

دليل التدريب الميداني

برنامج بكالوريوس الصيدلة السريرية – دكتور صيدلي (Pharm.D.)

Field Training Manual

Bachelor's Program in Clinical Pharmacy

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الإطار القانوني للدليل

- مادة (1) يسمى هذا الدليل (دليل التدريب الميداني والسريري) لطلبة الصيدلة السريرية في كلية الصيدلة السريرية بجامعة 21 سبتمبر للعلوم الطبية والتطبيقية
- مادة (2) يعتبر الدليل المرجعية الإرشادية لتنفيذ التدريب الميداني والسريري وأساس لتقييم الطلبة المتدربين
- مادة (3) يتولى عميد كلية الصيدلة السريرية ورؤساء الأقسام المعنيين بالكلية الإشراف على تنفيذ التعليمات الواردة في هذا الدليل بالتنسيق مع اللجنة المشكلة للإشراف على التدريب الميداني والسريري للطلبة

University Vision:

A Contemporary University with a Sense of National Responsibility and Faith Identity.

University Mission:

Leadership of transformation/upturning headway in managing and providing the health care with all partners via having the distinction standard in education and applied and medical researches that meet the needs of Yemeni people and regional influence.

University Aims:

- 1- Ensuring the application of quality standards and having the distinction standards in medical and applied sciences, scientific research and community service.
- 2- Adopting student-centered learning, the partnership with them for life, consolidating the principles of national responsibility and faith identity, looking after them and developing their capabilities after graduation and during work.
- 3- Attracting and Employing scientists, cadres and talents to gain minds and put an end for the “brain drain” in a way that promotes and ensures the availability of thinkers, businessmen and good citizens.
- 4- Developing the distinguished academic infrastructure continuously and establishing modern research and service centers with high efficiency that can give a real effect locally and regionally.
- 5- Enhancing the university status as a preferred partner for local, regional and international partnership through implementing creative styles of education, exchanging researches and knowledge, and providing real and effective outcomes for developing professional practices to benefit from them locally and regionally.

Faculty Mission:

Preparing distinguished pharmacists scientifically and practically qualified through modern academic programs and achieve excellence in pharmacy education, pharmaceutical research, and community service to meet the requirements of Yemeni society in a professional context

Faculty Aims:

- 1- Produce graduates capable of provision of high-quality pharmacy care services.
- 2- Graduate pharmacists with all scientific knowledge and skills needed to make therapeutic decisions and evaluate drug information based on evidence-based principles.
- 3- Qualifying pharmacist capable of manufacturing and analyzing all forms of pharmaceutical preparations with their various sources in accordance with GLP and GMP standards.
- 4- Graduate pharmacists with all basic information to manage human and material resources effectively and communicate ethically with health care workers based on scientific principles.
- 5- Graduate pharmacists with basic skills of the scientific research and the use of medication in the health care system.
- 6- Effective contribution to community service and meeting the requirements of the labor market.

Program Mission:

The program aims to provide the highest standards of patient-centered pharmaceutical care that develop and improve the professional skills necessary to prepare and qualify graduates who are able to provide evidence-based solutions to treatment-related problems and improve the quality of patient care locally and regionally

Program Aims:

1. Graduate distinguished pharmacists with professional essential skills such as teamwork, leadership, creative thinking, and work ethics.
2. Providing students with basic and professional knowledge leading to the Pharm D degree
3. Provide students with professional abilities to provide patient-centered care through the provision of safe and effective medicines
4. Provision of continued pharmaceutical education and participation in the field of scientific publications
5. Participate in process of improving professional qualification and competency locally, regionally, and internationally.

