Good	В			
75 – 79.99	2.50		Satisfactory	C+			
70 – 74.99	2.00		Pass	С			
65 – 69.99	1.5		Unsatisfactory	D+			
60 – 64.99	1.0		Unsatisfactory	D			
Below 65	Failed		Failed	F			
	Administ	trativ	e Codes				
Incompl	ete		I				
Withdra	aw		W				

Computation of the Cumulative Grade Point Average (CGPA) and Grade Point Average (GPA)

- The GPA is calculated by multiplying the grade of each course by the number of its credit hours and dividing the total by the number of total credit hours taken in a semester.
- The CGPA is calculated by multiplying the grade of each course by the number of it's credit hours and dividing the total of all courses by the number of total credit hours taken for all semesters.
- By contrast, the GPA is the average of grade points of all courses in one semester, whether she passed or failed the course.
- As mentioned earlier, the CGPA is the average of grade points of all courses in all semesters.



 Both GPA and CGPA are rounded to the nearest decimal units. GPA and CGPA are calculated according to the following formula

GPA =	Total (credit hours per course x grades received per course) for all courses taken in one semester
GPA =	Total credit hours for all courses taken in one semester
	Total (credit hours per course x grades received per course) for all the courses taken in all semesters
CGPA =	Total credit hours for all the courses taken in all semesters

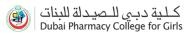
CDA / CCDA	B. Pharm
GPA / CGPA	Evaluation
3.75 - 4.00	Outstanding
3.74 - 3.60	Excellent
3.00 - 3.59	Very Good
2.50 - 2.99	Good
2.00 - 2.49	Satisfactory
Less than 2.00	Unsatisfactory

Incomplete Grades

- 1. A student who is unable to attend the final exam of any course because of extenuating circumstances such as serious illness, accident or death of a family member during the final examination period seeks an incomplete grade "I" for the course.
- 2. Grade "I" is granted to the student if the average marks of the course work is not less than 60%.
- 3. Requests for an "I" grade is made on a form available from Dean's office
- **4.** Unless otherwise stated on the form, the work required to remove an "I" grade is to be completed no later than the end of the second week of the next semester in which the student registers at the university, otherwise a grade of "F" is recorded.
- **5.** (For Credit System students only) after the two week add/drop period, and up to the end of the 10th week of a semester, students may choose to withdraw from a course without academic penalty; however, a grade of "W" will appear on the student's transcript.



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														Asses	sment	Tools							
										sn			ter							Practi	ical		
Semester	Code	Domain	Courses	Lecture	Practical	Total Units	Quizzes	Oral	PBL assessment	Class activity/continuous	Case based	Assignment	Presentation/Poster	Project Report	Self-learning	Homework	Portfolio	Mid Semester	Exam	Attitude & Behavior	Manual	Attendance	Final Exam
	PN701	PS	Organic Chemistry- I	3	0	3	10	10		15								25					40
	MC701	BBS	Anatomy and Physiology I	2	1	3	10	10										20	10	3	4	3	40
ster	GE701	GE	Mathematics & Statistics	3	0	3	10			10						15		25					40
Fall Semester	GE702	GE	English Communication and study Skills	2	1	3						15	10	10				25					40
Fall	MC702	BBS	Medical Terminology	1	0	1	15									20		25					40
	GE703	GE	Computer Application	0	2	2	10			10		15						25					40
	PC701	GE /PS	Introduction & History of Pharmacy	2	0	2	10	10				15						25					40
<u>.</u>	GE704	GE	Islamic Study	2	0	2	10			10		15			25								40
este	GE705	GE	General psychology	2	0	2	10	10					15		25								40
Spring Semester	PN702	PS	Organic Chemistry- II	3	1	4	10			15					20				15	3	4	3	30
gu	PC702	PS	Physical Pharmacy	3	1	4	10					15			20				15	3	4	3	30
Spri	MC703	BBS	Anatomy and Physiology-II	3	1	4	10					15			20				10	3	4	3	30
	PN703	PS	Natural Products-I	3	1	4	10	10		10					20				10	3	4	3	30
	PN704	PS	Pharmaceutical & Medicinal Chemistry -I	3	0	3	10			15		15						30					30
ster	PN705	PS	Natural Products-II	2	1	3	10						15					20	15	3	4	3	30
Ë	MC704	BBS	Biochemistry	2	0	2	10	10				15						25					40
Fall Semester	GE708	GE	Environmental Sustainability	2	0	2	10					10	15					25					40
l re	PC703	PS	Pharmaceutics- I	2	1	3	10					15						20	15	3	4	3	30
	MC705	BBS	Medical Microbiology	3	1	4	10					15						20	15	3	4	3	30
_	PN706	PS	Pharmaceutical & Medicinal Chemistry -II	2	1	3	10								15			20	15	3	4	3	30
este	CP701	CS	Pharmacology and Therapeutics- I	3	1	4	10					15						20	15	3	4	3	30
Spring Semester	MC707	BBS	Pathology	2	0	2	10	10				15						25					40
ling (CP702	CS	Clinical Biochemistry	2	1	3	10					15						20	15	3	4	3	30
Spri	MC706	BBS	Immunology	2	0	2	10	10				15						25					40
	PC704	PS	Pharmaceutics-II	2	1	3	10					15						20	15	3	4	3	30
Sum mer seme	CP703	CS	Social and Behavior Aspects in Pharmacy	2	0	2	10	10							15			25					40

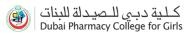


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										ST			ē							Practi	cal		
Semester	Code	Domain	Courses	Lecture	Practical	Total Units	Quizzes	Oral	PBL assessment	Class activity/continuous	Case based	Assignment	Presentation/Poster	Project Report	Self-learning	Homework	Portfolio	Mid Semester	Exam	Attitude & Behavior	Manual	Attendance	Final Exam
	EC7011 EC7012	EC	Elective area I	2	0	2							50										50
	PN707	PS	Pharmaceutical & Medicinal Chemistry-III	3	0	3	10	10					15					25					40
_	PC707	PS	Pharmaceutical Technology	2	1	3	10					15						20	15	3	4	3	30
leste	CP704	CS	Pharmacology and Therapeutics- II	3	1	4	10					15						25	15	3	4	3	25
Fall Semester	PC706	PS	Biopharmaceutics and Pharmacokinetics	3	0	3	5	5				15					1 5	30					30
- E	PC705	PS	Basic Genetic and Pharmaceutical Biotechnology	3	0	3	10	10				15						25					40
	CP705	CS	Alternative and complementary medicine	2	0	2	10	10					15					25					40
	CP706	CS	Pharmacology and Therapeutics- III	3	1	4	10								15			20	15	3	4	3	30
Spring Semester	CP707	CS	Clinical Pharmacy and Pharmaceutical Care	3	0	3	10	10				15						25					40
Sem	CP708	CS	Pharmacy Practice	3	1	4	10						15					20	15	3	4	3	30
ing	CP709	CS	Clinical Toxicology	2	0	2	10	10					15					25					40
S	CP710	CS	Applied Pharmacokinetics	2	0	2	10	10				15						25					40
	PN708	PS	Instrumental analysis	2	1	3	10					15						20	15	3	4	3	30
	EC7021 EC7022	EC	Elective area II	2	0	2							50										50
Summer	EC7031 EC7032	EC	Elective area III	2	0	2							50										50
-	CP711	CS	Pharmacology and Therapeutics- IV	3	1	4	10								15			20	15	3	4	3	30
Semester	CP712	CS	Pharmacogenomics	2	0	2	10	10					15					25					40
Fall Sen	CP713	CS/GE	Research Methodology & Biostatistics	2	0	2												50					50
	CP714	CS	Professional Skills in Practice	1	2	3				10		20							15	5	5	5	40



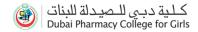
														Asses	sment	Tools							
									+	sno			ter							Practi	cal		
Semester	Code	Domain	Courses	Lecture	Practical	Total Units	Quizzes	Oral	PBL assessment	Class activity/continuo	Case based	Assignment	Presentation/Poster	Project Report	Self-learning	Homework	Portfolio	Mid Semester	Exam	Attitude & Behavior	Manual	Attendance	Final Exam
	CP715	CS	Pharmacy Laws and Drug Regulations	1	0	1							50										50
	CP716	CS	Pharmacoepidemiology & Pharmacovigilance	2	0	2	20						40										40
	GE709	GE	Innovation and Entrepreneurship	2	0	2						15	10					25					40
ē	CP717	CS	Integrated Problem Based Learning	0	3	3	15	15	30				30	10									
lest	CP718	CS	Hospital Pharmacy	2	0	2	10			10				15				25					40
Semester	CP719	CS	Pharmaceutical Management	2	0	2	10						15					25					40
Spring !	CP720	CS	Pharmacy Automation and Informatics	2	0	2	10					25						25					40
<u>&</u>	PC708	PS	Pharmaceutical Calculations in Practice	2	0	2	10					20						30					40
	CS701		Capstone Project	0	2	2		25					50	25									-

On line second term/ first year



	9.2.Seminar Rubrics									
Student Presenter:	Grading Scale:	F	D+	С	C+	В	B+	Α	A+	
Evaluator: Date:_										

