

Emirates International University Faculty of Medicine & Health Sciences Clinical Pharmacy Department

Pharm D

Program Specification

Committee Members:

1. Ass. Prof. Dr. Ali Al-Yahawi

2. Assoc. Prof. Dr. Mokhtar Al-Ghorafi

Supervised by

1. Assoc. Prof .Sharif Al-Hommde

Reviewed by

Dr. Mogeb Alnahari



Faculty Medicine and Health Science. Emirates International University

Emirates International University Faculty of Medicine and Health Sciences Department of Clinical Pharmacy -Pharm D program



ورزارة التعليم العالي والبحث العلمي مجلس الاعتماد وضمان الجودة الجامعة الإماراتية الدولية كلية الطب والعلوم الصحية قسم الصيدلة السريرية برنامج دكتور صيدلي

Program Specification

1. Program Identification ar	nd General Information
Program Title and degree	Bachelor in Doctor of pharmacy
Unit responsible to grant degree	Faculty of Medicine and Health Sciences
Unit responsible in program implementation	Department of Clinical Pharmacy
Department / scientific departments participating in the program	N/A
Program Study language	English
Beginning of the study year	2014
Program Attendance system	Compulsory Attendance (minimum 75 %)
Program place implementation	University Campus
Program Study system	Semester
Time required to graduate	6 Years (224 Credit Hours)
Admission Qualifications	High School Degree
Admission Appreciation	80% at least
Program Coordinator Name	Associate Professor: Mokhtar AbdulHafize Al-Ghorafi
last date approval for program specifications	

2. Introduction:

Pharm D program shall be six academic years (five years of study and one year of internship or residency). It is a phase of training wherein a student is exposed to actual pharmacy practice or clinical pharmacy services, and acquires the required skills under high qualified supervision so that he or she may become capable of functioning independently.

Promising Jobs/Employments for Graduates:

Graduates of the Doctor of pharmacy can look at opportunities and jobs in the following sectors:

- Working in hospital departments with hospital team as clinical pharmacy
- Working in public or private community pharmacies.
- Work in a hospital pharmacy.
- Working as medical representative or scientific supervisors in pharmaceutical companies.
- Work in drug research and control centers.
- Academic work as faculty members in universities.

3. University Vision, Mission, Goals and Values:

University Vision:

The Emirates International university (Let Yenen) aspires to be one of the nationally leading and regionally distinct universities.

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3. University Vision, Mission, Goals and Values:

University Mission:

EIU Yemen seeks to Provide a distinguished education and research services That meet the needs of the National and regional labor Market through qualified Human Resources quality academic programs, scientific research directed to knowledge Production and applications and providing a supportive university environment and effective Community partnership.

University Values:

Quality, excellence, creativity, a adherence To ethical professional standards institutional loyalty, teamwork and partnership.

University General Goals

The University seeks to achieve the following objectives:

- 1. Improving governance and management systems, developing organizational Structure, promoting decentralization and adopting equality and transparency principles.
- 2. Expending infrastructure and developing self-resource.
- 3. Improving the quality of academic programs to meet development needs.
- 4. Enhancing the values of professional development and investing human resources on professional basis In accordance with the strategic framework of the University.
- 5. Developing a university environment conducive to teaching and learning with a view to achieve the professional competencies of the graduate.
- 6. Building and guiding Scientific research capacities based on planning that is linked to development goals.
- 7. Establishing a genuine and effective partnerships with the local community, other universities as well as the national and international Labor market

4. Vision, Mission & Aims of the Faculty

Faculty Vision:

To excel in medical education, scientific research and community service locally and regionally.

Faculty Mission:

To qualify graduates who are able to prove quality Medical services at the local and regional levels through academic programs that Conform to Quality standards,

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4. Vision, Mission & Aims of the Faculty

academic accreditation and an educational environment that promotes creative thinking and establishes the values of medical practice in an ethical is and human context.

Faculty Values:

Quality, teamwork, transparency and accountability, professional development and life-long learning and community partnership.

Faculty Objectives:

The educational goals of the college

1- Preparing and qualifying distinguished medical cadres with high efficiency in the medical field.

2- Providing students with basic knowledge of biomedical and clinical sciences in order to apply that knowledge to deal with complex clinical cases.

3- Providing students with basic knowledge to understand the impact of different life stages, gender differences, different lifestyles, psychological, social and epidemiological genetic factors and their impact on the spread of diseases and methods of prevention.

4- Enabling students to know the basic concepts of preventive and rehabilitative medicine and to diagnose acute medical problems so that they are able to apply the concepts in clinical practice.

5- Providing students with the ability to assess patients and the severity of their health problems by completing the comprehensive disease story.

6- Providing students with the scientific method in medical diagnosis, treatment and medical analyzes, so that they are able to use them in solving patients' problems.

7- Providing students with the skills of communicating with patients and enabling them to acquire the skills of field examination and the proper use of diagnostic tools and methods.

8- Practice appropriate professional behavior with patients and colleagues, adhere to professional standards of ethical behavior, and work in harmony with one team spirit.

9 - Activating the partnership with civil society institutions and the relevant authorities locally, regionally and internationally to provide a stimulating and supportive educational environment, in a way that serves the promotion of public health efforts and community safety.

10- Providing students with self-learning skills, using information technology, medical evidence and scientific research to keep rate with the developments of the

specialization.

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5. Department of Clinical Pharmacy Vision, Mission, Values and Objectives

Vision of the Department:

Excellent in pharmaceutical education locally and regionally

Mission of the Department of Clinical Pharmacy

The department seeks to prepare scientifically and professionally qualified pharmaceutical cadres to contribute to improving health care and community service and developing the profession, by providing quality academic programs in pharmaceutical education and scientific research.

Department Values:- . Continuing education, quality, working with one team spirit, and effective partnership.

Objectives of the Department:

- 1.Prepare graduates specialized in the field of clinical pharmacy sciences, who are well-qualified academically and professionally to work efficiently in the field of curative health care
- 2. Providing students with basic concepts and skills for research, developing their initiative and their ability to conduct independent research related to society
- 3. Developing a partnership with the public and private sectors by conducting studies and providing consultations in the field of clinical pharmacy.
- 4. Providing students with self-learning skills and using information technology and scientific research to keep up with the developments of the specialization.

6. Doctor of Pharmacy Program Mission and Objectives:

Program Mission:

Preparing a pharmacist with scientific competence and professional ethics by providing quality scientific programs in the field of pharmaceutical care to contribute in improving health care for the community.

Program Objectives:

1. Prepare graduates and equip them with the new sary knowledge, skills and abilities to

be future experts in the field of clinical



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- 2- Improving patients' health and well-being by facilitating and providing safe and effective medicines.
- 3. Enhancing the role of pharmacists in improving public health by preventing disease through education and training.
- 4. Providing continuous pharmacy education programs and participating in organizing and holding seminars, courses and conferences in various pharmaceutical sciences.
- 5- Contributing to the field of scientific publishing and awareness through various publications and research work in the field of patient care and public health.

7. Program Standards & Benchmarks:

This program based on a number of similar references and programs in the Yemeni, regional and international Universities, which include the following:

Academic Standards:

- 1. National Academic Reference Standards (NARS) 2018 for Undergraduate Pharmacy Programs, Yemen, First Edition, Council for Accreditation & Quality Assurance, Yemen.
- 2. Criteria of the Canadian Council for Accreditation of Pharmacy programs "CCAPP",.
- 3. Australian Pharmacy Counci, APC

Similar Pharma D programs awarded by regional and international Universities and have been accredited by CCAPP or APC

Benchmarks:

- 1. Massachusetts University, USA
- 2. University of Alberta, Canada.
- 3. Cyprus International University, Cyprus
- 4. Alfaisal University, Saudi Arabia
- 5. Jordan University, Jordan
- 6. Helwan University, Egypt

Program No.	The Academic Program	The University	Website	The Faculty	The Department	The Countr	Degree Award at Program Completion	No of Years
Current Program	Doctor of Pharmacy Program	Emirates International University	https://eiu.edu. ye/majors/9	, Faculty of Medicine and	Department of Clinical Pharmacy,	Yeme n	Bachelor in Clinical Pharmacy (Doctor of pharmacy)	5 years + 1 year internship
The 1 st Progra m	Doctor of Pharmacy	Alfaisal University	https://sop.alaisal.cd	tasulty of Planacy	Department of Pharmacy Practice	Saudi Arabia	(Doctor of pharmacy)	5 years + 1 year internship

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Program No.	The Academic Program	The University	Website	The Faculty	The Department	The Countr y	Degree Award at Program Completion	No of Years
The 2 nd Progra m	Doctor of Pharmacy	Jordan University	www.just.edu .jo/Facultiesa ndDepartmen ts/FacultyofP harmacy/Dep artments/Clin icalPharmacy /Pages/Welco me.aspx	Faculty of Pharmac y,	Departme nt of Clinical Pharmacy,	Jordan	Bachelor in Clinical Pharmacy (Doctor of pharmacy)	5 years + 1 year internship
The 3 rd Progra m	Doctor of Pharmacy	Helwan University	http://pharma cy.helwan.ed u.eg/	,Faculty of Pharmac y	Departme nt of Clinical Pharmacy	Egypt	Bachelor in Clinical Pharmacy (Doctor of pharmacy)	5 years + 1 year internship
The 4 th Progra m	Doctor of Pharmacy	Cyprus International University	https://www.ciu. edu.tr/en/progra ms/undergradua te/pharmacy- pharmd	Faculty of Pharmacy	Pharmacy	Cypru s	5 years + 1 year internship = 6 Years	6 Years
The 5 th Progra m	Doctor of Pharmacy Program	University of Alberta	https://calend ar.ualberta.ca /preview_pro gram.php?cat oid=39&poid =48100	Faculty Pharmac y & Pharmac eutical Sci	Departme nt Pharma cy & Pharmace utical Sc	Cana da.	University of Alberta	5 years + 1 year internship = 6 Years
The 6 th Progra m	Doctor of Pharmacy (PharmD)	Massachus etts University	https://www.mc phs.edu/academi cs/programs/pha rmacy-pharmd	Pharmacy	Pharm D	USA	Massachus etts University, College of Pharmacy and Health Sciences	5 years + 1 year internship



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8. Graduate Attributes

Upon successful completion of an undergraduate pharmacy education program, the graduates will be able to:

- 1. Demonstrate scientific knowledge and principles of chemical, biomedical, microbiological, physiological, pathological, behavioral, and other basic sciences related to the pharmacy profession.
- 2. Integrate knowledge from fundamental sciences necessary for handling, disposing of, preparing, compounding, and analyzing total parenteral nutrition I.V admixtures and small-batch preparation.
- 3. Provide pharmaceutical care in a professional, legal and ethical manner and based on fundamental concepts of pharmacokinetics, and pharmacodynamics of medicines, clinical conditions, and patient's drug-related needs.
- 4. Provide patient education, appropriate advice, and counseling services about safe, rational, cost-effective use of natural/synthetic medicines, complementary therapies (including phytotherapy), and over-the-counter products using endorsed professional protocols.
- **5.** Demonstrate self-commitment to independent and lifelong learning through evaluating medical literature, and conducting pharmaceutical research in pharmacy settings updating knowledge and information.
- 6. Demonstrate the responsibilities and roles of the pharmacist in contributing to the health care system of society taking into account pharmacovigilance, pharmacoeconomics and pharmacoepidemiological factors, and legal, ethical, and professional rules.
- 7. Work as part of a team with self-assurance, interpersonal collaboration, and communication skills, leadership and time management, professionalism, critical thinking, problem-solving, entrepreneurship, and decision-making ability.
- 8. Apply patient-centered care as the medication expert (collect and interpret evidence, identify drug-related problems, prioritize, formulate assessments and recommendations, implement, monitor, and adjust plans, and document activities).
- Track the continuous updates concerning new therapeutic guidelines and regulations that are recently introduced
- 10. Use evidence-based medicine to detect, prevent, and resolve drug-related problems

