



جامعة العلوم الحديثة University of Modern Sciences



الطحقورية لليمنتج وزارة التعليم العلي والبحث العلمي مجلس الأعتماد الأكاديمي وضمان الجودة جامعة العلوم الحديثة كلية الصيدلة



Republic of Yemen Ministry of Higher Education & Scientific Research Council for Accreditation & Quality Assurance University of Modern Sciences FACULTY of pharmacy







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لَيْ هُوُرِيَّ لَلِمِنْتَ لَلِمِنْتَ لَمَ وَالرَحْتُ العلمي وزارة التعليم العالي والبحث العلمي مجلس الأعتماد الأكاديمي وضمان الجودة جامعة العلوم الحديثة كلية الصيدلة

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Prepared in August - 2014



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الطهوريت لليمنت وزارة التعليم العلولي والبحث العلمي مجلس الأعتماد الأكاديمي وضمان الجودة جامعة العلوم الحديثة كلية الصيدلة

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Program Specification Document

	1.Program Identification	n and General Information:
1	Scientific name of the program:	Bachelor of Pharmacy
2	Total credit hours required to award the degree	170 credit hrs.
3	Number of years needed for completion of the program:	5 years
4	The body responsible for granting the degree:	University of Modern sciences
5	The body responsible for the program:	Faculty of Pharmacy
6	Award granted on completion of the program:	Bachelor of Pharmacy
7	Study system:	Semester system
8	Study Language of the Program:	English
9	Entry requirements:	High-School certificate (Scientific Faculty)
10	Facultys participating in the program:	-
11	Starting year of the program:	2014\2015
12	Study system in the program:	Semester-based study; Attendance is mandatory for at least 75 %
13	Location of Delivery:	Faculty of pharmacy- university of modern sciences- Asser area -Sana`a
14	The program resources:	University of Modern Sciences
15	Minimum grade requirements:	Based on Ministry of Higher Education standards
16	Other admission requirements:	The date of the high-school certificate should not be older than 5 years from the year of admission.
17	Date of specifying the program:	May, 2015
18	Date of current development of the program:	May, 2019
19	Prepared by:	Dr. Ahmed Al-Sobati Dr. Abdulkareem Al-Zumor Dr. Shawqi Al-Awadi Dr. Jalal Al-Qadasi Prof.Abdulrahman Humaid



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2.Introduction:

The pharmacy program at the University of Modern Science is a fiveyear pharmacy program with a 170 total credit hours at the faculty of pharmacy. It offers a Bachelor's degree in pharmacy. The Program aims at producing competent pharmacists with knowledge, skills and abilities needed to practice the pharmacy profession efficiently in different settings including community pharmacies, hospitals, pharmaceutical industries and research centers, academic institutions, forensic, and cosmetic industry. Students receive basic practical training to make them eligible for licensure as pharmacists.

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برنامج الصيدلـة فـى جامعـة العلـوم الحديثـة هـو برنامـج صيدليـة مدتـه خمـس سـنوات مـع 180 سـاعة معتمـدة فـي كليـة الصيدلـة. ويقـدم درجـة البكالوريـوس فـي الصيدلـة. يهـدف البرنامـج إلـى إنتـاج الصيادلـة الأكفـاء ذوي المعرفة والمهارات والقـدرات اللازمـة لممارسـة مهنـة الصيدلـة بشـكل احترافي فـي بيئـات مختلفـة بمـا فـي ذلـك الصيدليـات المجتمعيـة والمستشفيات والصناعات الصيدلانية ومراكز البحث والمؤسسات الأكاديميـة والصيدلـة الشـرعية وصناعـة مـواد التجميـل. يتلقـى الطـلاب تدريبًا عمليًا أساسـيًا لجعلهـم صيادلـة مؤهليـن ومرخصيـن.

3.University Vision, Mission, and Objectives:					
University vision:	رؤية الجامعة				
A world leading and distinguished university in building a knowledge society, concerned with various sciences, in its multiple fields, to serve and develop humanity.	التميـز والريادة محلياً وإقليميا، في بناء المعرفة المجتمعية وربطها مع مخرجـات التعليـم الاخـرى وخدمـة المجتمع وتنميتـه.				
Mission:	رسالة الجامعة				
The University of Modern Sciences seeks to provide outstanding aca- demic programs and research at the local and regional level, contribut- ing to the quality of education, knowledge production and community development, by providing a stimulating environment for education and creativity, effective partnerships with relevant entities, and advanced study programs and plans, to prepare specialized graduates, equipped with knowledge and skills, in accordance with academic accreditation and quality assurance standards.	تسعى جامعـة العلـوم الحديثـة لتقديـم برامـج وبحـوث أكاديميـة متميـزة علـى المسـتوى المحلـي والإقليمـي، تسـهم فـي جـودة التعليـم وإنتـاج المعرفة وتنمية المجتمع، من خـلال؛ توفيـر بيئـة محفـزة للتعليم والإبـداع، وشـراكات فاعلـة مـع الجهـات ذات العلاقـة، وبرامـج وخطـط دراسـية متطـورة، لإعـداد خريجيـن متخصصين، مزودين بالمعارف والمهـارات؛ وفـق معاييـر الاعتمـاد الأكاديمـي وضمـان الجـودة.				











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achieving comprehensive development programs..

Objectives of the University:	اهداف الجامعة:
1. Providing students with specialized and distinguished study op- portunities in various fields of knowledge to meet the needs of; labor market needs.	1 - إتاحة فرص الدراسة التخصصية والمتميزة للطلاب، في ميادين المعرفة المختلفة بما يلبي؛ احتياجات سوق العمل.
2. Providing the necessary infrastructure to support the educational process, and raising the efficiency of student awareness to give stu-	2 - توفيـر البنيـة التحتيـة اللازمـة لدعـم العمليـة التعليميـة، ورفـع كفـاءة الوعـي الطلابـي لمنـح الطـلاب فرصـا لإدراك قدراتهـم وإمكانياتهـم.
dents opportunities to realize their abilities and capabilities.	3 - دعـم عمليـات تعزيـز الجـودة فـي النظـام التعليمـي بالجامعـة، والارتقـاء ببرامجهـا؛ للحصـول علـى الاعتمـاد الأكاديمـي.
3. Supporting quality enhancement processes in the university's educational system, and upgrading its programs; To obtain academic accreditation.	4 - تعزيز دور الجامعـة في تطبيـق المعرفـة، والمعـارات؛ لخدمـة المجتمـع مـن خـلال تطويـر الشـراكات المحليـة والإقليميـة والدوليـة.
4. Enhancing the role of the university in applying knowledge and skills; To serve the community by developing local, regional and inter- national partnerships.	5 - إعـداد خريجيـن قيادييـن ورواد فـي تخصصاتهـم مـن خـلال تطويـر ودعـم الابتـكار فـي التعليـم والتعلـم، وطـرح برامـج أكاديميـة نوعيـة ومتطـورة.
5. Preparing graduates who are leaders and pioneers in their spe-	6 - تعزيـز التعليـم والتعلـم الإلكترونـي وتطويـر الأسـاليب والوسـائل التعليميـة، والاهتمـام بمصـادر تكنولوجيـا التعليـم.
cializations by developing and supporting innovation in teaching and learning, and offering qualitative and advanced academic programs.	7 - تطوير قدرات البحث العلمي والابتكار في كافة المجالات الحديثة.
6. Enhancing education and e-learning, developing educational methods and means, and paying attention to educational technology resources.	8 - تعزيز دور الجامعة في خدمة المجتمع وتحقيق برامج التنمية الشاملة.
7. Developing the capabilities of scientific research and innovation in all modern fields.	
8. Strengthening the university's role in serving the community and	

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المهوريَّة لليمنيَّة

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4.Faculty Vision, Missi	on, and Objectives:
Faculty Vision: A distinguished and pioneering Faculty locally and regionally in health and medical sciences and applied research.	رؤية الكلية كليـة متميـزة ورائـدة محليـاً واقليميـاً فـي العلـوم الصيدلانيـة والبحـوث التطبيقيـة.
Faculty Mission : Faculty of pharmacy at the University of Modern Sciences seeks to pre- pare distinguished doctors who are capable of innovation and creativi- ty in preparing distinguished high-quality research and applied studies, through efficient academic staff and modern educational programs to contribute to the quality of the medical and health sector, community development and meeting its needs.	رسالة الكلية تسعى كليـة الصيدلـة بجامعـة العلـوم الحديثـة إلـى تأهيـل كادر متخصـص وقادر علـى مزاولـة الصيدلـة بكفاءة مما يسـهم فـي جـودة القطـاع الطبي والصحي وتنميـة المجتمع وتلبيـة احتياجاتـه.
 Objectives of the Faculty: 1. Preparing competent pharmacists who are capable to provide various pharmacy services and are supplied with the standardized relevant knowledge, professional skills and ethical values to meet the needs of the labor market. 2. Enhancing and creating the necessary educational environment by Updating the academic pharmacy curricula and learning sources to support the educational process and raise the efficiency of the college's competitive position. 3. Supporting quality enhancement processes in the college's educational system and upgrading its programs in accordance with academic accreditation standards. 4. Conducting and developing Pharmacy research to solve health-related problems in the community. 5. Strengthening the college's role in transferring medical and health knowledge and skills to serve the community. 6. Participating in advancing pharmaceutical industry in Yemen. 	أهداف الكلية 1. إعداد صيادلة مؤهلين وقادر على تقديم الخدمات الصيدلانية المختلفة ويمتلكون المعارف المتخصصة والمعارات المهنية والقيم الأخلاقية. بما يلبي احتياجات سوق العمل. 2. تعزيز وتهيئة البيئة التعليمية اللازمة لدعم العملية التعليمية من خلال تطوير المناهج الدراسية الصيدلانية ورفع كفاءة الوضع التنافسي للكلية 3. دعم عمليات تعزيز الجودة في النظام التعليمي بالكلية والارتقاء ببرامجها وفق معايير الاعتماد الأكاديمي. 4. إجراء البحوث الصيدلانية وتطويرها بما يسهم في حل المشاكل الصحية في المجتمع. 5. تعزيز دور الكلية في نقـل المعرفة والمهـارات الصيدلانية لخدمـة المجتمع.
7. Developing the capabilities of scientific research and innovation in all pharmacy fields.	



الجهن ليتة لليمنتية

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Program Mission:	سالة البرنامج:
The mission and objectives of the program: The mission of the program: preparing scientifically qualified pharmacists and qualified research committed to professional ethics and the ability to continuously self- learn through an innovative learning environment and effective part- nership, in a way that meets the needs of the labor market. Practically, practically, professionally and morally compete in the labor market, and contribute to providing pharmacy services provided to the community.	سداد الصيادلـة المؤهليـن علميـاً ومتمكنيـن فـي مجـال البحـث العلمـي ملتزمـون بالأخلاقيـات المعنيـة ولديهـم القـدرة علـى التعلـم الذاتـي مسـتمر مـن خـلال بيئـة تعليميـة مبتكـرة وشـراكة فعالـة ، بطريقـة تلبي حتياجـات سـوق العمل. تتمكـن مخرجـات البنامـج مـن التنافـس علمـيّ ، مليَّـا ، معنيًا وأخلاقيًا في سـوق العمل ، وتسـاهم في تقديـم الخدمـات دوائيـة إلـى المجتمـع.
Program Objectives:	هداف البرنامج:
1. Preparing qualified pharmacists who commit to the ethics of the profession, to meet the needs of the various pharmaceutical fields.	. إعـداد الصيادلــة المؤهليــن الذيـن يلتزمــون بأخلاقيــات المهنــة، لتلبيــة تتياجـات المجـالات الصيدلانيــة المختلفـة.
Providing students with knowledge, scientific, practical and research skills in the fields of pharmaceutical sciences.	2. تزويـد الطـلاب بالمعرفـة والمهـارات العلميـة والعمليـة والبحثيـة فـي جـالات العلـوم الصيدلانيـة.
3. Developing students' personal skills and their ability to communicate and feel self continuously.	، تطويـر مهـارات الطـلاب الشـخصية وقدرتهـم علـى التواصـل والشـعور ذاتـي بشـكل مسـتمر.
4. Encouraging educational and community instructions to enhance students' practical and voluntary research skills.	،. تشجيع الشـراكات التعليميـة والمجتمعيـة لتعزيـز مهـارات الطـلاب عمليـة والبحثيـة التطوعيـة.
5. Providing specialized pharmacists with knowledge, skills and ethical values to compete in the labor market.	. تقديـم الصيادلــة الأكفـاء المتسـلحين بالمعرفـة والمهـارات والقيـم دُخلاقيـة ويمكنهـا التنافـس فـي سـوق العمـل.
6. Providing, developing and updating pharmacy, training and research to serve the community, meet their needs, progress in the profession in pharmacy, and meet cosmetic and international standards.	. تطويـر وتحديـث الصيدلـة والتدريـب والبحـث لخدمـة المجتمـع وتلبيـة تتياجاتهـا والتقـدم فـي المعنـة الصيدلانيـة وتلبيـة المعاييـر المحليـة الدوليـة.
7. Augment cooperations with academic research institutes, local, regional and international academic entities related to the higher pharmacy education	توسيع افـاق التعـاون مع معاهـد البحـوث الأكاديميـة والأدويـة المحليـة لإقليميــة والدوليــة والكيانــات الأخــرى ذات الصلــة بالعمليــة التعليميــة مهنـة الصيدلـة

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6.Program Standards & Benchmarks:

Program Standards:-

A. Academic Standards:

1-Regulations (level 1) of the council for accreditation and quality assurance - Ministry of Higher education & scientific research, Yemen.

2-NARS, National academic reference standards for pharmacy, the council for accreditation and quality assurance – Ministry of Higher education & scientific research, Yemen, 2018.

3-AFPC Educational Outcomes for First Professional Degree Programs in Pharmacy in Canada, The Association of Faculties of Pharmacy of Canada's Board of Directors 2017

4- National Academic Reference Standards Pharmacy Education, National Authority for Quality Assurance and Accreditation of Education, Egypt, 2017

- B. Strategies :-
 - 1-University Strategy.
 - 2-Faculty Strategy.
- C.Rules and Regulation :-
 - **1-Higher Education rules**
 - 2-Private education laws
 - **3-Student affairs regulation**

Program Benchmarks:

- a) University of science & technology, Yemen
- b) University of science & technology, Jordan
- c) Cairo university, Egypt
- d) Zarqa University, Jordan
- e) Jouf university, Saudi Arabia
- f) Al-Ain university, Emirates
- g) Nitte university, India









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7. Graduate Attributes:

University of Modern Sciences

Upon successful completion of an undergraduate Pharmacy program, graduates will be able to:

1. Demonstrate knowledge of basic and biomedical sciences and their applications in pharmacy.

2.Demonstrate a sound understanding of a substantial body of knowledge in pharmaceutical sciences.