Knowledge & content	1 (below 40)	2 (40-60)	3 (60-80)				4 (8	0-100)					Score				
Organization and Presentation	Hard to follow; sequence of information jumpy	Most of information presented in sequence	Informa logical follow	•			o in	Information presented as interesting story in logical, easy to follow sequence										
Background Content	Material not clearly related to topic C background dominated seminar	Material sufficient for clear understanding but not clearly presented	Material sufficient for clear understanding AND effectively presented				clear understanding but clear understanding AND under										clear AND	
Contribution of Work	Significance not mentioned or just hinted	Significance mentioned	Significa	ance e	xplained	I		gnifica plaine	nce exo d	сер	tiona	ally v	vell					
Knowledge of Subject	Does not have grasp of information; answered only rudimentary questions	At ease with information; answered most questions	At ease; question elaborat	ns but)	ar		trated d all ion				_					
Presentation Skills																		
Graphics (use of PowerPoint)	Uses graphics that rarely support text and presentation	Uses graphics that relate to text and presentation	Uses gra explain			ntation	ex	_	phics t and re tion			text	: and					
Mechanics	Presentation has more than 10 misspellings and/or grammatical errors	Presentation has no more than 5 misspellings and/or grammatical errors	Presenta 2 misspe and/or g	ellings			or		tion ha			sspe	llings					
Eye Contact	Reads most slides; no or just occasional eye Contact	Refers to slides to make points; occasional eye contact	Refers to			•			slides I with a				oints;					
Elocution - not ability to speak English language	Mumbles and/or Incorrectly pronounces some terms	Incorrectly pronounces some terms	Incorrec terms	tly p	ronoun	ces fev			precise iation o		ll ter	ms						
Intonation	Voice is low; difficult to hear	Voice fluctuates from low to clear; difficult to hear at times	Voice fluctuati well mo the time	ons; a st of	ear w udience		r st		clear ai iudienc		an he	ear w	vell at					
Length and Pace	Short; less than 30 min	Short 40 min OR long >50	Adequa	te 40-	45 min		Ap	opropr	iate (45	5-50	0 mir	า)						
	Rushed or dragging throughout	Rushed or dragging in parts	Seminar	most	ly well-p	aced	W	'ell-pa	ed thr	oug	ghou	t						



10. Teaching Activities (Pedagogy)

1. Integrative Methods

Lecture — An oral presentation, usually formal in nature, to a group by an individual highly knowledgeable about the subject.

Brainstorming — A process in which students are encouraged to participate by sharing their ideas or suggestions on a subject. No discussion of each point is allowed until important ideas have been expressed.

Group Discussion - A small group comprising of not more than 10 students with each faculty member to discuss on subject related topics

Office Visit — A face-to-face exchange of information among two or more students, usually at the location of the information provider

2. Reinforcement Methods

Problem-based learning (PBL) is a student-centered instructional strategy in which students collaboratively solve problems and reflect on their experiences. Student-focused problem- based learning is a self-directed process characterized by active acquisition of knowledge and problem-solving skills by students that occurs from the process of reasoning towards the understanding or resolution of problems. It results in a usable knowledge data base that has been actively acquired and is reinforced through repeated applications. Students are motivated by the internalized reward of discovery and develop a colleague based learning that will produce pharmacists who have learned to learn and have the ability to apply their knowledge base to the resolution of new and unique problems.

E learning and Computer software's- Use of electronic education technology and a set of instructions or program, that enables a computer to be used to provide educational information, to transmit communication or to aid in decision making.

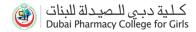
Self-Directed-Learning- Since self-directed learning is believed to promote lifelong learning so students are motivated to take up self-learning exercises and are also encouraged to make presentations on allotted topics during the regular lecture schedules.

Symposium - An assembly in which short presentations are made by a small number of speakers who are knowledgeable about a particular subject. These presentations may range from 20 to 30 minutes each.

Group Discussion - A small group comprising of not more than 10 students with each faculty member to discuss on subject related topics

Panel Discussion— A gathering at which a panel of individuals discuss a subject in front of students but interact with student members only when those members wish to ask a specific question or clarify a point under discussion. When a particular point is resolved, the organized discussion among panel members continues.

News Letters — A publication of six pages or fewer, focusing on broader topic related to the subject that presents instructions, guidelines, or other specific information.



Scientific Poster — A large, printed sheet intended for display and containing words, illustrations, or both to provide general or specific information for broad or targeted students.

Leaflet or flier — Brief, concise printed information focused on a specific program, objective, current event, or other activity and designed to create or enhance awareness.

Pamphlet or booklet — A printed publication that provides more comprehensive information on a subject than a fact sheet, leaflet, or flier

Journal club — A means of presenting scientific, theoretical, or philosophical information in a professional journal or in a periodical that focuses on a specific discipline, commodity, student, or subject matter.

3. Practical Methods

Method demonstration: An explanation of how to implement a practice or accomplish a task by showing a practical application or guiding the learner in carrying out the task.

Result demonstration: A presentation that shows the effects of a practice change or task by means of practical application, using visual, experiential, or oral methods; it usually involves a before-and-after comparison.

Field trip: A planned activity of one-day duration in an outdoor setting for demonstrations; observation of programs, practices, activities, or objects; presentations; or practical experiences.

Workshop: A meeting in which a small group of people with common interests meet to study or research a specific topic or to practice a specific skill to enhance their individual knowledge and proficiency.

Role play: An exercise in which selected members of a group are assigned to play specific roles in a hypothetical or simulated situation followed by discussion among all group members.

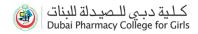
Case study: A specific and detailed description of an event, situation, or circumstance that is presented to a student for study and analysis.

Practical Exercise: Statistical Analysis of Data or results — Evaluation, use, or presentation of new or existing data to explain or predict the impact of a practice, innovation, input change, or changing conditions and circumstances

Professional Practice Experience-(PPE): Professional Practice Experience (PPE) is the experience gained during the training period in community pharmacies, hospitals and pharmaceutical industries.

Capstone Project:

A project submitted by the students in the fourth year of B. Pharm., based on all round knowledge they have acquired in the four main areas viz., Pharmaceutics, Pharmaceutical Medicinal Chemistry, Natural Products, Pharmacology, Therapeutics and Clinical. This project includes a research work, which the students carry out on recent developments in pharmaceutical sciences.



Facilities for Teaching

Dubai Pharmacy College for Girls has excellent teaching facilities for students. It has four lecture rooms which are equipped with a video projector, computerized digital whiteboard, smart-board a Lap-top, online computer and audio-visual facilities. For quizzes and assessment of student learning clickers are used in classrooms. DPCG established a virtual learning environment (VLE) available through Desire2Learn platform namely Learning Management System (LMS). The faculties and the students are trained to use the LMS efficiently. Lecture notes will be posted on LMS in PowerPoint or Microsoft Word or PDF formats at least 24 hours in advance, so the students are expected to read over the lecture material prior to coming to class. The students have access to the LMS through user name and password so that they can communicate with the instructor at any time. Besides these the College also provides printed hand-outs or notes for the offered courses before the beginning of the next semester so that the students when they join the College should come well prepared in advance.

11. Progress Policy Guidelines

Satisfactory Progress

A student must maintain a semester GPA of 2.00 to be considered making satisfactory progress.

Probation

Students who fail to achieve a semester GPA of 2.00 shall be placed on probation for one semester. If the student achieves a semester GPA of 2.00 or better during the probationary semester she makes satisfactory progress but has not achieved the required semester GPA of 2.00, the student may continue on probation for one additional semester and will be allowed to appear in the supplementary exams held in September each year for both semesters.

Unsatisfactory Progress

If the student on probation fails to achieve a semester GPA of 2.00 at the end of the first probationary semester, the student will be reported to the Dean as making unsatisfactory progress. The student will be permitted to remain on probation for one additional semester.

A student who fails to achieve a semester GPA of 2.00 at the end of the second consecutive probationary semester shall be reported by the Examination and Evaluation Unit to the Dean's Office as making unsatisfactory progress.

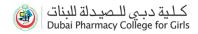
Note: If a student fails to obtain the GPA 2.0 (70%) then she should repeat the course(s) in which unsatisfactory grades (D/D+) are got. In case, failing to improve the grades even after repeating the course(s) those students will be dismissed from the College.

12. Policy for Completion of Undergraduation

A student will be awarded Bachelor of Pharmacy (B.Pharm) degree subject to fulfilling the following requirements:

• Completion of all courses, Professional Practice Experience, Students Graduation Project and to pass in Calculation in Practice course as specified in the study plan

Students enrolled in this program are exposed to a core professional curriculum that includes the basic sciences, basic biomedical sciences; pharmaceutical sciences; and clinical sciences in addition to general education and elective courses.



The curriculum, which is offered through 164 credit hours (CH), is organized to include 118 CH core requirement courses, 6 CH elective courses and 18 CH general education courses, 20 CH of Professional Practice Experience and 2 CH Capstone Project.

- Maintain a CGPA of at least 2.0 on a 4.0 scale.
- Minimum and maximum periods of enrolment for the completion
 The minimum duration required for completion of the BPharm program is 4 years and the maximum period should not exceed 6 years.

13.Student Rights & Responsibilities

Statement of Student Rights and Responsibilities

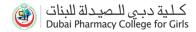
Every student who enrolls at DPCG has a right to a student-centered education, research and services. Students should positively contribute to the safe learning environment by maintaining high standards of integrity and academic honesty at the same time familiarizing themselves with and adhere to all policies and regulations of the College.