11. Participate effectively in planning and conducting research in all health care settings.

12. Utilize the hospital's resources in an effective manner.

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9. Intended Learning Outcomes: At the end of this program student will:

A.Knowledge and Understanding:

Upon successful completion of an undergraduate pharmacy education program, the graduates will be able to:

- A1. Show understanding of the fundamentals of the basic and biomedical sciences including physics, mathematics, chemistry, structure of human body, normal and abnormal body functions, basis of genomes and different biochemical pathways and their relations with different diseases.
- A2. Explain the fundamentals of social and behavioral sciences relevant to pharmacy, ethics of the care and its impact on relationship with patients and others healthcare professionals.
- A3. Explain the physicochemical properties of pharmaceutical products and their relationship to molecular structure and the design of medicinal agents.
- **A4.** Describe the analytical methods, principles, design, development, and validation of pharmaceutical products.
- **A5.** Identify the actions of the medicines within living systems, therapeutics uses of medicines in human, adverse reactions, interactions of medicines, toxicity, and misuse or abuse.
- **A6**. Explain the basis of complementary and alternative medicine.
- A7. Identify the types of poisonous substances, sources, mechanisms of toxicity, analysis, clinical pictures, and management.
- **A8.** Describe the bio-pharmaceutics and pharmacokinetics of medicines and their applications.
- **A9.** Define the basis of health policy, pharmacoeconomics, pharmacoepidemiology, marketing, and administration particularly to pharmacy.
- **A10.** Describe the pharmacist's role in health care; dispensing, designing, implementing, monitoring, evaluation, and adjustment of medication therapy plans that are patient-specific and evidence-based to achieve maximum clinical effectiveness.

A11. Identify the properties of different pharmaceutical dosage forms including Novel drug delivery systems and biotechnology

A12. Describe the methods of bio statistical analysis and pharmaceutical calculations.

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B. Cognitive/Intellectual Skills:

Upon successful completion of an undergraduate pharmacy education program, the graduates will be able to:

- **B1.** Collect, interpret and asses relevant pharmaceutical and biomedical sciences to construct the pharmacophores of the structure and their effect on the stability, pharmacokinetic and pharmacodynamics profile of the drug.
- **B2**. Classify the synthetic and natural drugs according to their mechanism of action, systemic effect, therapeutic uses, contraindication and toxicity.
- **B3**. Design and evaluate different types of safe and effective pharmaceutical dosage forms.
- **B4**. Select appropriate Standard Operating Procedures (SOP) to conduct qualitative and quantitative analysis of pharmaceutical preparations.
- **B5**. Plan a modern system for administration of medical foundations and merge the ethics to business in the drug marketing
- **B6**. Develop and design a suitable method for extraction, isolation, purification, identification, and Standardization of active substances from various sources.
- **B7.** Formulate and evaluate patient care plan about rational use of pharmacotherapy regimen to improve patient safety and efficacy.
- B8. Identify appropriate research methods to solve practice problems.
- B 9. Select pharmaceutical calculation in different pharmaceutical practice.

C. Practical and Professional Skills:

Upon successful completion of an undergraduate pharmacy education program, the graduates will be able to:

- C 1. Handle the chemical, biological, and pharmaceutical materials safely, taking into account their physical and chemical properties, including any specific hazards associated with their use, distribute, and storage.
- C 2. Operate different pharmaceutical equipment's and instruments and use emerging technologies in pre-formulation, formulation, packaging, storage and analysis of pharmaceutical products according to Good Laboratory Practice (GLP), Good Storage Practice (GSP) and cGMP guidelines.
- C 3. Screen drug from the different sources, bioassay, and carry out pharmacological and biopharmaceutical experiments.
- C 4. Extract, isolate, purify, identify, standardize, formulate natural products and assure their rational use.
- C 5. Apply the highest levels of pharmaceutical care for patients and providing the necessary knowledge patients and members of health care to optimize pharmacotherapy resimilarities based on updated professional medical references.
- C 6. Employ the relevant way of preparation and presentation of medicines including

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extemporaneous, Total Parenteral Nutrition (TPN), and Intravenous (I.V.) admixtures.

- C 7. Apply administrative and pharmaeconomic rules in pharmacy and ethically use marketing skills for promoting the pharmaceutical and cosmetic products.
- C 8. Conduct research studies and utilize the results in different pharmaceutical fields.
- C 9. Use clinical data, patient assessment and appropriate medical literatures to optimize therapeutic drug regimens.

D. General and Transferable Skills:

Upon successful completion of an undergraduate pharmacy education program, the graduates will be able to:

- D 1. Interact and communicate effectively and ethically with patients, public, and health care professionals.
- D 2. Apply financial, management, decision making, time management, organization, sales and marketing skills.
- D 3. Appraise the importance of team work and the need to work within personal limitations.
- D 4. Take responsibility for adaptation to change needs in pharmacy practice.
- D 5. Retrieve the essential references of evidence-based practice to achieve maximum clinical effectiveness

10. Teaching and Learning Strategies

- Interactive Lectures
- Seminars
- Discussions & Small group discussions
- Presentation
- Lab Experiments
- Simulated software program
- Use of communication and information technology,
- Problems solving
- Self-learning
- Group work
- brain storming
- Report
- Group learning and Problem-based learning,
- Clinical cases studies
- Training
- Office hours

11. Assessment Strategy

- Final Written Exam
- Quizzes



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- Midterm Exam
- Discussion.
- Group work
- Final oral Exam
- Researches
- Homework
- laboratory and other written reports
- Assignments
- Final Practical Exam
- · Oral case discussions during clinical rounds
- Pharmacy practice manual
- Formal case presentation

Alignment of Program Intended Learning Outcomes (PILOs) to Teaching Strategies and Assessment Methods:

(A) Alignment of Program Intended Learning Outcomes (Knowledge and Understanding) to Teaching Strategies and Assessment Methods:

Strategies and Assessment Methods.		
PILOs	Teaching Strategies	Assessment Methods
A1. Show understanding of the fundamentals of the basic and biomedical sciences including physics, mathematics, chemistry, structure of human body, normal and abnormal body functions, basis of genomes and different biochemical pathways and their relations with different diseases.	 Interactive Lectures Seminars Discussions & Small group discussions Presentation 	Written examinationsQuizzes
A2. Explain the fundamentals of social and behavioral sciences relevant to pharmacy, ethics of the care and its impact on relationship with patients and others healthcare professionals.	Interactive LecturesSeminarsdiscussionsPresentation	Written examinationsQuizzes
A3. Explain the physicochemical properties of pharmaceutical products and their relationship to molecular structure and the design of medicinal agents.	 Interactive Lectures Discussions & Small group discussions Presentation 	Written examinationsQuizzes
A4. Describe the analytical methods, principles, design, development, and validation of pharmaceutical products.	 Interactive Lectures Seminars discussions Presentation 	Written examinationsQuizzes

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A5. Identify the actions of the medicines within living systems, therapeutics uses of medicines in human, adverse reactions, interactions of medicines, toxicity, and misuse or abuse. A6. Explain the basis of complementary and alternative medicine.	 Interactive Lectures Seminars discussions Presentation Interactive Lectures Seminars discussions Presentation 	 Written examinations Quizzes Written examinations Quizzes
A7. Identify the types of poisonous substances, sources, mechanisms of toxicity, analysis, clinical pictures, and management.	Interactive LecturesSeminarsdiscussionsPresentation	Written examinationsQuizzes
A8. Describe the bio-pharmaceutics and pharmacokinetics of medicines and their applications.	Interactive LecturesSeminarsdiscussionsPresentation	WrittenexaminationsQuizzes
A9. Define the basis of health policy, pharmacoeconomics, pharmacoepidemiology, marketing, and administration particularly to pharmacy.	Interactive LecturesSeminarsdiscussionsPresentation	Written examinationsQuizzes
A10. Describe the pharmacist's role in health care; dispensing, designing, implementing, monitoring, evaluation, and adjustment of medication therapy plans that are patient-specific and evidence-based to achieve maximum clinical effectiveness.	 Interactive Lectures Seminars Discussions & Small group discussions Presentation 	WrittenexaminationsQuizzes
A11. Identify the properties of different pharmaceutical dosage forms including Novel drug delivery systems and biotechnology.	 Interactive Lectures Seminars Discussions & Small group discussions Presentation 	WrittenexaminationsQuizzes
A12. Describe the methods of bio-statistical analysis and pharmaceutical calculations.	 Interactive Lectures Seminars Discussions & Small group discussions Presentation 	Written examinationsQuizzes

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(B) Alignment of Program Intended Learnin and Assessment Methods:		
PILOs	Teaching Strategies	Assessment Methods
B1. Collect, interpret and asses relevant pharmaceutical and biomedical sciences to construct the pharmacophores of the structure and their effect on the stability, pharmacokinetic and pharmacodynamics profile of the drug.	 Interactive Lectures Discussions & Small group discussions Presentation 	WrittenexaminationsQuizzes
B2. Classify the synthetic and natural drugs according to their mechanism of action, systemic effect, therapeutic uses, contraindication and toxicity.	Interactive LecturesDiscussions & Small group discussions	WrittenexaminationsQuizzes
B3. Design and evaluate different types of safe and effective pharmaceutical dosage forms.	SeminarsDiscussions & Small group discussions	 Written examinations Quizzes
B4. Select appropriate Standard Operating Procedures (SOP) to conduct qualitative and quantitative analysis of pharmaceutical preparations.	Interactive LecturesSeminarsDiscussions & Small group discussions	WrittenexaminationsQuizzes
B5. Plan a modern system for administration of medical foundations and merge the ethics to business in the drug marketing	Interactive LecturesSeminars	 Written examinations Quizzes
B6. Develop and design a suitable method for extraction, isolation, purification, identification, and Standardization of active substances from various sources.	 Interactive Lectures Seminars Discussions & Small group discussions Presentation 	WrittenexaminationsQuizzes
B7. Formulate and evaluate patient care plan about rational use of medications to improve patient safety and efficacy.	 Interactive Lectures Seminars Discussions & Small group discussions Presentation 	 Written examinations Quizzes
B8. Identify appropriate research methods to solve practice problems.	Interactive Lectures Seminars Discussions & Small group discussions	Written examinationsQuizzes