3. Apply current good manufacturing practices (cGMP) criteria in formulating and preparing pharmaceutical/cosmetic products from different sources (including raw materials) and contribute to the distribution and storage system.

4. Utilize analysis methods (qualitative and quantitative) in testing raw materials and pharmaceutical products

5.Deal safely and effectively with chemicals, natural materials and pharmaceutical products and participate in optimizing medicines uses.

6. Practice and perform responsibilities and authorities ethically, legally, professionally and respect patient's rights.

7.Educate patients and members of health care team in rational use of medicines based on updated drug information.

8.Apply evidence-based decision making skills and search in solving problems related to pharmacy profession.

9. Demonstrate effective communication, leadership, marketing and business management skills.

10.Plan, design, conduct and participate in research to improve healthcare system performance.

11. Apply self-dependence, life-long and collaborative learning skills in updating their knowledge.

8. Promising career opportunities for graduates:

10

The field is available for graduates to work as follows:

-Researcher assistant and practical instructor in pharmacy Faculties

-Medical sales representative.

- Regulatory affairs officer at pharmaceutical Quality control authorities

- Hospital pharmacists at health centers.

- Industrial pharmacists at Pharmaceutical manufacturing companies

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لَيْخُرْ*فُرُرُيِّ مَ* لَ*لِّعُمْنِيَّ مَ* وزارة التعليم العالي والبحث العلمي مجلس الأعتماد الأكاديمي وضمان الجودة

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9.Program Intended Learning Outcomes (PILOs):

***PILOs of Knowledge and Understanding Skills:**

بعد الانتهاء من البرنامج بنجاح سوف يكون المتخرج قادرا على ان:

A1. Show understanding of fundamentals of biomedical sciences, physics, mathematics and chemistry and organization of human body.

- A2. Explain the fundamental of social and behavioral sciences.
- A3. Explain physicochemical properties of materials and products
- A4. Describe analytical methods, principles, design and development techniques
- A5. Identify actions of medicines on human body.
- A6. Explain the basis of complementary and alternative medicines
- A7. Identify types of poisons and mechanisms and actions of poisoning
- A8. Describe Biopharmaceutics and pharmacokinetics of medicines
- A9. Define the basis of health policy, Pharmacoeconomics, pharmacoepidemology, pharmaceutical marketing and administration.

A10. Describe the pharmacists role in different pharmacy practices.

A11. Identify the properties of dosage forms and novel drug delivery systems.

A12. Describe the methods of biostatistics and pharmaceutical calculations

***PILOs of Intellectual Skills:**

- B1. Collect interpret and assess information and data relevant to pharmacy practice
- B2. Classify drugs, approaches and other information relevant to pharmacy based on scientific classification system.
- B3. Design an evaluate different types of safe and effective drugs , pharmaceutical dosage forms and cosmetic preparations
- B4. Select appropriate standard operation procedures to conduct qualitative and quantitative analysis.
- B5. Plan a modern system for administration of foundations and merge ethics to business in drug marketing.
- B6. Develop and design suitable methods for extraction of active medicinal agents from various sources.
- B7. Formulate and evaluate patient care plan about rational drug use of medications.
- B8. Use appropriate research methods including experimental, observational and electronic to collect data and solve problems.
- B9. Apply mathematical equations to calculate data relevant to pharmacy practices.

***PILOs of Professional Skills and Practices:**

C1. Handle safely the chemicals, biological samples and pharmaceutical ingredients and products.

C2. Operate different instruments and use emerge technologies for preformulation, formulation and analysis of materials according to standard guidelines.

C3. Screen for drugs from different sources and carry out pharmacy relevant experiments successfully.

- C4. Advice patients and healthcare professionals to optimize medicines use.
- C5. Employ the relevant ways to produce extemporaneous preparations including TPN and IV admixtures.

C6. Apply administrative and Pharmacoeconomics rules in pharmacy and ethically use marketing skills for drug promotion.

C7. Conduct research and utilize the results in different pharmaceutical fields.

***PILOs of General and Transferable Skills:**

D1. Interact and communicate effectively and behave in disciplines with colleagues, patients and healthcare professionals effectively in team-activities.

D2. Develop and demonstrate skills of time managements, self-learning and decision making.

D3. Participate collaboratively in team work with colleagues and healthcare professionals.

D4. Take the responsibility for adaption to change needs in pharmacy practice.

D5. Retrieve essential references of evidence-based to achieve maximal clinical effectiveness

بعد الانتهاء من البرنامج بنجاح سوف يكون المتخرج قادرا على ان:

بعد الانتهاء من البرنامج بنجاح سوف يكون المتخرج قادرا على ان:

بعد الانتهاء من البرنامج بنجاح سوف يكون المتخرج قادرا على ان:



Republic of Yemen Ministry of Higher Education & Scientific Research

Council for Accreditation & Quality Assurance

University of Modern Sciences

FACULTY of pharmacy



وزارة التعليم العالى والبحث العلمى مجلُسُ الأعتماد الأكاديَّمي وضمان الجوّدة جامعة العلوم الحديثة كلبة الصبدلة

ANNEX- 1, SURVEY ON THE STRATEGIC ORIENTATION OF THE DEARTMENT AND SIM-ILAR FACULTYS, AND THEIR ALIGNMENT TO THE STRATEGIC ORIENTATION OF THE :UNIVERSITY AND FACULTY

ANNEX- 2, ACADEMIC STANDARDS CURRICULUM CRITERIA OF ACCREDITATION BOARD

ANNEX- 3, UNIFIED REGULATIONS FOR STUDENT AFFAIRS, MINISTRY OF HIGHER
EDUCATION AND SCIENTIFIC RESEARCH

ANNEX- 4, SURVEY OF SIMILAR ACCREDITED PROGRAMS AT NATIONAL AND INTER-(NATIONAL UNIVERSITIES (BENCHMARKS

ANNEX- 5, SURVEY ON MISSION AND OBJECTIVES OF THE PROGRAM AND SIMILAR ACCREDITED PROGRAMS AND ITS ALIGNMENT TO THE UNIVERSITY, FACULTY, AND FACULTY MISSIONS AND OBJECTIVES

ANNEX- 6, ALIGNMENT OF PROGRAM INTENDED LEARNING OUTCOMES (PILOS) TO THE FACULTY OBJECTIVE

ANNEX- 7, ALIGNMENT OF PROGRAM INTENDED LEARNING OUTCOMES (PILOS) TO (PROGRAM OBJECTIVES (POS

ANNEX- 8, MAPPING OF PROGRAM INTENDED LEARNING OUTCOMES (PILOS) TO THE :(FACULTY OBJECTIVES (FOS

ANNEX- 9, ALIGNMENT OF PRGRAM INTENED LEARNING OUTCOMES (PILOs) TO THE FACULTY OBJECTIVES

ANNEX- 10, ALIGNMENT OF PROGRAM PILOS WITH COUNCIL OF ACCREDITATION AND OTHER STANDARDS

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لتطهق وزارة التعليم العالي والبحث العلمي مجلس الأعتماد الأكاديمي وضمان الجودة جامعة العلوم الحديثة كلية الصيدلة

10.Program Structure:

UMS

جامعـة العلــوم الحديثــة University of Modern Sciences

No	Requirements		No. of Courses	Credit Hours	Rational Weight %	
		Compulsory	4	8		
1	University Requirements	Elective	-	-		4.7%
		Compulsory	21	51		30%
2	Faculty Requirements	Elective				
		Compulsory	38	105		
3	Program Requirements *	Elective			61.8 %	
		2	6*		65.3%	
4	Field Training	Elective	-	-	3.5 %	
	Total:		65	170		

*: 6 Credit hours are equivalent to 650 actual hours at the field

A. University Requirements

Compulsory Courses: (8 Credit hours)

No.	Course Code	Course Name	Credit hrs	Theoretical	Seminar	Practical	Training
1	UMS 01	Arabic language	2	2	-	-	-
2	UMS 02	Introduction to Computer	2	1	-	1	-
3	UMS 03	Islamic culture	2	2	-	-	-
4	UMS 04	Communication Skills	2	2	-	-	-
	Total of Credit Hours		8	7		1	

13

Elective Courses:

None

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لطهوري للي a

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B.Faculty Requirements

UMS

Compulsory Courses: (44 Credit hours)

No.	Course Code	Course Name	اسم المقرر	Cr. Hrs.	L	т	Р
1	FOP 111	General Biology	أحياء عامة	3	2		1
2	F0P112	General Chemistry	كيمياء عامة	3	2		1
3	FOP 113	Physics for Pharmacy	فيزياء للصيدلة	2	2		-
4	FOP 114	Medical English (1)	انجليزي طبي (1)	2	2	-	-
5	FOP 115	Pharmacy Orientation	اتجاهات صيدلانية	2	2	-	-
6	FOP 121	Mathematics	رياضيات	2	2	-	-
7	FOP 122	First Aid	اسعافات اولية	2	2		-
8	FOP 125	Medical English (2)	نجليزي طبي (2)	2	2	-	-
9	FOP 126	Anatomy & Histology	علم التشريح والأنسجة	3	2		1
10	FOP 212	Pharmacy Public Health	صيدلة صحة مجتمع	2	2		-
11	FOP 213	Physiology (1)	علم وظائف الأعضاء 1	2	2		-
12	FOP 222	Physiology II	علم وظائف الأعضاء 2	2	2		-
13	FOP 226	Biochemistry & Molecular Biology	الكيمياء الحيوية والبيولوجيه الجزيئية	3	2		1
14	FOP 313	General Microbiology	علم الأحياء الدقيقة	3	2		1
15	FOP 314	Metabolic Biochemistry	ايض الكيمياء الحيوية	3	2		1
16	FOP 321	Pathology	علم أمراض	2	2	-	-
17	FOP 323	Biostatistics	إحصاء حيوي	2	2		-
18	FOP 326	Pharmaceutical Microbiology	أحياء دقيقة صيدلانية	3	2		1
19	FOP 416	Pathophysiology	علم وظائف الأعضاء الممرضة	2	2		
20	FOP 424	Physical assessment skills	مهارات التقييم البدني	2	1		1
21	FOP 522	Graduation project		4	-		4
		Total		51	39		12







لطحق يتركاني a وزارة التعليم العلولي والبحث العلمي مجلس الأعتماد الأكاديمي وضمان الجودة جامعة العلوم الحديثة كلية الصيدلة

C. Program Requirements

UMS

جامعـة العلــوم الحديثــة University of Modern Sciences

Compulsory Courses (40 courses); (110 Credit hours)

	I- Pharmaceutics &Related disciplines ; (13) Courses ; (32) Credit hours							
No.	Course Code	Course Name	اسم المقرر	Cr. Hrs.	L	т	Ρ	
1	PHT 123	Physical Pharmacy	صيدلة فيزيائية	3	2		1	
2	PHT 124	Pharmaceutical Calculation	حسابات صيدلانية	2	2		-	
3	PHT 211	Pharmaceutics (1)	صيدلانيات (1)	3	2		1	
4	PHT 221	Pharmaceutics (2)	صيدلانيات (2)	3	2		1	
5	PHT 311	Pharmaceutics (3)	صيدلانيات (3)	3	2		1	
6	PHT 315	Pharmaceutical Drug discovery & development	تطوير واكتشاف الأدوية	2	2		-	
7	PHT 316	Dermatological & Cosmetic preparations	تحضيرات تجميلية وجلدية	3	2		1	
8	PHT 411	Industrial pharmacy	صيدلة صناعية	2	2	-	-	
9	PHT 415	Biopharmaceutics & Pharmacokinetics (1)	صيدلة حيوية وحركية (1)	2	2	-	-	
10	PHT 417	Pharmaceutical Biotechnology	التكنولوجيا الحيوية الصيدلانية	2	2	-	-	
11	PHT 425	Biopharmaceutics & Pharmacokinetics (2)	صيدلة حيوية وحركية (2)	2	2	-	-	
12	PHT 511	Nuclear Pharmacy	صيدلة نووية	2	2	-	-	
13	PHT 512	Pharmaceutical Quality Control	رقابة دوائية	3	2	-	1	
		Total		32	26	0	6	



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	II- Pharmacology &Related disciplines (PHL) ; (4 courses ; (11) Credit hours									
No.	Course Code	Course Name	اسم المقرر	Cr. Hrs.	L	т	Р			
1	PHL 312	Pharmacology (1)	علم أدوية (1)	3	2		1			
2	PHL 322	General Toxicology	علم السموم	3	2		1			
3	PHL 324	Pharmacology (2)	علم ادوية (2)	3	2		1			
4	PHL 412	Pharmacology (3)	علم ادوية (3)	2	2	-	-			
	Total					-	3			

	III- Medicinal chemistry &Related disciplines (PHC) ; (8) courses ; (24) Credit hours								
No.	Course Code	Course Name	اسم المقرر	Cr. Hrs.	L	т	Р		
1	PHC 214	Pharmaceutical Organic Chemistry (1)	کیمیاء عضویة صیدلانیه (1)	3	2		1		
2	PHC 216	Pharmaceutical Analytical Chemistry (1)	كيمياء تحليلية صيدلانية (1)	3	2		1		
3	PHC 223	Pharmaceutical Organic chemistry (2)	كيمياء عضوية صيدلانية (2)	3	2		1		
4	PHC 225	Pharmaceutical Analytical Chemistry (2)	كيمياء تحليلية صيدلانية (2)	3	2		1		
5	PHC 325	Medicinal Chemistry (1)	كيمياء دوائية (1)	3	2		1		
6	PHC 414	Medicinal Chemistry (2)	كيمياء دوائية (2)	3	2	-	1		
7	PHC 423	Medicinal Chemistry (3)	كيمياء دوائية (3)	3	2	-	1		
8	PHC 516	Pharmaceutical instrumental analysis	تحليل آلي صيدلاني	3	2		1		
		Total		24	16	-	8		



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UMS



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	IV- Pharmacognosy & Related disciplines (PHG); (4) courses; (14) Credit hours									
No.	Course Code	Course Name	اسم المقرر	Cr. Hrs.	L	т	Р			
1	PHG127	Botany and medicinal plants	علم النباتات ونباتات طبية	3	2		1			
2	PHG215	Pharmacognosy & Phytochemistry (1)	عقاقير وكيمياء عقاقير (1)	4	3		1			
3	PHG 224	Pharmacognosy & Phytochemistry (2)	عقاقير وكيمياء عقاقير (2)	4	3		1			
4	PHG 421	Applied Pharmacognosy	عقاقير تطبيقية	3	2	-	1			
	Total					-	4			

