

الجمهورية اليمنية جامعة صنعاء كلية الصيدلة

دليل التدريب الميداني برنامج بكالوريوس العلوم الصيدلانية

Field Training Manual

Bachelor's of pharmaceutical Sciences program . (B. pharm)

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الإطار القانونى للدليل

مادة (1) يسمى هذا الدليل (دليل التدريب الميداني) لطلبة بكالوريوس العلوم الصيدلانية في كلية الصيدلة - جامعة صنعاء

مادة (2) يعتبر الدليل المرجعية الإرشادية لتنفيذ التدريب الميداني وأساس لتقييم الطلبة المتدربين

مادة (3) يتولى عميد كلية الصيدلية - جامعة صنعاء ورئيس قسم الصيدلانيات الإشراف على تنفيذ التعليمات الواردة في هذا الدليل بالتنسيق مع اللجنة المشكلة للإشراف على التدريب الميداني للطلبة.

University Vision:

"The University of Sana'a aspires to the national leadership in teaching, learning, scientific research and community service, and to be among the best regional universities and the first house of expertise in Yemen.



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University Mission:

Contribute to sustainable development efforts by providing a higher education environment that achieves quality standards and outstanding research services in light of a fruitful national partnership, based on transparency, professionalism and creativity.

University Aims:

The university works to achieve the following goals:

- 1- Providing specialized and in-depth study opportunities for students in various fields of knowledge to meet the country's needs in terms of specializations, technicians and experts.
- 2- Caring, teaching, developing, and generalizing the Arabic language as a scientific and educational language in the various fields of knowledge and science, as it is the cultural vessel for the meanings, values and ethics of Arab and Islamic civilization.
- 3- Developing knowledge by conducting scientific research in various fields of knowledge, whether at the individual or group level, and directing it to serve the needs of society and development plans.
- 4- Paying attention to developing "technology" technology, developing it and making use of it in developing the society.
- 5- Encouraging the movement of authorship, translation and publishing in various fields of knowledge, with a special focus on the Yemeni heritage.
- 6- Contributing to the promotion of arts and arts and the progress of sciences.

Providing an academic environment conducive to freedom of thought, expression and publication in a manner that does not contradict Islam, its supreme values and ideals.

- 8- Strengthening ties with universities and public and private institutions in the country to ensure mutual and constructive interaction of knowledge, experiences, resources and participation that ensure effective contribution to bringing about comprehensive development in the country.
- 9- Strengthening scientific and cultural ties with Arab and foreign universities, scientific organizations, and research and development centers in a way that helps the university develop and enhance its position.
- 10- Providing technical and specialized studies and consultations for the various state agencies and their general and mixed institutions.
- 11-Contributing to the development of policies and methods of work in state institutions and agencies in the public and private sectors, and providing innovative models and experiences to solve various problems.
- 12- Raising the efficiency of workers in state institutions and agencies, the public and private sectors, by contributing to in-service preparation and qualification program



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Faculty Mission:

The College of Pharmacy seeks to prepare scientifically and practically qualified pharmaceutical graduates with high professional ethics and able to compete locally, regionally and globally in providing healthcare services through educational programs in accordance with quality standards that can support national pharmaceutical industries, market needs and serve community.

Faculty Aims:

- 1- Providing students with comprehensive knowledge about physiochemical properties and biological activities of medicinal substances required for formulating and preparing pharmaceutical products from their different sources, natural or synthetic.
- **2-** Providing students with opportunities, practical skills, and training in different pharmaceutical sciences to ensure effective contribution in enhancing the requirements **of** pharmaceutical industries and labor market needs to serve the community.
- 3- Performing students the pharmaceuticals qualitative and quantitative analytical techniques according to GLP and GPMP guidelines to assess the quality and quantity of raw materials from natural or synthetic sources and different pharmaceutical products.
- 4- Possessing students the core knowledge concerning the principles of pathophysiology of diseases, pharmacotherapy, pharmacovigilence and pharmacoeconomics to be able to participate with other health care professionals in improving health care services using evidence-based.
- 5- Planning, designing and conducting undergraduate and postgraduate research using appropriate methodologies.
- 6- Developing student's presentation, promotion, pharmaceutical marketing, administration, numeric and computation skills.
- 7- Demonstrating student's capability of communication skills, time management, critical thinking, problem-solving, decision-making and team-working.
- 8- Manage the safe and efficient distribution of medications and participate in quality assurance and improvement programs to maintain the sustainability of good practice.
- 9- Demonstrate a professional attitude through practicing in an ethical, legal manner and according to the GMP and GPP guidelines and continuously maintaining his/her competence through lifelong



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Program Mission:

To prepare graduates who are competent, professional and ethical in pharmaceutical manufacturing, offering and providing healthcare services in accordance with quality standards to provide the health-related needs of the society

Program Aims:

- 1- Providing students with comprehensive understanding in physiochemical properties and biological activities of medicinal substances by emphasizing the fundamental scientific principles in pharmaceutical and medical sciences.
- 2-Familiarizing the students with the principles of pharmacoeconomics and pharmaceutical marketing, pharmaceutical management, the legal requirements, and the ethical rules in the practice of pharmacy
- 3-Providing students with opportunities, practical skills, and training in different pharmaceutical sciences (pharmaceutical chemistry, pharmacognosy, pharmaceutics, pharmacology, clinical pharmacy, and pharmacovigilence) as well as in pharmaceutical research to ensure effective contribution in healthcare needs of the society.
- 4-Equipping students with knowledge & skills necessary to meet the professional demands to participate effectively in healthcare provision at the patient's level and nationally.
- 5- Providing students with knowledge and professional practical skills, and training services in different pharmaceutical sciences that meet the requirements and aspirations of pharmaceutical industries and labor market needs to serve the community.
- 6- Developing the learning, information technology, communication and reflective skills that are necessary to enable students to undertake independent study, and to participate in lifelong learning.
- 7-Training students to think critically, communicate effectively and work in a team.



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The Graduate Attributes:

At the end of the program, the graduates will be able to:

- 1) Practice pharmacy with responsibility, accountability, in a professional and ethical manner, and according to the GMP, GSP, GPP and GLP.
- 2) Apply pharmaceutical technology principles in designing, preparing, identifying, isolating, and analyzing the raw materials, cosmetics and pharmaceutical products of natural and synthetic sources.
- 3) Apply pharmaceutical technology principles in preformulating, formulating and manufacturing pharmaceutical substances in suitable pharmaceutical dosage forms.
- 4) Procure, handle, and store chemicals and pharmaceutical products in pharmacies, hospitals, and wholesale stores.
- 5) Relate therapeutic uses, adverse reactions, and toxicities of pharmaceutical products to their physiochemical properties, pharmacokinetics, and pharmacodynamics.
- 6) Rationalize drug roles in disease treatment through understanding disease pathophysiology, signs, and symptoms, and in relation to patient-specific factors.
- 7) Provide evidence-based, patient-centered pharmaceutical care through professional evaluation of patient's drug-related needs and problems.
- 8) Monitor and dispense prescriptions, and provide information and advice necessary for safe & effective use of drugs.
- 9) Plan, design, conduct, and participate in collaborative educational programs to promote disease prevention and rational drug use.

Plan, design, conduct, and participate in collaborative research using appropriate methodologies and participate in R&D activities to support national pharmaceutical industries, market needs and serve community.

11) Demonstrate self-confidence, skills, and capabilities (such as effective communication, time management, critical thinking, problem solving and decision-making) necessary for effective contribution in teamwork.

12Be a life-long learner for continuous improvement of professional knowledge & skills.