The Graduate Attributes:

Upon successful completion of an undergraduate Bachelor of Pharm. D. program, the graduates will be able to:

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

المدونة الأخلاقية للصيادلة:

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

يجب على الصيدلاني السريري 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 الصحي والتعامل معهم بشفافية وأمانة

مقدمة عن التدريب الميداني والسريري

يعد التدريب الميداني والسريري للصيدلي السريري ممارسة عملية وتجسيد منطقي للعلوم النظرية والتطبيقية التي تلاقها خلال فترة التحاقه بالبرنامج وإعداده مهنيًا لممارسة مهنة الصيدلة السريرية بكفاءة واقتدار، وإكسابه المهارات المهنية للمهنة ويتم التدريب الميداني والسريري بإشراف أعضاء من هيئة التدريس بالقسم يتم توزيعهم على الجامعات التي تنفذ التدريب الميداني والسريري في المستشفيات الحكومية والأهلية وصيدليات المستشفيات العامة والخاصة في نطاق سكن المتدرب. ويعد التدريب الميداني والسريري حلقة مهمة لاستكمال متطلبات التخرج وضرورة أساسية لصقل مهارات الصيدلي السريري ووقوفه على الواقع العملي لاكتشاف متطلباته وأخلاقيته والمشكلات العملية المختلفة واكتساب الحلول الناجعة لها وبإشراف وتقييم بنائي مباشر من أساتذة القسم.

أهداف التدريب الميداني والسريري:

- يسعى التدريب الميداني والسريري لطلبة الصيدلة السريرية لتحقيق الأهداف التالية
- تنمية مهارات الطلبة في المجال العملي الصيدلاني
- تطبيق المهارات النظرية التي تلقاها الطلبة وبلورتها في صورة عملية تطبيقية
- تنمية الشعور بالمسؤولية لدى الطلبة أثناء ممارسة المهنة 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.
-

آليات تصميم وتنفيذ التدريب الميداني والسريري

أولاً : تصميم الدليل التنفيذي للتدريب الميداني والسريري:

تم تصميم الدليل التدريبي بناء 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 الميداني والسريري:

- يتم تنفيذ التدريب الميداني لطلبة الصيدلة السريرية 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 والسريري وصياغة مبادئ تمثل جوانب الاتفاق القانوني بين الطرفين وتحديد أماكن التدريب وساعاته وأيامه.
 - تعيين مشرف من قبل الجهة التي تم التعاقد معها لاستقبال الطلبة المتدربين.
 - بناء معايير تقييم وتقويم للمتدربين توزع للمشرفين الأكاديميين والمشرف المعين من الجهة لإجراء التقييم المستمر للمتدربين.

ثالثا: توزيع الساعات التدريبية على مواقع التدريب

إجمالي الساعات التدريبية:

864 ساعة تدريبية موزعة على ثلاث مراحل:

المرحلة الأولى: تدريب صيدلاني (1)

ويكون بعد انتهاء الطالب من دراسة المستوى الرابع الترم الثاني

- (360) ساعة تدريبية توزع على (6) ساعات في اليوم الواحد ولمدة خمسة أيام في الأسبوع وتستمر لمدة (12) أسبوعا.

المرحلة الثانية: لبرنامج البكالوريوس في الصيدلة السريرية (خمس سنوات)

- تدريب سريري (1)

تكون خلال دراسة الطالب المستوى الخامس - الفصل الاول

- (252) ساعة تدريبية موزعة على اقسام المستشفى بحسب التوصيف المرفق.

وتوزع هذه المرحلة التدريبية على المستشفيات الحكومية والأهلية بين صيدلياتها وأقسامها الطبية المختلفة.

- تدريب سريري (2)

تكون خلال دراسة الطالب المستوى الخامس - الفصل الثاني

(252) ساعة تدريبية موزعة على اقسام المستشفى بحسب التوصيف المرفق.

وتوزع هذه المرحلة التدريبية على المستشفيات الحكومية والأهلية بين صيدلياتها وأقسامها الطبية المختلفة.

المرحلة الثانية: لبرنامج البكالوريوس دكتور صيدلي Pharm.D. (ست سنوات)

- سنه كاملة (سنة سادسة) موزعه على فصلين تدريب سريري بواقع (1104) ساعة
تدريبية موزعة على اقسام المستشفى بحسب التوصيفات المرفقة لعدد 10 مرور سريري
بالمستشفيات.