	V- Pharmacy practice & Related disciplines (PHPP; (9) courses ; (23) Credit hours									
No.	Course Code	Course Name	اسم المقرر	Cr. Hrs.	L	т	Р			
1	PHPP 413	Community Pharmacy (1)	صيدلة مجتمع (1)	3	2	-	1			
2	PHPP 422	Community Pharmacy (2)	صيدلة مجتمع (2)	3	2	-	1			
3	PHPP 426	Principles of Pharmacy practice	مبادئ الممارسة الصيدلانية	3	2	-	1			
4	PHPP 513	Pharmacy administration	ادارة صيدلانية	2	2		-			
5	PHPP 515	Clinical Pharmacy I	صيدلة سريرية (1)	3	2		1			
6	PHPP 517	Pharmacy Regulation and ethics	اخلاقيات مهنة الصيدلة	2	2		-			
7	PHPP 521	Pharmaceutical Marketing & promotion	تسويق دوائي	2	2	-	-			
8	PHPP 523	Hospital pharmacy	صيدلية مستشفيات	2	2	-	-			
9	PHPP 526	Clinical pharmacy (2)	صيدلة سريرية (2)	3	2		1			
	Total					-	5			

VI. Professional Practice Experience (PHPP); (2) courses; (6) Credit hours equivalent to (360) actual hour									
No.	Course Code Course Name اسم المقرر Cr. Hrs. L T P								
1	PHPP514	Professional Practice Experience (1) *	تدريب ميداني (1)	3*			325 hrs.		
2	PHPP524	Professional Practice Experience (2)**	تدريب ميداني (2)	3**			325 hrs		
		Total	60			650 hrs			

*: 3 credit hours are equivalent to 325 actual hours at the field

**: 3 credit hours are equivalent to 325 actual hours at the field

: 6 Credit hours are equivalent to 650 actual hours at the field



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الخطة الدراسية لبرنامج الصيدلة :11.Study Plan

No. of Courses: 65 Total Credit Hours =170 C.H

			CREDIT HOURS		
No.	CODE	SUBJECT	TOTAL	L	Р
1	FOP 111	General Biology	3	2	1
2	FOP112	General Chemistry	3	2	1
3	UMS 01	Arabic language	2	2	-
4	FOP 113	Physics for Pharmacy	2	2	-
5	FOP 114	Medical English (1)	2	2	-
6	FOP 115	Pharmacy Orientation	2	2	-
7	UMS 02	Introduction to Computer	2	1	1

TOTAL CREDIT HOURS

FIRST YEAR- FIRST SEMESTER

FIRST YEAR- SECOND SEMESTER

			CRED		RS
No.	CODE	SUBJECT	TOTAL	L	Р
1	FOP 121	Mathematics	2	2	-
2	FOP 122	First Aid	2	2	
3	PHT 123	Physical Pharmacy	3	2	1
4	PHT 124	Pharmaceutical Calculation	2	2	-
5	FOP 125	Medical English (2)	2	2	-
6	FOP 126	Anatomy & Histology	2	2	-
7	UMS 03	Islamic Culture	2	2	-
8	PHG127	Botany and medicinal plants	3	2	1
	TOTAL CREDIT HOURS			•	





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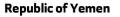
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SECOND YEAR- FIRST SEMESTER

			CRED	EDIT HOURS				
No.	CODE	SUBJECT	TOTAL	L	Р			
1	PHT 211	Pharmaceutics (1)	3	2	1			
2	FOP 212	Pharmacy Public Health	2	2	-			
3	FOP 213	Physiology (1)	3	2	1			
4	PHC 214	Pharmaceutical Organic Chemistry (1)	3	2	1			
5	PHG215	Pharmacognosy & Phytochemistry (1)	4	3	1			
6	PHC 216	Pharmaceutical Analytical Chemistry (1)	3	2	1			
		TOTAL CREDIT HOURS	18	·				

SECOND YEAR- SECOND SEMESTER

			CRE	DIT HOUR	S
No.	CODE	SUBJECT	TOTAL	L	Р
1	PHT 221	Pharmaceutics (2)	3	2	1
2	FOP 222	Physiology II	2	2	-
3	PHC 223	Pharmaceutical Organic chemistry (2)	3	2	1
4	PHG 224	Pharmacognosy & Phytochemistry (2)	4	3	1
5	PHC 225	Pharmaceutical Analytical Chemistry (2)	3	2	1
6	FOP 226	Biochemistry & Molecular Biology	3	2	1
	TOTAL CREDIT HOURS				







لطهور 2 وزارة التعليم العلولي والبحث العلمي مجلس الأعتماد الأكاديمي وضمان الجودة جامعة العلوم الحديثة كلية الصيدلة

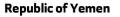
THIRD YEAR- FIRST SEMESTER

UMS

				CREDIT HOURS			
No.	CODE	SUBJECT	TOTAL	L	Р		
1	PHT 311	Pharmaceutics (3)	3	2	1		
2	PHL 312	Pharmacology (1)	3	2	1		
3	FOP 313	General Microbiology	3	2	1		
4	FOP 314	Metabolic Biochemistry	3	2	1		
5	PHT 315	Pharmaceutical Drug discovery & development	2	2	-		
6	PHT 316	Dermatological & Cosmetic preparations	3	2	1		
	TOTAL CREDIT HOURS						

THIRD YEAR- SECOND SEMESTER

			CREDIT HOUR		
No.	CODE	SUBJECT	TOTAL	L	Р
1	FOP 321	Pathology	3	2	1
2	PHL 322	General Toxicology	3	2	1
3	FOP 323	Biostatistics	2	2	-
4	PHL 324	Pharmacology (2)	3	2	1
5	PHC 325	Medicinal Chemistry (1)	3	2	1
6	FOP 326	Pharmaceutical Microbiology	3	2	1
	TOTAL CREDIT HOURS				







لطهن 2 وزارة التعليم العلولي والبحث العلمي مجلس الأعتماد الأكاديمي وضمان الجودة جامعة العلوم الحديثة كلية الصيدلة

FOURTH YEAR- FIRST SEMESTER

UMS

			CREDIT HOURS		
No.	CODE	SUBJECT	TOTAL	L	Р
1	PHT 411	Industrial pharmacy	2	2	-
2	PHL 412	Pharmacology (3)	2	2	-
3	PHPP 413	Community Pharmacy (1)	3	2	1
4	PHC 414	Medicinal Chemistry (2)	3	2	1
5	PHT 415	Biopharmaceutics & Pharmacokinetics (1)	2	2	-
6	FOP 416	Pathophysiology	2	2	-
7	PHT 417	Pharmaceutical Biotechnology	2	2	-
	TOTAL CREDIT HOURS				

FOURTH YEAR- SECOND SEMESTER

			CREDIT HOURS			
No.	CODE	SUBJECT	TOTAL	L	Р	
1	PHG 421	Applied Pharmacognosy	3	2	1	
2	PHPP 422	Community Pharmacy (2)	3	2	1	
3	PHC 423	Medicinal Chemistry (3)	3	2	1	
4	FOP 424	Physical assessment skills	2	1	1	
5	PHT 425	Biopharmaceutics & Pharmacokinetics (2)	2	2	-	
6	PHPP 426	P 426 Principles of Pharmacy practice		2	1	
		16				



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FIFTH YEAR- FIRST SEMESTER

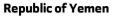
			CREDIT HOURS			
No.	CODE	SUBJECT	TOTAL	L	Р	
1	PHT 511	Nuclear Pharmacy	2	2	-	
2	PHT 512	Pharmaceutical Quality Control	3	3	-	
3	PHPP 513	Pharmacy administration	2	2	-	
4	PHPP 514	Professional Practice Experience	3*	0	3*	
5	PHPP 515	Clinical Pharmacy I	3	2	2	
6	PHC 516	Pharmaceutical instrumental analysis	3	2	2	
7	PHPP 517	Pharmacy Regulation and ethics	2	2	-	
	то	18				

*: 3 credit hrs are equivalent to 325 contact hrs; 25 hrs/ week for 13 weeks

CREDIT HOURS CODE SUBJECT No. TOTAL Ρ L PHPP 521 2 2 1 **Pharmaceutical Marketing & promotion** _ 2 FOP 522 **Graduation project** 4 _ 4 3 **UMS 04 Communication skills** 2 2 _ 4 **PHPP 523 Hospital pharmacy** 2 2 -PHPP 524 3** 3** 5 **Professional Practice Experience (2)** 0 6 **PHPP 525** Clinical pharmacy (2) 3 2 1 Total credit hours 16

FIFTH YEAR- SECOND SEMESTER

**: 3 credit hrs are equivalent to 325 contact hrs; 25 hrs/ week for 13 weeks.







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12. Teaching and Learning Strategies:

- -Active Lectures (supported with discussion),
- -Group learning and Problem-based learning,
- -Seminars, journal clubs and workshops,
- Practical classes,
- -Office hours
- -Field training,
- -Simulated software program
- -Field visits to industries,
- -Computer and web-based learning,
- -Use of communication and information technology,
- -Project work,
- Directed self-study.

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جامعة العلـوم الحديثــة University of Modern Sciences



الطهوريت لليمنت

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Teaching Strategy	Description		
Lectures	It is the most frequently employed teaching method to convey knowledge and explain theories to students in large groups (50-100) or in sessions, which consist of more than one group gathered in one classroom.		
Seminars	These are mainly used with small groups of students in which they find better chances for discussing and negotiat- ing the different concerns of their studies.		
Lab experiments	Students doing practices in labs individually or in small groups.		
Training	This is a practical kind of course where the students are required to plan and execute field training in community Pharmacy, hospitals, corporations and industrial plants to accomplish and obtain certificate of training.		
Discussion	This is done by allowing the students to ask questions during the lecture and respond to them by the lecturer or other students for the purpose of establishing and clarify the subject of the lecture strongly and increase the con- centration and absorption of the student and the attention and not to enter the boredom.		
Presentations	Helps the students to be more confident with themselves and make them to show the others what knowledge they have acquired. It can be followed in many types of courses and tasks.		
Self-learning	Self-learning is the process by which learners teach themselves using any materials or resources to achieve clear goals without the direct help of the teacher		
Case study	Case studies are defined as the scientific documentation of a single clinical observation which is so important study design in advancing medical scientific knowledge especially of rare disease.		
	Office hours are hours determined by the faculty member (professor of the course) to which the student studies.		
Office Hours	The hours allocated by the professor to meet with his students to help them and answer their queries in the event of any questions they may not be enough time for the lecture to answer it.		
Project-based learning	Project Based Learning is a teaching method in which students gain knowledge and skills by working for an extended period of time to investigate and respond to an authentic, engaging, and complex question, problem, or challenge It promotes interaction between students		
Video clips	can bring a subject to students in a completely new way and help them comprehend the material they're reading or working with.		
Role-play	is a technique that allows students to explore realistic situations by interacting with other people in a managed way in order to develop experience and trial different strategies in a supported environment.		
A concept map	is a visual representation of a topic that students can create using words, phrases, lines, arrows, space on the page, and perhaps color to help organize their ideas and show their understanding of an idea, vocabulary term, or essential question.		
Demonstration	is a teaching method used to communicate an idea with the aid of visuals such as flip charts, posters, power point, etc. A demonstration is the process of teaching someone how to make or do something in a step-by-step process. As you show how, you "tell" what you are doing.		
One Minute Paper	is based on a concept called retrieval learning. Just fill out a small questionnaire within 15 minutes after taking a class, reading a chapter, watching a documentary, or learning in another way.		







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13. Assessment Methods:

- -Short essays,
- -Written assessments, such as multiple choice questions (MCQs),
- -Faculty assessment by structured observation through checklists and rating scales,

- -Seminar assessment,
- -Multi-source assessments, such as student self-assessment,
- -Simulations, such as computer-based clinical scenarios,
- -summative practical assessments,
- -Graduate Research project.
- -laboratory and other written reports,
- -Work samples, such as, logbooks and portfolios.

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جامعـة العلــوم الحديثــة University of Modern Sciences



الجهن ليتة لليمنتية

وزارة التعليم العلولي والبحث العلمي مجلس الأعتماد الأكاديمي وضمان الجودة جامعة العلوم الحديثة كلية الصيدلة

Assessment Strategy	Description
Assessment Strategy	Its description (in which course it will be used and in which rate)
Written examinations	Mid-term test is conducted between 6th to 8th Class and final exam is conducted at the end of each course.
Oral exams	For selected courses
Technical or practical reports / Presentations	As indicated in the course specification
Assignments including prob- lem-solving exercises	The entire assignments including problem-solving exercises of coursework activities during the teaching period of each course. (which includes group and individual work, tests and presentations, etc.)
Individual and group project work	As indicated in the course specification
Quizzes	For all courses except for project
Home work	For all courses except for project







الثلقور تسته لاييم ñ وزارة التعليم العلولي والبحث العلمي مجلس الأعتماد الأكاديمي وضمان الجودة جامعة العلوم الحديثة كلية الصيدلة

Alignment of Program Intended Learning Outcomes (PILOs) to Teaching Strate-14. gies and Assessment Methods:

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PILOs	Teaching Strategy	Assessment Methods
Knowledge and Understanding	•Active lecture	•Written tests (mid and final terms)
A1 -A12	•Tutorial	• Quiz
	•Seminars	•Assignment
	•Feed-back learning	
	•Problem-based learning	
Intellectual Skills	•Active lecture	•Written tests (mid and final terms)
B1-B9	•Problem-based learning	• Quiz
	•Video clips	• Final practical exam.
	•Tutorial	• Lab. accomplishments
	•Laboratory practice	•Seminar assessment
	•Feed-back learning	•Assignment assessment
	•Group project	
Professional & practical skills	•Active lecture	•Written tests (mid and final terms)
C1-C7	•Tutorial	• Quiz
	•Demonstrations	• Final practical exam.
	•Seminars	• Lab. accomplishments
	•Laboratory practice	•Seminar assessment
	•Feed-back learning	•Assignment assessment
	•Group project	•Attitude assessment
		•Field-training assessment
General & Transferable Skills	•Tutorial	•Lab. accomplishments
D1- D5	•Seminars	•Attitude assessment
	•Laboratory practice	 Field-training assessment
	•Feed-back learning	
	•Group project	







بطهن وزارة التعليم العالي والبحث العلمي مجلس الأعتماد الأكاديمي وضمان الجودة جامعة العلوم الحديثة كلية الصيدلة

15. Training Course Assessment:

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The training course will be assessed through:

• In Details see the training guide

16. Graduation Project Assessment:

Each project will be assessed as follows:

ltem	Marks Distribution
Research project supervisor	70
Internal examiner: a member of the Faculty teaching staff.	15
External examiner: a qualified external examiner (either from other Facultys of the faculty or from another uni- versity)	15
Total	100

17.Intended Learning Outcomes Mapping:

See below Annexes.