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	PresentationO	
B 9. Select pharmaceutical calculation in different pharmaceutical practice.	 Interactive Lectures Seminars Discussions & Small group discussions Presentation 	WrittenexaminationsQuizzes

	gnment of Program Intended ng Strategies and Assessment M		essional and Practical Skills) to
PILOs		Teaching Strategies	Assessment Methods
C 1.	Handle the chemical, biological, and pharmaceutical materials safely, taking into account their physical and chemical properties, including any specific hazards associated with their use, distribute, and storage.	 Interactive Lectures Seminars Discussions & Small group discussions 	 Written examinations Practical exam Assignments Quizzes Iaboratory and other written reports
C 2.		 Interactive Lectures Seminars Discussions & Small group discussions Presentation 	 Written examinations Practical exam Assignments Quizzes laboratory and other written reports
C 3.	Screen drug from the different sources, bioassay, and carry out pharmacological and biopharmaceutical experiments.	 Interactive Lectures Discussions & Small group discussions Presentation 	 Written examinations Practical exam Assignments Quizzes laboratory and other written reports
C.4.	Extract, isolate, purify, identify, standardize, formulate natural products and assure their rational use.	Interactive ctures a light seminars cons & Small	 Written examinations Practical exam Assignments Quizzes laboratory and other

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C 5.	Apply the highest levels of pharmaceutical care for patients and providing the necessary knowledge for patients and members of health care to optimize medicines use based on updated drug information	group discussions Presentation Interactive Lectures Seminars Discussions & Small group discussions Presentation	 written reports Written examinations Practical exam Assignments Quizzes laboratory and other written reports
C.6.		 Interactive Lectures Seminars Discussions & Small group discussions Presentation 	 Written examinations Practical exam Assignments Quizzes laboratory and other written reports
C 7.	Apply administrative and pharmacconomic rules in pharmacy and ethically use marketing skills for promoting the pharmaceutical and cosmetic products.	 Interactive Lectures Seminars Discussions & Small group discussions Presentation 	 Written examinations Practical exam Assignments Quizzes laboratory and other written reports
C 8.		 Interactive Lectures Seminars Discussions & Small group discussions Presentation 	 Written examinations Practical exam Assignments Quizzes Iaboratory and other written reports



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	(D) Alignment of Program Intended Learning Outcomes (Transferable Skills) to Teaching Strategies a	nd
١	Assessment Methods:	

Assess	ment Methods:		
PILOs		Teaching Strategies	Assessment Methods
D 1.	effectively and ethically with patients, public, and health care professionals.	 Use of communication and information technology, Group learning and Problembased learning, Clinical cases studies Training 	Researches and seminars.HomeworkAssignments
	Apply financial, management, decision making, time management, organization, sales and marketing skills.	 Problems solving Self-learning Group work brain storming Self Learning Discussions & Small group discussions Presentation 	 Researches and seminars. Homework Assignments
D 3.	Appraise the importance of team work and the need to work within personal limitations.	 Use of communication and information technology, Group learning and Problembased learning, Clinical cases studies Training 	Researches and seminars.HomeworkAssignments
D 4.	Take responsibility for adaptation to change needs in pharmacy practice.	 Problems solving Self-learning Group work brain storming Self-Learning Discussions & Small group discussions Presentation 	 Researches and seminars. Homework Assignments
D 5.	Retrieve the essential references of evidence-based practice to achieve maximum clinical effectiveness.	 Guided individual reading. Group work and problem-solving learning. Tutorials/ seminars. Presentations and discussions in class 	 Exam Presentations Assignments including problem-solving exercises Individual and group project work Homework

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(الحماد التعليم العالمي وزارة التعليم العالمي وزارة التعليم العالمي والبحث العلمي الجامعة الإماراتية الدولية كلية الطب والعلوم الصحية قسم الصيدلة السريرية برنامج دكتور صيدلي

Item	Marks Distribution
Proposal writing	15%
Project Duties	15%
Field and practical duties	20%
Pre-examination and Evolution of research	20%
Final and Oral Witting examination by the examiner	30%
Total	100%

Training Course Assessment:	Proportion of Final Assessment
Assignments	• 10%
Oral case discussions during clinical rounds	• 10%
Pharmacy practice manual	• 15%
Formal case presentation	• 10%
Presentation for one of the course content topics.	• 5%
• Final exam	• 50%
Total	• 100%

12. Program Structure:		
Credit hours	No. Of Credit hours	Percentage of total program hours
University Requirement	13	5.8%
Faculty Requirement	11	4.9%
Department Requirement	91	40.6%
Program Requirement	109	48.7%
Total	224	100%

12.1. University Requirements (13 #

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No.	Level- Sem.	Course Code	Course Name	L	Т	Р	Cr. Hrs.	Prerequisites, Co-requisite
1	1/1	UR	English Language I	2	-	Ni I	2	Nil
2	1/1	uR .	Islamic Culture	2	-	Ni I	2	Nil
3	1/1	UR	Arabic language	2	_	Ni '	2	Nil
4.	1/1	UR	English Language II	2	-	U R	2	Nil
5	1/2	BHSC 108	Human Behavior and Socialization	2	-	Ni I	2	Nil
6	1/2	UR	Computer Skills	2	2	Ni '	3	Nil
			6 Course	12	2	***************************************	13	<u> </u>

		Cor	npulsory Courses (11 hrs)					
No.	Level- Sem.	Course Code	Course Name	L	T	P	Cr. Hrs.	Prerequisites, Co-requisites
Name of the last	1/1	PHYSC 111	Biology	2	2	Nil	3	Nil
2	1/1	PHYSC 112	General Chemistry	2	2	Nil	3	Nil
3	1/1	PHYSC 113	Medical Physics	2	2	Nil	3	Nil
4	1/2	UR	Medical Terminology	2	-	Nil	2	Nil
4	1/2	J OK	4 Course	8	6	1411	11	1411

			ompulsory Department ements Courses (91 hrs)					
No.	Level- Sem.	Course Code	Course Name	L	Т	P	Cr. Hrs.	Prerequisites, Co- requisites
1	1/1	PHAR.CAL101	Mathematics and Pharmaceutical Calculations (60)	2			2	Nil
2	1/1	PHAR.ORI 102	Pharmack Orientation .	2	-		2	Nill
3	1/2	BOT 103	Botany	2		2	3	Nil