Student Rights

For a registered student in Dubai Pharmacy College for Girls the rights are:

- **1.** Obtain pharmacy education according to a well-established educational program and in a suitable educational environment.
- **2.** Attend theory and practical classes regularly and to participate in scientific discussions held in the class as directed by the faculty.
- **3.** Participate in all students activities sponsored by Student Union.
- 4. Benefit from facilities offered by the College such as library, hostel, transportation and others.
- **5.** Get the identity card issued annually from the College after payment of its fees in order to prove that she is a student in the College.
- **6.** Appear in all examinations and evaluations conducted according to the regulations of the College.
- **7.** Get health care facility in case of emergency and first aid only. The College will not be responsible for expenses of treatment in any case and only transportation can be provided to and from medical clinics in Dubai.
- **8.** Get social care services offered by the College.
- **9.** Have a residence visa sponsored by the College for hostel students as per the rules. The student will bear all expenses for her residence visa.
- **10.** Get the following certificates from the College:
 - **a.** An annual certificate to prove that she is studying in the College
 - **b.** A certificate to prove her academic level which she obtained as per the College records
 - **c.** A certificate for the expenses required for her College study
 - **d.** A certificate for her good behavior and discipline in the College
 - **e.** A graduation certificate after she fulfills all the requirements needed for graduation as per College rules
 - **f.** A release certificate from the College

Note: All the certificates mentioned above in (10 a to f) should be issued as per the College rules and also



according to the requirements of the student. The first copy of all certificates issued will be free of charge. If the student needs another copy then it will be given by charging a nominal fee fixed by the College. But photocopies (like the original) of certificates will be given free of charge.

Student's Responsibilities

The duties of the students are:

- **1.** Do her best to achieve the goals set by the College as mentioned in the regulations of the College.
- **2.** Do her best to achieve high level of scientific and educational standard. To achieve the desired level, she should not hesitate in taking help from the administration, the Dean and staff members of the College so that there is no hindrance in her way.
- **3.** Follow all the rules and regulations of the College for academic and scientific activities.
- **4.** Participate positively in evaluating the College development and performance by giving advice and written suggestions to the College administration in the questionnaire annually or by other means.
- **5.** Handle all the properties of the College like instruments, equipment etc., carefully.
- **6.** Be cooperative in adopting all the College principles especially the following:
 - (a) To wear Islamic Hijab
 - **(b)** To be punctual in offering prayers
 - **(c)** To maintain good relationship with her colleagues
- **7.** Inform the College administration or the Dean about misbehavior or any mistakes committed by any student, which may give bad reputation to the College.
- 8. Pay the fees regularly as required by the College.
- **9.** It is mandatory for all the students to follow the rules relating to attendance and any non-compliance will lead to consequences mentioned in the attendance policy mentioned in Student Handbook.

14. Student Appeals Policy

Every student has right to put across her appeal within fifteen days. The appeal is addressed to the Dean. If it is not resolved properly then the student can appeal to higher authorities of the College Administration. The decision given by them will then be considered as the final decision. Appeals are limited to requests to continue in the BPharm program after being dropped from the program for academic reasons and dissatisfied course grades.

15. Students Grievance Policy

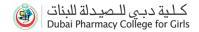
Informal Resolution:

Any student in DPCG who believes that she has been treated inequitably is encouraged to resolve the matter informally. The student should first talk with the person or group at whom the grievance is directed in an attempt to resolve the issue informally.

Grievance Procedure:

The grievance procedure is described below.

- **1.** To initiate the formal grievance procedure, the student must submit her grievance, in writing, to the Dean of DPCG.
- **2.** The written grievance shall include:
 - **a.** a statement that the student wishes a review of the situation by a Grievance Committee.



- **b.** the identification of the person or group at whom the grievance is directed;
- c. the specifics of the perceived inequitable treatment;
- **d.** evidence in support of the student's belief that she has been treated inequitably.
- **3.** A grievance must be initiated no later than 15 calendar days from the time the student knew or could reasonably have been expected to have known of the circumstances giving rise to the grievance.
- **4.** After receiving the grievance the Dean will study the case with the Disciplinary Committee of the College.
- **5.** After inquiry, the report shall be notified to the Student about the action on the grievance and the grounds for the action taken.
- **6.** If the grievance is not resolved properly then the student can appeal to higher authorities of the College Administration. The decision given by them will then be considered as the final decision.

16.Education Support Facilities

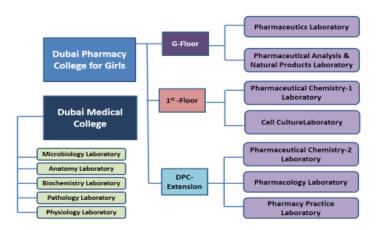
Dubai Pharmacy College for Girls (DPCG) provides all educational support facilities to its students. The students get the best scientific training and knowledge which will make them eligible as pharmacists to boost the vast scientific and industrial development of U.A.E.

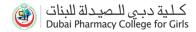
COLLEGE BUILDING

The College building, on the ground floor has 2 laboratories, administrative and faculty offices, a meeting room, examination control room and a reception section. On the first floor, are housed one laboratory, four lecture rooms, student's affair office, student advisory office, students' common room, students printing office and chemical and glassware store. In addition, the DPCG extension including 2 laboratories, a model pharmacy with a drug information center, LMS examination Hall equipped by computer, main examination hall, animal house and the main library. Besides the above facilities, the College is supported by a Machine Room (Industrial unit) situated in the Lootah's Educational Campus for conducting training and practicals in Pharmaceutics-I & II and Pharmaceutical technology courses.

LABORATORY AND INSTRUMENTATION FACILITIES

DPCG possesses well-equipped laboratories for each discipline. There are five laboratories in the College premises equipped with scientific apparatus and equipment required for practical and scientific investigations. Some laboratories are in Dubai Medical College and are common to both the Colleges. The laboratories are:





AUDITORIUM

A well-furnished auditorium, located in DMCG, is spacious and suitable for any cultural occasion. It has become a regular venue for all social and cultural activities of DPCG.

STUDY ROOMS

DPCG provides study room facilities for its students, which may be utilized by them in their break hours and also by hostel students after the class hours. These study rooms are located in DMCG and are well furnished with all required facilities. The students have an easy access to these study rooms and are free to use all facilities present there like computers with Internet and Journals.

LIBRARY

The Library in DPCG offers an excellent environment for study. It is available to students at various stages of study. The library working hours are arranged as far as possible to meet students' need. The library has subscribed e -Journals in various areas of Pharmacy and Medical Sciences. The physical facilities in the library are adequate space is given for housing the collection of books, journals, and audiovisuals. There is also a large reading room to facilitate learning. Students have access to computer terminals to search online catalogs, databases, and other information systems. The library is also equipped with photocopying machines.

Opening hours:

Sunday - Thursday	7.30am – 3.00pm
Friday	8.00am – 1.00pm
Saturday	9.00am – 3.00pm

COMPUTER LABORATORY

The Computer Laboratory is helpful in teaching of English language, computer science, pharmacy practice, pharmaceutical care, therapeutics and clinical pharmacy courses. The Computer Laboratory, well equipped with computers, have Internet connections along with auditory systems. Besides this Computer Laboratory, the College enjoys full technical guidance, support and know- how from the Information Technology (IT) department, which is its sister organization and is adjacent to DPCG campus.

The mission of the I.T. department is to provide computer support, awareness and training services throughout the year to faculty, administrative staff and students. It also has a laboratory which is well equipped and is freely available for use. It is monitored by well qualified staff to render help and assistance.

ACCOMMODATION FACILITIES

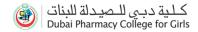
DPCG provides hostel facility for students who apply for it. It is close to the College and has well-furnished bedrooms, dining room, study room and all the required facilities. Besides these facilities, internet connection is available in each room to aid them in preparing their notes and seminars. On each floor of the hostel there is a provision for praying and a gymnasium club. Students can obtain advice on accommodation from the hostel Supervisor.

HEALTH CARE FACILITIES

The College arranges to provide health care facilities to students living in the hostels. DPCG has a contract for health care with its sister organization Dubai Medical Centre (DMC). DMC doctors do periodical checkup for all the students. Those found ill are taken care of by them. In severe cases the hostel authorities send the resident students to Dubai Government hospitals.

STUDENT COUNSELING SERVICES

Students who experience personal, emotional and social difficulties and may need counseling or support.



DPCG provides students with counseling services through a trained student counselor who helps them to cope up with a wide variety of student matters.

TRANSPORTATION FACILITIES

DPCG has special minibuses for transporting students from Sharjah, Ajman, Dubai and hostel. These buses are fully air-conditioned and quite comfortable. They are used for field trips and educational tours too.

MOSQUES

The College has mosques inside its campus for faculty, staff and female students which sustains the Islamic atmosphere in the College.

DINING SERVICES

Cafeteria adjoining the College is spacious and hygienic. It offers food and beverages of students' choice. Thus it's a rendezvous for students to relax and enjoy during breaks.

RECREATIONAL FACILITIES

In the campus there is a swimming pool, basketball court and gymnasium club. These facilities help the students in maintaining proper physical fitness.

BOOKSHOP

There is a bookshop in the College which sells textbooks at subsidized rates of various subjects taught in the College. The bookshop also provides services on photocopying at a minimal charge.

17. Students' Support Services

STUDENT UNION

There is a "Students' Union" consisting of members from student community elected from all years of BPharm. The elections are held regularly at the beginning of each academic year.

The Student Union serves as the principal student programming organization at DPCG. It is responsible for providing a balanced program of social, religious, recreational and cultural activities for the College, aiming to make free time activity a cooperative facet with study. The Student Union also helps to maintain close links between the College administration, faculty, and the students which are essential for efficient functioning of the College.

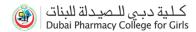
ACADEMIC ADVISING AND MENTORING

Students are allotted a faculty member for academic advising / mentoring. The Faculty-Advisor who is assigned to a study-group of students; guides in matters pertaining to their study plan, student development, the curriculum and other academic affairs. The advisor helps the student to organize her study plan and supervises its implementation and assists her in overcoming any difficulties related to it.