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18. Distribution of Total Credit Hours:

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Level	Term	Univer Requirer		Faculty R mer		Faculty/ * Require		Traiı	ning	Proj	ect	Total C	r. Hrs.	Total Cr. Hrs./ Level
		No. of Courses	Credit Hours	No. of Courses	Credit Hours	No. of Courses	Credit Hours	No. of Courses	Credit Hours	No. of Courses	Credit Hours	No. of Courses	Credit Hours	
_	First	2	4	5	12	-	-	-	-	-	-	7	16	
First	Second	1	2	4	9	3	8	-	-	-	-	8	18	34
C	First	-	-	2	4	3	12	-	-	-	-	6	18	36
Second	Second	-	-	2	5	3	13	-	-	-	-	6	18	36
Third	First	-	-	2	6	4	11	-	-	-	-	6	17	34
Inira	Second	-	-	3	7	3	9	-	-	-	-	6	17	54
Fourth	First	-	-	1	2	6	14	-	-	-	-	7	16	32
Fourth	Second	-	-	1	2	5	14	-	-	-	-	6	16	
Fifth	First	-	-	-	-	7	18	1	3	-	-	7	18	24
Fifth	Second	1	2	1	4	4	10	1	3	1	4	6	16	34
То	tal:	4	8	21	51	38	109	2	6**	1	4	65	170	170
Perce	ntage:	4.7	%	30	%	64.:	1%	3.	.5	2.	4			

*: Program requirements and Faculty requirements are the same.

**:25 hrs. /week for 26 weeks: 650 contact hrs.







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19. Admission Requirements:

1.Admissions to the program shall be made as per the admission rules set by the Ministry of Higher Education and Scientific Research as well as University of Modern Sciences admission guidelines (hyperlink)

2.General Secondary school certificate (Science Section) or any equivalent certificate with grade as specified in the admission rules made by Ministry of Higher Education and Scientific Research.

3.Pass the personal interview .

20.Attendance and Graduation Requirements:

1.Student attendance should not be less than 75% in each course.

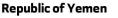
2. Student will graduate after successfully passing all program requirements.

3.Total credit hours for the program are 180 credit hours.

4. Minimum score for any student to pass a program course is 50 % of marks.

21. Grading System:

From 90% to 100% from total marks	Excellent
From 80% to 89%	Very Good
From 70 % to 79%	Good
From 50 % to 69 %	Pass
Less than 50 %	Poor/Fail







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22.Facilities Required for Running the Program:

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- 1. Sufficient Classrooms furnished with all necessary pieces and equipment.
- 2.Labs as per the course's specifications.
- 3.Computer Labs.
- 4. Academic and administrative staff offices.

23.Program Assessment:						
	Type of the Sample who Assess the program	Instruments used	Sample			
1	Final year assessment	Competency based assessment	All Students			
2	External examiner evaluation	Performance based assessment of practical skills,	10% of total students			
3	Graduated student evaluation	Competency based assessment	All students by Medical Council			
4	External evaluator	Performance based assessment of practical skills,	10 % of total students			
5	Criteria of the Council for Accreditation and Quality Assurance in Yemen	Qualifying exam	-			

24.Internal and external training to satisfy program standards:

-Internally :- training in well equipped labs

-Externally :-Training in pharmaceutical work fields involving community pharmacies, hospitals and pharmaceutical manufacturing plants

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الطهوريت لليمنت

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	25. Program Policies:							
Bas	sed 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 class, the student will be initially notified. If he repeated lateness in attending class he/she will be con- sidered as absent.							
3.	(Exam Attendance/Punctuality): 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): 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.							

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ANNEX-1, SURVEY ON THE STRATEGIC ORIENTATION OF THE DEARTMENT AND SIMILAR FACULTYS, AND THEIR ALIGNMENT TO THE STRATEGIC ORIENTATION OF THE UNIVERSITY AND FACULTY:

1- Vision of the Corresponding Facultys and Suggested Vision:

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No	The Faculty	Vision
1.	Pharmacy	كلية متميزة ورائدة محلياً واقليمياً في العلوم الصيدلانية والبحوث التطبيقية. A distinguished and pioneering Faculty locally and regionally in health and medical sciences and applied research.

2- Mapping of faculty Vision to the University Vision:

University Vision	Faculty Vision
التميز والريادة محلياً وإقليميا، في الخدمات التعليمية ومخرجات التعليم وخدمة المجتمع وتنميته	التميز والريادة في التعليم والبحث العلمي الصيدلاني محليا و اقليميا
A world leading and distinguished university in building a knowledge society, concerned with various sciences, in its multiple fields, to serve and develop humanity.	ce and leadership locally and regionally in pharmacy education and research

3-Mission of the Corresponding Faculties and Suggested Mission:

No.	The Faculty	Mission
1.	Pharmacy	تسعى كلية الصيدلة بجامعة العلوم الحديثة إلى تأهيل كادر متخصص وقادر على مزاولة الصيدلة بكفاءة مما يسهم في جودة القطاع الطبي والصحي وتنمية المجتمع وتلبية احتياجاته. Faculty of pharmacy at the University of Modern Sciences seeks to prepare distinguished doctors who are capable of innovation and creativity in preparing distinguished high-quality research and applied studies, through efficient
		academic staff and modern educational programs to contribute to the quality of the medical and health sector, com- munity development and meeting its needs.







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4-Objectives (Educational) of the Corresponding Facultys and Suggested Objectives:

No	The Faculty	Objectives	الأهداف
1.	Pharmacy	 Preparing competent pharmacists who are capable to provide various pharmacy services and are supplied with the standardized relevant knowledge, professional skills and ethical values to meet the needs of the labor market. Enhancing and creating the necessary educational environment by Updating the academic pharmacy curricula and learning sourc- es to support the educational process and raise the efficiency of the college's competitive position. Supporting quality enhancement processes in the college's ed- ucational system and upgrading its programs in accordance with academic accreditation standards. Conducting and developing Pharmacy research to solve health-related problems in the community. Strengthening the college's role in transferring medical and health knowledge and skills to serve the community. Participating in advancing pharmaceutical industry in Yemen. Developing the capabilities of scientific research and innovation in all pharmacy fields. 	 1 - إعـداد صيادلـة مؤهليـن وقـادر علـى تقديـم الخدمـات الصيدلانيـة المختلفـة ويمتلكـون المعـارف المتخصصة والمعـارات المهنيـة والقيـم الأخلاقيـة. بمـا يلبـي احتياجـات سـوق العمـل. 2- تعزيـز وتهيئـة البيئـة التعليميـة اللازمـة لدعـم العمليـة التعليميـة مـن خـلال تطويـر المناهـچ الدراسـية الصيدلانيـة ورفـع كفـاءة الوضـع التنافسـي للكليـة التنافسي للكليـة التعليمي بالكلية والارتقاء ببرامجها وفق معايير د دعـم عمليـات تعزيـز الجـودة في النظـام التعليمي بالكلية والارتقاء ببرامجها وفق معايير 4- إجراء البحوث الصيدلانية وتطويرها بما يسهم الاعتمـاد الأكاديمـي. 4- إجراء البحوث الصيدلانية وتطويرها بما يسهم وفي حل المشاكل الصحية في المجتمع. 5- تعزيز دور الكلية في نقـل المعرفة والمهـارات في حل المشاكل الصحية في المجتمع. 6- المسـاهمة فـي تطويـر الصناعـة الدوائيـة فـي اليمـن. 7- تطويـر قـدرات البحـث العلمي والابتـكار فـي كافـة المجـالات الصيدلانيـة

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لثظهور

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5-Mapping of Faculty Objectives to the University and Faculty Objectives:

University Objectives	Faculty Objectives
للمختلفة بما يلي ؛ احتياجات سوق العمل. المختلفة بما يلي ؛ احتياجات سوق العمل. 1. Providing students with specialized and distinguished study op- portunities in various fields of knowledge to meet the needs of; labor market needs. 2. Fiedu Huitu Button and the specialized and fistinguished study op- portunities in various fields of knowledge to meet the needs of; labor market needs. 2. Providing the necessary infrastructure to support the educational process, and raising the efficiency of student awareness to give stu- dents opportunities to realize their abilities and capabilities. 4. Providing quality enhancement processes in the university's educational system, and upgrading its programs; To obtain academic accreditation. 3. Supporting quality enhancement processes in the university's educational system, and upgrading its programs; To obtain academic accreditation. 4. Enhancing the role of the university in applying knowledge and skills; To serve the community by developing local, regional and international partnerships. 5. Preparing graduates who are leaders and pioneers in their special- izations by developing and supporting innovation in teaching and learning, and offering qualitative and advanced academic programs. 6. Enhancing telleutic university applying knowledge and skills; To serve the community by developing local, regional and international partnerships. 5. Preparing graduates who are leaders and pioneers in their special- izations by developing and supporting innovation in teaching and learning, and offering qualitative and advanced academic programs. 6. Enhancing education and e-learning, developing educational methods and means, and paying attention to educational technolo- gy resources. 7. Developing the capabilities of scientific research and innovation in all modern fields. 8. Supporting field, and a supporting innovation in teaching and methods and means, and paying attention to educational technolo- gy resources. 8. Tady, equificial cand indernatica eriging innovation in te	Faculty Objectives 1. Pracing all construction of the standing distinguished academic programs. 1. Providing distinguished academic programs. 4. Prevaring competent pharmacists who are capable to provide various pharmacy services and are supplied with the standardized relevant knowledge, professional skills and ethical values to meet the needs of the labor market. 4. Preparing competent pharmacists who are capable to provide various pharmacy services and are supplied with the standardized relevant knowledge, professional skills and ethical values to meet the needs of the labor market. 3. Preparing competent pharmacist swho are capable to provide various pharmacy services and are supplied with the standardized relevant knowledge, professional skills and ethical values to meet the needs of the labor market. 3. Enhancing and creating the necessary educational environment by Updating the academic pharmacy curricula and learning sources to support the educational process and raise the efficiency of the college's competitive position. 4. Supporting quality enhancement processes in the college's educational system and upgrading its programs in accordance with academic accreditation standards. 5. Onducting and developing Pharmacy research to solve health-related problems in the community. 6. Strengthening the college's role in transferring medical and health knowledge and skills to serve the community. 7. Intuniana si and ack si la construction in and skills to serve the community. 8. Taggi čacin linkacing pharmaceutical industry in Yemen. 8. Tadegi čacing in advancing pharmaceutical in
8.Strengthening the university's role in serving the community and achieving comprehensive development programs.	





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• • •	جلس الأعتماد الأكاديمي وضمان الجودة

ANNEX- 2, ACADEMIC STANDARDS CURRICULUM CRITERIA OF ACCREDITATION BOARD

1- Regulations (level 1) of the council for accreditation and quality assurance - Ministry of Higher education & scientific research, Yemen.

2- NARS, National academic reference standards for pharmacy, the council for accreditation and quality assurance - Ministry of Higher education & scientific research, Yemen, 2018.

3- AFPC Educational Outcomes for First Professional Degree Programs in Pharmacy in Canada, The Association of Faculties of Pharmacy of Canada's Board of Directors 2017

4- National Academic Reference Standards Pharmacy Education, National Authority for Quality Assurance and Accreditation of Education, Egypt, 2017







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ANNEX- 3, UNIFIED REGULATIONS FOR STUDENT AFFAIRS, MINISTRY OF HIGHER EDUCATION AND SCIENTIFIC RESEARCH

Attached separately

Republic of Yemen Ministry of Higher Education & Scientific Research Council for Accreditation & Quality Assurance University of Modern Sciences FACULTY of pharmacy

ANNEX- 4, SURVEY OF SIMILAR ACCREDITED PROGRAMS AT NATIONAL AND INTERNATIONAL UNIVER-SITIES (BENCHMARKS)

Program No.	The Academic Program	The University	Website	The Faculty	The Faculty	The Country	Degree Award at Program Com- pletion	Year of Accredita- tion	Program Accrediting Body	Study Duration
Current Program	Bachelor of Pharmacy	Modern sciences university	www.ums-edu.com	Medical sciences	Faculty of Pharmacy	Yemen	Bachelor	-	-	5 years
The 1st Program	Bachelor of Pharmacy	Jordanian University of science & technology	https://www.just.edu.jo/FacultiesandFacul- tys/FacultyofPharmacy/Documents/Bsc%20 2019%20Arabic.pdf https://www.just.edu.jo/FacultiesandFacultys/ FacultyofPharmacy/Pages/viewplan.aspx?plan- no=455	Pharmacy	Pharmacy	Jordan	Bachelor	2011	Accreditation. Council for Pharmacy. Education. (ACPE)	5 years
The 2nd Program	Bachelor of Pharmacy	Cairo university	https://www.pharma.cu.edu.eg/english/ AcademicPrograms/UgPrograms/Regular/ UgCourses.aspx https://www.pharma.cu.edu.eg/English/About- Faculty/MissionStatment.aspx	Pharmacy	Pharmacy	Egypt	Bachelor	2012	National. authority. of quality. assurance and. accreditation	5 years
The 3rd Program	Bachelor of Pharmacy	Zarqa Uni- versity	https://zu.edu.jo/ar/Collage/Pharmacology/ Dept_Pharmacology/files/plan9details.pdf https://zu.edu.jo/en/Collage/Pharmacology/ VisionAndMission.aspx?id=26	Pharmacy	Pharmacy	Jordan	Bachelor	2012	Accreditation & Quality Assurance Comission For Higher Edica- tion Institution (AQACHEI)	5 years
The 4th Program	Bachelor of Pharmacy	Jouf university	https://www.ju.edu.sa/fileadmin/College_of_ Pharmacy/B.Pharm_Program_guide.pdf https://www.ju.edu.sa/en/colleges/health-col- lege/college-of-pharmacy/home/	Pharmacy	Pharmacy	Saudi Arabia	Bachelor		Ministry of Higher edu- cation, Saudi Arabia	5 years
The 5th Program	Bachelor of Pharmacy	Al-Ain Uni- versity	https://pharmacy.aau.ac.ae/en/programs/bache_ lor-of-science-in-pharmacy	Pharmacy	Pharmacy	Emirates	Bachelor	2013-2014	ACPE (Accred- itation Council of Pharmacy Education)	4.5 years
The 6th program	Bachelor of Pharmacy	Nitte	https://nitte.edu.in/ngsmips/img/pdf/ BPharm-Regulation-&-Syllabus.pdf	Pharmacy	Pharmacy	India	Bachelor	2013	National Board of Accredita- tion (NBA)	4 years
The 7th program	Bachelor of Pharmacy	University of science & technology, Yemen	HTTPS://UST.EDU/USTY/AR/COMPONENT/K2/ ITEM/1895-2016-05-04-13-13-51	Pharmacy	Pharmacy	Yemen	Bachelor	-	-	5 Years