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12 Chemistry 3 PHYSC 13 2/1 BIOC 206 Biochemistry I 2 2 3 OCH 14 2/1 COGN 207 General Pharmacognosy 2 2 3 BOT 15 2/1 HPH 208 Human Physiology II 2 2 3 HPH 16 2/2 INS 209 Instrumental Analysis 2 - 2 ACH 17 2/2 MCH 2010 Medicinal and 2 2 2 18 19 19 19 19 19 19 19	
Second S	111
The first color The first	112. 113
S	112
Professional Prof	111
10 2/1 202 Communication Skills 2 - 2 Nil	111
11	
11	105
12	
14 2/1 COGN 207 General Pharmacognosy 2 2 3 BOT 15 2/1 HPH 208 Human Physiology II 2 2 3 HPH 16 2/2 INS 209 Instrumental Analysis 2 - 2 ACH 17 18 2/2 MIC 2011 Microbiology 2 2 3 PHYSC 19 2/2 BIOC 2013 Biochemistry II 2 2 3 BIOC 20 2/2 PHY 2014 Phytotherapy 2 2 3 COGN 21 2/2 CEUT 2015 Pharmaceutics II 2 2 3 CEUT 22 3/1 SDF 301 Sterile Dosage Forms 2 - 2 CEUT 23 3/1 MCH 304 Medicinal and Pharmaceutical Chemistry II 2 2 3 MCH 24 25 3/1 IMM 306 Immunology 2 2 3 CEUT 26 3/1 CEUT 307 Pharmaceutics III 2 2 3 CEUT 27 3/1 REOFETH 308 Professional Pharm. Ethics & 2 2 Nili 27 3/1 REOFETH 308 Professional Pharm. Ethics & 2 2 Nili 27 3/1 REOFETH 308 Professional Pharm. Ethics & 2 2 Nili 20 2/2 Nili REOFETH 308 Professional Pharm. Ethics & 2 2 Nili 30 Nili REOFETH 308 Professional Pharm. Ethics & 2 2 Nili 31 REOFETH 308 Professional Pharm. Ethics & 2 2 Nili	112,
15 2/1 HPH 208 Human Physiology II 2 2 3 HPH 16 2/2 INS 209 Instrumental Analysis 2 - 2 ACH 17	106
16 2/2 INS 209 Instrumental Analysis 2 - 2 ACH 17	103
16	201
18 2/2 MCH 2010 Medicinal and Pharmaceutical Chemistry	204,
Pharmaceutical Chemistry 3 OCH 18 2/2 MIC 2011 Microbiology 2 2 3 PHYSC 19 2/2 BIOC 2013 Biochemistry II 2 2 3 BIOC 20 2/2 PHY 2014 Phytotherapy 2 2 3 COGN 21 2/2 CEUT 2015 Pharmaceutics II 2 2 3 CEUT 22 3/1 SDF 301 Sterile Dosage Forms 2 2 CEUT 23 3/1 BIS 303 Biostatistics & Research 2 2 Nil MCH 304 Medicinal and Pharmaceutical Chemistry 1 2 3 MCH 25 3/1 IMM 306 Immunology 2 2 3 MCH 26 3/1 CEUT 307 Pharmaceutics III 2 2 3 CEUT 27 3/1 PROFETHARS Professional Pharm. Ethics 2 2 Nil Professional Pharm. Ethics 2 2 2 Nil Professional Pharm. Ethics 2 2 2 2 2 Nil Professional Pharm. Ethics 2 2 2 2 2 Nil Professional Pharm. Ethics 2 2 2 2 2 2 2 2 2	205
19 2/2 BIOC 2013 Biochemistry II 2 2 3 BIOC 20 2/2 PHY 2014 Phytotherapy 2 2 3 COGN 21 2/2 CEUT 2015 Pharmaceutics II 2 2 3 CEUT 22 3/1 SDF 301 Sterile Dosage Forms 2 2 CEUT 23 3/1 BIS 303 Biostatistics & Research 2 2 Nil 24 3/1 MCH 304 Medicinal and Pharmaceutical Chemistry 1 2 3 MCH 25 3/1 IMM 306 Immunology 2 2 3 MCH 26 3/1 CEUT 307 Pharmaceutics III 2 2 3 CEUT 27 3/1 REOFETH 308 Professional Pharm. Ethics& 2 2 Nil 27 3/1 REOFETH 308 Professional Pharm. Ethics& 2 2 Nil 27 3/1 REOFETH 308 Professional Pharm. Ethics& 2 2 Nil 28 Nil REOFETH 308 Professional Pharm. Ethics& 2 2 Nil 29 Nil REOFETH 308 Professional Pharm. Ethics& 2 2 Nil 20 20 3 CEUT 21 22 3 CEUT 22 3 CEUT 3/1 REOFETH 308 Professional Pharm. Ethics& 2 2 Nil 3/1 REOFETH 308 Professional Pharm. Ethics& 2 2 Nil 3/1 REOFETH 308 Professional Pharm. Ethics& 2 2 Nil 3/1 REOFETH 308 Professional Pharm. Ethics& 2 2 Nil 3/1 REOFETH 308 Professional Pharm. Ethics& 2 2 Nil 3/1 REOFETH 308 Professional Pharm. Ethics& 2 2 Nil 3/1 REOFETH 308 Professional Pharm. Ethics& 2 2 Nil 3/1 REOFETH 308 Professional Pharm. Ethics& 2 2 Nil 3/1 REOFETH 308 Professional Pharm. Ethics& 2 2 Nil	204
BIOC 2013 Biochemistry II 2 2 3 BIOC	113
20 2/2 PHY 2014 Phytotherapy 2 2 3 COGN	206
22 3/1 SDF 301 Sterile Dosage Forms 2 2 CEUT 23 3/1 BIS 303 Biostatistics & Research 2 2 Nil 24 3/1 MCH 304 Medicinal and 2 2 3 MCH 25 3/1 IMM 306 Immunology 2 2 3 HPH 26 3/1 CEUT 307 Pharmaceutics III 2 2 3 CEUT 3/1 REOFETH 308 Professional Pharm. Ethics & 2 2 Nil 3/1 REOFETH 308 Professional Pharm. Ethics & 2 2 Nil 3/1 REOFETH 308 Professional Pharm. Ethics & 2 2 Nil 3/1 REOFETH 308 Professional Pharm. Ethics & 2 2 Nil 3/1 REOFETH 308 Professional Pharm. Ethics & 2 2 Nil 3/1 REOFETH 308 Professional Pharm. Ethics & 2 2 Nil 3/1 REOFETH 308 Professional Pharm. Ethics & 2 2 Nil 3/1 REOFETH 308 Professional Pharm. Ethics & 2 2 Nil 3/1 REOFETH 308 Professional Pharm. Ethics & 2 2 Nil 3/1 REOFETH 308 Professional Pharm. Ethics & 2 2 Nil 3/1 REOFETH 308 Professional Pharm. Ethics & 2 2 Nil 3/1 REOFETH 308 Professional Pharm. Ethics & 2 2 Nil 3/1 REOFETH 308 Professional Pharm. Ethics & 2 2 Nil 3/1 REOFETH 308 Professional Pharm. Ethics & 2 2 Nil 3/1 REOFETH 308 Professional Pharm. Ethics & 2 2 Nil 3/1 REOFETH 308 Professional Pharm. Ethics & 2 2 Nil 3/1 REOFETH 308 Professional Pharm. Ethics & 2 2 Nil 3/1 REOFETH 308 Professional Pharm. Ethics & 2 2 Nil	N207
22 3/1 SDF 301 Sterile Dosage Forms 2 2 CEUT 23 3/1 BIS 303 Biostatistics & Research 2 2 Nil 24 3/1 MCH 304 Medicinal and 2 2 3 MCH 25 3/1 IMM 306 Immunology 2 2 3 CEUT 26 3/1 CEUT 307 Pharmaceutics III 2 2 3 CEUT 3/1 REOFETH 308 Professional Pharm. Ethics & 2 2 Nil 3/1 REOFETH 308 Professional Pharm. Ethics & 2 2 Nil 3/1 REOFETH 308 Professional Pharm. Ethics & 2 2 Nil 3/1 REOFETH 308 Professional Pharm. Ethics & 2 2 Nil 3/1 REOFETH 308 Professional Pharm. Ethics & 2 2 Nil 3/1 REOFETH 308 Professional Pharm. Ethics & 2 2 Nil 3/1 REOFETH 308 Professional Pharm. Ethics & 2 2 Nil 3/1 REOFETH 308 Professional Pharm. Ethics & 2 2 Nil 3/1 REOFETH 308 Professional Pharm. Ethics & 2 2 Nil 3/1 REOFETH 308 Professional Pharm. Ethics & 2 2 Nil 3/1 REOFETH 308 Professional Pharm. Ethics & 2 2 Nil 3/1 REOFETH 308 Professional Pharm. Ethics & 2 2 Nil 3/1 REOFETH 308 Professional Pharm. Ethics & 2 2 Nil 3/1 REOFETH 308 Professional Pharm. Ethics & 2 2 Nil 3/1 REOFETH 308 Professional Pharm. Ethics & 2 2 Nil 3/1 REOFETH 308 Professional Pharm. Ethics & 2 2 Nil 3/1 REOFETH 308 Professional Pharm. Ethics & 2 2 Nil 3/1 REOFETH 308 Professional Pharm. Ethics & 2 2 Nil	203
23 3/1 BIS 303 Biostatistics & Research 2 2 Nil	2015
24 3/1 MCH 304 Medicinal and 2 2 3 MCH 25 3/1 IMM 306 Immunology 2 2 3 HPH 26 3/1 CEUT 307 Pharmaceutics III 2 2 3 CEUT 37 3/1 PROFETH 308 Professional Pharm. Ethics& 2 2 NIII 37 3/1 PROFETH 308 Professional Pharm. Ethics& 2 2 NIII 37 3/1 PROFETH 308 Professional Pharm. Ethics& 2 2 NIII 37 3/1 PROFETH 308 Professional Pharm. Ethics& 2 3 NIII 38 39 30 30 30 30 30 30 30	1
26 3/1 CEUT 307 Pharmaceutics III 2 2 3 CEUT 3/1 PROFETH 308 Professional Pharm: Ethics& 2 7 Nil	2010
3/1 PROFETHAGO Professional Pharm: Ethics& 2 - 2 Nil	208
27 DDAELID200	2015
	1
28 3/2 CEUTTECH Pharmaceutical 7 CEUT 2 CEUT	
29 CLD 3012 Interpretation Clinical Laboratory Data 2 IMM	
30 3/2 PARA3013 Parasilar 2 2 3 PHYSC	111
	305

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			Screening			1	
32	3/2	HCS 3015	Health Care System and Pharmac. Care	2	-	2	Nil
33	3/2	TOX3016	Toxicology	2	-	2	PHA 305
34	3/2	GPA 3018	General Pathology	2		2	PHA 305
35	4/1	OTC 405	OTC Products and Patient Counseling	2	2	23	PHA 3016
36	6/2	Code 614	Research project	1		1	
			36 Course	70	- 42	91	

		Compul	sory Program requirements Courses (109hrs)					
No.	Level- Sem.	Course Code	Course Name	L	Т	P	Cr. Hrs.	Prerequisites, Co- requisites
1	2/2	PHA 2012	Pharmacology and Therapeutics I	2	1	2	3	HPH 201
2	3/1	KENI 302	Biopharmaceutics& Pharmacokinetics I	2	9	2	3	CEUT 2015
3	3/1	PHA 305	Pharmacology and Therapeutics II	2		2	3	PHA 2012
4	3/2	KENI301 0	Bio pharmaceutics & Pharmacokinetics II	2		2	3	KENI 302
5	3/2	ALTM30	Complementary and Alternative Medicine	2		-	2	PHY 2014
6	3/2	PHA 3017	Pharmacology and Therapeutics III	2		2	3	PHA 305
7	3/ semester	CPT 3018	Community Pharmacy Training-	_			2	PHA 3016, GPA 3017
8	4/1	CDA 401	Applied Clinical & Diagnostic Analysis	2			2	PHA 3016,
9	4/1	KENIDM 402	Clinical Pharmacokinetics and Therapeutics Drug Monitoring	2		2	3	KENI 302
10	4/1	DISM 403	Dispensing of Medications	2			2	PHA 3016, GPA 3017
11	4/1	PAM 404	Pharmacy Administration & Management	2		-	2	PHA 3016
12	4/1	CLINP 406	Clinical Pharmacy- Disease & Therapeutic Management I	2		2	3	PHA 3016
13	4/1	DI 407	Drug Information Literature Evaluation	2		-	2	PHA 3016
14	4/2	PHYAS 408	Physical Assistant	2		-	2	CLD 3011
15	4/2	COMS 409	Communication (Communication Communication C	2		-	2	PCS 202

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16	4/2	CLPRO 4010	Clinical Problems in Parenteral Nutrition & Intravenous Therapy	2		-		2	SDF 301
17	4/2	DTOX 4011	Drugs of Abuse & Clinical Toxicology	2		-		2	TOX3015
18	4/2	CLINP 4012	Clinical Pharmacy- Disease & Therapeutic Management-II	2		2		3	CLINP 407
19	4/2	PHARMEC 4013	Pharmacoeconomics	2		-		2	PAM 404
20	4/2	MERR 4014	Medication Errors: Causes, Prevention, Current Issues	2		2		3	OTC 405
21	4/ semester	CPT 4016	Community Pharmacy Training-	_	6			2	CPT 3018
22	- 5/1	PP 501	Principles of Pathophysiology Module I: Immunology	2				2	CLINP 4013
23	5/1	PP 502	Pharmacotherapy Module II: Cardiology	2.		2		2	CLINP 4013
24	5/1	PP 503	Pharmacotherapy Module III: Psychiatry/Neurology	2				2	CLINP 4013
25	5/1	PP 5404	Pharmacotherapy Module IV :Gastroenterology/Nutrition	2				2	CLINP 4013
26	5/1	PP 505	Pharmacotherapy Module V : Renal Impairments & Drug monitoring	2				2	CLINP 4013
27	5/1	PP 506	Pharmacotherapy Module VI: Endocrinology/Rheumatology/O B/GYN	2		3		2	CLINP 4013
28	5/1	PP 507	Pharmacotherapy Module VII: Infectious Disease/Hematology	2				2	CLINP 4013
29	5/1	PP 508	Pharmacotherapy Module VIII : Nuclear Pharmacy & Oncology	2				2	CLINP 4013
30	5/2	PP 509	Pharmaceutical care of Internal Medicine	2	3		3		PP501-508
3.1	5/2	PP 510	Pediatric Pharmaceutical Care	2	3		3		PP501-508
32	5/2	PP 511	Geriatric Pharmaceutical Care	2	3		3		PP501-508
33	5/2	PP 512	Pharmaceutical Care of Community Pharmacy	2	3		3		PP501-508
34	5/2	PP 513	Obstetrics and Gynecology Pharmaceutical Care	2	3		3		PP501-508
35	6/1	CR 601	Internal medicine clerkship (1)					4	5 th level
36	6/1	CR 602	Pediatric clerkship					3	5 th level
37	6/1	CR 603	Geriatric and psychiatric clerkship					4	5 th level
38	6/1 6	CR 604	Obstetrics and Gynaecology clerkship					2	5th level
39	6/1 0	CR 605	Hospital Pharmacy				2	2	5th level
40	6/2 C	CR 606	Internal maridine clerkship (2)				4		5th level
41	6/2	CR 607	Oncology derksting				3		5th level

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42	6/2	CR 608	Surgery clerkship				3	5th level
43	6/2	CR 609	Ambulatory care clerkship				2	5th level
			43 Course	65	15	16	109	

COURSE PLAN OF PHARMA -D

Total course credits hours:

FIRST YEAR

	1 ST SEMESTER				
COURSE #	COURSE TITLE		PH	PRE-REQUISITE	СН
UR	English Language I	2	-	Nil	2
UR	Computer Skills	2	2	Nil	3
UR	Islamic Culture	2.	_	Nil	2
UR	Arabic language	2	-	Nil	2
PHYSC 11	1 Biology	2	2	Nil	3
PHYSC 11	2 General Chemistry	2	2	Nil	3
PHYSC 11	Medical Physics	2	2	Nil	3
PHAR.CAL1	Mathematics and Pharmaceutical Calculations	2		Nil	2
PHAR.ORI 1	Pharmacy Orientation	2		Nil	2
	Total	18	6		22