Faculty-Advisor identifies students making unsatisfactory progress in each class and remedial classes are arranged to improve their GPA. He/She also advises the student about the introduction of credit hour system and its requirements for graduation to obtain Degree in Pharmacy.

Faculty Advisors will maintain a student record based on student's dress code, attendance in classes, academic performance (GPA/ CGPA) and conduct in College.

They also provide information about programs, services, facilities and involvement opportunities that support academic success and lifelong learning, which facilitate responsible life choices, and promote awareness of self and community. It has specific mission but one common goal: to provide academic advising, outreach and support.



STUDENTS COUNSELING SERVICES

DPCG provides students with counseling services through a trained student counselor. She provides personal counseling to the students concerning their personal, social and moral problems, which may cause hindrance in the way to the students' success. The personal counseling to students is provided by prior appointment with the Counselor during the College working hours.

Periodically, group counseling sessions are also arranged in each academic year. The announcement of such sessions, giving the time, date and venue, is made via the college bulletin boards. Make it a habit to attend these counseling sessions on the due dates.

STUDENTS CAREER PLANNING SERVICES

DPCG provides career counseling to its students regarding career information and planning, career development, testing and prospective job placement. DPCG also provides assistance to develop different skills necessary to start a career in various Pharmaceutical settings.

Career Guidance sessions at DPCG are provided to the 4th year BPharm students on individual and/group basis with prior appointment with one of the personnel; Dean, Head of Alumni Affairs / Head of Professional Practice Experience Unit. They guide the students about the availability of the opportunities to help them decide on their future plans. They will serve to ensure the:

- 1. Preparation for MOH exams.
- 2. Self-improvement program for career development.
- 3. Availability of Jobs in different fields of Pharmacy practice.
- 4. Counseling for postgraduate and further studies.

18. Glossary of Terms

Unit System

DPCG uses the course unit system which is based on the required number of hours of instruction to be successfully completed according to the standards set by the College to obtain University degree i.e. Bachelor of Pharmacy.

Credit Hour

Credit hour refers to one lecture hour per week lasting for minimum 18 weeks. Each lecture hour is equivalent to two hours of practical study per week.

Course

Each course is a program of study presented in lectures and practical with a fixed number of credit hours taught in one semester mentioned in the curriculum.

Curriculum

Curriculum is a total description for the BPharm. program and explains the following:

- Detailed syllabus of integrated courses that fulfill the requirements for BPharm. Degree.
- Professional Practice Experience as required for BPharm. degree.

Pre-requisite

It refers to each course which is found necessary for each student to complete successfully before being allowed to register in a subsequent one e.g. Organic Chemistry I is made a pre-requisite for Organic Chemistry-II.

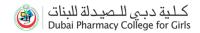


Study load

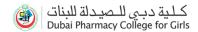
Study load in DPCG means the number of credit hours a student is registered for and has to attend weekly classes. In DPCG in spite of introducing credit hours system the load is according to the time table fixed for each class. The only provision given to the student will be the minimum credit hours out of the total that they have to successfully complete each semester in order to be promoted to the next semester.

Course Types

- **a.** An **elective** is a course chosen by a student listed from different areas available during the study period.
- **b.** A **general education** is a course offering within the following areas such as Islamic studies, English, Mathematics, etc.
- **c.** A **core requirement** course is a course within a major, which is essential and must be satisfactorily completed to fulfill the requirements of the specific departments.
- **d. Professional Practice Experience** provides opportunity for a student to have workplace experiences in community, industry and hospital pharmacies and must be satisfactorily completed to fulfill the requirements of the program.
- **e. Capstone Project:** A project submitted by the students in the fourth year of B. Pharm., based on all round knowledge they have acquired in the four main areas. This project includes a research work, which the students carry out on recent developments in pharmaceutical sciences.



Appendix A: Professional Practice Experience



Internship

Purpose

The aim of this procedure is to make sure that the students of DPCG get adequate experience in various pharmacy practice settings such as, Community Pharmacies, Pharmaceutical Industries and Hospitals, in order to achieve mission of the College.

Professional Practice Experience (PPE) in pharmacy education is rapidly gaining recognition as it enriches undergraduate curriculum and bridges theory to application.

Scope of Application

This procedure applies to all the DPCG students, Student's Professional Practice Experience Unit, comprising of a Head, Members, Administrative Staff and the Staff in Community, Pharmaceutical Industry and various Hospitals who are responsible for the implementation of this procedure.

Definitions

PPE01:

Introductory Professional Practice Experience for 200 hours during summer vacations in second and third year of B. Pharm.

PPE02:

Industrial Professional Practice Experience for 100 hours during fourth year of B. Pharm.

PPE03A:

Advanced Professional Practice Experience in Hospitals (Clinical Pharmacy) for 100 hours during third year of B. Pharm.

PPE03B:

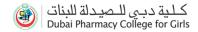
Advanced Professional Practice Experience in Hospitals for 600 hours during fourth year of B. Pharm.

Logbooks:

Supplied by the College to the students, which is an instructional manual with queries regarding Professional Practice Experience in different pharmacy practice settings.

Responsibility for Application

Head, Student's Professional Practice Experience Unit.



Process

As the pharmacy profession has moved from the traditional product to patient orientation, curricula within the schools and colleges of pharmacy have evolved to introduce more experiential course work to foster this patient orientation. This change has been supported by the philosophy of pharmaceutical care that encourages pharmacists to assume a patient advocacy role in optimizing a patient's drug therapy while minimizing the adverse effects of the medication.

The role of experiential education is to hasten and enhance the development of the student's ability to provide pharmaceutical care.

Professional Practice Experience, being an integral part of DPCG education program, has been given more emphasis to improve its implementation in the present curriculum and the number of hours have been rescheduled to 1050 to be distributed as follows:

- 1. Professional Practice Experience (PPE 01) in **Community Pharmacy** for not less than 200 **hrs.**
- 2. Industrial Professional Practice Experience (PPE 02) in **Pharmaceutical Industry** for **not less than 100 hrs**
- 4. Advanced Professional **Practice Experience** (PPE 03A) **in Hospitals** for **not less than** 100 **hrs**
- 4. Advanced Professional **Practice Experience**(PPE 03B) **in Hospitals** for **not less than** 600 **hrs**

Professional Practice Experience Test (PPET)

During PPE01 training and after completing 100 hours, the student will be evaluated orally in the pharmacy during the training period. After completion of 200 hours of training, students will be evaluated with structured evaluation checklists, and oral examinations.

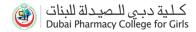
After completing PPE 03B training, the students will be evaluated with structured evaluation checklists and oral examinations. Oral and written examination evaluation for PPE 03A and written test for PPE 02 in coordination with the training staffs. It will be useful to assess their knowledge and training outcomes considering accomplishing the training goals' output.

Evaluation of PPE

At the end of each of PPE01, PPE02, PPE03A & PPE03B the students must answer a questionnaire. College Supervisor will collect these questionnaires and co-ordinate the results. The results of this study will be discussed in the College Academic Council Meeting and the Advisory Committee for any improvements in Professional Practice in Community, Hospitals and Pharmaceutical Industry if considered necessary.

Logbooks

- Each student will be provided with a Logbook at the start of each PPE.
- The main objective of the Logbook is to achieve the goals of PPE.
- Logbook is a manual designed by Dubai Pharmacy College, which is to be filled by the student during Professional Practice.
- Every Student should have her own "Log Book" to write down daily activities, during the PPE.
- College Supervisor will provide the student with the procedure for filling the Logbook.



• The student should submit the Logbook to the College supervisor at the end of her Professional Practice.

Student's Responsibility:

The student must be informed before each PPE about her responsibilities which are as follows:

- **1.** She must exhibit a professional appearance in manner and dress and adhere at all times to the standards of dress behavior.
- 2. She must wear her name badge at all time during PPE.
- **3.** She must regard all information and activities relating to the pharmacy, the medical community and customers to be confidential and, under no circumstances will such knowledge be revealed to anyone.
- **4.** She must keep in mind that the primary aim of PPE is learning. Learning is not a passive process, but requires a continuous, active commitment.
- **5.** She should recognize that the best learning environment is one that fosters mutual respect and courtesy between the trainee and preceptor.
- **6.** She should never question the advice or directions of the preceptor in public, personnel, but rather accept it as a means of learning.
- **7.** She should never be hesitant to admit that something is not known to her and should seek help whenever needed.
- **8.** She should be aware of all laws and rules which govern her practice, and should seek clarification of any points which are not clear.
- **9.** If she is regularly asked to violate laws or has knowledge that the pharmacy where she is employed violates such laws, she should immediately report and ask for change of PPE site or the preceptor. She shall report within five days after the end of each PPE to PPE Coordinator.

I) Introductory Professional Practice Experience (PPE 01)

It is taken by the students in one or more Community Pharmacies selected by PPE coordinator during yearly summer vacations in the second and third years of B. Pharm. under course heading PPE01.

Introductory practice experiences are intended to introduce the student to pharmaceutical care. Service learning and shadowing are two types of experiences that accomplish this goal.

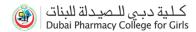
Service learning allows students to participate in service projects that meet the needs of the community, foster a sense of caring for others, and lead to student learning through communication and professionalism. Therefore, there are reciprocal benefits for both the community and pharmacy students. The development of caring relationships during service learning prepares students for establishing conventional patient caring relationships.

Shadowing, another type of introductory practice experience, involves the student in observing practitioners conducting pharmaceutical services in the community pharmacy.