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المدونة الأخلاقية للصيادلة:

الصيادلة هم الممارسون الصحيون لمهنة الصيدلة ويحملون رسالة إنسانية لمساعدة المرضى والأطباء في الاستفادة المثلى من الأدوية بأمانة ومهنية تتبلور فيها المهارات العلمية والأخلاقية

يجب على الصيدلاني أن يعمل وفق الموجهات الأخلاقية التالية:

- A. التطبيق العملي للعلم الصيدلاني بدقة وتمكن وعناية
- B. الأمانة المهنية والتواصل الفعال مع المرضى والأطباء والمؤسسات الصحية المختلفة
 - C. تقديم مصلحة المريض وجعلها فوق كل اعتبار
 - D. العدالة في توزيع الموارد الصحية على المحتاجين
 - E. الصيدلة مهنة ورسالة يؤديها الصيدلي لخدمة الفرد والمجتمع
 - F. احترام خصوصية وكرامة كل مريض.
- G. احترام القوانين الطبية النافذة والتصرف بنزاهة إزاء الاستخدام السلبي للدواء والمستحضرات الطبية.
- H. احترام قيم وقدرات زملائه في القطاع الصحى والتعامل معهم بشفافية وأمانة



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مقدمة عن التدريب الميداني

يعد التدريب الميداني للصيدلي ممارسة عملية وتجسيد منطقي للعلوم النظرية والتطبيقية التي تلاقها خلال فترة التحاقه بالبرنامج وإعداد ه مهنيا لممارسة مهنة الصيدلة بكفاءة واقتدار، وإكسابه المهارات المهنية للمهنة ويتم التدريب الميداني بإشراف أعضاء من هيئة التدريس بالقسم يتم توزيعهم على المجاميع التي تنفذ التدريب الميداني في المستشفيات الحكومية والأهلية وصيدليات المستشفيات العامة والخاصة ومصانع وشركات الأدوية في نطاق سكن المتدرب.

ويعد التدريب الميداني حلقة مهمة لاستكمال متطلبات التخرج وضرورة أساسية لصقل مهارات الصيدلي ووقوفه على الواقع العملي لاكتشاف متطلباته وأخلاقيته والمشكلات العملية المختلفة واكتساب الحلول الناجعة لها وبإشراف وتقييم بنائي مباشر من أساتذة القسم.

أهداف التدريب الميداني:

يسعى التدريب الميداني لطلبة الصيدلة العامة لتحقيق الأهداف التالية

- تنمية مهارات الطلبة في المجال العملي الصيدلاني
- تطبيق المهارات النظرية التي تلقاها الطلبة وبلورتها في صورة عملية تطبيقية
- تنمية الشعور بالمسئولية لدى الطلبة أثناء ممارسة المهنية للصيدلة
- تعزيز مهارات حل المشكلات والتواصل مع الآخرين بكفاءة ومهنية
 - إتاحة الفرصة للمؤسسات التي يتدرب فيها الطلبة لتقويم مخرجات البرنامج والمهارات المكتسبة.
 - الوقوف على المشكلات الشائعة في العمل الصيدلاني والعمل على حلها بكفاءة ومهنية.



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آليات تصميم وتنفيذ التدريب الميداني

أولا: تصميم الدليل التنفيذي للتدريب الميداني:

تم تصميم الدليل التدريبي بناع على مرجعيات علمية وتجارب مختلفة من جامعات وكليات محلية وعربية وأجنبية وبلورتها في صورة إجرائية تطبيقية مع المقارنة بين مخرجات برامج التدريب تلك والاستفادة بشكل أساسي من التوجهات التدريبية المعاصرة والخبرات الأكاديمية والعلمية في هذا السياق

مع تنفيذ المراجعة العلمية للدليل من فريق متخصص.

ثانيا: آليات التدريب الميدائي

يتم تنفيذ التدريب الميداني لطلبة الصيدلة وفق الإجراءات التالية:

- مراجعة الخطة الدراسية للبرنامج وتحديد الساعات التدريبية الفعلية من خلال الاطلاع على وثيقة البرنامج
 - إجراء مقارنات مرجعية مع برامج مناظرة
 - تشكيل لجنة أكاديمية من مجلس القسم والكلية المشرفة على البرنامج تشرف على رسم
 سياسات التدريب وإجراءات تنفيذه.
 - تقسيم الطلبة إلى مجاميع تدريبية وتعيين مشرفين لهم.
 - إبلاغ الطلبة بالفترة الزمنية للتدريب وإبلاغهم بمكان التدريب والمشرفين وعدد الساعات التدريبية وإجراءات التقييم
 - التنسيق مع جهات تنفيذ التدريب الميداني وصياغة مبادئ تمثل جوانب الاتفاق القانوني
 بين الطرفين وتحديد أماكن التدريب وساعاته وأيامه.
 - ح تعيين مشرف من قبل الجهة التي تم التعاقد معها الستقبال الطلبة المتدربين.
 - بناء معايير تقييم وتقويم للمتدربين توزع للمشرفين لأكاديميين والمشرف المعين من
 الجهة لإجراء التقييم المستمر للمتدربين.

ثالثا: توزيع الساعات التدريبية على مواقع التدريب

إجمالي الساعات التدريبية:

600 ساعة تدريبية موزعة على مرحلتين:

المرحلة الأولى: تدريب صيدلاني (1)

ويكون بعد انتهاء الطالب من دراسة المستوى الرابع الترم الثانى

- (300) ساعة تدريبية توزع على (5) ساعات في اليوم الواحد ولمدة خمسة أيام في الأسبوع وتستمر لمدة (12) أسبوعا.

المرحلة الثانية: تدريب صيدلاني (2)

تكون بعد انتهاء الطالب من دراسة المستوى الخامس الفصل الثاني

- (300) ساعة تدريبية موزعة على (5) ساعات في اليوم ولمدة (5) أيام في الأسبوع وبإجمالي (12) أسبوعا تدريبيا.

وتوزع هذه المرحلة التدريبية على المستشفيات التخصصية والصيدليات التابعة لها وعلى مصانع الأدوية

رابعا: توزيع الطلبة

يتم توزيع الطلبة على مواقع التدريب من خلال:

- توزيع أماكن التدريب التي تم اختيارها والتعاقد معها على الطلبة ليتم اختيار الطالب /ة المكان المناسب له وبحسب الأعداد المحددة من الجهة التي سيتم التدريب فيها.
 - تحديد المشرف الخارجي والداخلي لكل مجموعة
 - النزول الميداني من قبل المجموعة والمشرف إلى موقع التدريب وتسليم الكشوفات الخاصة بالمجموعات واستمارات التقييم اليومية والأسبوعية والشهرية وسجلات التوقيع بالحضور والانصراف للمتدربين.



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خامسا: مسئوليات لجنة الإشراف الأكاديمي على التدريب

يتم تشكيل لجان الإشراف الأكاديمي على المجاميع التدريبية من قبل عمادة كلية العلوم الطبية ورئيس القسم وفقا للشروط التالية:

- ✓ يكون من حملة شهادة الدكتوراه في تخصص الصيدلة
 - ✓ الخبرة العملية في الاشراف على التدريب الميدائي
 - ✓ وضع خطة تنفيذية للتدريب في ضوء الدليل
- ✓ مساعدة الطلبة وتذليل الصعوبات التي قد تواجههم وتعزيز جوانب القصور ومعالجتها أولا بأول
 - ✓ عقد لقاءات دورية مع الطلبة اللذين يشرف عليهم
- ✓ توزيع استمارات التقييم واستخدامها بشكل دقيق ومتابعة المشرف اليومي الميداني واستلام التقارير
 اليومية منه والاحتفاظ بها في ملفات خاصة
 - ✓ إجراء تحليل دوري لنتائج التقييم اليومي من قبل المشرف المقيم
 - √ تنفيذ تقييم شهرى لكل طالب

سادسا: مسئوليات وضوابط الطلبة المتدربين

- ✓ الالتزام بالزي الرسمى بصورة يومية
- ✓ توقيع الحضور والانصراف اليومي في السجل المخصص لذلك
 - ✓ الالتزام بحضور الفترة الزمنية المحددة للتدريب
- ✓ احترام اللوائح والقوانين السارية في الجهة التي يتدرب فيها
 - ✓ الحرص على الحفاظ على ممتلكات الجهة اتلى يتدرب فيها
- ✓ يتحمل الطالب المسئولية في حالة التقصير في عمله التدريبي أو التسبب بأي أضرار تلحق بالجهة التي يتدرب فيها.