	2 nd SEMESTER				
COURSE #	COURSE TITLE		PH	PRE-REQUISITE	СН
UR	English Language II	2		UR	2
UR	Medical Terminology	2	-	Nil	2
BOT 103	Botany	2	2	Nil	3
ANA 104	Principles of Human Anatomy	2	2	PHYSC 111	3
PHYP 105	Physical Pharmacy	2		PHYSC 112, PHYSC 113	2
OCH 106	Pharmaceutical Organic Chemistry I	2	2	PHYSC 112	3
HIS 107	General Histology	2	2	PHYSC 111	3
BHSC 108	Human Behavior and Socialization	2	-	Nil	2
HPH 109	Human PhysiologyI	2	2	PHYSC 111	3
	- Total	18	12		23

SECOND YEAR



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	3rd SEMESTER						
COURSE) #	COURSE TITLE	LH	PH	PRE-REQUISITE	CH	
PCS	202	Professional Communication Skills	2	-	Nil	2	
CEUT	203	Pharmaceutics I	2	2	PHYP 105	3	
OCH	204	Pharmaceutical Organic Chemistry II	2	2	OCH 106	3	
ACH	205	Pharmaceutical Analytical Chemistry	2	2	PHYSC 112,	3	
		•			PHYSC 113		
BIOC	206	Biochemistry I	2	2	OCH 106	3	
COGN	207	General Pharmacognosy	2	2	BOT 103	3	
HPH	208	Human Physiology II	2	2	HPH 201	3	
		Total	1	12		20	
			4				

	4 th SEMESTER			7	
COURSE #	COURSE TITLE	LH	PH	PRE-REQUISITE	СН
INS 209	Instrumental Analysis	2	-	OCH 204, ACH 205	2
MCH 2010	Medicinal and Pharmaceutical Chemistry I	2	2	OCH 204	3
MIC 2011	Microbiology	2	2	PHYSC 113	-3
PHA 2012	Pharmacology and Therapeutics I	2	2	HPH 201	3
BIOC 2013	Biochemistry II	2	2	BIOC 206	3
PHY 2014	Phytotherapy	2	2	COGN207	3
CEUT 2015	Pharmaceutics II	2	2	CEUT 203	3
	Total	14	12		20

THIRD YEAR

	5 th SEMESTER				
COURSE#	COURSE TITLE	LII	PH	PRE-REQUISITE	СН
SDF 301	Sterile Dosage Forms	2		CEUT 2015	2
KENI 302	Biopharmaceutics& Pharmacokinetics I	2	2	CEUT 2015	3
BIS 303	Biostatistics & Research Methodology	- 2	200	Nil	2
MCH 304	Medicinal and Pharmaceutical Chemistry II	2	2	MCH 2010	3
PHA 305	Pharmacology and Therapeutics II	2	2	PHA 2012	3
IMM 306	Immunology	2	2	HPH 208	3
CEUT 307	Pharmaceutics III	2	2	CEUT 2015	3
PROFETH308	Professional Pharm. Ethics& Legislations	2	-	Nil	2
	Total	16	12		21

COURSE#	COURSELIE	LH	PH	PRE-REQUISITE	CH
CEUTTECH309	Pharmaceylical Foontellory	2		CEUT 307	2
KENI3010	Bio pharmaceutice II	2	2	KENI 302	3
ALTM3011	Complementary and Alegaria Medicine	2	-	PHY 2014	2
CLD 3012	Interpretation Canical Laboratory Data	2	-	MIC 2011,	2

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				IMM 306	
PARA3013	Parasitology	2	2	PHYSC 111	3
BIODS3014	Bioassay & Drug Screening	1	-	PHA 305	1
HCS 3015	Health Care System and Pharmac. Care	2	-	Nil	2
TOX3016	Toxicology	2	-	PHA 305	2
PHA 3017	Pharmacology and Therapeutics III	2	2	PHA 305	3
GPA 3018	General Pathology	2	- 1	PHA 305	2
	Total	19	8		22

'3rd Professional Year - Summer Semester					
COURSE#	COURSE TITLE	1.11	PH	PRE-REQUISITE	CH
				PHA 3016, GPA	
CPT 3018	Community Pharmacy Training-I	-	6	3017	2
	Total	MR	6		2

FOURTH YEAR

	7 th SEMESTER				
COURSE#	COURSE TITLE	LH	PH	PRE-REQUISITE	СН
CDA 401	Applied Clinical & Diagnostic Analysis	2		PHA 3016,	2.
KENIDM402	Clinical Pharmacokinetics and Therapeutics Drug Monitoring	2	2	KENI 302	3
DISM 403	Dispensing of Medications	2	38	PHA 3016, GPA 3017	2
PAM 404	Pharmacy Administration & Management	2	-	PHA 3016	2
OTC 405	OTC Products and Patient Counseling	2	2	PHA 3016	3
CLINP 406	Clinical Pharmacy- Disease & Therapeutic Management-I	2 .	2	PHA 3016	3
DI 407	Drug Information & Literature Evaluation	2	- 1	PHA 3016	2
	Total	14	7		17

	8th SEMESTER					
COURSE#	COURSE TITLE	LH	PH	PRE-REQUISITE	CH	
PHYAS, 408	Physical Assessment	2	-	CLD 3011	2	
COMS 409	Communication Skill in Pharmacy Practice	2		PCS 202	2	
CLPRO 4010	Clinical Problems in Parenteral Nutrition & Intravenous Therapy	2	-	SDF 301	2	
DTOX 4011	Drugs of Abuse & Clinical Toxicology	2	-	TOX3015	2	
CLINP 4012	Clinical Pharmacy- Disease & Therapeutic Management-II	2	2	CLINP 407	3	
PHARMEC4013	Pharmacoeconomics	. 2 .		PAM 404	2	
MERR 4014	Medication Errors: Causes, Prevention, Current Issues	2	2	OTC 405	3	
	Total	14	4		16	

COURSE# Properties I Year - Summer Semester

LII PH PRE-REQUISITE CR

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CPT 4016	Community Pharmacy Training-II	-	6	CPT 3018	2
	Total	_	6	-	2

FIFTH YEAR

	th SEMESTER9					
COURSE#	COURSE TITLE	LH	PH	PRE-REQUISITE	CH	
PP 501	Principles of Pathophysiology Module I: Immunology	2		CLINP 4013	2	
PP 502	Pharmacotherapy Module II: Cardiology	2		CLINP 4013	2	
PP 503	Pharmacotherapy Module III: Psychiatry/Neurology	2		CLINP 4013	2	
PP 5404	Pharmacotherapy Module IV :Gastroenterology/Nutrition	2		CLINP 4013	2	
PP 505	Pharmacotherapy Module V : Renal Impairments & Drug monitoring	2		CLINP 4013	2	
PP 506	Pharmacotherapy Module VI: Endocrinology/Rheumatology/OB/GYN	2		CLINP 4013	2	
PP 507	Pharmacotherapy Module VII : Infectious Disease/Hematology	2		CLINP 4013	2	
PP 508	Pharmacotherapy Module VIII: Nuclear Pharmacy & Oncology	2		CLINP 4013	2	
** 5	Total	16			16	

	thSEMESTER10				
COURSE#	COURSE TITLE	LH	PH	PRE-REQUISITE	СН
PP 509	Pharmaceutical care of Internal Medicine	2	3	PP501-508	3
PP 510	Pediatric Pharmaceutical Care	2	3	PP501-508	3
PP 511	Geriatric Pharmaceutical Care	2	3	PP501-508	3
PP 512	Pharmaceutical Care of Community Pharmacy	2	3	PP501-508	3
PP 513	Obstetrics and Gynecology Pharmaceutical Care	2	3	PP501-508	3
	Total	10	15		15

Sixth VEAR

	11th SEMESTER								
COURSE #	COURSE TITLE	PRE- REQUISITE	СН						
CR 601	Internal medicine clerkship (1)	5th level	4						
CR 602	Pediatric clerkship	5th level	3						
CR 603	Geriatric and psychiatric clerkship	5th level	4						
CR 604	Obstetrics and Gynaecology clerkship	5th level	2						
CR 605	Hospital Pharmacy	5th level	2						
	Total		15						

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Faculty of Medicine and Health Sciences
Department of Clinical Pharmacy -Pharm D program



وزارة التعليم العالي والبحث العلمي وزارة التعليم العالي والبحث العلمي مجلس الاعتماد وضمان الجودة الجامعة الإماراتية الدولية كلية الطب والعلوم الصحية قسم الصيدلة السريرية برنامج دكتور صيدلي

COURSE #	COURSE TITLE	PRE- REQUISITE	СН
CR 606	Internal medicine clerkship (2)	5th level	4
CR 607	Oncology clerkship	5th level	3
CR 608	Surgery clerkship	5th level	3
CR 609	Ambulatory care clerkship	5th level	2
Code 614	Research project	5th level	. 1
	Total		13
		1	

Distribution of Total Credit Hours:

Level	Term		ersity rements		sic ements		culty rements		gram rements		gram tives	Trai	ning	Pro	ject		al Cr. rs.	Total Cr.
		No. of Cours	Credit Hours	No. of Courses	Credit Hours	No. of Course s	Credit Hours	No. of Courses	Credit Hours	No. of Courses	Credit Hours	No. of Courses	Credit Hours	No. of Courses	Credit Hours		Credit Hours	Hrs./ Level
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riitii	Second							5	15				1			5	15	13.0%
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Emirates International University
Faculty of Medicine and Health Sciences
Department of Clinical Pharmacy -Pharm D program



وزارة التعليم العالي والبحث العلمي وزارة التعليم الاعتماد وضمان الجودة الجامعة الإماراتية الدولية كلية الطب والعلوم الصحية قسم الصيدلة السريرية برنامج دكتور صيدلي

Survey of Course Names per Academic Semesters of Similar Pharma D Programs

University	Emirates Internat University	Alfaisal Universit y	Jordan Universit y	Helwan University	University of Alberta	Cyprus International University	Massachusetts University
No of Courses	89	84	95	81	55	101	76
Total Cr. Hrs.	224	198	216	215	199	245	205
Total Years	6 Years	6 Years	6 Years	6 Years	6 Years	6 Years	6 Years



Republic of Yemen Ministry of Higher Education & Scientific Research Council for Accreditation & Quality Assurance Emirates International University Faculty of Medicine and Health Sciences Department of Clinical Pharmacy -Pharm D program



وزارة التعليم العالى والبحث العلمي مجلس الاعتماد وضمان الجودة الجامعة الإماراتية الدولية كلية الطب والعلوم الصحية قسم الصيدلة السريرية برنامج دكتور صيدلي

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Emirates International University
Faculty of Medicine and Health Sciences
Department of Clinical Pharmacy -Pharm D program



المنكوب العيت

وزارة التعليم العالي والبحث العلمي مجلس الاعتماد وضمان الجودة الجامعة الإماراتية الدولية كلية الطب والعلوم الصحية.