む وزارة التعليم العالي والبحث العلمي مجلس الأعتماد الأكاديمي وضمان الجودة جامعة العلوم الحديثة كلية الصيدلة

ANNEX- 5, SURVEY ON MISSION AND OBJECTIVES OF THE PROGRAM AND SIMILAR ACCREDITED PROGRAMS AND ITS ALIGNMENT TO THE UNIVERSITY, FACULTY, AND FACULTY MISSIONS AND OBJECTIVES

1-Survey on Vision, Mission and Objectives of the Program and SimilarAccredited Programs

Republic of Yemen

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University	University of Modern Science, Yemen	Jordanian UST, Jordan	Cairo Univer- sity, Egypt	Zarqa Univer- sity, Jordan	Jouf univer- sity, Saudi arabia	Al-Ain universi- ty, Emirates	Nitte Univer- sity, India	University of UST, Yemen
Faculty	Pharmacy	Pharmacy	Pharmacy	Pharmacy	Pharmacy	Pharmacy	Pharmacy	Medical Science
Program	Bachelor of Pharmacy	Bachelor of Pharmacy	Bachelor of Pharmacy	Bachelor of Pharmacy	Bachelor of Pharmacy	Bachelor of Pharmacy	Bachelor of Pharmacy	Bachelor of Pharmacy
Country	Yemen	Jordan	Egypt	Jordan	Saudi Arabia	Emirates	India	Yemen

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a)Survey on Vision of the Program and Similar Accredited Programs

Jordanian UST, Jordan	Cairo University, Egypt	Zarqa University, Jordan	Jouf university, Saudi arabia	Al-Ain universi- ty, Emirates	Nitte Universi- ty, India	University of Modern Sci- ence, Yemen	University of Science & Technology
Providing pharmacy stu- dents with fulfilling learning experiences, conducting knowledge-producing research, and building firm societal ties, within an environment conducive to creativity, making efficient use of resources and forging fruitful partnerships. Faculty vision Achieving excellence in Pharmaceutical education and Pharmaceutical care.	Vision of the program is not defined <u>Faculty vision</u> The faculty of phar- macy -Cairo university maintains its national leadership and contin- ues its distinction in the field of pharmacy	Vision of the program is not defined Faculty vision Excellence in pharma- ceutical education, training and scientific research directed to develop pharmaceutical services dedicated to serving the patient and the community at the local, regional and international levels.	To be a frontier pro- gram in pharmacy education, scien- tific research and community service according to nation- al and international standards	Preparing outstanding, highly competent and motivated pharmacists, nutritionists and healthcare providers to meet the contemporary health care needs of the society, improve delivery of essential health- care services, ensure human health through optimization of using effective, safe and economic drug therapy and nutrition care to enhance health- care activities, es- pecially in areas of continued-educa- tion, services and researches. The college serves the students by offer- ing an educational program based on best pharmacy and healthcare practices, profes- sional practice experience and educational envi- ronment aligned with the needs of the society.	Vision of the pro- gram and faculty are not defined To build a humane society through excellence in education and healthcare	Excellence and leadership in pharmacy education and research	To prepare competent pharmacists capable of effective partic- ipation in differ- ent pharmacy domains locally, and internationally and life-long- self-learning through provid- ing advanced services in pharmaceutical education, research, and training.



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لَيْ هُوُرِيَّ لَلِمِنْتَ لَلِمِنْتَ لَمَ وَالرَحْتُ العلمي وزارة التعليم العالي والبحث العلمي مجلس الأعتماد الأكاديمي وضمان الجودة جامعة العلوم الحديثة كلية الصيدلة

b) Survey on Mission of the Program and Similar Accredited Programs

Current Pro- gram	Jordanian UST, Jordan	Cairo Univer- sity, Egypt	Zarqa Univer- sity, Jordan	Jouf univer- sity, Saudi Arabia	Al-Ain university, Emirates	Nitte Universi- ty, India	University of UST, Yemen
The Faculty of Pharmacy at the Universi- ty of Modern Sciences seeks to provide a distinguished educational en- vironment and modern aca- demic programs in conformity with academic standards to graduate phar- macists capable of practicing the profession in a manner that meets the needs of the labor market.	Mission of the pro- gram is not defined Faculty mission The prepa- ration of competitive efficient phar- macists through a distinct ac- ademic en- vironment, promising scientific research and pro- ductive community partner- ship.	Mission of the program is not de- fined Faculty mission We are com- mitted to qualify grad- uates who adhere to values and Ethics of the pharmacy profession. Graduates are able to compete locally and internation- ally via ac- ademic and professional programs that meet the market need by using advanced teaching strategies.	Mission of the program is not defined College Mis- sion Preparing pharma- cists with distinguished competence by adopting the highest standards in pharmaceuti- cal education and training and upgrad- ing scientific and applied pharmaceu- tical research directed to serving the patient and society at the local, regional and interna- tional levels	Qualifying competent pharmacists supplied with knowl- edge and fundamen- tal skills and ethics to practice various pharmacy fields and contribute scientific re- search and community services	The mission of the Bachelor of Science in Pharmacy (BSc. Pharm) program is to graduate outstand- ing, highly compe- tent and motivated pharmacists with advanced knowledge and understanding of pharmacy prac- tice; problem solving and transferable skills; ability to think independently to meet higher level expectations in the health care needs of the society, improve delivery of essential pharmacy services, ensure human health through optimization of using effective, safe and economic drug therapy and en- hance pharmaceutical care and pharmaceutical care	Mission of the faculty and program are not defined University mission To develop Nitte (Deemed to be Univer- sity) As a centre of excellence im- parting quality education, generating competent, skilled man- power to face the scientific and social challenges with a high degree of credibility, integrity, ethical stan- dards and social concern	To prepare compe- tent pharmacists capable of effective participation in different pharmacy domains locally, regionally, and inter- nationally and life- long self-learning through providing advanced services in pharmaceutical education, research, and training.

Ministry of Higher Education & Scientific Research Council for Accreditation & Quality Assurance University of Modern Sciences FACULTY of pharmacy





جامعــة العلــوم الحديثـــة University of Modern Sciences



لَنْمُوْرَبِّ لَا مِنْتَى لَ وزارة التعليم العالي والبحث العلمي مجلس الأعتماد الأكاديمي وضمان الجودة جامعة العلوم الحديثة كلية الصيدلة