رابعاً: توزيع الطلبة

يتم توزيع الطلبة على مواقع التدريب وفقاً للتالي:

- توزيع الطلبة على أماكن التدريب التي تم اختيارها والتعاقد معها بحيث يختار 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.

خامساً: مسؤوليات لجنة الإشراف الأكاديمي على التدريب

يتم تشكيل لجان الإشراف الأكاديمي على الجامعات التدريبية من قبل عمادة كلية الصيدلة السريرية ورئيس القسم وفقاً للشروط التالية:

- ✓ ان يكون من حملة شهادة الدكتوراه في تخصص الصيدلة والصيدلة السريرية
- ✓ الخبرة العملية في الإشراف على التدريب الميداني والسريري
- ✓ وضع خطة تنفيذية للتدريب في ضوء الدليل
- ✓ مساعدة الطلبة وتذليل الصعوبات التي قد تواجههم وتعزيز جوانب القصور ومعالجتها أولاً 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 شهري لكل طالب

سادساً: مسؤوليات وضوابط الطلبة المتدربين

- ✓ الالتزام بالزي الرسمي 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 التي يتدرب فيها

✓ يتحمل الطالب المسؤولية في حالة التقصير في عمله التدريبي أو التسبب بأي أضرار تلحق بالجهة التي يتدرب فيها.

سابعا: مسؤوليات 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 اليومي
- ✓ 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
- ✓ الاحتفاظ بالوثائق والسجلات الخاصة بالتدريب.

إجراءات تقييم وتقويم الطلبة المتدربين ومعايير التقييم وطرقه

A. Community Pharmacy Training (According to Course Description)

No.	Supervisor	Assessment	Maximum Score	Achieved Score
1	Community Pharmacy Preceptor	Assignments	20	
2		Adherence to Professional Attitudes	10	
3		Skills Acquired during Training	20	
5	College Supervisor	Quizzes	10	
6		General Written Examination	40	
	Total		100	

B. Hospital Ward Training (According to Course Description)

No.	Supervisor	Assessment	Maximum Score	Achieved Score
1	Ward Preceptor	Assignments	20	
2		Adherence to Professional Attitudes	10	
3		Skills Acquired during Training	20	
5	College Supervisor	Formal Case Presentation	10	
6				
7		General Written Examination	40	
	Total		100	

سياسات الغياب والانضباط:

- يمنح الطالب درجة التقييم الميداني عند استكمال ساعات التدريب الميداني بشكل كامل.
- عند حصول ظرف طارئ يحول دون استكمال فترة التدريب يتم التنسيق مع عمادة كلية الصيدلة السريرية 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 أدخل بعمله التدريب الموكل إليه يتحمل كافة النتائج المترتبة على تقصيره أو إهماله.

إلغاء أو حرمان الطالب من التدريب الميداني والسريري:

تُلغى فترة التدريب الميداني للطالب في الحالات التالية:

- 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 وتساولات 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

Attendance Record Completed by the Preceptor

Preceptor Details

Preceptor Name: Pharmacy Name:
Preceptor Qualification: Phone/Mobile Number:
Preceptor Position in the Pharmacy: E-mail address:

Student's Details:

Student's Name:
Students I.D.:

No. of Week	Date	Day	AM		PM		Total Hrs	Comments and Signature
			In	Out	In	Out		
Week 1		S						
		Su						
		M						
		T						
		W						
		Th						
Week 2		S						
		Su						
		M						
		T						
		W						
		Th						
Week 3		S						
		Su						
		M						
		T						
		W						
		Th						
Week 4		S						
		Su						
		M						
		T						
		W						
		Th						
Week 5		S						
		Su						
		M						
		T						
		W						
		Th						
Week 6		S						
		Su						
		M						

	T							
	W							
	Th							
Week 7	S							
	Su							
	M							
	T							
	W							
Week 8	Th							
	S							
	Su							
	M							
	T							
Week 9	W							
	Th							
	S							
	Su							
	M							
Week 10	T							
	W							
	Th							
	S							
	Su							
Week 11	M							
	T							
	W							
	Th							
	S							
Week 12	Su							
	M							
	T							
	W							
	Th							
Total Hrs								

إفادة تدريب ميداني من جهة التدريب

تفيد إدارة بأن المتدرب/ة

قد مارس التدريب العملي في

من تاريخ /...../ 202....م إلى :/...../ 202....م

بإجمالي ساعات تدريبية ()

وقد كان/ت في فترة تدريبه

.....