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Emirates International University Faculty of Medicine and Health Sciences
Department of Clinical Pharmacy -Pharm D program



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Emirates International University
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Department of Clinical Pharmacy -Pharm D program



المحمولية المحمدة المحمدة التعليم العالي والبحث العلمي مجلس الاعتماد وضيمان الجودة

مجلس الاعتماد وضمان الجودة الجامعة الإماراتية الدولية كلية الطب والعلوم الصحية

قسم الصيدلة السريرية برنامج دكتور صيدلي

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Department of Clinical Pharmacy -Pharm D program



وزارة التعليم العالي والبحث الطمي مجلس الاحتماد وضمان الجودة الجامعة الإماراتية الدولية كلية الطب والعلوم الصحية قسم الصيدلة السريرية برنامج دكتور صيدلي

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Faculty of Medicine and Health Sciences
Department of Clinical Pharmacy -Pharm D program



المحمولية العلمي وزارة التعليم العالمي والبحث العلمي مجلس الاعتماد وضمان الجودة الجامعة الإماراتية الدولية

كلية الطب والعلوم الصحية قسم الصيدلة السريرية برنامج دكتور صيدلي

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Principles of Pathophysiolog y Module I: Immunology	PP 501	3	Z I	ব								[Ø V				150			<u> </u>	Ø						Ø	Ø	V	
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Department of Clinical Pharmacy - Pharm D program



وزارة التعليم العاني والبحث العلمي مجلس الاعتماد وضمان الجودة الجامعة الإماراتية الدولية كلية الطب والعلوم الصحية قسم الصيدلة السريرية برنامج دكتور صيدلي

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Pharmacothera py Module V : Renal Impairments & Drug monitoring	PP 505	ব্																			Ø						Ø		Z
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Pharmacothera py Module VIII: Nuclear Pharmacy & Oncology		য	I							Ø	V	V						Ø	<u> </u>	1						Ø	Z.		
Pharmaceutical care of Internal Medicine		Ø	I							Ø	V	V						Ø	<u> </u>	1					Ø	Ø	Ø		
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Emirates International University Faculty of Medicine and Health Sciences Department of Clinical Pharmacy -Pharm D program



مجلس الاعتماد وضمان الجودة
الجامعة الإماراتية الدولية
كلية الطب والعلوم الصحية
قسم الصيدلة السريرية برنامج دكتور صيدلى

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Republic of Yemen
Ministry of Higher Education & Scientific Research
Council for Accreditation & Quality Assurance
Emirates International University
Faculty of Medicine and Health Sciences
Department of Clinical Pharmacy -Pharm D program



وزارة التعليم العالي والبحث العلمي وزارة التعليم العالي والبحث العلمي مجلس الاعتماد وضمان الجودة الجامعة الإماراتية الدولية كلية الطب والعلوم الصحية قسم الصيدلة السريرية برنامج دكتور صيدلي

مسح أسماء المقررات الدراسية في البرامج المماثلة للبرنامج الحالي

1. Curriculum Map

Write sub Learning Outcomes, attached it wish the program specification document, it should be used as a base to write the curriculum map. The curriculum map will be designed in a table containing courses of the program. It should also indicate the relationships or contribution of each course in achieving the program main and sub-learning outcomes.

, Survey of Course Names of Similar Program

Univ ersity	Emirates international University		Alfaisal Universi ty	n N Tus	Jordan University		Helwan University	Н	Cyprus International University		University of Alberta	СН	Massachusetts University	1. 7
Cours e Name	Course Name	C H	Course Name		Course Name	СН	Course Name	СН	Course Name	СН	Course Name	СН	Course Name	
	Level/ Semester 1/1		Course Name		Course Name		Course Name		Course Name		Course Name		Course Name	
1	English Language I	2	English 005	4							English	3		
2	Computer Skills	3			Computer skills for humanities	3	Computer Science	3	Introduction to Computers	4				
3	Islamic Culture	2						-		+++		-		-
4	Arabic language	2						-		-		-		
5	Biology	3			General biology (1),2	6			Medical biology	3	Cell biology	3	General biology (1),2	6
6	General Chemistry	3	General chemistr y (1).2	6	Chemistry I.2	6	General & Physical chemistry	3	General Chemistry	3	General Chemistry	6	Chemical principle 1.2	6
7	Medical Physics	3	Physics for Medicine and Life	3			General & Physical chemistry	3	Physics	3	Physics		of Physics I	6

Emirates International University Faculty of Medicine and Health Sciences Department of Clinical Pharmacy -Pharm D program



	ورارد التعليم الثاني والبعث التعني مجلس الاعتماد وضمان الجودة
	الجامعة الإماراتية الدولية
EMIRATES NTERNATIONAL ** UNIVERSITY * * *	كلية الطب والعلوم الصحية قسم الصيدلة السريرية برنامج دكتور صيدلي
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Univ ersity	Emirates international University		Alfaisal Universi ty		Jordan University		Helwan University	Н	Cyprus International University		University of Alberta	СН	Massachusetts University	
8	Mathematics and Pharmaceutical Calculations	2	Pharmac y calculati	1	Pharmaceutical calculations and compounding	2	Mathematics	2	Basic Mathematics	3	Mathematics	3	Precalculus OR Calculus	3
9	Pharmacy Orientation	2					Pharmacy Orientation & Basic Pharmaceutics	1	Introduction to Pharmacy	2			Introduction to Pharmacy	1
	Level/ Semester 1/2		Course Name	C	Course Name	СН	Course Name	СН	Course Name	C H	Course Name	СН	Course Name	СН
10	English Language II	2	English 006	4	Medical terminology	1					English	6		
11.	Medical Terminology	2	Medical terminol ogy	2	Medical terminology	1			Pharmaceutical and Medical Terminology	2				
12	Botany	3			Pharmacognosy	3	Pharmacognos	3	Pharmaceutical Botany	4	-			
13	Principles of Human Anatomy	3	Anatomy and histology	4	Anatomy and histology for Pharmacy	2	Anatomy	2	Anatomy and Physiology I	4	Anatomy and Physiology for Pharmacy	3	Anatomy and Physiology for Pharmacy	3
14	Physical Pharmacy	2			Physical pharmacy	2	Physical pharmacy	3	Pharmaceutical Technology I	4				
15	Pharmaceutical Organic Chemistry I	3	Chemistr y II	3	Pharmaceutical organic chemistry (1)	3	Organic Chemistry I	3	Organic Chemistry	6	Organic Chemistry	6	Organic Chemistry 1	3
16	General Histology	3	Anatomy and histology	4	Anatomy and histology for Pharmacy	2	Histology	2	Histology	1				
17	Human Behavior and Socialization	2		والمراز المناور والوالي والمراز	Principles of psychology	3	Psychology	1	Behavioral Sciences	2			Int equation in Psy money and American Children	3

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وزارة التعليم العالي والبحث العلمي مجلس الاعتماد وضمان الجودة الجامعة الإماراتية الدولية كلية الطب والعلوم الصحية

كليه الطب والعلوم الصحية قسم الصيدلة السريرية برنامج دكتور صيدلي

Univ ersity	Emirates international University		Alfaisal Universi ty		Jordan University		Helwan University	Н	Cyprus International University		University of Alberta	СН	Massachusetts University	1
<u> </u>													Identity & Public Life	
18	Human Physiologyl	3	Physiolo	3	Physiology for pharmacy (1)	2	Physiology I	2	Anatomy and Physiology I	4	Human Physiology	6	Physiology/Pathophysiology I	4
	Level/ Semester 2/1		Course Name	C H	Course Name		Course Name	СН	Course Name	С	Course Name	СН	Course Name	СН
19	Professional Communication Skills	2			English Communication skills	3	Communicatio n skills	1			Reading And Writing Skills-I	3	Introduction to Interpersonal Communication for Health Professionals	3
20	Pharmaceutics I	3	Pharmac eutics I: Dosage forms and stability	3	Physicochemical principles of pharmacy	2	Pharmaceutics	3	Pharmaceutical Technology-1	4	Pharmaceutics	3	Introduction to Pharmaceutical Sciences	2
21	Pharmaceutical Organic Chemistry II	3	Örganic chemistr y	4	Pharmaceutical organic chemistry (2)	3	Organic Chemistry II	3	Organic Chemistry	6	Organic Chemistry	6	Organic Chemistry II	3
22	Pharmaceutical Analytical Chemistry	3			Pharmaceutical chemical Analysis	2	Analytical Chemistry I,II	6	Analytical Chemistry II	3	13		Chemical Principles I.II	3
23	Biochemistry I	3	Principle s of biochemi	3	Biochemistry I	3	Biochemistry I	2	Biochemistry	3	Biochemistry	3	Medical Biochemistry I	3
24	General Pharmacognosy	3	-		Pharmacognosy	2	Pharmacognos y 1&2	6	Pharmaceutical Botany	3				
25	Human Physiology II	3	Human Structure and Function	4	Physiology for pharmacy	2	Physiology II	2	Anatomy and Physiology I	4	Human Physiology	6	Physiology/Pathophysiol	4
	Level/ Semester 2/2		Course Name	C H	Course Name	СН	Course Name	СН	Course Name	C	Course Name	СН	Name	СН

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مجلس الاعتماد وضمان الجودة الجامعة الامار اتية الدولية كلية الطب والعلوم الصحية

قسم الصيدلة السريرية برثامج دكتور صيدلي

Univ ersity	Emirates international University	1.	Alfaisal Universi ty		Jordan University		Helwan University	Н	Cyprus International University		University of Alberta	СН	Massachusetts University	
26	Instrumental Analysis	2		:0	Pharmaceutical instrumental analysis	2	Advanced Instrumental Analysis	2	Drug Analysis 1&II	4				
27	Medicinal and Pharmaceutical Chemistry I	3	Medicina l chemistr y	4	Medicinal chemistry I	3	Pharmaceutical Chemistry I	3	Pharmaceutical Chemistry I	4	Principles of Medicinal Chemistry	3	Medicinal Chemistry I	3
28	Microbiology	3	Microbio logy	3	Pharmaceutical microbiology (1),(2)	6	Pharmaceutical Microbiology	3	Pharmaceutical Microbiology	4	Microbiology	3	Medical Microbiology	3
29	Pharmacology and Therapeutics I	3	Basic pharmac otherapy	3	Pharmacology (1)	3	Pharmacology I	3	Pharmacology I	4	Introduction to Pharmacology	3	Pharmacology I	4
30	Biochemistry II	3	biochemi stry	4	Biochemistry II	3	Biochemistry II	3	Biochemistry	3	Biochemistry	3	Medical Biochemistry II	3
31	Phytotherapy	3					Phytochemistry	3	Phytotherapy	2		-		-
32	Pharmaceutics II	3	Pharmac eutics II: Drug delivery	2	Pharmaceutical technology (2)	2	Pharmaceutics II	3	Pharmaceutical Technology-II	4	Pharmaceutics 2	3	Dosage Forms and Drug Delivery Systems	3
FI	evel/ Semester 3/1		Course Name	С	Course Name	СН	Course Name	СН	Course Name		Course Name	СН	Course Name	CH
33	Sterile Dosage Forms	2					Pharmaceutics III	3	Pharmaceutical Technology-III	4	Pharmaceutics III	3	Dosao	2
34	Biopharmaceutics& Pharmacokinetics I	3	Pharmac okinetics	3	Pharmacokinetic s	3	Applied Pharmacokineti	2	Biopharmaceutics Pharmacokinetics	2	Essentials of Pharmacokinetic	3	Phones Rich	3