✓ سابعا: مسئوليات المشرف الميداني في الجهة التدريبية

- ✓ توزيع المتدربين على أماكن التدريب
- ✓ متابعة الحضور والانصراف بشكل يومي
- ✓ الإشراف المباشر على المتدربين من خلال الملاحظة الدقيقة
 - ✓ تعبئة استمارة التقييم اليومى
- ✓ التواصل المستمر مع المشرف الأكاديمي وتزويده باستمارات المتابعة والتقييم بشكل أسبوعي وإيجاد الحلول للمشكلات الطارئة.
 - ✓ تذليل الصعوبات التي تواجه المتدربين والرد على استفساراتهم
 - ✓ الإشراف على تدوير المتدربين في عدة مواضع ومهام تدريبية



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إجراءات تقييم وتقويم الطلبة المتدربين ومعايير التقييم وطرقه

النسبة	الدرجة	التوقيت الزمني	نوع التكليف	أنشطة ومحاور التقييم	م
	20	W1-w24	فردي- تعاوني	الاختبار التطبيقي- الشفهي- عرض تقديمي- مشروع عملي واجبات وأنشطة- تقارير- ورش عمل	1
	20	W1-w24	فردي	والمنطب تعارير ورس عمل المضور والانضباط	2
	20	W1-24	فردي	ملاحظة السلوك الأدائي للمتدرب من المشرف	3
	10	W3-12	فردي - تعاوني	التقييم بالأقران	4
	10	W6-15	فردي وجماعي	تقييم الاستعراض	5
	10	W6-12	#	تقييم التقارير	6
	10	W5-24	100	اختبار شفوي	7
	100			الإجمالي	8

سياسات الغياب والانضباط:

- يمنح الطالب درجة التقييم الميداني عند استكمال ساعات التدريب الميداني بشكل كامل.
- في حالة تغيب الطالب عن فترة التدريب لأكثر من 200 ساعة يحرم من الدرجة المستحقة على أن يستكمل فترة التدريب التي تغيب فيها
 - عند حصول ظرف طارئ يحول دون استكمال فترة التدريب يتم التنسيق مع عمادة كلية العلوم الطبية لوضع الحلول العاجلة لاستمرار عملية التدريب
- لا يحق للطالب التغيب عن فترة التدريب الا لظرف قاهر فيما لا يتجاوز (25%) من فترة التدريب المحددة بعد التنسيق مع القسم والمشرف الأكاديمي وتقديم العذر الشرعي المقبول للنظر فيه مع تعويض فترة التغيب بوقت إضافي.
 - كل متدرب أخل بعمله التدريب الموكل إليه يتحمل كافة النتائج المترتبة على تقصيره أو إهماله



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إلغاء أو حرمان الطالب من التدريب الميدائي:

تلغى فترة التدريب الميداني للطالب في الحالات التالية:

- ا إذا أبدى الطالب المتدرب قصورا كبيرا ومنظورا في أثناء ممارسته للتدريب يؤثر بشكل مباشر على أدائه ينوه من قبل المشرف الميداني والمشرف الأكاديمي لتجاوز القصور وبذل الجهد الإضافي وفي حالة تعذر تحسن أدائه يوقف عن التدريب ويحال للكلية والقسم المشرف عليه
 - في حالة وجود شكاوى مستمرة عن سلوكه التدريبي ومهنيته ومخالفته لأنظمة ولوائح العمل في الجهة التي يتدرب فيها
 - إذا تكررت فترة غيابه وانقطع عن التدريب دون عذر مقبول

إجراءات الإرشاد والدعم الأكاديمي:

- تنفيذ لقاءات دورية مع الطلبة المتدربين
- الرد على اتصالات وتساؤلات الطلبة فيما يتعلق بالتدريب
 - حل المشكلات وتقديم الدعم النفسي للطلبة
 - التشجيع المستمر للطلبة المتدربين
- إنشاء قروبات الدعم الأكاديمي بمواقع التواصل الاجتماعي خاصة بكل مجموعة مع مشرفهم الأكاديمي وأعضاء مجلس القسم والمشرف الميداني لتسهيل عملية التواصل.
 - تنفيذ لقاءات التغذية الراجعة



الجمهورية اليمنية جامعة صنعاء كلية الصيدلة

كراسة التدريب الميداني (الحركة اليومية للمتدرب)

	التاريخ	 اليوم
	DATE	DAY
التوقيع		م المشرف



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إفادة تدريب ميداني من منشأة التدرب (1)

تفيد إدارة بأن المتدرب/ة	
قد مارس التدريب العملي في	
من تاريخ ا / 202م إلى : / / 202م	
بإجمالي ساعات تدريبية ()	
وقد كان/ت في فترة تدريبه	
متمنين له دوام التوفيق	
ير العام ختم وتوقيع جهة التدريب	المد



الجمهورية اليمنية جامعة صنعاء كلية الصيدلة

الموضوع / إرسالية تدريب ميدانى

الإخوة صيدلية مستشفى المسيدلة الصيدلة الطيب تحياتها وتتمنى لكم التوفيق في تهديكم جامعة صنعاء – كلية الصيدلة الطيب تحياتها وتتمنى لكم التوفيق في مهامكم، وإشارة للموضوع أعلاه مرسل اليكم الطالب اق يرغب بالتدريب في المستوى في مجال تخصصه، الملين منكم التعاون معه وتمكينه من ممارسة التدريب وفقا للنظام المعمول به لديكم .

كما نرجو افادتنا بعدد الساعات والفترة التي تدرب بها في منشأتكم حسب نموذج افادة التدريب الميداني (1) المرفقة والمعتمدة كونها أساسية للتخرج

وتقبلوا خالص التحية

عميد الكلية أ. د. أحمد محمد السباتي



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استمارة تقييم تدريب ميداني (تعبأ من قبل المتدرب)

Allen	اسم الطالب/
	جهة التدريب /
من إلى	فترة التدريب

نرجو تعبئة الاستمارة بدقة وحرص

غیر موافق بشدة	غير موافق	محايد	موافق	موافق بشدة	عناصر التقييم	٩
	1	9	0		تم إطلاعي على دليل التدريب الميداني من قبل الكلية	1
	11 5	(9)	1	An	هناك تنوع في مجالات التدريب الميداني	2
	1 <				موقع التدريب ملائم لي بالنسبة لمقر سكني	3
					الجهة التي أتدرب فيها تبدي تعاونا معي	4
	1	8	14	/-	يتم تذليل الصعوبات التدريبية التي قد تواجهني من قبل مشرف التدريب	5
					تعمل قيادة الكلية على متابعتي بشكل مستمر	6
					تعد فترة التدريب كافية لاكتساب الخبرات التخصصية	7
					تطور أدائي أثناء التدريب بشكل مفيد	8
					يتم تقييم أدائي من قبل المشرف الميداني بشكل مستمر	9
					تحرص كليتي على متابعة تدريبي بشكل مستمر	10
					شعرت بالرضا عن أداني العملي التدريبي	11
					تمكنت من ممارسة العمل التدريبي بشكل مناسب	12