Regular visits, at least once, will be done by the faculty member of DPCG to monitor the students training progress as per the predefined learning objectives and have discussions with preceptors and students. The monitoring can also be done by contacting the student's preceptors via phone, fax and email.

Learning Outcomes

On completion of the Introductory Professional Practice Experience in one or more Community Pharmacies, the students will be able to:



- LO 1. Identify main pharmacy locations and distribution of medicines in communitypharmacy.
- **LO 2.** Distinguish the prescription and non-prescription medications and pharmaceutical products available in the market
- LO 3. Recognize the minor to moderate medical cases that can be managed by the pharmacist
- **LO 4.** Recognize the standard information required in a prescription
- **LO 5.** Review the prescription for proper product selection, proper dose, proper frequency, proper duration, drug interaction, drug disease interaction to ensure effective, safe and economic patient care
- **LO 6.** Apply calculations required for compounding, dispensing and administering medications with proper conversions between metric, and apothecary system of weights and measures
- LO 7. Practice proper prescription checking, pricing, preparing, and labelling
- **LO 8.** Apply, modify or recommend modifications in prescriptions to ensure effective, safe and economical patient care.
- **LO 9.** Resolve prescription problems
- **LO 10.** Record prescription using files and / or computer.
- **LO 11.** Identify policy to inventory control (including purchase of medicines, expired medications and return of patients to suppliers)
- **LO 12.** Recognise good storage practice in Community pharmacy.
- LO 13. Apply IT skills for gaining professional information and literature
- LO 14. Communicate with Health professionals for effective resolution of drug related problems.
- LO 15. Communicate with preceptors for reviewing cases, diseases or drugs
- LO 16. Operate the professional experience in patient counseling and monitoring.
- **LO 17.** Communicate with patients for taking patient history, selecting, recommending self therapy or OTC drugs.
- **LO 18.** Develop the concepts for rational use of different pharmaceutical dosage forms.

Supervision of PPE01

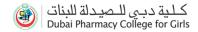
Introductory PPE is carried out under the supervision of the College supervisor (Member of Student Professional Practice Experience Unit) and a preceptor at PPE site who plays positive role model for students and who possess the following characteristics.

Preceptor's characteristics

The Preceptor or the Pharmacist should:

- 1. Have minimum of one year of professional experience.
 - 2.Be involved in professional organizations.
 - **3.**Be competent in the area of practice.
 - **4.**Take personal responsibility for patient outcomes.
 - **5.**Utilize clinical and scientific knowledge in clinical care decision making.
 - 6.Demonstrate the ability of having latest scientific knowledge in Pharmaceutical field.
 - 7. Demonstrate a desire and an aptitude for teaching.
 - **8.**Demonstrate the ability to assess and document student performance.
 - **9.**Practice continuous professional development and collaborate with other healthcare professionals as a member of a team.
- 10. Demonstrate a commitment to his/ her organization, professional society and community.

Role of Preceptor



- 1. To train the students as per the objectives of PPE.
- **2.** To evaluate students for their performance during PPE in developing and demonstrating the explicit skills mentioned for each PPE.
- **3.** To ensure the recording of all data in the log book.
- **4.** To supply the College supervisor a certificate indicating PPE completion of the student in the pharmacy.
- 5. To report to the College supervisor after completion of PPE.

Steps for Introductory PPE 01

- **1.** PPE co-ordinator asks all students to suggest at least two community pharmacies of their choice with the name and qualification of the pharmacists working in these pharmacies.
- 2. The coordinator collects all the students before PPE and gives them the Log Book.
- **3.** PPE coordinator explains the objectives of PPE01 and student's responsibility during PPE and also provide information to each student about the selected preceptor.
- **4.** Each student receives a letter signed by PPE01 coordinator and the Dean for the preceptor which has the starting date and completion date of PPE.
- **5.** After completion of PPE01 the Coordinator receives Preceptor's reports and Evaluation sheets and send them to Evaluation and Examination Unit.

Evaluation of students receiving PPE01 Total marks for evaluation of PPE01 are 100, which are distributed as:

S.N.	Particulars	Marks Allotted
1.	Practical Performance (*)	50
2.	Log book submission	20
3.	Attitude	5
4.	Attendance	5
5.	Oral exam	20
Total Note: t	he student should achieve at least 70% marks to be considered mandatory pass in PPE01	100

(*) Practical performance includes the following:-

Distribution of Medication in CP (Community Pharmacy)

Storage in CP

Purchasing Methods in CP

Dispensing of Prescriptions

Calculation and preparation of Prescriptions

Dealing with Expired Medicines in CP

Preceptor and Physician Interaction

Dealing with OTC

Dispensing of Controlled Drugs in CP

(**) Logbooks

Each student will be provided with a Logbook at the start of each PPE.

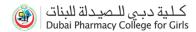
The main objective of the Logbook is to achieve the goals of PPE.

Logbook is a manual designed by Dubai Pharmacy College, which is to be filled by the student during Professional Practice.

Every Student should have her own "Log Book" to write down daily activities, during the PPE.

College Supervisor will provide the student with the procedure for filling the Logbook.

The student should submit the Logbook to the College supervisor at the end of her Professional Practice.



II) Industrial Professional Practice Experience (PPE 02)

It is taken by the students during the second semester of B. Pharm. 4th year in Drug manufacturing industries of U.A.E., which should meet the following requirements:

- 1. Should apply GMP.
- 2. Should have manufacturing capacity of all types of pharmaceutical products, a well-developed R & D. section, a good Quality Control department and well-arranged storage facilities.
- 3. Should have a licensed MOH Pharmacist in Production and Quality Control department.
- 4. Should be functional and operative.

Learning objectives of the Industrial Professional Practice Experience are:

- LO 1. Identify the design and set up of a Pharmaceutical Industry
- **LO 2.** Identify the design and set up of a Pharmaceutical Industry.
- LO 3. Identify basics in Good Manufacturing Practice.
- **LO 4.** Organize purchase and analysis of the raw materials used in the manufacturing of different pharmaceutical products.
- **LO 5.** Show experience in various Production Units involved in the manufacturing of solid, liquid, semisolid, and sterile dosage forms, etc.
- **LO 6.** Identify the packaging and storage of manufactured pharmaceutical products.
- **LO 7.** Show knowledge about quality control, quality assurance and validation of manufactured pharmaceutical products.
- **LO 8.** Show an experience of working in quality control laboratories having sophisticated instruments like HPLC, GC, and Mass Spectrophotometer etc.
- LO 9. LO8: Describe the product and development work going on in R & D labs of the Industry.

Supervisors for Industrial Professional Practice Experience

Professional Practice in the Pharmaceutical Industry is monitored under supervision of:

- 1. College Supervisor: one of the members of Students Professional Practice Experience Unit.
- 2. Industry Supervisor: in the drug manufacturing industry.

Responsibilities of Industrial PPE Supervisors

a. College Supervisor

- 1. To prepare a list of students eligible for Professional Practice.
- 2. To send the list of students to the Industry Supervisor.
- 3. To co-ordinate with the Industry Supervisor for:
 - > Student's transportation from College and hostels to Industry and back.
 - Monitoring the Professional Practice program.
 - > Solving any problem hindering proper Professional Practice.
- **4.** To prepare a monthly report about Professional Practice of students for review by the College Academic Council.
- 5. To evaluate students PPE depending on professional reports supplied by them.

b. Industry Supervisor:

- 1. To receive a list of students sponsored for Professional Practice.
- 2. Send a list of enrolled students to the College Supervisor.
- 3. To prepare a Professional Practice program meeting the following requirements,



- **a.** To identify the Units in the Industry where Professional Practice will take place as per the prescribed schedule.
- **b.** To identify the person responsible for marking the attendance of students during Professional Practice.
- **c.** To determine the mode of Professional Practice and appoint the person responsible for monitoring the program.
- d. Fulfillment of 50 hours Professional Practice in the Industry.
- e. To give each student a copy of Professional Practice program.
- **4.** To submit a report to the College Supervisor about the students' attendance.
- **5.** To submit a report on students assessment to the College Supervisor at the end of Professional Practice in Pharmaceutical Industry.

Evaluation of students receiving Industrial PPE 02 Total marks for evaluation of Industrial PPE02 are 50, which are distributed as:

S. No.	Particulars	Marks Allotted
1.	Experience of stores for raw materials and finished products	05
2.	Production for solid, semi-solid, liquid and sterile dosage form.	05
3.	Quality control and Quality assurance	05
5.	Attendance	05
6.	Professional report supplied about student	10
7.	Written test	20
Total		50

III) Advanced Professional Practice Experience in Hospitals-(Clinical Pharmacy) (PPE 03A)

It is taken by the students in spring semester of B.Pharm. 3rd year and under course heading PPE03A. Hospital training is taken in hospitals under Dubai Health Authority (DHA). The hospitals are selected by the PPE Coordinator and it should meet the following requirements:

- a. Ministry of Health, U.A.E. or, Dubai should have approved the hospital.
- **b.** All activities related to patients must be computerized.

Learning Outcomes of Advance Professional Practice Experience (PPE03A)

- **LO 1.** Effective use of electronic medical records and other technology-based systems or paper-based medical records, to analyze data used in patient care
- **LO 2.** Effective use of confidential hospital patient medical health information in accordance with hospital rules and policies
- LO 3. Review patient clinical data including medication profiles
- **LO 4.** Drug regimen review and therapeutic recommendations
- **LO 5.** Interpret the laboratory tests results and recommend other investigations required for the diagnosis and monitoring of drug treatment within included disease areas
- **LO 6.** Categorize the patient's drugs related needs and different types of patients' treatment related problems.
- LO 7. Identify, evaluate, solve and prevent drug-related problems
- **LO 8.** Design and develop the therapeutic plan, follow-up and outcome monitoring required to facilitate continuity of patient care process.