c) Survey on Objectives of the Program and Similar Accredited Programs

Science, VemenJordanian US1. Preparing competent pharmacy services and are supplied with the standardized relevant knowledge, professional skills and ethical values. 2. Updating the academ- ic pharmacy curricula and learning sources to match with the work market.1. Graduating with significan maceutical cor and professional services to the munity and co and learning sources to match with the work market.3. Provide heal services to the munity and co and the health about the impute the pharmacy education and research. 4. Conducting and devel- oping Pharmacy research to solve health-related progress. 6. Participating in ad- vancing pharmaceutical industry in YemenJordanian US (Graduating with significan maceutical cor and professional asterices to the munity and the fast progress in pharmacy effective- ly in community services and progress.1. Graduating with significan maceutical about the impute the pharmacy is comprehensive care.6. Participating in ad- vancing pharmaceutical industry in Yemen1. Graduating with significan maceutical to solve health-related professional achice and progress.6. Participating in ad- vancing pharmaceutical industry in Yemen1. Graduating the pharmacy solve health-related professional stakeholders in developmic faculty and sta	Egypt g students The main aim of the undergradu ate program is the foster pharmac foster pharmac and provide ski and ethical pha e com- ontribute ath and e com- ontribute and provide ski and provide ski and ethical pha maceutical care This is achieved through develo a program with a pprogram with a sector st's role in ceutical, medic social, behavior management, ki	gram are not defined. Faculty Objectives In order to achieve the college's vision and mission, the college works to achieve the following goals: - Providing the local, regional and international market with pharmacists with scientific qualifica- tions and high profes- sional ethics. Develop pharmaceutical services	Saudi arabia 1. offering educational and training doses using sophisticated techniques to graduate highly qualified pharmacists. 2. educating students with fundamentals	, Emirates Provide students with a quality educational pro- gram which offers knowledge in phar- maceutical, bio- medical and clinical sciences Prepare pharmacists with pharmacy practice and pharmaceuti-	India To provide high quality pharma- ceutical education at all levels, to produce efficient pharmacists with enterprising and creative skills. -To organize	Yemen Design, develop and supply safe and effective medicines to patients; - Develo a mastery of the knowledge base in th basic, pharmaceutics and clinical sciences
pharmacists who are capable to provide various pharmacy services and are supplied with the standardized relevant knowledge, professional skills and ethical values.with significan maceutical cor and professional catching discorrespondence services to the to raising awan among the con- and the health about the impercational and research stakeholders in the com- munity.with significan maceutical cor and professional services to the to raising awan among the con- and the health about the impercational and research services in pharmacy education and research 4. Conducting and devel- origing Pharmacy research to solve health-related progress.with significan machenized techning effective- ly in community services and development and progress.with significan and contributing effective- ly in community services and development and development6. Participating in advancing pharmaceuticalwith significan to solve health-related progress.with significan to solve health-related progress.6. Participating in advancing pharmaceuticalmathematical to solve health-related progress.with significan to solve health-related progress.6. Participating in advancing pharmaceuticalmathematical technical significanceuticalwith significan technical significanceutical	nt phar- nalism the undergradu ate program is to foster pharmac n who can attain n who can attain n successful care and provide ski and provide ski ath and and ethical pha e com- maceutical care ontribute This is achieved areness through develo mmunity a program with h sector basic, pharma- s0* srote in ceutical, medic social, behavior maagement, f	gram are not defined. Faculty Objectives In order to achieve the college's vision and mission, the college works to achieve the following goals: - Providing the local, regional and international market with pharmacists with scientific qualifica- tions and high profes- sional ethics. Develop pharmaceutical services	educational and training doses using sophisticated techniques to graduate highly qualified pharmacists. 2- educating students with fundamentals	with a quality educational pro- gram which offers knowledge in phar- maceutical, bio- medical and clinical sciences Prepare pharmacists with pharmacy practice	quality pharma- ceutical education at all levels, to produce efficient pharmacists with enterprising and creative skills.	and supply safe and effective medicines to patients; - Develo a mastery of the knowledge base in th basic, pharmaceutics and clinical sciences
pable to provide various pharmacy services and are supplied with the standardized relevant knowledge, professional skills and ethical values. 2. Updating the academ- ic pharmacy curricula and learning sources to market.maceutical cor and professional s. Creativity in teaching, disco research a. Provide heal services to the munity and co to raising awai among the con and the health about the impi cational and research environment in the Fac- ulty to match the fast progress in pharmacy envoide health-related progress in the com- munity.maceutical cor and professional and market. and the health about the impi cational and research. 4. Conducting and devel- problems in the com- munity.maceutical comprehensive care. 4. Enhance into and devel- of Pharmacy w 5. Create an en ment that lead fessional achie faculty and sha a developma faculty and sha	ampetence ate program is to foster pharmace nalism foster pharmace n who can attain sovery and successful care and provide ski and ethical pharmace and ethical pharmace maceutical care ontribute This is achieved areness through develo aporgram with aporgram with h sector basic, pharma- ceutical, medic social, behavior management, k social, behavior	Faculty Objectives ists In order to achieve the college's vision and mission, the college works to achieve the following goals: r - Providing the local, regional and international market with pharmacists with scientific qualifications and high professional ethics. Develop pharmaceutical services	and training doses using sophisticated techniques to graduate highly qualified pharmacists. 2- educating students with fundamentals	educational pro- gram which offers knowledge in phar- maceutical, bio- medical and clinical sciences Prepare pharmacists with pharmacy practice	quality pharma- ceutical education at all levels, to produce efficient pharmacists with enterprising and creative skills.	effective medicines to patients; - Develo a mastery of the knowledge base in th basic, pharmaceutics and clinical sciences
pharmacy services and are supplied with the standardized relevant knowledge, professional skills and ethical values.and profession 2. Creativity in teaching, disco research2. Updating the academ- ic pharmacy curricula and learning sources to match with the work market.3. Provide heal services to the munity and co to raising awai among the con and the health about the impu- tcational and research environment in the Fac- ulty to match the fast progress in pharmacy education and research.and professional services to the munity and co to raising awai among the con and the health about the impu- the pharmacis comprehensive stakeholders in of Pharmacy weight S. Contributing effective- ly in community services and progress.and professional schester stakeholders in to solve health-related problems in the com- munity.5. Contributing effective- ly in community services and progress.and professional schester stakeholders in to solve health-related problems in the com- munity services and developma faculty and sta	nalism foster pharmac n who can attain overy and successful care and provide ski and provide ski and ethical pha e com- ontribute This is achieved areness through develo mmunity a program with h sector appropriate min portance of basic, pharma- st's role in ceutical, medic ve health social, behavior management, f	In order to achieve the college's vision and mission, the college works to achieve the following goals: - Providing the local, - regional and international market with pharmacists ping with scientific qualifica- tions and high profes- sional ethics. Develop pharmaceutical services	doses using sophisticated techniques to graduate highly qualified pharmacists. 2- educating students with fundamentals	gram which offers knowledge in phar- maceutical, bio- medical and clinical sciences Prepare pharmacists with pharmacy practice	ceutical education at all levels, to produce efficient pharmacists with enterprising and creative skills.	to patients; - Develo a mastery of the knowledge base in th basic, pharmaceutica and clinical sciences
are supplied with the standardized relevant knowledge, professional skills and ethical values. 2. Updating the academi- ic pharmacy curricula and learning sources to match with the work market. 3. Adapting the edu- cational and research environment in the Fac- progress in pharmacy education and research. 4. Conducting and devel- problems in the com- munity. 5. Contributing effective- ly in community services and progress. 6. Participating in ad- vancing pharmaceutical	n who can attain overy and successful care and provide ski and provide ski and ethical pha e com- ontribute This is achieved areness through develo mmunity a program with h sector appropriate min portance of st's role in ceutical, medic social, behavior management, f	a college's vision and mission, the college works to achieve the following goals: r - Providing the local, regional and international market with pharmacists ping with scientific qualifica- tions and high profes- sional ethics. Develop pharmaceutical services	sophisticated techniques to graduate highly qualified pharmacists. 2- educating students with fundamentals	knowledge in phar- maceutical, bio- medical and clinical sciences Prepare pharmacists with pharmacy practice	at all levels, to produce efficient pharmacists with enterprising and creative skills.	a mastery of the knowledge base in t basic, pharmaceutic and clinical sciences
standardized relevant knowledge, professional skills and ethical values. 2. Updating the academing ic pharmacy curricula and learning sources to match with the work market. 3. Adapting the edu- cational and research environment in the Fac- progress in pharmacy education and research. 4. Conducting and devel- oping Pharmacy research to solve health-related problems in the com- munity. 5. Corributing effective- ly in community services and progress. 6. Participating in ad- vancing pharmaceutical	overy and successful care and provide ski and provide ski and ethical pha maceutical care ontribute ontribute This is achieved This is achieved areness through develo mmunity a program with h sector appropriate min portance of sk's role in basic, pharma- ceutical, medic social, behavior management, k	er mission, the college works to achieve the following goals: - Providing the local, regional and international market with pharmacists ping with scientific qualifica- tions and high profes- sional ethics. Develop pharmaceutical services	techniques to graduate highly qualified pharmacists. 2- educating students with fundamentals	maceutical, bio- medical and clinical sciences Prepare pharmacists with pharmacy practice	produce efficient pharmacists with enterprising and creative skills.	knowledge base in t basic, pharmaceutic and clinical sciences
knowledge, professional skills and ethical values. 2. Updating the academ- ic pharmacy curricula and learning sources to match with the work market. 3. Adapting the edu- cational and research environment in the Fac- ulty to match the fast progress in pharmacy education and research. 4. Conducting and devel- oping Pharmacy research to solve health-related problems in the com- munity. 5. Contributing effective- ly in community services and progress. 6. Participating in ad- vancing pharmaceutical	and provide ski and ethical pha e com- ontribute arcness through develo aprogram with h sector st's role in ce health basic, pharma- ceutical, medic social, behavior management, f	to achieve the following goals: - Providing the local, regional and international market with pharmacists ping with scientific qualifica- tions and high profes- sional ethics. Develop pharmaceutical services	to graduate highly qualified pharmacists. 2- educating students with fundamentals	medical and clinical sciences Prepare pharmacists with pharmacy practice	pharmacists with enterprising and creative skills.	basic, pharmaceutic and clinical sciences
skills and ethical values. 2. Updating the academic pharmacy curricula and learning sources to match with the work market. 3. Adapting the educational and research environment in the Faculty to match the fast progress in pharmacy education and research. 4. Conducting and developing Pharmacy research enunity. 5. Contributing effective-ly in community services and progress. 6. Participating in advantage of the service of the services and pharmace with the the services and progress. 5. Participating in advantage of the services and pharmace with the services and progress. 6. Participating in advantage of the services and pharmace with the services and pharmace with the services and progress. 6. Participating in advantage of the services and pharmace with the services	alth and and ethical pha e com- maceutical care ontribute This is achieved areness through develo mmunity a program with h sector appropriate mix sortance of basic, pharma- st's role in ceutical, medic ye health social, behavior maagement, f fill	goals: - Providing the local, - regional and international market with pharmacists ping with scientific qualifica- tions and high profes- sional ethics. Develop pharmaceutical services	highly qualified pharmacists. 2- educating students with fundamentals	sciences Prepare pharmacists with pharmacy practice	enterprising and creative skills.	and clinical sciences
 Updating the academ- ic pharmacy curricula and learning sources to match with the work market. Adapting the edu- cational and research environment in the Fac- ulty to match the fast progress in pharmacy education and research. Conducting and devel- oping Pharmacy research to solve health-related problems in the com- munity. Contributing effective- ly in community services and progress. Participating in ad- vancing pharmaceutical Services to the munity and co to raising awar among the con and the health about the impu the pharmacis comprehensive care. And progress. Participating in ad- vancing pharmaceutical Services to the munity. 	e com- ontribute This is achieved areness through develo a program with a program with a program with a program with a propriate mit basic, pharma- st's role in ceutical, medic social, behavior management, f	 regional and international market with pharmacists with scientific qualifica- tions and high profes- sional ethics. Develop pharmaceutical services 	pharmacists. 2- educating students with fundamentals	pharmacists with pharmacy practice	creative skills.	
ic pharmacy curricula and learning sources to market. 3. Adapting the edu- cational and research environment in the Fac- ulty to match the fast progress in pharmacy education and research. 4. Conducting and devel- oping Pharmacy research to solve health-related problems in the com- munity. 5. Contributing effective- ly in community services and progress. 6. Participating in ad- vancing pharmaceutical ic pharmacy curricula munity and co to raising awau among the con and the health about the imput the pharmaciv care. Comprehensive care. 4. Enhance intri al cooperation ticipation and stakeholders in of Pharmacy w 5. Create an en ement that lead faculty and sta	ontribute This is achieved through develo a program with a sector appropriate min basic, pharma- st's role in ceutical, medic social, behavior management, k	an tions and high profes- sof sional ethics. Develop pharmaceutical services	2- educating students with fundamentals	pharmacy practice		essential to fulfill al
and learning sources to match with the work market. 3. Adapting the edu- cational and research environment in the Fac- ulty to match the fast progress in pharmacy education and research. 4. Conducting and devel- oping Pharmacy research to solve health-related problems in the com- munity. 5. Contributing effective- ly in community services and progress. 6. Participating in ad- vancing pharmaceutical	through develo mmunity a program with appropriate min bortance of basic, pharma- st's role in ceutical, medic ye health social, behavior management, k	with scientific qualifica- tions and high profes- sional ethics. Develop pharmaceutical services	students with fundamentals		 LO ORGANIZE 	the roles as health
match with the work market. a. Adapting the edu- cational and research environment in the Fac- ulty to match the fast progress in pharmacy education and research. 4. Conducting and devel- problems in the com- munity. 5. Contributing effective- y in community services and progress. 5. Participating in ad- vancing pharmaceutical among the con and the health about the impu- the pharmacis comprehensive care. 4. Enhance into al cooperation ticipation and stakeholders in of Pharmacy w 5. Create an en ment that lead fessional achie and developmu faculty and sta	mmunity a program with h sector appropriate min bortance of basic, pharma- ceutical, medic social, behavior management, k	an tions and high profes- sional ethics. Develop pharmaceutical services	fundamentals		continuing educa-	care providers; -
market. and the health about the impu- the pharmacisis comprehensive cational and research environment in the Fac- progress in pharmacy education and research. 4. Conducting and devel- oping Pharmacy research. 4. Conducting and devel- oping Pharmacy research 5. Corributing effective- ly in community services and progress. 6. Participating in ad- vancing pharmaceutical	h sector appropriate min bortance of basic, pharma- ceutical, medic social, behavior management, k	s of sional ethics. Develop pharmaceutical services		cal industry skills	tional programmes	Demonstrate skills
3. Adapting the edu- cational and research about the impu- the pharmacis anvironment in the Fac- progress in pharmacy comprehensive care. ducation and research. 4. Enhance into al cooperation 4. Conducting and devel- oping Pharmacy research di cooperation 4. Conducting and devel- oping Pharmacy research stakeholders in stakeholders in munity. 5. Contributing effective- iy in community services and progress. and development faculty and stakeholders	bortance of basic, pharma- st's role in ceutical, medic social, behavior management, h	pharmaceutical services	of continuous	that ensure compe-	•To impart the	in the professional,
cational and research environment in the Fac- ulty to match the fast progress in pharmacy education and research. 4. Conducting and devel- oping Pharmacy research to solve health-related problems in the com- munity. 5. Contributing effective- ly in community services and progress. 6. Participating in ad- vancing pharmaceutical	st's role in ceutical, medic re health social, behavior management, h	and participate in health	self-learning	tency and supe-	concept of better	social, and behavior
anvironment in the Fac- ulty to match the fast progress in pharmacy education and research. 4. Conducting and devel- oping Pharmacy research to solve health-related problems in the com- munity. 5. Contributing effective- y in community services and progress. 5. Participating in ad- vancing pharmaceutical	ve health social, behavior management, h	Al,	, professional	riority Prepare	patient health	aspects of pharmac
alty to match the fast progress in pharmacy education and research.care.4. Conducting and devel- oping Pharmacy research to solve health-related problems in the com- munity.4. Enhance into al cooperation ticipation and stakeholders in of Pharmacy w problems in the com- munity.5. Contributing effective- y in community services and progress.5. Participating in ad- vancing pharmaceutical	management, h	activities in a way that	ethics and	pharmacists with	care	including communic
A. Conducting and developing Pharmacy research. 4. Conducting and developing Pharmacy research to solve health-related problems in the community. 5. Contributing effective- yin community services and progress. 5. Participating in ad-vancing pharmaceutical 4. Enhance inte al cooperation ticipation and stakeholders in of Pharmacy w 5. Create an en ment that lead fessional achie and development faculty and sta		ealth contributes to improving	teamwork	professional skills	 Should be capa- 	tion skills; - Illustrat
aducation and research. 4. Conducting and devel- poing Pharmacy research to solve health-related problems in the com- munity. 5. Contributing effective- y in community services 5. Participating in ad- vancing pharmaceutical al cooperation ticipation and stakeholders in of Pharmacy w 5. Create an en ment that lead fessional achie and developmu faculty and sta	ternation- and environme	health care in Jordan.	3- Establish-	that optimize inter-	ble of functioning	the integration of
4. Conducting and devel- problems in the com- munity. 5. Contributing effective- y in community services and progress. 5. Participating in ad- vancing pharmaceutical		•-Encouraging faculty	ing research	action with health	independently in	knowledge and skill
opping Pharmacy research to solve health-related problems in the com- munity. stakcholders in of Pharmacy w 5. Contributing effective- y in community services and progress. ment that lead fessional achie and developme faculty and state 5. Participating in ad- vancing pharmaceutical addevelopme		members to conduct	environment	care providers,	both rural and ur-	in the optimiza-
or solve health-related problems in the com- munity. 5. Contributing effective- y in community services and progress. 5. Participating in ad- vancing pharmaceutical		innovitive scientine und	suitable to	patients and soci-	ban environment.	tion of medication
problems in the com- munity. 5. Contributing effective- ly in community services and progress. 5. Participating in ad- vancing pharmaceutical			encourage and	ety Prepare phar-	•To develop effec-	management and
munity. ment that lead 5. Contributing effective- fessional achie y in community services and development and progress. faculty and state 5. Participating in ad- randing pharmaceutical			support re-	macists capable	tive interaction	use for a wide range
5. Contributing effective y in community services and progress. 5. Participating in ad- vancing pharmaceutical	-		search programs	of understanding	with fellow health	of people, including
y in community services and development and progress. faculty and star 5. Participating in ad- vancing pharmaceutical			in accordance	the most advanced	care profession-	evidence-based de-
and progress. faculty and sta 5. Participating in ad- vancing pharmaceutical	-	convice at the local	with strategic	technologies	als in hospitals,	cision making skills
5. Participating in ad- vancing pharmaceutical	-	regional and international	plans of the	j	community and	Acquire the skills ar
vancing pharmaceutical	tals, pharmace	itical	university and		industry of newer	attitudes necessary
	firms, pharma-	- Providing students with	community		developments in	for a commitment t
	ceutical Indust	the skills that enable them	needs.		Pharmacy.	independent learnir
	companies as v	to pursue men ingner	4- Preparing		•To be a part of	including skills to
	as, academic a		graduates with		all national and	retrieve, critically
	research institu	· · · · · · · · · · · · · · · · · · ·	leadership		international	appraise, dissemi-
		ing continuing pharmacy	skills to deliver		sponsored health	nate, and apply new
		education programs and	healthcare		education pro-	knowledge - Develo
		expanding professional	services.		grams.	thorough understan
		interaction with phar-			•To educate the	ing of law and ethics
		macists.			students in the	relating to pharmac
		-Developing the			management of	practice
		pharmaceutical training			disease preven-	
		process through contin-			tion measures,	
		uous improvement and			community hy-	
		updating of curricula and study programs.			giene and better	
		- Preparing and training			health.	
		faculty members to carry			•To inculcate	
		out their educational and			critical thinking,	
		research tasks.			clarity of expres-	
		- Developing the capabil-			sion, independent	
		ities of the administrative			thinking and	
		staff and the college staff.			-	
		Communicate with grad-			scientific temper-	
		uates and meet the needs			ament.	1
		of the local market with				1
	1	pharmaceutical services.				1
		Supporting the pharma-				1
		ceutical delivery quality				1
		management system. Supporting extracur-				1
		Supporting extractin-				1
						1
		ricular activities to	1			1
		ricular activities to build a distinct student				1
		ricular activities to			1	1
		ricular activities to build a distinct student				l
		ricular activities to build a distinct student				
		ricular activities to build a distinct student				
		ricular activities to build a distinct student				



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ANNEX- 6, ALIGNMENT OF PROGRAM INTENDED LEARNING OUTCOMES (PILOS) TO THE FACULTY OBJECTIVE

	Faculty Objectives								
Program PILOs	DObj1	DObj2	DObj3	DObj4	DObj5	DObj6			
A1	√								
A2	√								
A3	√					\checkmark			
A4	√								
A5	√								
A6	√								
A7	√								
A8	√								
Α9	√	√		√					
A10	√				√	√			
A11	√					√			
A12	√			√					
B1				√					
B2				√					
B3		√		√					
B4				√		√			
B5				√					
B6				√					
B7				√					
B8				√					
B9				√					
C1			√						
C2			√			√			
C3			√			√			
C4			√						
C5			√	<u> </u>		√			
C6		√	√						
C7			√	√					
D1					√				
D2					√				
D3					√				
D3					√	√			
D4 D5					√				





فتعهو

ANNEX-7, ALIGNMENT OF PROGRAM INTENDED LEARNING OUTCOMES (PILOS) TO PROGRAM OBJECTIVES (POS)

Program Objectives								
PObj1	PObj2	PObj3	PObj4	PObj5	PObj6			
√								
√								
√					√			
√								
√								
√								
√								
√								
√	√		\checkmark					
√				√	√			
√					√			
√			\checkmark					
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	√		√					
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			√					
	√ √	√ √	PObj1 PObj2 PObj3 √ √ √ √ √ √ √ √ √ √ √ √ √ √ √ √ √ √ √ √ √ √ √ √ √ √ √ √ √ √ √ √ √ √ √ </td <td>PObj1 PObj2 PObj3 PObj4 \checkmark . . . \checkmark . . .</td> <td>PObj1 PObj2 PObj3 PObj4 PObj5 \checkmark \checkmark \checkmark \checkmark </td>	PObj1 PObj2 PObj3 PObj4 \checkmark . . .	PObj1 PObj2 PObj3 PObj4 PObj5 \checkmark \checkmark \checkmark			