متمنين له دوام التوفيق

المدير العام

الموضوع / إرسالية تدريب ميداني وسري

الإخوة في /

تهديكم جامعة 21 سبتمبر للعلوم الطبية والتطبيقية – كلية الصيدلة السريرية أطيب
تحياتها وتتمنى لكم التوفيق في مهامكم، وإشارة للموضوع أعلاه فإن الطالب /

اسم الطالب	التخصص

يرغب بالتدريب في في مجال تخصصه، أملين منكم
التعاون معه وتمكينه من ممارسة التدريب وفقا للنظام المعمول به لديكم.

وتقبلوا خالص التحية

عميد الكلية

د. علي عبد الله اليحوي

استمارة تقييم التدريب الميداني (تعباً من قبل المتدرب)

اسم الطالب /	
جهة التدريب /	
فترة التدريب	من إلى

نرجو تعبئة الاستمارة بدقة وحرص

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

برجاء ذكر أهم الإيجابيات أثناء التدريب:

.....

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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	

م	بند التقييم	جيد	متوسط	ضعيف	ملاحظات
المهارات والقدرات الشخصية					
1	يلتزم بالمظهر العام والزي الرسمي				
2	يتواصل بفاعلية مع الجمهور				
3	متمكن من العمل ضمن الفريق				
4	القدرة على تحمل ضغوط العمل				
5	امتلاك روح المبادرة والمسئولية				
المهارات العملية والأدائية التخصصية					
6	الحرص والمواظبة على أوقات التدريب				
7	الدقة في إنجاز المهام الموكلة				
8	امتلاك المعرفة التخصصية الكافية لتنفيذ المهمة				
9	متمكن من التعامل مع جميع أصناف				

الأدوية				
10	إتقان قراءة الوصفات الطبية بعناية			
11	متمكن من رصد ومتابعة الآثار الجانبية للدواء			
12	يجيد تقييم الحالة قبل صرف الدواء			
13	متمكن من تسيير المهام الإدارية الصيدلانية			
14	يجيد استخدام الحاسوب ونظم المعلومات الصيدلانية			
15	متمكن من المشاركة في تصميم خطط علاجية للمرضى بعناية			
16	يطبق أنظمة السلامة والأمن الدوائي			
17	مستوعب للأصناف الدوائية تجارياً وعلمياً			
18	يجيد التسويق الدوائي والإقناع العلمي			

توقيعه

اسم المشرف

ختم واعتماد جهة التدريب

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

نموذج طلب شهادة تدريب إلزامي

اسم المتدرب باللغة العربية

اسم المتدرب باللغة الإنجليزية

التخصص

الفترة التدريبية: من إلى

إجمالي ساعات التدريب

م	جهة التدريب	مركز التدريب	من	إلى	ملاحظات
1	صيدليات المجتمع				
2	صيدليات المستشفيات				
3	أقسام المستشفيات الطبية				
4	مراكز الرعاية الطبية				
5					

	صيدليات المجتمع	صيدليات المستشفيات	أقسام المستشفيات الطبية	مراكز الرعاية الطبية	المجموع
التقييم النهائي					
الفترة الزمنية والحضور					
ملاحظات					
المجموع					

تم تدقيق البيانات من واقع السجلات التقييمية وتوصي اللجنة ب:

.....

.....

رأي لجنة الإشراف الأكاديمي على التدريب الميداني:

.....