يرجاء ذكر أهم الإيجابيات أثناء التدريب:
أهم السلبيات التي واجهتني أثناء التدريب:



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استمارة تقييم طالب متدرب من قبل المشرف الميداني

اسم الطالب
مكان التدريب
الفترة الزمنية للتدريب
يوم وتاريخ الزيارة

ملاحظات	ضعیف	متوسط	ختد	بند التقييم	م	
ت والقدرات الشخصية						
				يلتزم بالمظهر العام والزي الرسمي	1	
				يتواصل بفاعلية مع الجمهور	2	
				متمكن من العمل ضمن الفريق	3	
				القدرة على تحمل ضغوط العمل	4	
				امتلاك روح المبادرة والمسنولية	5	
				ت العملية والأدانية التخصصية	المهاران	
		-		الحرص والمواظبة على أوقات التدريب	6	
	~			الدقة في إنجاز المهام الموكلة	7	
				امتلاك المعرفة التخصصية الكافية لتنفيذ المهمة	8	
				متمكن من التعامل مع جميع أصناف الأدوية	9	
				إتقان قراءة الوصفات الطبية بعناية	10	
				متمكن من رصد ومتابعة الآثار الجانبية للدواء	11	
	- 74			يجيد تقييم الحالة قبل صرف الدواء	12	
				متمكن من تسيير المهام الإدارية الصيدلانية	13	
				يجيد استخدام الحاسوب ونظم المعلومات الصيدلانية	14	
				متمكن من المشاركة في تصميم خطط علاجية	15	
				للمرضى بعناية		
				يطبق أنظمة السلامة والأمن الدوائي	16	
				مستوعب للأصناف الدوائية تجاريا وعلميا	17	
				يجيد التسويق الدوائي والإقناع العلمي	18	

		توقيعه	اسم المشرف
		توقیعه	اسم المشرف
لة التدريب	واعتماد جه	ختم	

ملاحظة العبارات (11-15) خاصة بالتقييم أثناء التدريب السريري



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	مي	ادة تدريب إلزاه	وذج طلب شه	من		
				فة العربية	المتدرب باللغ	اسم ا
				فة الإنجليزية		
						,
1		إلى		منمن	ة التدريبية:	الفترة
				دريب	ي ساعات ال	إجمال
ملاحظات	إلى	من	مركز التدريب	التدريب		م
		1.7			صيدليات الم	1
211		F 100	1. 1. 1.	جتمع	صيدليات الم	3 4
	2.7			المصانع وشركات الأدوية		
				يه الطبيه	مراكز الرعا	5
						5
	100	3.0	V.	10		
المجموع	مراكز الرعاية	المصانع	صيدليات	صيدليات		
	الطبية	وشركات الأدوية	المجتمع	المستشفيات		
					م النهائي	التقييد
					الزمنية	الفترة
						والحظ ملاحظ
					لمات	ملاحظ
					وع	المجم
		بنة ب:	ا لتقييمية وتوصي اللج	ن واقع السجلات ا	نيق البيانات م	تم تدق
ž	عميد الكثيا		دريب الميداني:	الأكاديمي على التن	جنة الإشراف	رأي ا



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افادة تدريب إلزامي (2)

	-	كلية الصيدلة	تشهد الطالب /ة . بأن الطالب /ة .	
		ي للفترة من المات الم	التدريب الإلزامي ساء	قد أدى فترة
		، المراكز التد و	في	
عام ()	وبتقدير	زامي بنجاح	نرة التدريب الإلنا	وقد اجتاز فن
لجنة الإشراف الأكاديمي	رئيس		بداني	المشرف المي
	د / ـ			ص /
د الكلية	عمي		المختص	رئيس القسم ا
	اً. د /			د/
دارة شؤن الطلاب بالكلية لاستكمال	الكلية إلى اا	ص بالتدريب ب	4 من القسم المخت	هذه الأفادة توج وثائق التخرج



الجمهورية اليمنية جامعة صنعاء كلية الصيدلة

Course Specification of Pharmacy Training I

I. Course Identification and General Information:									
1	Course Title	Pharmacy Training I							
2	Course Number & Code:								
				C.H		Total			
3	Credit hours:	Th.	Pr. Tr. Training			Total			
	6				300				
4	Study level/ semester at which this course is offered:	four Level / 2 nd semester							
5	Pre –requisite (if any):	All courses of the first four years							
6	Co –requisite (if any):	None							
7	Program (s) in which the course is offered:	Bachelor degree of Pharmacy				су			
8	Language of teaching the course:			Englis	sh				
9	Location of teaching the course:	The Community and Hospital Pharmacies				tal			
			Dr. T	Dr. Tareq Al-Maqtari					
10	Prepared by:		Rev	riewed l	by prof.				
		Dr . Ahmed Mohamed sabati							
11	Date of approval:			2022					

II. Course description:

his course offers all the knowledge and experience to pharmacy students who want to work in community or hospital pharmacies as their future job.

III. Intended learning outcomes (ILOs) of the course:

At the end of this course, the students will be able to

- 1. Familiar with the requirements and conditions of the storage for pharmaceuticals in the pharmacy and the process of ordering, receiving, pricing and returning medication products from wholesalers.
- 2. Know factors that should drive the development of value-added pharmacy services
- 3. Correlate pharmaceutical, biomedical and clinical knowledge to patient care.
- 4. Properly, interpret the pharmaceutical and medical terms, abbreviations and symbols in pharmacy practice.
- 5. Retrieve drug information on key assigned concepts (brand/generic name, use, usual dosage form(s), route of administration, common adverse drug reactions, and major patient counseling points).
- 6. Select appropriate management strategy for patients in different medical situations.
- 7. Review a patient's medication profile to detect medication allergies, correct doses, duplicate medications, and important drug interactions.
- 8. Provide level-appropriate counseling to patients, physician and/or other caregivers including proper instructions for safe and effective use.
- 9. Prescribe OTC medications for an optimal therapy.
- 10. Use pharmacy systems and technology that improve patient safety, pharmacy inventory management, drug / product storage, and medication distribution.
- 11. Interact effectively with patients, the public and health care professionals; including communication, interpretation and presentation of pharmaceutical information and data using appropriate listening, verbal, nonverbal, and written communication skills.
- 12. Perform according to professional and moral ethical codes and approaches considering laws of human rights as well as legal and safety guidelines.
- 13. Improve the pharmacist thinking, decision making and improve his problem solving abilities.
- 14. Manage time effectively.

IV. Intended learning outcomes (ILOs) of the course:

(A) Knowledge and Understanding:

Alignment Course Intended Learning Outcomes (CILOs) to Program Intended Learning Outcomes (PILOs) in:

Knowledge and Understanding.