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جامعـة العلــوم الحديثــة University of Modern Sciences



لَيْ هُوُرِيَّ ﴾ (لَّعِنْتَ ﴾ وزارة التعليم العالي والبحث العلمي مجلس الأعتماد الأكاديمي وضمان الجودة جامعة العلوم الحديثة كلية الصيدلة

ANNEX- 8, MAPPING OF PROGRAM INTENDED LEARNING OUTCOMES (PILOS) TO THE FACULTY OBJECTIVES (FOS):

	Faculty Objectives								
Program PILOs	FObj1	FObj2	FObj3	FObj4	FObj5				
A1	√								
A2	√								
A3	√								
A4	√								
A5	√								
A6	√								
A7	√								
A8	√								
A9	√	√		√					
A10	√				\checkmark				
A11	√								
A12	√			\checkmark					
B1				\checkmark					
B2				\checkmark					
B3		√		\checkmark					
B4				\checkmark					
B5				\checkmark					
B6				\checkmark					
B7				\checkmark					
B8				\checkmark					
B9				\checkmark					
C1			√						
C2			√						
C3			√						
C4			√						
C5			√						
C6		√	√						
С7			√	\checkmark					
D1					\checkmark				
D2					\checkmark				
D3					\checkmark				
D4					\checkmark				
D5					\checkmark				







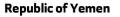


لطهني a وزارة التعليم العلولي والبحث العلمي مجلس الأعتماد الأكاديمي وضمان الجودة جامعة العلوم الحديثة كلية الصيدلة

ANNEX- 9, ALIGNMENT OF PRGRAM INTENED LEARNING OUTCOMES (PILOs) TO THE FACULTY OBJECTIVES

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	Faculty Objectives								
Program PILOs	DObj1	DObj2	DObj3	DObj4	DObj5	DObj6			
A1	√								
A2	V								
A3	V					\checkmark			
A4	V								
A5	V								
A6	V								
A7	\checkmark								
A8	√								
A9	V	√		√					
A10	\checkmark				V	\checkmark			
A11	\checkmark					\checkmark			
A12	√			√					
B1				√					
B2				√					
B3		√		√					
B4				√		\checkmark			
B5				√					
B6				√					
B7				√					
B8				√					
B9				√					



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		Faculty Objectives										
PILOs	DObj1	DObj2	DObj3	DObj4	DObj5	DObj6						
C1			√									
C2			√			V						
C3			√			√						
C4			√									
C5			√			√						
C6		√	√									
С7			√	√								
D1					\checkmark							
D2					√							
D3					V							
D4					√	√						
D5					\checkmark							









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ANNEX- 10, ALIGNMENT OF PROGRAM PILOS WITH COUNCIL OF ACCREDITATION AND OTHER STANDARDS Accreditation Body: National Academic Reference Standards (NARS), Yemen, May 2018

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Program PILOs	NARS (Yemen), ILOs for Pharmacy Bachelor Programs, 2018	NAR	S- Egypt,2017	AFPC, Canada, 2017		
A1, A2	The graduate attributes and		anding of knowledge of pharmaceu- avioral, administrative, and clinical			
A3,A5, A7, A10, A11	learning outcomes of this pro- gram are the same as those of NARS (Yemen), ILOs for					
A4, A6, A8, A12	Pharmacy Bachelor Programs	2-2-3 Recognize the principle and select the proper techni different materials and prod	x			
Program PILOs	NARS (Yemen), ILOs for Pharmacy Bachelor Programs, 2018	NARS- Egypt,2017	AFPC, Canada, 2017			
B1	The surdicity attack where and	1-1-6- Utilize scientific literature, and collect and interpret information to enhance professional decision.	CP2.1 Collect, interpret and assess re mation about a patient's health-relate	-		
B2,B3, B5, B6, B7	The graduate attributes and learning outcomes of this pro- gram are the same as those	x	x			
B4, B8, B9	of NARS (Yemen), ILOs for Pharmacy Bachelor Programs	2-5-2. Retrieve, interpret, and critically evaluate evidence-based informa- tion needed in pharmacy profession.	SC2.1 Generate focused questions related to needs for infor- mation, recommendations and decisions in practice.			

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Program PILOs	NARS (Yemen), ILOs for Pharmacy Bachelor Programs, 2018	NAR	S- Egypt,2017	AFPC, Canada, 2017
C1, C2		 2-3-1. Handle, identify, and dispose biologicals, synthetic/natural materi- als, biotechnology-based and radio-labeled prod- ucts, and other materials/ products used in pharma- ceutical field. 2-4-1 Ensure safe han- dling/use of poisons to avoid their harm to individ- uals and communities. 	х	
C3, C4	The graduate attributes and learning outcomes of this pro- gram are the same as those of NARS (Yemen), ILOs for Pharmacy Bachelor Programs	1-1-3 Integrate knowledge from fundamental sciences to handle, identify, extract, design, prepare, analyze, and assure quality of syn- thetic/natural pharmaceu- tical materials/products. 2-2-2 Apply the basic requirements of quality management system in developing, manufactur- ing, analyzing, storing, and distributing pharmaceu- tical materials/ products considering various incom- patibilities.	x	

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Program PILOs	NARS (Yemen), ILOs for Pharmacy Bachelor Programs, 2018	NARS- Egypt,2017	AFPC, Canada, 2017
C5, C6, C7	The graduate attributes and learning outcomes of this pro- gram are the same as those of NARS (Yemen), ILOs for Pharmacy Bachelor Programs	 3-2-2. Apply the principles of clinical pharmacology and pharmacovigilance for the rational use of medi- cines and medical devices 3-2-5. Educate and counsel patients, other health care professionals, and communities about safe and proper use of medicines including OTC preparations and medical devices. 3-2-6. Maintain public awareness on social health hazards of drug misuse and abuse. 	SC3.2 Apply ethical principles that underlie research and scholarly inquiry. PR 1.2 Use ethical frameworks as one component of profes- sional judgment. PR 1.3. Recognize and respond to situations presenting ethi- cal dilemmas, including conflicts of interest.
D1		4-2-1 Demonstrate effec- tive communication skills verbally, non-verbally, and in writing with profes- sional health care team, patients, and communities	CM1.1 Select and use oral, non-verbal and written communi- cation strategies (tools, techniques, technologies) effectively so that the patient's best
D2		4-1. Express leadership, time management, crit- ical thinking, problem solving, independent and team working, creativ- ity and entrepreneurial skills.	SC1.1 Use knowledge and problem-solving to arrive at recommendations and decisions that are appropriate, accurate and practical. SC1.2 Use professional ,experience to solve routine previously encountered .problems
D3		4-1-1. Demonstrate responsibility for team performance and peer evaluation of other team members, and express time management skills.	CM.2.4 In word and in action, convey the importance of teamwork in patient-centred care, patient safety, health care quality improvement and health program delivery. CL 1.2. Recognize, respect and negotiate the roles and shared/overlapping responsibilities of team .members
Program PILOs	NARS (Yemen), ILOs for Pharmacy Bachelor Programs, 2018	NARS- Egypt,2017	AFPC, Canada, 2017
D4, D5		2-1-2. Adopt ethics of health care and pharmacy profession respecting pa- tients' rights and valuing people diversity	CL 2.2. Recognize, respect and honour the negotiated shared and overlapping responsibilities of patients, pharmacy team members and other health team members when handovers occur. PR2.1 Take responsibility and accountability for actions and inactions.

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ANNEX- 11, SURVEY OF PILOS FOR SIMILAR ACCREDITED PROGRAMS AT NATIONAL AND INTERNATIONAL UNIVERSITIES

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University University Science, Yemen		Cairo University, Egypt	Zarqa Univer- sity, Jordan	Jouf university, Saudi A Arabia	Al-Ain universi- ty, Emirates	Nitte University, India	UST, Yemen
Program Intended Louitomes (PILOS)	A. During their five years of study, the students receive theoretical and practical knowledge through tak- ing courses offered by the three pharma- cy Facultys in topics related to drug deliv- ery, pharma- ceutics, and pharmacoki- netics among others.	 Knowledge The pharmacy graduate must demonstrate comprehensive knowledge and clear understanding of the core information associated with the profession as follows: II.3. Basic principles of physical, organic, inorganic and analytical chem- istry, II.2. Basic principles of mathematics, computer sciences, and biophysics. II.3. Principles of social, behavioral and pharmacy management sciences. II.4. Principles of social, behavioral and pharmacy management sciences. II.5. Trypes of active and inactive ingredients used in the preparation of pharmaceutical products as well as their physical and chemical properties. II.6. Principles of biotechnology and radio-labelled products. II.7. Different analytical procedures taking into account GLP guidelines and different validation procedures II.8. Principles of isolation, purification, identification and standardization methods of active substances and primary chemicals from natural and synthetic origin. II.9. Principles of streeoisomerism, drug-receptor interaction using various techniques. II.10. Basics of streeoisomerism, drug-receptor interaction using various techniques. II.12. Fundamentals of clinical applications of targeted therapies II.3. Different types of pharmaceutical dosage forms. II.4. Properties and advantages of novel drug delivery systems II.5. Principles of equipment and techniques used in different stages of pharmaceutical industry including synthesis, and distribution of pharmaceutical compounds. II.6. Unit operation and unit processes; sampling, packaging, labelling and proper storage of pharmaceutical compounds from different torigns. II.7. Basics of phayisolgy and pathophysiology. II.8. Principles of sterilization and microbiological quality control of pharmaceutical products. II.9. Principles of	- Domain 1. Knowledge -1.1. Learner (Learner): Develop, integrate, and apply knowl- edge from the foundational sciences to evaluate the scientific liter- ature, explain drug action, understand formulations, and industrial technologies.	Not defined	Standard Knowledge (A) Demonstrate knowledge and ability to integrate and apply basic concepts and principles of bio- medical sciences, clinical sciences and social and behavioral sciences re- quired for drug discovery, drug development, and pharmacy practice con- text, to promote population health and pa- tient centered care.	Acquire an in- depth knowledge of formulation, storage and analysis of various pharma- ceutical dosage forms including herbal medicines required for both large scale commercial production and research. - Acquire ade- quate knowledge about screening of drugs for sev- logical activities and understand the mechanism of action of drugs.	-Display professional knowledge about pharmacy and pharma- cy Practice. -Creative and critical thinking abilities in Identifying and solving the specific drug man- ufacturing - related problems. -Apply of the essential and appropriate methods, procedures, and modern pharmacy resources in prepara- tion, evaluation and storage of pharmaceu- tical products. -Employ the relevant way of analysis, preparation, and de- termination of quality of medicines. -Handle the chemical, biological, and phar- maceutical materials safely, -Prepare, dispense and store medications legally, ethically and according to guidelines. -Use of recent infor- mation technologies and research skills in professional devel- opment and lifelong learning, -Cooperation with other healthcare providers, in providing high quality pharma- ceutical services. -Perform leadership, and necessary phar- macy administrative duties with teamwork, decision making, sales and marketing skills. Employ the planning, design and carrying out of pharmaceutical research investiga- tions.

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Current Program	Iniversity of Aodern Sci- nce, Yemen	Jordanian UST, Jordan	Cairo University, Egypt	Zarqa University, Jordan	Jouf university, Saudi arabia	Al-Ain univer- sity , Emirates	Nitte University, India	UST, Yemen
Program Intended learning outcomes (PILOs)	ntellectual B1-B9	Not defined	 IV.3. Implement GLP, GMP, GSP, GCP and GPMP guidelines in pharmacy practice. IV.4. Select appropriate tools or analytical method for the assay and quality control of raw materials and pharmaceutical products. IV.5. Select appropriate biological method for the assay of different drug classes. IV.6. Predict and prevent physical, chemical and biological incompatibili- ties during dispensing process. IV.7. Select suitable methods for isolation, identification and stan- dardization of active pharmaceutical substances. IV.8. Select suitable methods for syn- thesis, purification and identification of active pharmaceutical substances. IV.9. Apply mathematics, com- puter-aided facilities, biological databases and bio-informatics in drug design. IV.10. Apply molecular modelling techniques in drug design. IV.11. Utilize different tools to estimate the properties of biophar- maceutical natural pharmaceutical products. IV.12. Select different methods for infection control and improve public health. IV.13. Apply pharmacological and pharmacotherapeutic principles in the proper selection of drugs from dif- ferent sources for the management of different diseases. IV.14. Adjust the dose of different medication based on patient con- dition and select appropriate dose regimen. IV.15. Identify adverse drug reac- tions, interactions and contra-indi- cations of different pharmaceutical drug classes. IV.16. Apply the pharmacoconomics principles in maintaining drug effec- tiveness with reducing the drug. IV.17. Interpret and report on results obtained from experimental studies. IV.18. Evaluate data from published literature using critical analysis. IV.19. Apply evidence-based guide- lines, involving sciences, technology, psychology and professional princi- ples required in pharmacy practice. 	Domain 3 3.1. Problem Solving (Problem Solver): Identify problems; explore and prioritize potential strategies; and design, implement, and evaluate a viable solution.	Not defined	Standard 4: Self-develop- ment Describe, con- duct, interpret and appraise pharmaceutical and clinical re- search, ethics, principles and methodologies.	- Develop critical thinking, clarity of expression and scientific temperament.	

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University	University of Modern Science, Yemen	Jordanian UST, Jordan	Cairo University, Egypt	Zarqa University , Jordan	Jouf univer- sity, Saudi arabia	Al-Ain university , Emirates	Nitte University, India	UST, Yemen
Program Intended learning outcomes (PILOs)	Practical &Profes- sional C1-C7	B. Students are given the chance of practical training in community pharmacies for 8 consecutive weeks during which they get an idea of the different generics of medications available in the market C. The syndicate of pharmacy in Jordan requires students with bachelor of pharmacy to finish 1440 hours of training in community and outpatient pharmacies	 III.1. Proper use of international union of pure and applied chemistry (IUPAC) nomenclature as well as pharmaceutical and medical terminology. III.2. Handle chemicals and natural products according to safety guidelines. III.3. Dispose hazardous solvents in laboratories using safety measures. III.4. Demonstrate skills in compounding and dispensing pharmaceutical preparations for storing, handling and distribution of pharmaceutical preparations according to their nature and constitution as stated in the specified storage conditions. III.5. Apply adequate conditions for storing, handling and distribution of pharmaceutical preparations according to their nature and constitution as stated in the specified storage conditions. III.6. Extract and isolate active ingredients from different sources. III.7. Synthesize preliminary chemical substances and active constituents of different drug categories. III.9. Detect impurities in different pharmaceutical preparations and assess their limits. III.0. Estimate different active ingredients using various analytical tools and techniques. III.1. Select the appropriate medication therapy for a given disease and and storacy results. II.1.2. Evaluate the selected drug therapy based on the patient 's progress and laboratory results. II.3. Apply the appropriate techniques for qualitative assessment of microbial growth. II.3. Determine drug metabolites in biological samples. II.3. Determine drug metabolites of different antimicrobial agents in controlling microbial growth. II.3. Determine drug metabolites in biological samples. II.3. Determine drug metabolites in biological samples. II.3. Louse the patients and ther health mazards of drug abuse and missue. II.3. Determine drug metabolites in biological samples. II.3. Determine drug metabolites in biological samples. II.3. Apply the appropriate techardity as t	 2.1. Patient care (Caregiver): Provide patient care as the medication expert (collect and interpret evidence, prioritize, dispensing, patient counseling, and document activities). 2.2. Medication use systems management (Manager): Manage patient healthcare needs using human, financial, technological, and physical resources to optimize the safe- ty and efficacy of medication use systems. 2.5. Dosage forms and dispensing (Formulator): Design formulations and com- pounding dosage forms with dispensing competencies. 	Not de- fined	Standard 2: Skills Recognize and use pharmacy operational systems, appropriate distribution of prescription products and non-pre- scription products and care by collecting, relevant patient's education and coun- selling. Standard 2: Skill Provide pa- tient-cen- tered care by collecting, relevant patient so- cioeconomic and medical data; to asses, develop, mod other healthcare providers.	 Be capable of functioning independently in both rural and urban environment with adequate knowledge and skill in the area of health care. Able to educate the community about disease prevention measures, community hygiene and better health. 	