- LO 9. develop and formulate pharmaceutical care plans and conduct effective counselling to the patients
- LO 10. Communicate with health care professionals for effective resolution of drug therapy problems
- **LO 11.** Interact with other health care professionals

PPE03A Course activities:

The course consists of both hospital rotations and case discussion sessions (PBL). Students will gain an understanding of rational drug therapy in the treatment of selected diseases; problems associated with implementing rational drug therapy; and the monitoring tools necessary for evaluation of drug therapy. Students will be expected to correlate the findings of case study with the drug therapy and disease.

Students are assigned to subgroups each of 4-5 students throughout the course. This (PPE03A) course is conducted on weekly basis according to the following schedule: Clinical Activity including Hospital Visit/ rotation for 12 weeks in different wards such as, Internal medicine ward, Pediatric ward, ICU ward, CCU ward and Gynecology ward, etc followed by Case Discussion in (PBL).

Supervision of PPE03A

<u>Advance Professional Practice Experience</u> PPE is carried out under the supervision of the College supervisors (Members staff in clinical pharmacy and pharmacotherapeutics Department) and a supervisor at PPE site.

Responsibilities of advanced PPE03A Supervisors

a. College preceptor at PPE site

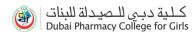
- 1. To prepare a list of students eligible for advanced Professional Practice.
- 2. co-ordinate for Student's transportation from College and hostels to hospital and back.
- 3. Monitoring the Professional Practice program and arranging the student rotation schedule
- 4. Marking the attendance of students during Professional Practice and report to the College Supervisor about the students' attendance
- 5. Orient student to site, policies, and procedures
- 6. Provide on-going feedback.
- 7. Direct the students and monitor the students to record assigned patient database information, drug therapy problems, monitoring, parameters, recommendations, and follow-up
- 8. Direct student to different readings resources.
- 9. Full responsibility for supervision of the students
- 10. Ensure the students does not access the patient record independently.
- 11. Make the students aware of the confidential nature of information concerning patients, hospital personnel or other confidential types of hospital information.
- 12. Ensure that all students Sign a privacy and confidentiality declaration provided by the hospital site.
- 13. Notify faculty of concerns about student's behavior, work, or progression.

b. College Supervisor:

Meet with college supervisor in weekly basis after the rotation for complete case discussion or case presentation session

c. PPE site Supervisor:

- 1. To receive a list of students sponsored for advanced Professional Practice.
- 2. Organize the training program and student distribution in different wards
- 3. Receive the Signed privacy and confidentiality declaration.



14. Organize orientation lectures for the students by training coordinator and member of infection control and safety.

Evaluation of student's performance:

Preceptor from Dubai Pharmacy College for Girls (DPCG) will be guiding the students throughout their training. Before the rotation begins, the preceptor and the student should meet and review the rotation sites, goals and objectives, students' performance expectations and criteria to measure performance. During a rotation, the preceptor will orient student to site, policies, and procedures, assess the student's performance, assess the selected clinical cases and direct student to reading resources.

After the rotation the assessor will evaluate each group of students based on the evaluation criteria. The rotation goals and objectives communicate that the students are expected to provide patient care successfully in the clinical setting.

Evaluation of students receiving PPE03A Total marks for evaluation of PPE03A are 100, which are distributed as:

S. No.	Particulars	Marks Allotted
1.	Case Discussion (PBL) & Case Presentation	50
2.	Attendance	10
3.	Attitude	5
4.	Case Reports or Case Manual	15
5.	Case Based Exam	20
6.	Total	100

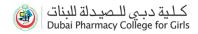
IV) Professional Practice in Hospitals (Advanced PPE 03B)

It is taken by students in spring semester of B.Pharm. 4th year and under course heading PPE03B. Hospital training is taken in different Dubai Health Authority (DHA) hospitals and primary health care centers. The hospitals are selected by the PPE Coordinator and it should meet the following requirements:

- c. Ministry of Health, U.A.E. or, Dubai should have approved the hospital.
- **d.** Pharmacy in the hospital should also be approved by Ministry of Health and Department of Health.
- **e.** The hospital pharmacy should have at least five licensed (MOH / DOHMS) pharmacists under its employment.
- f. All activities related to patients, drugs and dispensing in the pharmacy must be computerized.

Learning Outcomes of Advance Professional Practice Experience (PPE03B)

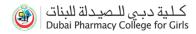
- **LO 1.** Identify basic steps of proper outpatient, inpatient care and proper medication processing according to current standards of care unique to hospitals and health care systems.
- **LO 2.** Evaluate prescription drug order for completeness, accuracy of dosing, route of administration, drug-drug interaction and drug-disease interaction
- **LO 3.** Apply calculations required for compounding, dispensing and administering medications with proper conversions between metric, and apothecary system of weights and measures
- LO 4. Practice proper prescription checking, pricing, preparing, labelling, and storage
- LO 5. Identify all functions of dispensing and labeling modules in electronic pharmacy system



- **LO 6.** Apply guidelines and standards of practice for preparation, storage, in process quality control, and administration of sterile dosage forms and parenteral nutrition products in various pharmacy practice settings
- **LO 7.** Resolve prescription problems regarding questionable or unclear medication orders and explain any medication errors such as missed doses, incorrect doses, or incorrect drugs.
- **LO 8.** Detect and report medication errors, adverse drug reactions and drug interactions
- **LO 9.** Recognize Drug distribution systems and policy of dispensing special orders in hospitals: Outpatient and in-patient dispensing
- LO 10. Analyze and resolve problems associated with patient drug therapy
- **LO 11.** Recognize hospital guidelines and policy for ordering, recording and dispensing narcotics in both inpatient and outpatient settings
- LO 12. Recognize hospital guidelines and policy for proper inventory control
- **LO 13.** Communicate effectively with patients and provide proper patient counselling with appropriate terminology
- **LO 14.** Establish a prospective therapeutic management plan that includes therapeutic endpoints, monitoring parameters, individualization of dosages, and patient counseling.
- **LO 15.** Assess patient medication needs on discharge solving the problems such as drug and dosage discrepancies, where prescriptions should be filled, and when prescriptions are needed
- **LO 16.** Communicate effectively with other members of the health care team on topics such as therapeutics, drug information, policies and procedures, and patient planning needs.

Student activities during the round:

- 1. Review patient medication therapy regularly before rounds in terms of indication, dosage, route, duration, efficacy and toxicity.
- 2. Obtain information to update and correct the medication profile.
- **3.** Formulate and documents a list of problems for new or existing patients seen by the service. The list should focus on disease, drug, or socioeconomic factors.
- **4.** Attend work rounds on a consistent basis and communicate to other on rounds the following information:
 - a. Patient's current medication use.
 - **b.** Observed subjective or objective signs of efficacy or toxicity.
 - c. Drug distribution problems (non-formulary status or medication not ordered for a newly admitted patient)
 - **d.** Prospective therapeutic management plans for patient problems (i.e., change of therapy, discontinuance of medication, change of pain medication, use of prophylactic antibiotics, and identification of therapeutic alternatives).
- **5.** Attend work rounds and gather the following information:
 - a. Subjective and objective data for monitoring a patient's medication therapy.
 - **b.** Changes in patient status (condition improved or worsened), discharge date, surgery, diagnostic procedures and results of procedures.
 - **c.** Changes in nondrug therapy (i.e., dietary changes, socioeconomic conditions, or physical therapy.
 - **d.** Patient's understanding of medication, name strength and expected benefits and toxicities.
 - e. Projected discharge needs including any special counseling.

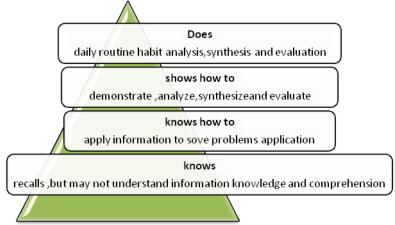


- **6.** Communicate developments to the unit pharmacist if he or she is unable to attend all or part of rounds.
- **7.** At the end of the day, the students and their supervisors can have a lecture regarding the cases they faced during the daily round to discuss any modification or to clarify any doubt.

Evaluation of student's performance:

Preceptor from Dubai Pharmacy College (DPCG) will be guiding the students throughout their training. Weekly visit will be done by the faculty member of DPCG to monitor the students training and have discussions with preceptors and students separately. During a rotation, the preceptor will assess the student's performance and provide feedback about the strengths and areas for improvement. The preceptors will make these assessments using evaluation forms and performance criteria that are based on goals and objectives out lined in the rotation syllabus or manual. Therefore, before the rotation begins, the preceptor and the student should meet and review the rotation goals and objectives, students' performance expectations and criteria to measure performance.

The rotation goals and objectives are statements that communicate the level of performance and activity of the students which are expected from them to demonstrate. Typically, rotation goals and objectives communicate that the students is expected to provide patient care successfully in the clinical setting.