Program Intended Learning Outcomes (Sub- PILOs) in: Knowledge and Understanding			Course Intended Learning Outcomes (CILOs) in: Knowledge and Understanding		
After	r completing this program, students would be able to:		er participating in the course, students would be able to:		
A1-	Recognize the requirements and conditions of the storage for pharmaceuticals in the pharmacy and the process of ordering, receiving, pricing and returning medication products from wholesalers	a1-	Familiar with the requirements and conditions of the storage for pharmaceuticals in the pharmacy and the process of ordering, receiving, pricing and returning medication products from wholesalers.		
A2-	Ç Î	a2-	Know factors that should drive the development of value-added pharmacy services		

Teaching And Assessment Methods For Achieving Learning Outcomes:

Alignment Learning Outcomes of Knowledge and Understanding to Teaching and Assessment Methods:

Course Intended Learning Outcomes (CILOs) in Knowledge and Understanding After participating in the course, students would be able to:		Teaching strategies/methods to be used	Methods of assessment		
a1-	Familiar with the requirements and conditions of the storage for pharmaceuticals in the pharmacy and the process of ordering, receiving, pricing and returning medication	PracticalTutorialsDirect Patient	✓ Objective Structured Practice Exam ✓ Oral Examinations		

	products from wholesalers.		Contact Role Modeling Problem-based learning	\[\lambda \]	Final Written examinations Written Reports Practice Exam
a2-	Know factors that should drive the development of value-added pharmacy services	•	Computer- aided learning		

	gnment Course Intended Learning Outcomes (CILOs) to Prog	,		
Progr	am Intended Learning Outcomes (Sub- PILOs) in Intellectual skills		Course Intended Learning (Intellectual	
After c	completing this program, students would be able to:	Afte	r participating in the course, s	tudents would be able to:
B1-	Correlate the basic knowledge of drug information to the fundamentals of pharmacy practice in the community and/or hospital pharmacy setting.	b1-	Correlate pharmaceutical knowledge to	
B2-	975		Properly, interpret the phaterms, abbreviations and prace	d symbols in pharmacy
	Enhance the students' attitude, skills and knowledge to better prepare them to provide pharmaceutical care.	b3-	Retrieve drug information on key assigned concepts (brand/generic name, use, usual dosag form(s), route of administration, common adverdrug reactions, and major patient counseling points).	
		b4-	Select appropriate map patients in different	•
	Teaching And Assessment Metho	ds Fo	r Achieving Learning	Outcomes:
	Alignment Learning Outcomes of Intellect	ual Ski	lls to Teaching Methods an	d Assessment Methods
	ourse Intended Learning Outcomes (CILOs) in Intellectual Skills. participating in the course, students would be able to:	Teac	hing strategies/methods to be used.	Methods of assessmen
b1-	Correlate pharmaceutical, biomedical and		Practical Tutorials	✓ Objective

b2-	Properly, interpret the pharmaceutical and medical terms, abbreviations and symbols in	 Direct Patient Contact Role Modeling Problem-based learning 	Structured Practice Exam ✓ Oral Examinations ✓ Final Written
	pharmacy practice.	 Computer- aided learning 	examinations ✓ Written Reports
b3-	Retrieve drug information on key assigned concepts (brand/generic name, use, usual dosage form(s), route of administration, common adverse drug reactions, and major patient counseling points).		✓ Practice Exam
b4-	Select appropriate management strategy for patients in different medical situations.		



(C)	(C) Professional and Practical Skills.							
Alignment Course Intended Learning Outcomes (CILOs) to Program Intended Learning Outcomes (PILOs) in: Professional and Practical Skills								
(Program Intended Learning Outcomes Sub- PILOs) in Professional and Practical Skills		Course Intended Le (CILOs) in Profession Skil	onal and Practical				
Af	ter completing this program, students would be able to:	After	participating in the course,	students would be able to:				
C1-	Use pharmacy systems and technology that improve patient safety, pharmacy inventory management, drug / product storage, and medication distribution.	c1 -	Review a patient's medication profile to detect medication allergies, correct doses, duplicate medications, and important drug interactions.					
C2-	Monitor the prescriptions and prescribe OTC medications for an optimal therapy.		Provide level-appropriate counseling to patients, physician and/or other caregivers including proper instructions for safe and effective use.					
			Prescribe OTC medications for an optimal therapy.					
	5	c4-	improve patient safet management, drug	ns and technology that ry, pharmacy inventory product storage, and distribution.				
	Teaching And Assessment Methods Fo	r Ach	ieving Learning Outc	omes:				
	Alignment Learning Outcomes of Professiona	al and I	Practical Skills to Teaching	and Assessment Methods:				
Course Intended Learning Outcomes (CILOs) in Professional and Practical Skills After participating in the course, students would be able to			Teaching ategies/methods to be used	Methods of assessment				
c1	medications, and important drug interactions. Provide level-appropriate counseling to		Practical Tutorials Direct Patient Contact Role Modeling Problem-based	✓ Objective Structured Practice Exam ✓ Oral Examinations ✓ Final Written examinations				
	patients, physician and/or other caregivers including proper instructions for safe and		learning	✓ Written Reports				

	effective use.	Co	mputer- aided 🗸	Practice Exam		
c3	Prescribe OTC medications for an optimal therapy.		learning			
c4	Use pharmacy systems and technology that improve patient safety, pharmacy inventory management, drug / product storage, and medication distribution.					
(D)	General / Transferable skills .		-			
Pro	ogram Intended Learning Outcomes (PILOs) in General / Transferable skills					
	After completing this program, students would be able to:					
D1- Interact effectively with patients, the public and health care professionals; including communication, interpretation and presentation of pharmaceutical information and data using appropriate listening, verbal, nonverbal, and written communication skills.						
D2-	Use computer and technology efficiently to collect, analyzanterpret information to gain knowledge	Perform according to professional and moral ethical codes and approaches considering laws of human rights as well as legal and safety guidelines.				
D3-	Communicate effectively with a wide range of individuals a variety of means.	d3-	d3- Improve the pharmacist thinking, decision making and improve his problem solving abilities.			
	17.4.4	d4-	d4- Manage time effectively.			
	Teaching And Assessment Methods For Ad	chiev	ing Learning Outco	mes:		
	Alignment Learning Outcomes of General and Transferab	le skil	ls to Teaching and Asses	sment Methods.		
Course Intended Learning Outcomes (CILOs) in General and Transferable Skills After participating in the course, students would be able to:			Teaching stegies/methods to be used.	Methods of assessment		
d1-	Interact effectively with patients, the public and health care professionals; including communication, interpretation and presentation of pharmaceutical information and data using appropriate listening, verbal, nonverbal, and written communication skills.	•]	Practical Tutorials Direct Patient Contact Role Modeling Problem-based learning	✓ Objective Structured Prace Exam ✓ Oral Examinati ✓ Final Written		

d2-	Perform according to professional and moral ethical codes	•	Computer- aided		examinations
	and approaches considering laws of human rights as well		learning	✓	Written Reports
	as legal and safety guidelines.		C	✓	Practice Exam
d3-	Improve the pharmacist thinking, decision making and				
	improve his problem solving abilities.				
!					
d4-	Manage time effectively.				

V	V. Course Contents:						
No.	Units / Topics List	Learning Outcomes	Sub Topics List	Numb er of Weeks	Contac t Hours		
1.	Review of pharmacy communicatio n skills:	a.1-a.2, b.1- b.2, b.4, c.1- c.4, d.1- d.4	 Model of communication, verbal and non-verbal communication, questioning skills, explaining skills, listening skills & counseling skills 	1	25		
2.	Review of drug store management and inventory control:	a.1-a.2, b.1- b.2, b.4, c.1- c.4, d.1- d.4	 a). Organization of Drug store, types of materials stocked, storage conditions. b). Inventory control: a. Purchasing, b. Pricing, c. Outdated medications, d. Return to wholesaler e. Return to stock/Returns from patients, f. Recalls. 	1	25		
3.	Prescription process	a.1-a.2, b.1- b.2, b.4, c.1- c.4, d.1- d.4	Pharmacy workflow a. Receiving prescriptions b. Screening prescriptions c. Hand off to order entry Reviewing prescriptions a. Check allergies b. Clinical review/patient profile c. Check for correct drug, dose and route	1	25		