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Univer- sity	University of Modern Science, Yemen	Jordanian UST, Jordan	Cairo University, Egypt	Zarqa University, Jordan	Jouf uni- versity, Saudi arabia	Al-Ain univer- sity, Emirates	Nitte Uni- versity, India	UST, Yemen
Pro- gram In- tended learn- ing out- comes (PILOs)	General & Transfer- able D1-D5	E. Commu- nications skills are taught to students and enforced during their training in hospitals and community pharmacies F. Volun- teering in providing free pharmaceuti- cal services to local commu- nity is encour- aged which motivates communica- tion skills of students	 V.1. Communicate clearly by verbal means. V.2. Write report on the interpreted results of his/her research projects. V.3. Search the liter- ature from different sources including the library, internetetc. V.4. Evaluate the information ob- tained from different sources. V.5. Share and par- ticipate effectively in team work. V.6. Calculate and statistically analyze data. V.7. Demonstrate good information technology skills. V.8. Demonstrate self-learning skills. V.9. Be coherent with pharmaceutical eth- ical, legal and safety guidelines. V.10. Implement different skills required for sales, marketing and pharmacy admin- istration. V.11. Work effective- ly in a creative way within pre-deter- mined time frame. V.12. Develop different writing and presentation skills. V.13. Evaluate and make decision to deal with different problems. 	 3.4. Interprofessional collaboration (Collaborator): Actively participate and engage as a healthcare team member by demonstrating mutual respect, understanding, and values to meet patient care needs. 3.5. Cultural sensitivity (Includer): Recognize social determinants of health to diminish disparities and inequities in access to quality care. 3.6. Communication (Communicator): Effectively communicate verbally and nonverbally when interacting with an individual, group, or organization. 4.2. Leadership (Leader): Demonstrate responsibility for creating and achieving shared goals, regardless of position. 4.4. Professionalism (Professional): Exhibit behaviors and values that are consistent with the trust given by the profession by patients, other healthcare providers, and society. 			 Understand the role of pharmacist in health care system and develop skill to interact with other professionals. Able to educate the community about disease prevention measures, community hygiene and better health. 	



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ANNEX- 12, ALIGNMENT OF PROGRAM PILOS WITH COUNCIL OF ACCREDITATION AND NARS STANDARDS

Accreditation Body: National Academic Reference Standards (NARS), Yemen, Jun.2015

Program PILOs	NARS (Yemen), ILOs for Undergraduate Pharmacy Programs
A1	Show understanding of fundamentals of biomedical sciences, physics, mathematics and chemistry and organization of human body.
A2	Explain the fundamental of social and behavioral sciences.
A3	Explain physicochemical properties of materials and products.
A4	Describe analytical methods, principles, design and development techniques.
A5	Identify actions of medicines on human body.
A6	Explain the basis of complementary and alternative medicines.
A7	Identify types of poisons and mechanisms and actions of poisoning
A8	Describe Biopharmaceutics and pharmacokinetics of medicines.
A9	Define the basis of health policy, Pharmacoeconomics, pharmacoepidemology , pharmaceutical marketing and administration.
A10	Describe the pharmacists role in different pharmacy practices.
A11	Identify the properties of dosage forms and novel drug delivery systems.
A12	Describe the methods of biostatistics and pharmaceutical calculations
B1	Collect interpret and assess information and data relevant to pharmacy practice.
B2	Classify drugs, approaches and other information relevant to pharmacy based on scientific classification system
В3	Design an evaluate different types of safe and effective drugs , pharmaceutical dosage forms and cosmetic preparations
B4	Select appropriate standard operation procedures to conduct qualitative and quantitative analysis.
В5	Plan a modern system for administration of foundations and merge ethics to business in drug marketing.
B6	Develop and design suitable methods for extraction of active medicinal agents from various sources.
B7	Formulate and evaluate patient care plan about rational drug use of medications.
B8	Use appropriate research methods including experimental, observational and electronic to collect data and solve problems.
В9	Apply mathematical equations to calculate data relevant to pharmacy practices.
C1	Handle safely the chemicals, biological samples and pharmaceutical ingredients and products.
C2	Operate different instruments and use emerge technologies for preformulation, formulation and analysis of materials according to standard guidelines.
СЗ	Screen for drugs from different sources and carry out pharmacy relevant experiments successfully.
C4	Advice patients and healthcare professionals to optimize medicines use.
C5	Employ the relevant ways to produce extemporaneous preparations including TPN and IV admixtures.
C6	Utilize appropriate manual and automated techniques in Laboratory investigations.
С7	Conduct research and utilize the results in different pharmaceutical fields.
D1	Interact and communicate effectively and behave in disciplines with colleagues, patients and healthcare professionals effectively in team-activities.
D2	Develop and demonstrate skills of time managements, self-learning and decision making.
D3	Participate collaboratively in team work with colleagues and healthcare professionals.
D4	Take the responsibility for adaption to change needs in pharmacy practice.
D5	Retrieve essential references of evidence-based to achieve maximal clinical effectiveness

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Year	Term	Course Name	Course Code	сн				A. K	nowled	dge ar	nd un	derst	andin	g				r		B. Int	tellect	ual Sk	ills 1					с.	Practi	ical &	Profes	siona	l Skills		!	D. Trai	nsferra I	ble Skill
-	2		ode		A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	A11	A12	B1	B2	вз	В4	в5	в6	В7	в8	в9	C1	C2	СЗ	C4	C5	C6	c	7	D1	D2	D3	D4	D5
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		General Chemistry	FOP112	3	ı						T			T												ı												
		Arabic Language	UMS 01	2		ı																																
		Physics for Pharmacy	FOP 113	2	ı		I										I									ı												
		Medical English I	FOP 114	2		1																										T						
	1	Pharmacy Orientation	FOP 115	2	ı												I									ı												
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		Mathematics	FOP 121	2	ı						1			1			I															T						
		First Aid	FOP 122	2	ı																					ı						Ť						
		Physical Pharmacy	PHT 123	3			E																			E						Ι						
		Pharmaceutical Calculation	PHT 124	2												E									E					E								E
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1		Anatomy & Histology	FOP 126	2	ı												I									ı												
	2	Islamic Culture	UMS 03	2																																		
		Botany and medicinal plants	PHG127	3	E					E												E							E						E			E





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			ç														—		Prog	ram In	tende	d Lea	rning	Outcor	nes (P	ILOs)												
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	-		ode		A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	A11	A12	B1	В2	вз	В4	В5	В6	В7	B8	в9	C1	C2	СЗ	C4	C5	C6	C7		D1	D2	D3	D4	D5
		Pharmaceutics I	PHT 211	з			E								Е				E						E		√								E			
		Pharmacy Public Health	FOP 212	2	Т																					Т								ı	I			
		Physiology (1)	FOP 213	3	Т												Т									Т								Т				
		Pharmaceutical Organic Chemistry) 1(PHC 214	з			E										E									E												E
		Pharmacognosy & Phyto- chemistry I	PHG215	4						Е												E							E						Е			E
2	1	Pharmaceutical Analytical Chemistry I	PHC 216	3				E									E										E							E				E
		Pharmaceutics II	PHT 221	3			E								E				E						E		√								Е			
		Physiology II	FOP 222	2	Т												ı									Т												
		Pharmaceutical Organic chemistry II	PHC 223	3			E										E									E												E
	2	Pharmacognosy & Phyto- chemistry II	PHG 224	4						E												E							E						E			E
		Pharmaceutical Analytical Chemistry II	PHC 225	3				E									E										E							E				E
		Biochemistry & Molecular Biology	FOP 226	3	I												ı									ı								ı			ı	ı

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الطمق ليتية لليمنت آ

وزارة التعليم العالي والبحث العلمي مجلس الأعتماد الأكاديمي وضمان الجودة جامعة العلوم الحديثة كلية الصيدلة

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Year	Term	Course Name	Course Code	СН				A. Kı	nowled	lge an	nd un	derst	andin	g						B. Int	tellec	tual Sl	cills					C . I	Practic	al & P	Professi	ional S	skills		D.	Trans	sferra	ble Skills
	3		ode		A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	A11	A12	B1	В2	в3	В4	В5	B6	B7	в8	в9	C1	C2	СЗ	C4	C5	C6	C7		D1	D2	D3	D4	D5
		Pharmaceutics III	PHT 311	3			E								E				E						E		√								E			
		Pharmacology I	PHL 312	3	Е				Е					E				Е					E	E						E								E
		General Microbiology	FOP 313	3	Т												Т									ı								I			Т	Т
		Metabolic Biochemistry	FOP 314	3	Е												E									E												E
	1	Pharmaceutical Drug discov- ery & development	PHT 315	2			E	E							E		E					E		E		E		E							E	E		E
		Dermatological & Cosmetic preparations	PHT 316	з	Е										E							E							E								E	E
		Pathology	FOP 321	3	Е												Е									E												E
		General Toxicology	PHL 322	3							E																											
		Biostatistics	FOP 323	2	ı												ı													ı							ı	Т
		Pharmacology II	PHL 324	3	E				Е					E				E					E	E						E								E
	2	Medicinal Chemistry I	PHC 325	3			Е											E										E										E
		Pharmaceutical Microbiology	FOP 326	3	E																					E								Е			Е	E
		Industrial pharmacy	PHT 411	2				E												E						E	E										E	E
		Pharmacology III	PHL 412	2	Е				Е					E				E					E	E						E								E
		Community Pharmacy I*	PHPP 413	3	Α				A					A				A					A	A						A				A	A	A	A	A
		Medicinal Chemistry II	PHC 414	3			E			4	_							E										E										E
		Biopharmaceutics & Pharma- cokinetics I	PHT 415	2								E											E		E					E								E
		Pathophysiology	FOP 416	2	E												E									E												E

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الطهن ريَّة الليمنيَّة

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Year	Term	Course Name	Course	сн				A. K	nowle	edge a	and un	nderst	andir	ng						B. Int	ellectu	ial Ski	lls					C .	Practic	al & P	Profess	ional s	skills		D	. Tran	sferra	ble Skills
3r	3		Code		A1	A2	AB	A4	AS	A6	A7	AB	A9	A10	A11	A12	B1	B2	в3	В4	B5	B6	B7	B8	B9	C1	C2	C3	C4	C5	С6	с7		01	D2	D3	D4	D5
		Pharmaceutical Biotech- nology	PHT 417	2											E					E							E								E			E
		Applied Pharmacognosy	PHG 421	з							Е												Е							E					E			E
3		Community Pharmacy II*	PHPP 422	3	A				A					A				A					A	A						A				A	A	A	A	A
		Medicinal Chemistry III	PHC 423	3			E											E										E										E
		Physical assessment skills	FOP 424	2	E												E															E		E	E	Е	E	E
		Biopharmaceutics & Pharma- cokinetics II	PHT 425	2								E											E		E					Е								E
		Principles of Pharmacy practice	PHPP 426	з	E				E					E				E					E	E						E				E	E	E	E	E
		Nuclear Pharmacy	PHT 511	2	Е		Е								Е			Е	Е							Е											Е	E
		Pharmaceutical Quality Control	PHT 512	3				E											E	E							E							E				E
		Pharmacy administration	PHPP 513	2									E								Е											E		E	E	E	E	
		Professional Practice Expe- rience - 1*	PHPP 514	3*				A											A	A							A							A	A	A	A	А
		Clinical Pharmacy I	PHPP 515	3	E				E					E				E					E	E						E				E	E	E	E	E
		Pharmaceutical instrumental analysis	PHC 516	з				E											E	E							Е							E				Е
		Pharmacy Regulation and ethics	PHPP 517	2		E															Е											E		E				
		Pharmaceutical Marketing & promotion	PHPP 521	2									E								E											E			E	E	E	E
		Pharmacy research project	FOP 522	4	А	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	А	A	A	A	A	A	A	А	A		A	A	A	А	А
		Communication skills	UMS 04	2		E							E								E											E		E	E	E	E	
		Hospital pharmacy	PHPP 523	2										E										E	E							E		E	E	E	E	
		Professional Practice Experience - 2	PHPP 524	3**	A				A					A				A					A	А						A				A	A	A	A	A
		Clinical pharmacy II	PHPP 525	з	E				E					E				E					E	E						E				E	E	E	E	E

*: 3 credit hrs are equivalent to 325 contact hrs; 25 hrs/ week for 13 weeks

**: 3 credit hrs are equivalent to 325 contact hrs; 25 hrs/ week for 13 weeks

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ANNEX-14 CVs & NAMES FOR THE PREPARATION COMMITTEE

Preparation Committee:

Dr. Ahmed Al-Sobati	Dr. Abdulkarim Al-Zomar	Dr.Jalal Al-Qadasi	Dr. Shawqi Al-Awadi	Prof. Abdulrahman Humaid	Dr. Anees Thabit
Associate Professor of Profes- sor of Pharmaceutics	Associate Professor of Profes- sor of Pharmaceutics	Associate Professor of Medicinal Chemistry	Associate Professor of Pharmacology	Professor of Microbiology	Committee Secretary

Reviewed Committee:

Prof. Ali Al-Kaf Professor of Medicinal Chemistry Dr. Ali Al-Ragawi Assistant Professor - Pharmacology

CVs are attached Separately