عميد الكلية

شهادة تدريب إلزامي

تشهد كلية الصيدلة السريرية بجامعة 21 سبتمبر للعلوم الطبية والتطبيقية
بأن الطالب /.....

قد أدى فترة التدريب الإلزامي للفترة من إلى
وبإجمالي ساعات تدريبية (.....)

في المراكز التدريبية التالية:

..... و..... و.....

وقد اجتاز فترة التدريب الإلزامي بنجاح وبتقدير عام (.....)

رئيس لجنة الإشراف الأكاديمي

المشرف الميداني

ختم وتوقيع جهة التدريب

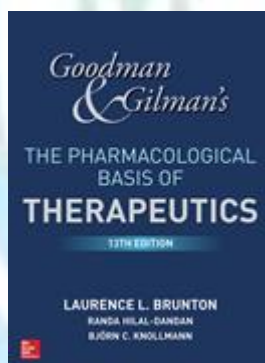
عميد الكلية

The following resources may be used to help you in your report:

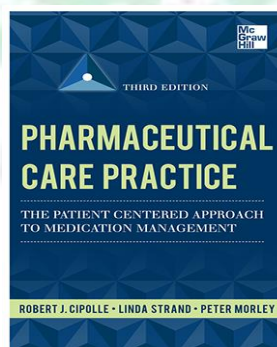
1. BNF 85 (British National Formulary) March 2023



2. Goodman & Gilman's The Pharmacological Basis of Therapeutics, 13th edition, by: Laurence Brunton, John Lazo, Keith Parker. The McGraw-Hill Companies, Inc., 2018.



3. Pharmaceutical Care Practice: The Patient-Centered Approach to Medication Management Services, 3e by Robert J. Cipolle, Linda M. Strand, Peter C. Morley



4. Pharmacotherapy: A Pathophysiologic Approach, 12th edition, **by:** Joseph T. DiPiro, Gary C. Yee, Stuart T. Haines, Thomas D. Nolin, Vicki L. Ellingrod, L. Michael Posey. The McGraw-Hill Companies, Inc., 2023



5. Lexicomp Drug Information Handbook, March 20, 2023



The following format (the next pages) can be utilized by student to make up the training report and by college supervisor and on-site preceptor to evaluate the student:

FORM-1: SCREENING

Date	Type of Interventions				Point of Screening (*R/F/D)	Description of intervention(s)
	Incomplete Prescriptions	Inappropriate Regimens	Inappropriate Prescriptions	Other		

Type of Interventions:

- | | | | | | |
|--------------------------------|---|--|--------------------------|----------------------|--------------------------------------|
| 1. Incomplete Prescriptions | - | (a) Frequency | (b) Duration | (c) Signature & chop | (d) Countersignature |
| 2. Inappropriate Regimens | - | (a) Medicine | (b) Duration | (c) Dose | (d) Frequency |
| 3. Inappropriate Prescriptions | - | (a) Spelling | (b) Wrong Identification | (c) Polypharmacy | (d) Interaction (e) Contraindication |
| 4. Other | - | (a) Not in the hospital drug formulary | (b) Authenticity | (c) Illegibility | |

*** R: Receiving F: Filling D: Dispensing**

Name of Preceptor & Signature:



❖ **FORM-2: FILLING OF PRESCRIPTIONS (Include Labeling and Recording):** At least 20 complete filling processes must be assessed by a senior pharmacist

Date of assessment	Patient Particulars	No. of Item in Prescriptions	Remarks	Name & Signature of Senior Pharmacist



❖ **FORM-3: DISPENSING** (Minimum 10 Prescriptions/ Day)

Date	Number of Prescriptions Dispensed	Name & Signature of Preceptor



❖ **FORM-4: MEDICATION COUNSELING** (INDIVIDUAL – Minimum 8 sessions/ week): At least 4 counseling sessions must be directly observed and assessed by a senior pharmacist

Date	Patients RN	Counseling Based on The Types Of Pharmacotherapy Management –minimum 2 patients/ type				Name & Signature of Preceptor
		Antidiabetics	Antihypertensives	Antiasthmatics	Others (Please Specify)	

❖ **FORM-5: Selected pharmaceutical products available in Yemen in the year -----** (Min: 20 pharmaceutical products / week)

No.	Class	Proprietary Name	Example of trade names and dosage forms available in Yemen market
1			
2			
3			
4			
5			
6			
7			

❖ **FORM-6: Extemporaneous Preparations:** Ability to understand formulation and calculate the appropriate quantities required.