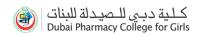


This figure describes four levels of ability that a student must achieve to provide patient care. The lowest level of this triangle is "knows" this tier infers that a student can recall knowledge gained during classroom courses and the rotations. Goals and objectives describing this level will be statement such as "The student can describe symptoms, pathophysiology, laboratory tests, physical examination, prognosis and diagnosis of acute and chronic diseases. The other verbs that could be used in this statement to describe how to use the knowledge gained during class rooms

Evaluation of students receiving PPE03B

Total marks for evaluation of PPE03B are 200, which are distributed as:

S. No.	Particulars	Marks Allotted
1.	Out - patient Internship	35
2.	In - patient internship.	35
3.	Floor Stock Supply and Inspection	25
4.	I.V admixtures / TPN services and chemotherapeutic admixtures.	25
5.	Patient care rounds including	25



	Total	200
9.	Oral exam	15
8.	Attendance	10
7.	Attitude	10
6.	Patient counseling including	20

Overall Evaluation of PPE

S. No.	Particulars	Marks Allotted
1.	Introductory PPE01	100
2.	Industrial PPE02	50
3.	Advanced PPE03A	100
4.	Advanced PPE03B	200
	Total	450

Records

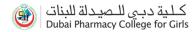
Relevant records such as logbook, etc... will be checked by the head of Students' Professional Practice Experience Unit

Filling

With the help of the members of Students' Professional Practice Experience Unit, it will be filled in the concerned files.



Appendix B: Capstone Project



Introduction

Introduction:

The students in the fourth year of B. Pharm. submit a paper of the graduation project based on all round knowledge they have acquired in the four main areas viz. Clinical Pharmacy and Pharmacy Practice, Pharmaceutics, Pharmacology and Toxicology, and Pharmaceutical Chemistry and Natural Products. This project includes a research work, which the students carry out in a group of 5-7. Students may submit their preference to the Head of Faculty Development and Research Unit by the end of sixth semester. They have a choice of choosing bench research from subjects like Natural Products, pharmaceutical chemistry, pharmacology, and pharmaceutics; or can do survey based on data collected from hospitals, community in subjects related to clinical pharmacy; or can write a review article.

Prerequisites: Successfully completed all the courses of first, second and third years.

Learning Outcomes:

On successful completion of capstone project, students should be able to:

- **LO1** Investigate research problems and experiment new ideas in concurrence with the goals of the College.
- LO2 Evaluate literature critically and relate research findings with reported literature
- **LO3** Perform various experiments and research design as a team and evaluate the appropriateness of procedures in research.
- **LO4** Predict conclusions from the research findings and organize/report research findings in form of project.
- **LO5** Defend research work to the panel of experts and present research findings at various scientific platforms.

Role of Advisor:

The student's research Advisor holds the primary responsibility for providing the appropriate guidance and counsel essential to the scholarly development of the student. Based on the research interest and mutual consent of both students and advisor as well as any updated regulations decided by DPCG administration, each group of student is allocated to specific research supervisor at the end of the sixth semester.

The advisor shall supervise the students' graduation project work and paper preparation and will chair the examining committee for the students' defense of their project and write up.

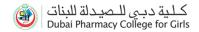
1) Completion of the Capstone Project

Completion of the Capstone project involves a number of steps, which are as follows:

a) Selection and registration of topics for B. Pharm Capstone Project:

The selection and registration of topics for the BPharm Project are done accordingly as mentioned below:

- i. Collection of project topics from the faculty members.
- ii. Approving the project topics by Research and Ethical committees.
- iii. Announcing the project topics by Faculty Development and Research Unit in the sixth semester.
- iv. Selection and registration of projects topics.
- **v.** Carrying out the project under the faculty member's supervision.



b) Facilities, Experimental work and data collection for the Capstone Project.

The experimental work (if any), collection of data for the project, and writing of the paper of the project are done by the students with the help of the facilities made available by Dubai Pharmacy College for Girls. These facilities are:

- Science Laboratories of Dubai Pharmacy College for Girls.
- Science Laboratories of Dubai Medical College for Girls.
- Instrumentation facilities of Central Laboratory of the Foundation.
- Computer labs and library.
- Public and/or private hospitals under the Ministry of Health.
- Pharmaceutical companies.
- Community pharmacies.

Facilities for writing of the project:

The college provides sufficient facilities to the student for efficient writing of their graduation project paper.

Various facilities provided by DPCG are:

- Drug Information Center
- Central Library
- IT facilities

Others:

Library of Dubai Health Authority Hospitals.

c) Organization of Capstone Project

The capstone project should be assembled in the order listed below:

- 1. Title page (titles, authors and affiliations)
- 2. Abstract (required; 250 words or less for the bachelors project; double-spaced and organized as statement of the problem, procedure and/or methods, results and conclusions).
- 3. Keywords
- 4. Graphical abstract
- 5. Introduction
- 6. Materials and methods
- 7. Results
- 8. Discussions
- 9. Conclusion
- 9. Acknowledgments
- 10. References

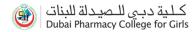
Margins

For copying and binding purposes, every page of the project article must be left 1.25"; top, right and bottom 1". Margins must be left justified. All manuscript material must fit within these margin requirements (including tables, headers and footers, figures, graphs, and page numbers).

When full-page prints of photographs are desired, the image area of the print must conform to the same margins as the text.

Spacing

The abstract, acknowledgments, and introduction must be double-spaced. Footnotes, bibliographies, long quoted passages, as well as items in lists, tables, and appendices may be single-spaced. The article must be printed on one side of the paper.



Style and Documentation

Style and techniques of presentation including documentation should correspond to standard practices employed in the scholarly field of the research article. Generally acceptable are the documentation styles in The Chicago Manual of Style (University of Chicago Press); The MLA Handbook for Writers of Research Papers (published by the Modern Language Association of America); or the Publication Manual of the *American Psychological Association*. Each candidate should resolve all questions of style and technique with her advisor before preparing the final copy.

All the points mentioned above are discussed with the concerned supervisor. Draft copy is to be checked and approved from the Supervisor before the final copy is made.

- 2) Submission of the Graduation Research Project for Evaluation
 - i. Five copies of the graduation project article are submitted to the Head of Faculty Development and Research Unit, latest by 10th June.
 - **ii.** An Evaluation Committee for the Project is formed by the Dean in consultation with the College Academic Council for the evaluation of the Project. The Evaluation Committee consists of the following:
 - **a.** A panel of external examiners
 - Two experts in the related field of research
 - **b.** A panel of internals examiners
 - Dean or Head of the concerned Department
 - Supervisors of the Capstone Project
 - **iii.** The students have to present their project work in front of the members of the Evaluation Committee. The evaluation of the Project is done during 1st July to 10th July.
 - **iv.** The evaluation is in the form of an oral presentation by the candidates. The distribution of marks (100) is as follows:

v.

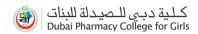
Published or accepted in an indexed Journal or Conference is an added advantage.	25 Marks
Presentation	25 Marks
Oral exam	25 Marks
Work progress and performance (to be evaluated by the supervisor)	25 Marks
Grand Total	100 Marks

The following evaluation tools (rubrics) are used in evaluation;

Paper& Defense Evaluation	Does Not Meet Expectations (0-50)	Meet Expectations (50-70)	Exceeds Expectations (70-100)
Aims	Limited expansion upon previous research Limited theoretical or applied significance Limited publication impact	Builds upon previous research Reasonable theoretical or applied significance Reasonable publication impact	Greatly expands previous research Exceptional theoretical or applied significance Exceptional publication impact
Introduction/ Literature	Little evidence of relevant and current literature. The review of the literature is fragmented and incoherent.	Good evidence of literature having been reviewed. Good attempt to critique existing literature, but the link to this project could be stronger.	Excellent coverage of relevant literature from a range of sources and journals.



	Little or no critical appraisal of the literature.		Highly developed critique of existing literature and it is clearly linked back to the relevance of the chosen topic.
Method	Choice of method is unclear or not justified. Description of method is unclear and inadequate. Choice of data analysis is inappropriate for the study.	Method is appropriate, with good justification provided for it. Key aspects of the method are described but with some minor omissions or lack of detail. Appropriate choice of data analysis with a good justification for that choice.	Method is appropriate, with excellent justification provided. All aspects of the method are described in excellent detail. Sophisticated choice of data analysis accompanied by excellent justification for that choice.
Results	Presentation of data / results is unclear and inappropriate. Analysis of data is inappropriate or superficial. Analysis contains significant inconsistencies.	Presentation of the data /results is generally clear. Analysis of the data is appropriate but limited. Analysis contains some minor inconsistencies or inaccuracies.	Presentation of the data / results is exceptionally clear. Analysis is appropriate, thorough, and possibly innovative. Analysis contains no inaccuracies or inconsistencies.
Discussion/ Conclusions	Unsubstantiated or invalid interpretation of results. Little or no linking to theory or literature. Limitations of the research are not discussed or are incorrectly outlined. Considerations for further research are not discussed.	Good interpretation of results in relation to the study's aims. Clear references to theory and literature. Limitations of the study are addressed appropriately. Good discussion of possibilities regarding future research.	There is excellent interpretation of results in relation to the study's aims. There are excellent references to theory and literature. Limitations of the study are very well addressed. Excellent discussion of possibilities regarding future research.
Presentation/ Referencing	Formatting is frequently erroneous or inconsistent. There are frequent and major errors regarding language, grammar, and spelling. A non-standard or non-approved referencing system is used and/or there are major errors in referencing both in the text and within the reference list.	There are some errors and inconsistencies in formatting. There are some errors regarding language, grammar, and spelling. A recommended referencing system is used but with a number of errors either in the text or in the reference list.	Formatting is consistent, error free, and impressive. Language, grammar, and spelling are correct and appropriate throughout the article. A recommended referencing system is used correctly and consistently throughout the manuscript.
Oral presentation and defense of paper	Does not adequately defend research; does not answer key questions; frequently shows a need for deeper reflection on vital points; Reads the material from presentation to make the report and is clearly not comfortable with the topic.	Adequately defends research; answers questions, but often with little insight; frequently shows a need for deeper reflection on minor points; Relies too much on presentation and has difficulty speaking freely to the audience, and is somewhat comfortable with the topic.	Masterfully defends research by providing clear and insightful answers to questions; uses presentation resources as a guide, gives detailed explanations, is easily understandable, and



		keeps appropriate eye
		contact with the audience.