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المحكمي المحكمي المحكمي والبحث العلمي مجلس الاعتماد وضمان الجودة الجمامعة الإماراتية الدولية

كلية الطب والعلوم الصحية قسم الصيدلة السريرية برثامج دكتور صيدلي

Univ ersity	University		Alfaisal Universi ty		Jordan University		Helwan University	Н	Cyprus International University		University of Alberta	СН	Massachusetts University	
35	Biostatistics & Research Methodology	2	Biostatist ics and basi research methods	3	Pharmaceutical statistics	2	Bioassay and Biostatistics	2	Biostatistics	3		2	Statistics	3
36	Medicinal and Pharmaceutical Chemistry II	3	Medicina 1 chemistr	4	Medicinal chemistry 2.3	6	Pharmaceutical Chemistry II	3	Pharmaceutical Chemistry II,III	6		3	Medicinal Chemistry II	3
37	Pharmacology and Therapeutics II	3	Basic pharmac otherapy;	2	Pharmacology (2)	3	Pharmacology II	3	Pharmacology II	2	Introduction to Pharmacology 2	3	Pharmacology II	4
38	Immunology	3	Immunol	2	Immunology and genetics	3	Immunology	2	Immunology	2	Immunology and Biotechnology	1	Biology I:.II Cellular and Molecular Biology	3
39	Pharmaceutics III	3					Pharmaceutics III,IV	3	Pharmaceutical Technology-III	4	Biolectiningsy		Dosage Forms and Drug Delivery Systems	3
40	Professional Pharm. Ethics& Legislations	2	Pharmac y regulatio ns and health ethics	2	Pharmacy regulations and ethics	2	Ethics in Pharmacy and Legislation	1	Pharmacy Legislations	2	Behavioural, Administrative, Social and Evidence-based Pharmacy	2	Pharmacy Law	3
	Level/ Semester		Course Name	С	Course Name	СН	Course Name	СН	Course Name		Course Name	СН	G	СН
41	Pharmaceutical Technology	2			Pharmaceutical biotechnology	2	Industrial Pharmacy	2	Pharmaceutical Technology-Iv +Industrial Pharmacy	6	12.		auljaij auložij	\

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وزارة التعليم العالي والبحث العلمي مجلس الاعتماد وضمان الجودة الجامعة الإماراتية الدولية كلية الطب والعلوم الصحية عمدم الصيدلة السريرية برنامج دكتور صيدلي

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Univ ersity	Emirates international University		Alfaisal Universi ty		Jordan University		Helwan University	Н	Cyprus International University		University of Alberta	СН	Massachusetts University	
									Clerkship		3			
42	Bio pharmaceutics & Pharmacokinetics II	3	Pharmac okinetics	3	Pharmacokinetic s	3	Applied Pharmacokineti cs	2	Biopharmaceutics Pharmacokinetics	2	Essentials of Pharmacokinetic	3	Pharmacokinetics II	3
43	Complementary and Alternative Medicine	2	Comple mentary and Alternati ve Medicine	2	Complementary and Alternative Medicine	3	Herbal alternative and Complementar y Medicine	1			Pharmacothera py 2	3		
44	Interpretation Clinical Laboratory Data	2	Advance d microbio logy	3	Clinical biochemistry (1)	2	Clinical Biochemistry	3	Clinical Biochemistry	3	Pharmacothera py 2			
_45	Parasitology	3					Parasitology	2		-				-
46	Bioassay & Drug Screening		Clinical immunol	2			Bioassay and Biostatistics	2	Pharmacotherapy 2	3				
47	Health Care System and Pharmac, Care	2	Pharmac y practice and health care systems	3			Pharmacoepide miology and public health	1					Research Methods in Pharmacoepidemiology	
48	Toxicology	2	Medical Toxicolo gy	2			Basic and Clinical Toxicology	2	Pharmaceutical Toxicology-I	3				
49	Pharmacology and Therapeutics III	3	Pharmac otherapy of	3	Pharmacology III	2	Pharmacology III	2	Pharmacology III	2	**	1	augall augall Phamhcolte	

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وزارة التعليم العالى والبحث الطمي مجلس الاعتماد وضمان الجودة الجامعة الاماراتية الدولية كلية الطب والعلوم الصحية قسم الصيدلة السريرية برنامج دكتور صيدلي

Univ ersity	Emirates international University		Alfaisal Universi ty		Jordan University		Helwan University	Н	Cyprus International University		University of Alberta	СН	Massachusetts University	
5 1 2			antimier obial agents											
50	General Pathology	2			Pathology for pharmacy	2	Pharmacothera py I,II: Patient- Centered Pathophysiolog ic Approach	2	,				Physiology/Pathophysiology I,II	8
51	Community Pharmacy Training-I	2	Introduct ory Pharmac y practice experien ce (IPPE) I (out- patient pharmac y)	2	Pharmaceutical field Training 1	2	Introductory Pharmacy Practice Experience I	3	Training I	7	Introductory Pharmacy Practice Experience Part 1	4	Introductory Pharmacy Practice Experience I	2
	Level/ Semester 4/1			C H	Course Name	СН	Course Name	СН	Course Name	C H	Course Name	СН	Course Name	Pres
52	Applied Clinical & Diagnostic Analysis	2	Clinical immunol ogy	2	Clinical biochemistry (2)	2	Clinical Biochemistry	3	Clinical Biochemistry	3	Pharmacothera py 2	3		
53	Clinical Pharmacokinetics and Therapeutics Drug Monitoring	3	Clinical Pharmac okinetics	3	Clinical Pharmacokinetic s	2	Clinical Pharmacokineti cs	2					Clinical Pharmacokinetics	3
54	Dispensing of Medications	2						and the same	Behavioural, Administrative, Social and Evidence-based	1 5	Patient Care Skills 1	3	Pharmassiculi Calvalania 4	2
							43						EMIRATES INTERNATIONAL UNIVERSITY	2

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وزارة التعليم العالي والبحث العلمي مجلس الاعتماد وضمان الجودة الجامعة الإماراتية الدولية كلية الطب والعلوم الصحية قسم الصيدلة السريرية برنامج دكتور صيدلي

Univ ersity	Emirates international University		Alfaisal Universi ty		Jordan University		Helwan University	Н	Cyprus International University		University of Alberta	СН	Massachusetts University	
					11 %				Pharmacy 1-5					
55	Pharmacy Administration & Management	2	Medicati on therapy manage ment	2			Pharmacy Practice Management	2	Behavioural, Administrative, Social and Evidence-based Pharmacy 1-5	1 5	Patient Care Skills 2	3	Introduction to Practice Management I	
56	OTC Products and Patient Counseling	3	Self-care and nonprese ription drugs	1	Over the counter drugs (OTC)	2	Community Pharmacy and QTC Therapeutics	3	Non-Prescription Drug (Otc)	2			OTC Drugs / Self-Care	
57	Clinical Pharmacy- Disease & Therapeutic Management-I	3	Integrate d pharmac otherapy II		Therapeutics I		Pharmacothera py I-VII	3	Therapeutics I	3	Pharmacotherap y 4			
58	Drug Information & Literature Evaluation	2	Drug informati on and evidence -based practice	3			Pharmacy information system & Evidence Based Practice	2	Pharmaceutical literature evaluation	2			Drug Literature Evaluation	
	Level/ Semester 4/2		Course Name	C	Course Name	7 40	Course Name	СН	Course Name	C H	Course Name	СН	Course Name	C
59	Physical Assessment	2			Basic nursing skills	2	Patient Assessment	1	First Aid	2	Patient Care Skills 1	3		
60	Communication Skill in Pharmacy Practice	2	Pharmac y practice and health	3	Pharmacy practice 1,2	2	Pharmaceutical Carel, II	4			Frameworks for Teams, Collaboration and Education in Pharmacy	2	Introduction for Health Marks on the Internation for International	

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وزارة التعليم العالى والبحث الطمي مجلس الاعتماد وضمان الجودة الجامعة الإماراتية الدولية كلية الطب والعلوم الصحية. قسم الصيدلة السريرية برنامج دكتور صيدلى

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Jniv rsity	Emirates international University		Alfaisal Universi ty		Jordan University		Helwan University	Н	Cyprus International University	***	University of Alberta	СН	Massachusetts University
			care systems						11		Practice		
61	Clinical Problems in Parenteral Nutrition & Intravenous Therapy	2	Parentera I therapy	2	Pharmaceutical nutrition and diet therapy	3	Clinical Nutrition	2			Pharmacothera py 4	3	
62	Drugs of Abuse & Clinical Toxicology	2			Selected topics in clinical toxicology	2	Basic and Clinical Toxicology	2	Pharmaceutical Toxicology-II	3			
63	Clinical Pharmacy- Disease & Therapeutic Management-II	3	Integrate d pharmac otherapy II		Therapeuties 1		Pharmacothera py I-VII	3	Therapeutics II	3	Pharmacotherap y 5		
64	Pharmacoeconomics	2	Pharmac oeconom ics and health outcome	3	Pharmacoecono mics	2	Pharmacy Practice Management	2	Pharmacoeconomic s	2	Patient Care Skills 1-5	3	
65	Medication Errors: Causes, Prevention, Current Issues	3	Medicati on safety and health informati	3					Drug Safety And Risk Assessment In Drug Use	2	Patient Care Skills 1-5		
66	Community Pharmacy Training-II	2	Introduct ory Pharmac y practice experien ce (IPPE) II	2	Pharmaceutical field Training 2	2	Introductory Pharmacy Practice Experience II	3	Training II	7	Introductory Pharmacy Practice Experience Part 2	4	Practice - terretere I

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Univ ersity	Emirates international University		Alfaisal Universi ty		Jordan University		Helwan University	Н	<u>Cyprus</u> <u>International</u> <u>University</u>		University of Alberta	СН	Massachusetts University	
			patient pharmac y)											
	Level/ Semester 5/1		Course Name	C	Course Name	CH	Course Name	СН	Course Name	C	Course Name	СН	Course Name	CH
67	Principles of Pathophysiology Module I: Immunology	2	Immuno logy and Genetics'	2					Protein Production By Recombinant DNA Technology	2	Immunology and Biotechnology	para.	Advanced Therapeutics 1&Advanced Seminas	5
68	Pharmacotherapy Module II: Cardiology	2	Integrate d pharmac otherapy I	3	Therapeutics 2-3	4	Pharmacothera py I-VII	3			Pharmacothera py 3	3	Advanced Therapeutics 1&Advanced Seminas	5
69	Pharmacotherapy Module III: Psychiatry/Neurology	2	Integrate d pharmac otherapy III,	3	Therapeutics 2-3	4	Pharmacothera py I-VII	3	NEUROPHYSIOL OGY	2	Pharmacothera py 8	3	Advanced Therapeutics 1&Advanced Seminas	5
70	Pharmacotherapy Module IV :Gastroenterology/Nu trition	2			Therapeutics 2-3	4	Pharmacothera py I-VII	3	Pharmacotherapy	3			Advanced Therapeutics 1&Advanced Seminas	5
71	Pharmacotherapy Module V: Renal Impairments & Drug monitoring	2	Integrate d pharmac otherapy I	3	Therapeutics 2-3	4	Pharmacothera py I-VII	3			Pharmacotherap y 2	3	Advanced Therapeutics I&Advanced Seminas	5
72	Pharmacotherapy Module VI; Endocrinology/Rheu matology/OB/GYN	2	Integrate d pharmac otherapy IV, Endocrin e and	3	Therapeutics 2-3	4	Pharmacothera py I-VII	3			Pharmacothera py 7	3	Advance Therapeutics Seminas Gulfold Gulfold	5