Date	MRN	Name of Preparation (MINIMUM 2 PREPARATIONS/ Week)	Remarks	Signature of Preceptor



❖ **FORM-7: Community Pharmacy Management Assessment**

No.	Task	Level of Performance										Signature of Preceptor
		1	2	3	4	5	6	7	8	9	10	
1	Describe the drug range, generic names, proprietary names, pharmacological groupings, Ministry of Health / Hospital Formularies											
2	Describe the good dispensing procedure											
3	Describe the stock movement and inventory control											
MARKS												

❖ **FORM-8: Community Pharmacy Skills Assessment**

No.	Demonstrate the skill of	Level of Performance										Comments
		1	2	3	4	5	6	7	8	9	10	
1	Screening of prescription											
2	Filling of Prescriptions											
3	Dispensing											
4	Medication counseling											
6	Preparing / Counter-Checking of Extemporaneous											
7	Community Pharmacy Management											
Marks: Total Marks = $\frac{\quad}{70} \times 100 \%$ Then convert 70 marks to 10 marks.												

❖ FORM-9: INVENTORY CONTROL AND STORE MANAGEMENT

- Knowledge and understanding of the principles of procurement and distribution, storage, inventory control, disposal, product complaints and product recall.

Date	Task	Level of Performance										Comments	Name and Signature of Preceptor
		1	2	3	4	5	6	7	8	9	10		
	1. STORE MANAGEMENT Describe principles of store management organization structure stock movement, treasury instructions (direct purchase, quotation and tender), control, cleanliness and security												
	2. PROCUREMENT AND DISTRIBUTION Describe ordering process and monitoring of vendor performances												
	3. STORAGE Describe storage in accordance to Good Storage Practice (identify storage requirement of biological, cytotoxic drugs, refrigerator items, and inflammable and corrosive items; cold chain management).												



❖ **FORM-10: Reviewing of Patient Medication Profiles** (Min: 10 Patients Medication Profiles / week)

Date	Number of profiles reviewed	Number of Intervention	Types of intervention *	Number of Communications with doctors	Comments	Signature of Preceptor



❖ **FORM-11: PATIENT MEDICATION COUNSELING:** Bedside Dispensing and Discharge Counseling (Minimum: 5 sessions/ week): At least 1 bedside dispensing and counseling must be assessed by a senior pharmacist

Date	Patients RN	Counseling Based on The Types of Pharmacotherapy Management –minimum 1 patients/ type				Name & Signature of Preceptor
		Antidiabetics	Antihypertensives	Antiasthmatics	Others (Please Specify)	

❖ **FORM-12: IN-PATIENT PHARMACY MANAGEMENT ASSESSMENT**

No.	Task	Level of Performance										Comments	Name & Signature of preceptor
		1	2	3	4	5	6	7	8	9	10		
1	Describe the staff management and training												
2	Describe drug range and generic names, proprietary names, pharmacological groupings, Ministry of Health / Hospital Formularies												
3	Demonstrate the ability to make manually record /computerized system and produce label												
	MARKS: Marks: Total Marks = $\frac{\quad}{30} \times 100 \%$												



❖ **FORM-13: CASE REPORT & CASE PRESENTATION (MINIMUM: 1 CASE/ WEEK)**

- To assess the ability in clerking case, comprehend patient's case note, complete case report study with evidence-based approach and recommend related pharmaceutical care issues of the patients.
- Case presentation should be conducted in the clinical meeting or in the ward
- To assess the ability to comprehend case notes, device therapeutic plan, communication and presentation of case to other healthcare personnel in order to enhance rational drug use