Marking Scheme

Item	Score out of 100	Weighting	Percentage
Abstract	5	X0.05	5%
Introduction/Literature	20	X0.2	20%
Method	10	X0.1	10%
Results	10	X0.1	10%
Discussion/Conclusions	30	x0.3	30%
Presentation/Referencing	5	x0.05	5%
Defense	20	x0.2	20%
Total	100	1	100

Upon evaluation, if the graduation project's article fails to meet the requirements for the degree (failed to obtain minimum 70%), a bachelor's student will not graduate. However, the student has the option to revise and resubmit the revised paper within two months after which it is assessed again through the same procedure.

In cases where major plagiarism is alleged, the examination process does not proceed any further and the case is investigated through DPCG disciplinary processes.



Placement of Alumni









Johnson-Johnson









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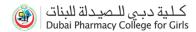
	DPCG FACULTY MEMBER	RS	
Name	Degrees	Institution	Year
Prof.Dr. Saeed Ahmed Khan Dean, Professor and Head Pharmaceutical & Medicinal Chemistry Department	Ph. D. (Chemistry) M. Phil. (Chemistry) M. Sc (Chemistry)	Delhi University (India) Delhi University (India) Aligarh Muslim University (India)	1985 1982 1980
Prof. Dr. Naglaa Gamil Chief Academic Officer Professor,Natural Products	Ph.D.(Pharmacognosy & Phytochemistry). M.Pharm. (Pharmacognosy) B.Pharm	Cairo University (Egypt) Cairo University (Egypt) Cairo University (Egypt)	2004 1998 1991
Prof. Dr. Aliasgar Fakruddin Shahiwala Graduate Program Director Professor in Pharmaceutics	Postdoctorate Ph. D. (Pharmacy) M.Pharm.	Northeastern University (USA) M.S.University (India) M.S.University (India)	2007 2005 1999
Prof. Mirza Baig Head, Clinical Pharmacy and Pharmacy & Pharmacotherapeutics Department Professor in Clinical Pharmacy	PhD (Clinical Pharmacy) MPharm	University Science Malaysia RGUHS, India	2011 2003
Prof. Bazigha K. Abdul Rasool Head, Research, Laboratories and Facilities Professor in Pharmaceutics	Ph.D. (Pharmaceutics) M.Sc. (Pharmaceutics) B. Pharm (Pharmacy Sciences)	University of Baghdad, (Iraq) University of Baghdad (Iraq) University of Baghdad (Iraq)	2004 1998 1990
Dr.Fazilatun Nessa Associate Professor in Pharm.& Medicinal Chemistry	Ph.D. (Pharmaceutical Chemistry) M.Pharm(Pharmaceutical Chemistry) B.Pharm	University Sains Malaysia(Malaysia) University of Dhaka (Bangladesh) University of Dhaka (Bangladesh)	2004 1991 1989
Dr. Gazala Afreen Khan Head, Examination and Evaluation Unit Assistant Lecturer Medical Science Department	Ph. D. (Molecular Genetics) M. Sc (Genetics)	Osmania University (India) Osmania University (India)	2004 1998
Dr. Hanan Head of Faculty Develoment and Research Unit Assistant Professor in Pharmacology	Ph.D. (Pharmacology & Toxicology) M. Sc. (Pharmacology & Toxicology)	Mansura University (Egypt) Mansura University (Egypt)	2017 2010
Dr.Ammar Ali Saleh Jaber Head, Professional Practice Experience Unit Assistant Professor in Clinical Pharmacy	Postdoctorate PhD (Clinical Pharmacy) MPharm (Pharmacy)	University Science Malaysia University Science Malaysia Jamia Hamdard, India	2018 2017 2011
Dr. Ramdan Assistant Professor in Clinical Pharmacy	PhD (Clinical Pharmacy) MPharm	University Science Malaysia University Science Malaysia	2011 2003
	PhD (ongoing) M.Phil. (English for Specific Purposes) B.Ed (English)	BITS Pilani (UAE) Pondicherry University (India) Calicut University (India)	 1995 2002 2007
Assistant Professor General Education Requirements	M.Phil. (English for Specific Purposes)	Pondicherry University (India	



	DPCG FACULTY MEME	BERS	
Name	Degrees	Institution	Year
Dr.Doaa Kamal	PhD Clinical Pharmacy	International Islamic University of	2020
Assistant Professor in Clinical Pharmacy	M.Sc. (Clinical Pharmacy)	Malaysia (IIUM) Jordan University (Jordan)	2010
· · · · · · · · · · · · · · · · · · ·	BPharm	Dubai Pharmacy College (UAE)	2002
Dr. Rana Sammour Assistant Professor in Pharmaceutics	PhD Pharmaceutical Technology	International Islamic University of Malaysia (IIUM)	2020
	Msc. Pharmaceutical Technology	Ajman University of Science and Technology	2013
	BPharm	Dubai Pharmacy College UAE)	2003
Ms. Yousra Adnan	PhD (ongoing)	University of Strathclyde	2019
Assistant Lecturer	MSc. Pharmacology &Toxicology B.Pharm	UAE University	2015 2006
	B.Pildiii	Dubai Pharmacy College (UAE)	2006
Ms. Eiman Shams Elddin Elgailani	PhD (ongoing)	University of Strathclyde	2019
Assistant Lecturer	MPharm Clinical Pharmacy	Dubai Pharmacy College UAE)	2015
	B.Pharm	Dubai Pharmacy College UAE)	2005
Mrs. AlZahraa Mahmoud Hussain	PhD (ongoing)	University of Strathclyde	2019
Assistant Lecturer	MPharm Pharmaceutical Product Development	Dubai Pharmacy College UAE) Dubai Pharmacy College (UAE)	2016 2008
	B.Pharm	Dabar Harriacy conege (OAL)	2000
Mrs. Khuloud Abu Shawish	MSc. (ongoing)	Sharjah University	
Teaching & Research Assistant.	B.Pharm	Dubai Pharmacy College	2014
Ms. Suzan	Master of Science	Mahatma Gandhi University	2004
Mrs. Ola Abedeen	B.Pharm	Dubai Pharmacy College	
Teaching & Research Assistant.			2008
Ms. Doua Mohamad Osman	Bachelor's Degree in the School of	Alahfad University for Women	2008
Lecturer in Psychology	Psychology	(Sudan)	

FACULTY from	n DMCG
Dr. Shifaan Khanday	Prof. Dr. Hafez
Assistant Professor in Anatomy	Professor in Biochemistry.
Prof.Dr.Abeer Abdel Moneim	Prof. Dr. Naglaa Raafat Abdl Raob,
Professor in Physiology	Professor in Biochemistry.
Dr. Rasha	Prof. Samia
Associate Professor in Physiology	Professor in Psychology
Dr. Riham	Prof. Ghazala Mehdi
Assistant Professor in Pathology	Professor in Pathology
Dr. Wafiq Shafiq Head, Educational Informatics Unit, Lecturer in Informatics	

PART -	– TIME F	ACULTY



Mrs. Farzana Firdouse PhD Information Technology Assistant Professor in Computer Applications and Mathematics	Prof Jinan PhD (UK) Assistant Professor in Islamic Studies
Dr.Mariem Galadari	
Lecturer in Pharmacy Laws	
Cairo University	

SUPERVISORS FOR PROFESSIONAL PRACTICE EXPERIENCE

HOSPITALS

Prof. Dr. Ali Syed Hussain, M.Sc., Ph.D.(USA)

Director, Pharmaceutical Services,

Coordinator, Professional Practice Experience,

Dubai Health Authority-Dubai

Mrs. Amal Ali Salem, B. Pharm.

Chief Pharmacist Supervisor, Al Wasl Hospital- Dubai.

Mr. Moh'd Sameh Ali, B. Pharm.

Chief Pharmacist, Supervisor, Rashid Hospital- Dubai.

Mr. Murtada Mohd., B. Pharm.

Actg., Chief Pharmacist, Supervisor- Dubai Hospital, Dubai.

Mrs. Fareeda Al Khaja, B. Pharm.

(Egypt)Chief Pharmacist

Supervisor, Al Maktoum Hospital- Dubai.

Ms. Lara Qadir

Mafraq Hospital, Abu Dhabi

Ms. HebaElkholy

SKMC Hospital, Abu Dhabi

Ms. Mahat Hussain

Senior Pharmacist (Dubai Health Authority

PHARMACEUTICAL INDUSTRY

Mr. Idrees Siddiqui

Manager Technical Operatations Global Pharma Co LLC, Dubai- UAE

Mr. Ijaz Sheikh

Pharmaceutical Industry

Mr. Ejaz Shahid

Pharmaceutical Industry

COMMUNITY PHARMACY

Ms. Mariam M.pharm

Contact Number: +971543056363 Email ID: <u>mariam.o@supercare.ae</u> Position: Regulatory Affair Manager P.O.Box: 118347, Dubai. U.A.E

Supercare Pharmacy

Mr.Mohd.Sandeep M.pharm

Contact Number: 0529236592

Emai ID: m.sandeep@asterpharmacy.com

Aster Pharmacy

Mr. Eby John M.Pharm

Contact Number: +971529034923 Email ID; <u>eby.k@asterpharmacy.com</u>

Aster Pharmacy