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Department of Clinical Pharmacy -Pharm D program



الفيمن تاليت

وزارة التعليم العالي والبحث الطمي مجلس الاعتماد وضمان الجودة الجامعة الإماراتية الدولية كلية الطب والعلوم الصحية

	صحية	العلوم ال	الطبو	كليه	
صيدلي	ج دكتور	أحبرنام	السريريا	الصيدلة	24

Univ ersity	Emirates international University		Alfaisal Universi ty		Jordan University		Helwan University	Н	Cyprus International University		University of Alberta	СН	Massachusetts University	
			Women's Health										The state of the s	
73	Pharmacotherapy Module VII: Infectious Disease/Hematology	2	Integrate d pharmac otherapy VI, VII Infectiou s disease	3	Therapeutics 2-3	4	Pharmacothera py I-VII	3	NEGLECTED TROPICAL DISEASES	2	Pharmacothera py 5,9	3	Virology and Anti- infectives	4
74	Pharmacotherapy Module VIII : Nuclear Pharmacy & Oncology	2	Integrate d pharmac otherapy VII	3	Therapeutics 2-3	4	Pharmacothera py I-VII	3			Pharmacothera py 3,7	3	Advanced Therapeutics I&Advanced Seminas	5
		C H	Course Name	С	Course Name		Course Name	СН	Course Name	C	Course Name	СН	Course Name	СН
75	Pharmaceutical care of Internal Medicine	3	Integrate d pharmac otherapy V. CVS and Renal II	3	Pharmacy practice 1-2	2	Pharmaceutical Care I				Pharmacothera py 3	giga tengro, d. T.	Advanced Pharmacy Experience	36
76	Pediatric Pharmaceutical Care	3	Integrate d pharmac otherapy II	3			Pharmaceutical Care	2	PRINCIPLES OF PHARMACEUTIC AL CARE	2	Pharmacothera py 3		Advanced Pharmacy Experience	36
77	Geriatric Pharmaceutical Care	3	Integrate d pharmac otherapy III: "case-	1	Pharmacy practice 1-2	2	Pharmaceutical Care	2	PRINCIPLES OF PHARMACEUTIC AL CARE	2	Pharmacothera py 8	1	A site in macy	36

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مجلس الاعتماد وضمان الجودة الجامعة الإماراتية الدولية كلية الطب والعلوم الصحية

قسم الصيدلة السريرية برنامج دكتور صيدلي

Univ rsity	Emirates international University		Alfaisal Universi ty		Jordan University		Helwan University	Н	Cyprus International University		University of Alberta	СН	Massachusetts University	
	_		based seminars											
78	Pharmaceutical Care of Community Pharmacy	3	Introduct ory Pharmac y practice experien ce (IPPE)	2	Pharmacy practice 1-2	2	Pharmaceutical Care	2	PRINCIPLES OF PHARMACEUTIC AL CARE	2	COMMUNITY PHARMACY PRACTICE	4	Advanced Pharmacy Experience	3
79	Obstetries and Gynecology Pharmaceutical Care	3	Integrate d pharmae otherapy IV. Endocrin e and Women s Health	3	Pharmacy practice 1-2	2	Pharmaceutical Care	2	PRINCIPLES OF PHARMACEUTIC AL CARE	2	Pharmacothera py 7		Advanced Pharmacy Experience	3
	Level/ Semester6/1		Course Name	C H	Course Name	СН	Course Name	СН	Course Name	C	Course Name	CH	Course Name	C
30	Internal medicine elerkship (1)	4	5 core *rotation s are mandator y for all		Internal medicine clerkship (1)	7	In-patient medicine experiences	10	INTERNSHIP-I	3	Advanced Pharmacy Practice Experience Part 1-4 @Experiential Learning Part 1-	34	internal medicine. institutional pharmacy practice, ambulatory care, and community pharmacy practice. Additionally, students completed the lecture rotation and actus	
81	Pediatric clerkship	3	Ambulat ory care		Pediatric clerkship	4	In-patient medicine experiences	10	INTERNSHIP-I-IV		Advanced Pharmacy Practice Experience Part 1-4 @Experiential	34	such addition and acts such addition and the control of the contro	

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Univ ersity	Emirates international University		Alfaisal Universi ty		Jordan University		Helwan University	Н	Cyprus International University	7.3	University of Alberta	СН	Massachusetts University	
											Learning Part 1-		gastroenterology, infectious diseases,	
82	Geriatric and psychiatric clerkship	4	General internal medicine Institutio nal		Psychiatric and Geriatric clerkship	2	In-patient medicine experiences (a) Elective Rotations	20	INTERNSHIP-I-IV		Advanced Pharmacy Practice Experience Part 1-4 @Experiential Learning Part 1- 5	34	nephrology, oncology/hematology, obstetrics/gynecology, pediatrics, poison information, and psychiatry, Course Name	
83	Obstetrics and Gynaecology clerkship	2	pharmac y practice Commun ity pharmac y practice Pharmac		Gynecology and Obstetrics clerkship	2	In-patient medicine experiences (a) Elective Rotations	20	INTERNSHIP-I-IV		Advanced Pharmacy Practice Experience Part 1-4 @Experiential Learning Part 1-	34		
84 	Hospital Pharmacy	2	administr ation and manage ment				Advanced Institutional (hospital) Practice	5	Hospital Pharmacy Clerkship	4	Advanced Pharmacy Practice Experience Part 1-4 @Experiential Learning Part 1-	34		
	Level/ Semester	C H	Course Name	C H	Course Name	СН	Course Name		Course Name	C	Course Name	СН		СН
85	Internal medicine clerkship (2)	4	Cardiolo gy		Internal medicine clerkship (2)	7	In-patient medicine experiences (a) Elective Rotations	20	INTERNSHIP-I-IV		Advanced Pharmacy Practice Experience Part 1-4 @Experiential Learning Part 1- 5	34	COLUMN CO	
86	Oncology clerkship	3	Adult				In-patient	20	INTERNSHIP-I-IV		Advanced	34		

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Univ ersity	Emirates international University		Alfaisal Universi ty		Jordan University		Helwan University	Н	Cyprus International University		University of Alberta	СН	Massachusetts University	
			haematol ogy/Onc ology				medicine experiences @ Elective Rotations				Pharmacy Practice Experience Part 1-4 @Experiential Learning Part 1- 5			
87	Surgery clerkship	3	Surgery		Surgery elerkship	2	In-patient medicine experiences (a) Elective Rotations	20	INTERNSHIP-I-IV		Advanced Pharmacy Practice Experience Part 1-4 @Experiential Learning Part 1-	34		A la se
88	Ambulatory care clerkship	2	Ambulat ory care		Ambulatory care clerkship	3	In-patient medicine experiences @ Elective Rotations	20	INTERNSHIP-I-IV		Advanced Pharmacy Practice Experience Part 1-4 @Experiential Learning Part 1-	34		
89	Research project	1	Research project	3	Research project	1	a graduation project	3	THESIS PROJECT	3	3			



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2. Program	Study	System
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Time required to complete the program

• Number of hours and percentage of total program hours distributed as a whole

Credit hours	No. Of Credit hours	Percentage of total program hours		
University Requirement	13	5.8%		
Faculty Requirement	11	4.9%		
Department Requirement	91	40.6%		
Program Requirement	109	48.7%		
Total	224	100%		

1. Study Plan based on benchmarking (224 Credit hours):

3. Admission Requirements

Specify the criteria of admission in the program process, such as percentage of secondary school, audition, placement tests, or interview.

- Student must be got Secondary science certificate (at least 80%).
- Original documents and going throw admission process.
- Pass the assessment and testing of the admission or personal interview committee under the applicable regulations.
- Completing university admission application form
- Payment of the tuition fees specified in the Financial Regulations at the beginning of the academic year.
- The applicant has not been dismissed from any other university due disciplinary reasons.
- No admission allowed in two program at the same time.

4. Program Policies: Based on University Regulations 1. (Class Attendance): A student should attend not less than 75 % of total hours of the subject; otherwise he/she will not be able to take the exam and will be considered as exam failure. If the student is absent due to illness, he/she should bring a proof statement from university Clinic. If the absent is more than 25% of a course total contact hours, student will be required to retake the entire course again. 2. (Tardy): For late in attending the data and added to initially notified. If he repeated lateness in attending class he/she will be considered as ansent. 3. (Exam Attendance/Puncture)

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وزارة التعليم العالي والبحث العلمي وزارة التعليم العالي والبحث العلمي مجلس الاعتماد وضمان الجودة المجامعة الإمارانية الدولية كلية الطب والعلوم الصحية قسم الصيدلة السريرية برنامج دكتور صيدلي

	A student should attend the exam on time. He/she is permitted to attend an exam half one hour from exam beginning, after that he/she will not be permitted to take the exam and he/she will be considered as absent in exam.
4.	(Assignments & Projects):
	Assignments and projects are given as per course specification; the student has to submit all the assignments for checking on time, mostly one week after given the assignment.
5.	(Cheating):
1	For cheating in exam, a student will be considered as fail. In case the cheating is repeated three times during his/her study the student will be disengaged from the Faculty
6.	(Plagiarism):
	Plagiarism is the attending of a student the exam of a course instead of another student. If the examination committee proofed a plagiarism of a student, he/she will be disengaged from the Faculty. The final disengagement of the student from the Faculty should be confirmed from the Student Council Affair of the university or according to the university roles.
7.	(Other policies):
	- Mobile phones are not allowed to use during a class lecture. It must be closed; otherwise the student will be asked to leave the lecture room.
	- Mobile phones are not allowed in class during the examination.
	- Lecture notes and assignments might be given directly to students using soft or hard copy.

5. Graduation Requirements

Clarifying the rules and regulations which specify conditions of the graduation from the program

- Must pass all courses with total credit hours 224 hours
- Minimal limit of marks to pass in each of the program courses:50 Marks

6. Facilities required to implement the program

- a. Learning Resources:
 - Books and textbooks
 - Journals and periodicals
 - Thesis (Master + PhD)
 - Articles and research in the web.
 - Electronic library.
- b. Equipment, tools and educational materials
 - Projectors
 - Classrooms
 - Wi-Fi internet
 - Computer labs equipped
 - Training Hall
 - All Medical Education Labs



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- 1) Pharmaceutics Lab
- 2) Pharmaceutical Analysis Lab
- 3) Pharmacology Lab
- 4) Pharmacognosy Lab
- 5) Medicinal Chemistry Lab
- 6) , Pharmacy skills labs
- 7) Microbiology Lab
- 8) Anatomy and Histology Lab
- 9) Physiology Lab