			Legal Standards		
			a. Prescription requirements (written and oral)		
			 b. Refillsc. controlled substance dispensing/ security formsd. Filing/record keeping for prescriptions, invoices, etc 		
4.	Technology Systems in Pharmacy	a.1-a.2, b.1- b.2, b.4, c.1- c.4, d.1- d.4	> Electronic system in Pharmacy	1	25
5.	Drugs Used in Cardiovascula r Diseases	a.1, b.1- b.2, b.4, c.1- c.4, d.1- d.4	 Drugs used in hypertension, ischemic heart diseases, heart failure, dysrhythmias, shock 	1	25
6.	Drugs Used in Blood Diseases	a.1, b.1- b.2, b.4, c.1- c.4, d.1- d.4	 Drug used in thrombosis and bleeding, anemias, hyperlipidemia, peripheral vascular diseases 	1	25
7.	Drugs Used to Manage fever, Pain and Inflammation	a.1, b.1- b.2, b.4, c.1- c.4, d.1- d.4	 Paracetamol, NSAIDs, glucocorticoids, disease modifying antirheumatic drugs,, methotrexate, anticytokines, colchicine, uricosuric agents and inhibitors of uric acid synthesis 	1	25
8.	Drugs Used in Diseases of Central Nervous System:	a.1, b.1- b.2, b.4, c.1- c.4, d.1- d.4	 Drugs used in depression, psychosis, mania, bipolar disorder, ADHD, migraine, epilepsy, 	1	25
9.	Drugs Used in Diseases of Central Nervous System:	a.1, b.1- b.2, b.4, c.1- c.4, d.1- d.4	 alzheimer and parkinson diseases, general and local anesthetics, sedatives, hypnotics, anxiolytics, opoid analgesics 	1	25

10.	Drugs Used in Endocrine Diseases:	a.1, b.1- b.2, b.4, c.1- c.4, d.1- d.4	 Drugs used in diabetes mellitus, growth hormone disorders, infertility, osteoporosis, hypercalcemia, hyperprolactinemia 	1	25
11.	Drugs Used in Endocrine Diseases:	a.1, b.1- b.2, b.4, c.1- c.4, d.1- d.4	 , thyroid diseases Oxytocin, vasopressin, desmopressin, mineralocorticoids, estrogens, antiestrogens, progestins, antiprogestines, contraceptive drugs, androgens, antiandrogens and 	1	25
12.	Drugs Used in Respiratory Diseases:	a.1, b.1- b.4, c.1- c.4, d.1- d.4	Drugs used in pharmacotherapy of bronchial asthma, chronic obstructive pulmonary diseases, allergic rhinitis and cough	1	25
Number of Weeks /and Units Per Semester					300

VI. Teaching strategies of the course:

- 1. Practical Tutorials (small group discussion)
- 2. Computer- based learning
- 3. Problem-based learning
- 4. Role Modeling
- 5. Direct Patient Contact

VII. Assignments:					
Assignments	Aligned CILOs (symbols)	Week Due	Mark		
Written Reports	a.1, b.1, b3-b.4,c.1-c.4, d.1, d.3	2 nd , 4 th , 6 th , 8 th , 10 th , 12 th , 14 th	10		

Schedule of Assessment Tasks for Students during the VIII. **Semester:** Proportion of No. **Assessment Method** Week Due Mark Final **Aligned Course Learning Outcomes** Assessment Attendance, a.1-a.2, b.1- b.4, c.1-Participation and c.4, d.1-d.4 All Weeks 10 1. 20% **Activity**

2.	Written Reports	a.1, b.1, b3-b.4,c.1-c.4, d.1, d.3	2 nd , 4 th , 6 th , 8 th , 10 th , 12 th , 14 th	10	
3.	Oral Examinations	a.1-a.2, b.1-b.4, c.1-c.3, c.4, d.1- d.4	3 rd ,5 th ,7 th , 11 th , 15 th	10	10%
4.	Objective Structured Practice Exam	a.1, b.1-b.4, c.1- c.4, d.1- d.4	16 th	40	40%
5.	Final Written Examinations	a.1-a.2, b.1- b.4, c.1- c.3, d.3	16 th	30	30%
Total				100	100%

IX. Learning Resources:

1- Required Textbook (s) (maximum two).

- 1. James, E.F, Reynolds, Parfitt, K., 2007, Martindale, "The extra pharmacopeia", 31st edition, Royal Pharmaceutical Society, London.
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3- Electronic Materials and Web Sites etc.

websites:

- 1. www.fda.gov
- 2. http://www.mhra.gov.uk/index.htm
- 3. http://jpet.aspetjournals.org
- 4. http://www.jpharmacol.com
- 5. http://www.sciencedirect.com
- 6. http://www.ncbi.nlm.nih.gov/pubmed

X. Students' Support:		
Office Hours/week	Other Procedures (if any)	
Two contact hours per week	None	

XI. Facilities Required:		
1 - Accommodation:	 Well-equipped lecture halls with data show facilities, whiteboards, net connection, etc. Well-equipped laboratories with all required equipment and reagents. 	
2 - Computing resources:	- Computer laboratory with internet facilities.	

XII. Course Improvement Processes:

1- Strategies for obtaining student feedback on effectiveness of teaching

- Student-based assessment of the effectiveness of teaching using a questionnaire designed by the Quality Assurance Unit at the end of the semester.
- Meeting with students and faculty (once per semester).

2- Other strategies for evaluation of teaching by the instructor or by the department.

- Assessment of the course syllabus and contents by the teachers using a questionnaire designed by the Quality Assurance Unit of the university at the end of the semester.
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- Revision of the course specification and its teaching strategies every three academic years after consideration of all issues raised by the teachers and/or students during regular meetings and discussions.
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- Checking of a sample of students' work by an independent faculty member.
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- 5- Procedures for periodically reviewing of course effectiveness and planning for improvement
 - Student rating and feedback
 - Peer rating and feedback
 - Regular meeting of the Curriculum Committee of the faculty.

6- Course development plans

- Conducting regular workshops for the staff for improving their course specification skills.
- Regular revision of course specification and syllabus items.

XIII. Course Policies: (including plagiarism, academic honesty, attendance etc)

The University Regulations on academic misconduct will be strictly enforced. Please refer to ------

Class Attendance:

- Attendance in all lectures and practical classes are required, except in very emergency circumstances, such as serious illness or death in the family with providing an acceptable documentation approved the university and forwarded by the chairman of the department. Otherwise the absence shall be considered unexcused.
- -In accordance with the university rules, if the percentage of student's absentness exceeds 25 % of the total lectures or practical classes, the student involved shall be disqualified in the final written and practical examination of the course and shall be deemed to have failed in the course.

Tardy:

3

- Roll will be called in the very beginning of each lecture and practical class. Retardation for more than three weeks without a reasonable excursion, the student involved shall not be allowed to attend the class any longer and consequently shall be considered to be absent.

Exam Attendance/Punctuality:

- It is incumbent on student to report at the examination hall for checking in and rolls calling at least 15 minutes before the commencement of examination.
- -A student is not allowed to submit answer booklet and leave the examination hall only on or after the passage of the have examination duration (equivalent to the first one hour after the commencement of the examination).
- -A student who comes late shall not be admitted to the examination hall, only within the first one hour of the examination. Attending after this time, the student will be considered to be missed in the examination and shall be deemed to have failed in the course.

When a student misses the final examination due to a legitimate medical problems or death in the family, an acceptable documentation approved by the university medical unit for the excused absentness (hospitals medical reports along with discharge summaries or death certificate) must be provided no later than three weeks and consequently the student shall be disqualified in the examination but with the excused absentness.

Assignments & Projects:

4

- Micro-assignments and practical reports must be submitted for the assessment on or before the due date. If a student does not submit the micro-assignments or practical reports, the student shall be allotted zero marks which will affect the final assessment of the course.
- -The submission date extension will not be granted only by the consent of the faculty member concerned. In the case of late submission, the student must provide a reasonable explanation to the faculty member.