Date	Types of Case Presented	Remarks	Preceptor's Initial

❖ **FORM-14: ADR REPORT** (MINIMUM: 1 CASE; IF ANY/ WEEK)

- ADR can be reported from other activities
- To assess the ability to identify ADR and perform ADR report

Date	MRN	Suspected Drug Causing the ADR	Remarks	Preceptor's Initial

❖ **FORM-15: Hospital Ward Evaluation**

Date	Demonstrate the skill of	Level of Performance										Comments	Name & Signature of preceptor
		1	2	3	4	5	6	7	8	9	10		
1	Medication History Assessment												
2	Clerking & Reviewing Clinical Case												
3	Medication Counseling												
4	Ward Round / Pharmacist Round												
5	Case Reporting												
6	Case Presentation												
7	ADR Reporting (if any)												
MARKS													

دليل التدريب للحالات المرضية السريرية

Manual For Hospital Training (Formal Case Manual)

Dr. Ali Alyahawi

Ass. Professor of Clinical Pharmacy and Therapeutics

21 September University for Medicals & Applied Sciences

College of Clinical Pharmacy

Pharmaceutical Care Practice Forms

Table 1. Demographic & Administrative Information

Patient Name (ID):	Physician Name:
Address:	Pt. Room Number:
Age:	Occupation:
Gender:	Admission Date:
Height (cm):	GFR:
BMI(kg/m²):	Discharge Date:
Marital Status:	Education Level:
Chief of Complaint (Location, characteristics, aggravating and alleviating factors, timing and severity):	
Past Medical / Surgical History:	
Family / Social History (disease in first relative, care giver, living arrangement and daily activities)	
Life style (Diet, smoking, exercise, alcohol, caffeine):	

Current Medical problems (disease type, current status, duration):

ROS:

GEN.

HEENT

CAR.

ABD.

NEURO.

PSY.

Table 2. Vital sings / lab data (initial and follow up)

<div>Date</div> <div>Vital sings</div>								Normal Range	Interpretation
Wt									
Temp									
Blood Pressure									
Pulse									
R.R.									
PaO ₂									
WBC								4.00-10.0	
NEU								1.63-6.96	
LYM								1.09-2.99	
MON								.240-.790	
EOS								.030-.440	
BASO								0.00-1.00	
RBC								4.00-6.00	
HGB								13.0-18.0	
HCT								42.0-54.0	
HCV								76.0-96.0	
MCHC								30.035.0	
RDW								11.5-14.5	
PLT								155.-450	
ESR								Upto 10	
PT									
INR									
HbA1c								< 6.5 %	

T. Bilirubin								Up to 18.8	
D. Bilirubin								Up to 3.4	
SGOT								Up to 42	
SGPT								Up to 42	
ALK.Phosphatase								52-171	
Urea								1.7-8.3	
Creatinine								50-106	
Albumin								50-35	
K+								3.5-5.3	
Na+								130-153	
Ca++								2.0-2.6	

HbA_{1c} : Pre - DM (5.7-6.4 %) / DM $\geq$ 6.5% / Normal < 6.5 %

Table 3. Current (Actual) regimen

[illegible]

Table 4. Pharmacotherapy regimen assessment sheet

[illegible]

Table 5. Drugs / Food Interactions

[illegible]

Table 6. Pharmaceutical Care plan

[illegible]

Table 7. Evaluation

Medical Condition: _____

	Outcome Parameter	Pretreatment Baseline (Date)	First Follow-up (Date)	Second Follow-up (Date)
EFFECTIVENESS	Sign/symptom			
	Sign/symptom			
	Lab value			
	Lab value			
SAFETY	Sign/symptoms			
	Signs/symptoms			
	Lab value			
	Lab value			
	Other			
STATUS	STATUS Initial: goals being established, initiate new therapy Resolved: goals achieved, therapy completed Stable: goals achieved, continue same therapy Improved: adequate progress being made, continue same therapy Partial Improvement: progress being made, adjustments in therapy required Unimproved: no progress yet, continue same therapy Worsened: decline in health, adjust therapy Failure: goals not achieved, discontinue current therapy and replace with different therapy			
New Drug Therapy Problems Identified			☐ none at this time ☐ documented	☐ none at this time ☐ documented
Date	Schedule for next follow-up	Comments		