Otherwise 1% of the obtained marks will be subtracted for each late day, including weekends and holidays.

Cheating:

5

-If a student is found cheating in the final and med-term examinations and quizzes(copying from un authorized materials and anther students' work or allowing other students to copy from his/her own work), the student involved shall be disqualified in the examination and shall be deemed to have failed in the course and also suspended from examinations of two more courses.

If a student if found engaging in any unauthorized communications (oral,sign,call,etc.), while the examination is in progress or in possessing of any authorized materials or electronic devices before the distribution of examination papers, the student involved shall be disqualified in the examination and shall be deemed to have failed the course.

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- Plagiarism is the presentation of any material (text, data or figures) from any other source in preparation of micro-assignments or practical reports without clear and adequate acknowledgement of the source.
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Other policies:

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Students must switch off their mobile phones, labtops, electronic devices etc. before entering lecture room or laboratory. If a student is found using these devices while the lecture or practical work is in progress, the student involved shall be expelled out of the class and shall be considered to be absent. Note that students can submit their micro-assignments or practical reports through the e-mail address of the faculty member concerned and should be prudent to keep Photostat or electronic copies of submitted works to guard against an accidental loss.

Republic of Yemen Ministry of Higher Education Sana`a University Faculty of Pharmacy



الجمهورية اليمنية وزارة التعليم العالي والبحث العلمي جامعة صنعاء كلية الصيدلة

Course Specification of Pharmacy Training II

v. Course Identification and General Information:								
1	Course Title	Pharmacy Training II						
2	Course Number & Code:							
	7.4			C.H		Total		
3	Credit hours:	Th.	Pr.	Tr.	Training			
	10	7			300			
4	Study level/ semester at which this course is offered:	5 th Level / 2 nd semester						
5	Pre –requisite (if any):	Field Pharmacy Training I						
6	Co –requisite (if any):	None						
7	Program (s) in which the course is offered:	Bachelor degree of Pharmacy						
8	Language of teaching the course:	English						
9	Location of teaching the course:	The Community and Hospital Pharmacies						
			Maqtari,					
10	Prepared by:	Reviewed by prof.						
		Dr . Ahmed Mohamed sabati						
11	Date of approval:			2022				

VI. Course description:

his course offers all the knowledge and experience to pharmacy students who want to work in community or hospital pharmacies as their future job.

VII. Intended learning outcomes (ILOs) of the course:

At the end of this course, the students will be able to

- 1- Familiar with the requirements and conditions of the storage for pharmaceuticals in the pharmacy and the process of ordering, receiving, pricing and returning medication products from wholesalers.
- 2- Know factors that should drive the development of value-added pharmacy services
- 3- Correlate pharmaceutical, biomedical and clinical knowledge to patient care.
- 4- Properly, interpret the pharmaceutical and medical terms, abbreviations and symbols in pharmacy practice.
- 5- Retrieve drug information on key assigned concepts (brand/generic name, use, usual dosage form(s), route of administration, common adverse drug reactions, and major patient counseling points).
- 6- Select appropriate management strategy for patients in different medical situations.
- 7- Review a patient's medication profile to detect medication allergies, correct doses, duplicate medications, and important drug interactions.
- 8- Provide level-appropriate counseling to patients, physician and/or other caregivers including proper instructions for safe and effective use.
- 9- Prescribe OTC medications for an optimal therapy.
- 10- Use pharmacy systems and technology that improve patient safety, pharmacy inventory management, drug / product storage, and medication distribution.
- 11- Interact effectively with patients, the public and health care professionals; including communication, interpretation and presentation of pharmaceutical information and data using appropriate listening, verbal, nonverbal, and written communication skills.
- 12- Perform according to professional and moral ethical codes and approaches considering laws of human rights as well as legal and safety guidelines.
- 13- Improve the pharmacist thinking, decision making and improve his problem solving abilities.
- 14- Manage time effectively.

15-Intended learning outcomes (ILOs) of the course: (A) Knowledge and Understanding: Alignment Course Intended Learning Outcomes (CILOs) to Program Intended Learning Outcomes (PILOs) in: Knowledge and Understanding. **Program Intended Learning Outcomes** Course Intended Learning Outcomes (CILOs) in: (Sub-PILOs) in: **Knowledge and Understanding Knowledge and Understanding** After completing this program, students would After participating in the course, students would be able be able to: to: A1-Recognize the requirements and Familiar with the requirements and conditions of the storage for conditions of the storage for pharmaceuticals pharmaceuticals in the pharmacy and in the pharmacy and the process of ordering, the process of ordering, receiving, receiving, pricing and returning medication pricing and returning medication products from wholesalers. products from wholesalers Know factors that should drive the development of value-added pharmacy services **Teaching And Assessment Methods For Achieving Learning Outcomes:** Alignment Learning Outcomes of Knowledge and Understanding to Teaching and Assessment Methods: **Course Intended Learning Outcomes (CILOs) Teaching** Methods of assessment in Knowledge and Understanding strategies/methods to be used After participating in the course, students would be able to: Familiar with the requirements and **Practical Tutorials** Objective Structured a1-Computer- aided conditions of the storage for Practice Exam learning pharmaceuticals in the pharmacy and Final Written the process of ordering, receiving, Examinations pricing and returning medication **Oral Examinations**

Written Reports

products from wholesalers.

a2-	Know factors that should drive the
	development of value-added pharmacy
	services.

(B) Intellectual Skills:

Alignment Course Intended Learning Outcomes (CILOs) to Program Intended Learning Outcomes (PILOs) in: Intellectual skills

Program Intended Learning Outcomes (Sub- PILOs) in Intellectual skills			Course Intended Learning Outcomes (CILOs) of Intellectual Skills			
After	completing this program, students would be able to:	After participating in the course, students would be able				
B1-	Correlate the basic knowledge of drug information to the fundamentals of pharmacy practice in the community and/or hospital pharmacy setting.	b1-	Correlate pharmaceutical, biomedical and clinical knowledge to patient care.			
B2-	Enhance the students' attitude, skills and knowledge to better prepare them to provide pharmaceutical care.	b2-	Properly, interpret the pharmaceutical and medical terms, abbreviations and symbols in pharmacy practice.			
	335	b3-	Retrieve drug information on key assigned concepts (brand/generic name, use, usual dosage form(s), route of administration, common adverse drug reactions, and major patient counseling points).			
	4	b4-	Select appropriate management strategy for patients in different medical situations.			

Teaching And Assessment Methods For Achieving Learning Outcomes:

Alignment Learning Outcomes of Intellectual Skills to Teaching Methods and Assessment Methods:

Course Intended Learning Outcomes (CILOs) in Intellectual Skills. After participating in the course, students would be able to:		Teaching strategies/methods to be used.		Methods of assessment	
b1-	Correlate pharmaceutical, biomedical and clinical knowledge to patient care.		Practical Tutorials Problem-based learning Direct Patient Contact	✓	Objective Structured Practice Exam Written Reports
b2-	Properly, interpret the pharmaceutical and medical terms, abbreviations and symbols in pharmacy practice.	•	Role Modeling	✓	Final Written Examinations Oral Examinations
b3-	Retrieve drug information on key assigned concepts (brand/generic name, use, usual				

(C) Professional and Practical Skills.

Alignment Course Intended Learning Outcomes (CILOs) to Program Intended Learning Outcomes (PILOs) in: **Professional and Practical**Skills

	Program Intended Learning Outcomes (Sub- PILOs) in Professional and Practical Skills After completing this program, students would be able to:	Course Intended Learning Outcomes (CILOs) in Professional and Practical Skills After participating in the course, students would be			
		1	able to:		
C1-	Use pharmacy systems and technology that improve patient safety, pharmacy inventory management, drug / product storage, and medication distribution.	c1-	Review a patient's medication profile to detect medication allergies, correct doses, duplicate medications, and important drug interactions.		
C2-	Monitor the prescriptions and prescribe OTC medications for an optimal therapy.	c2-	Provide level-appropriate counseling to patients, physician and/or other caregivers including proper instructions for safe and effective use.		
		с3-	Prescribe OTC medications for an optimal therapy.		
		c4-	Use pharmacy systems and technology that improve patient safety, pharmacy inventory management, drug / product storage, and medication distribution.		

Teaching And Assessment Methods For Achieving Learning Outcomes:

Alignment Learning Outcomes of Professional and Practical Skills to Teaching and Assessment Methods:

Cour	se Intended Learning Outcomes (CILOs) in Professional and Practical Skills After participating in the course, students would be able to:	Teaching strategies/methods to be used	Methods of assessment
c1 -	Review a patient's medication profile to detect medication	 Practical Tutorials 	✓ Objective

	allergies, correct doses, duplicate medications, and important drug interactions.	•	Direct Patient Contact Problem-based	Structured Practice Exam ✓ Oral	
c2-	Provide level-appropriate counseling to patients, physician and/or other caregivers including proper instructions for safe and effective use.		learning	Examinations Final Written examinations	
с3-	Prescribe OTC medications for an optimal therapy.			✓ Written Reports	
с4-	Use pharmacy systems and technology that improve patient safety, pharmacy inventory management, drug / product storage, and medication distribution.	-			
(D)	General / Transferable Skills:				
Aligni	ment Course Intended Learning Outcomes (CILOs) to Program Intended Le skills	arning	Outcomes (PILOs) in: Gener	al and Transferable	
Pro	ogram Intended Learning Outcomes (PILOs) in General / Transferable skills	Cou	urse Intended Learning C General / Transfer		
After completing this program, students would be able to: After participating in the course, students				e, students would be able to:	
	effectively with patients, the public and health care mals; including communication, interpretation and tion of pharmaceutical information and data using ate listening, verbal, nonverbal, and written ication skills.	d1- Interact effectively with patients, the public and health care professionals; including communication, interpretation and presentation of pharmaceutical information and data using appropriate listening, verbal nonverbal, and written communication skills.			
	nicate effectively with a wide range of individuals rariety of means.	d2- Perform according to professional and moral ethical codes and approaches considering laws of human rights as well as legal and safety guidelines.			
	puter and technology efficiently to collect, analyze pret information to gain knowledge	d3- Improve the pharmacist thinking, decision making and improve his problem solving abilities.			
		d4- Manage time effectively.			
	Teaching And Assessment Methods For Ach	ievin	ng Learning Outcom	es:	
	Alignment Learning Outcomes of General and Transferable	skills 1	to Teaching and Assessm	ent Methods.	
Соι	urse Intended Learning Outcomes (CILOs) in General and Transferable Skills After participating in the course, students would be able to:	Teaching Methods of strategies/methods to be used.			
42					

d1-	professionals; including communication, interpretation and presentation of pharmaceutical information and data using appropriate listening, verbal, nonverbal, and written communication skills.	Practical Tutorials Direct Patient Contact Role Modeling	*	Objective Structured Practice Exam Oral Examinations Written Reports
d3-	Improve the pharmacist thinking, decision making and improve his problem solving abilities.			
d4-	Manage time effectively.			

VI	VIII. Course Contents:						
No.	Units / Topics List	Learning Outcomes	Sub Topics List	Numbe r of Weeks	Contact Hours		
1.	Drugs Used in Gastrointestinal Diseases:	a.1 , b.1- b.4, c.1- c.4, d.1- d.4	Drugs used in pharmacotherapy peptic ulcer, GERD, flatulence, vomiting, diarrhea, constipation	1	25		
2.	Drugs Used in Gastrointestinal Diseases:	a.1 , b.1- b.4, c.1- c.4, d.1- d.4	, hemorrhoids, visceral spasms, inflammatory bowel disease, gallstones, hepatic encephalopathy and esophageal varices	1	25		
	1	a.1 , b.1-	Antibacterial drugs	1	25		
	Microbial	b.4, c.1-	Antifungal and antiviral drugs	1	25		
3.	Chemotherapy:	c.4, d.1- d.4	Antiprotozoal drugs, anthelmintics, antiseptics and disinfectants	1	25		
4.	Chemotherapy of Cancer	a.1, b.1- b.4, c.1- c.4, d.1- d.4	Alkylating agents, anti-metabolites, vinca alkaloids, cytotoxic antibiotics, hormonal agents, and others	1	25		
5.	Immunologic Drugs	a.1, b.1- b.4, c.1- c.4, d.1-	Vaccines and Antibodies				

		d.4		1	25
6.	Fluids and Electrolytes	a.1, b.1- b.4, c.1- c.4, d.1- d.4	Blood Plasma, Protein Substrates, Plasma Protein Fractions, Energy Substrates, Plasma Expanders, Intravenous Replacement Solutions	1	25
7.	Miscellaneous Drugs	a.1, b.1- b.4, c.1- c.4, d.1- d.4	Ophthalmic, skin, dental preparations, drugs for obesity and erectile dysfunction, OTC drugs, diagnostic drugs	1	25
8.	Cosmetics	a.1, b.1- b.2, b.4, c.1- c.4, d.1- d.4	Different kinds of cosmetic substances	1	25
9.	Parapharmaceut icals, Home Diagnostics, and Medical Devices	a.1, b.1- b.2, b.4, c.1- c.4, d.1- d.4	Ambulatory aids, bathroom equipment, blood pressure monitors, heat and cold therapy, home diagnostic aids, hospital peds and accessories, incontinence products, orthopedic braces and surgical fittings, ostomy appliances and accessories, respiratory equipment, thermometers, urinary catheters	1	25
10.	Vitamins, Minerals and Dietary Supplements	a.1, b.1- b.4, c.1- c.4, d.1- d.4	Fat soluble vitamins and water soluble vitamins, drug-vitamin interactions, minerals, dietary supplements	1	25
	Numbe	r of Weeks	and Units Per Semester		300

IX. Teaching strategies of the course:

- 1- Practical Tutorials (small group discussion)
- 2- Computer- based learning
 - 3- Problem-based learning
- 4- Role Modeling
 - 5- Direct Patient Contact

6- Assignments:								
Assignments	Aligned CILOs (symbols)	Week Due	Mark					
Written Reports	a.1, b.1, b3-b.4,c.1-c.4, d.1, d.3	2 nd , 4 th , 6 th , 8 th , 10 th , 12 th , 14 th	10					

IX. Schedule of Assessment Tasks for Students during the Semester:

No.	Assessment Method	Aligned Course Learning Outcomes	Week Due	Mark	Proportion of Final Assessment
6.	Attendance, Participation and Activity	a.1-a.2, b.1- b.4, c.1- c.4, d.1- d.4	All Weeks	10	20%
7.	Written Reports	a.1, b.1, b3-b.4,c.1-c.4, d.1, d.3	2 nd , 4 th , 6 th , 8 th , 10 th , 12 th , 14 th	10	
8.	Oral Examinations	a.1-a.2, b.1-b.4, c.1-c.3, c.4, d.1-d.4	3 rd ,5 th ,7 th , 11 th , 15 th	10	10%
9.	Objective Structured Practice Exam	a.1, b.1-b.4, c.1- c.4, d.1- d.4	16 th	40	40%
10.	Final Written Examinations	a.1-a.2, b.1- b.4, c.1- c.3, d.3	16 th	30	30%
Total					100%

XIV. Learning Resources:

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