Signature _____ Date _____

DRUG THERAPY PROBLEMS TO BE RESOLVED

DRUG THERAPY PROBLEMS	MEDICAL CONDITION AND DRUG THERAPY INVOLVED	INDICATION Unnecessary Drug Therapy ☐ No medical indication ☐ Duplicate therapy ☐ Nondrug therapy indicated ☐ Treating avoidable ADR ☐ Addictive/recreational Needs Additional Drug Therapy ☐ Untreated condition ☐ Preventive/prophylactic ☐ Synergistic/potentiating
	MEDICAL CONDITION AND DRUG THERAPY INVOLVED	EFFECTIVENESS Needs Different Drug Product ☐ More effective drug available ☐ Condition refractory to drug ☐ Dosage form inappropriate ☐ Not effective for condition Dosage Too Low ☐ Wrong dose ☐ Frequency inappropriate ☐ Drug interaction ☐ Duration inappropriate
	MEDICAL CONDITION AND DRUG THERAPY INVOLVED	SAFETY Adverse Drug Reaction ☐ Undesirable effect ☐ Unsafe drug for patient ☐ Drug interaction ☐ Dosage administered or changed too rapidly ☐ Allergic reaction ☐ Contraindications present Dosage Too High ☐ Wrong dose ☐ Frequency inappropriate ☐ Duration inappropriate ☐ Drug interaction ☐ Incorrect administration
	MEDICAL CONDITION AND DRUG THERAPY INVOLVED	COMPLIANCE Noncompliance ☐ Directions not understood ☐ Patient prefers not to take ☐ Patient forgets to take ☐ Drug product too expensive ☐ Cannot swallow/administer ☐ Drug product not available
	☐ No Drug Therapy Problem(s) at this time	

Republic of Yemen

Ministry of Higher Education & Scientific Research

21 September University for Medicals & Applied Sciences



Faculty of Clinical Pharmacy

Bachelor of Clinical Pharmacy & Pharm. D.

Course Specification of **Clerkship-I**

Course No. (02.01.221)

2016/2017

Prepared by:	Reviewed by:	Head of the Department:	Vice Dean for Quality affairs	Dean of College:
Dr. Ali Alyahawi	Dr. Hassan Al Mahbashi	Dr. -----	Dr. Abdulelah Thabet	Dr. Ali Alyahawi

I. Course Identification and General Information:

1	Course Title:	Clerkship-I			
2	Course Code & Number:	02.01.221			
3	Credit Hours:	Credit Hours	Theory Hours		Training Hours
			Lecture	Exercise	
		5	--	--	252 hrs.
4	Study Level/ Semester at which this Course is offered:	Level 5 / Semester 1			
5	Pre –Requisite (if any):	Therapeutics- III			
6	Co –Requisite (if any):	Therapeutics- IV			
7	Program (s) in which the Course is Offered:	Bachelor Degree in Clinical Pharmacy			
8	Language of Teaching the Course:	English			
9	Study System:	Semester based System			
10	Mode of Delivery:	Full Time			
11	Location of Teaching the Course:	21 September University			
12	Prepared by:	Dr. Ali Al-Yahawi			
13	Date of Approval:	2017			

II. Course Description:

The clinical training-1 course is designed to integrate the student skills and knowledge of pharmacology, therapeutic and clinical courses in practice real cases to identify and resolve different treatment related problems. Students will participate in medical ward rounds, case seminars & hospital education programs. Available rotations include: Cardiology, Infectious Diseases, Surgery, Endocrine, Respiratory, Nephrology, and GIT. Students will be involved in clinical research & assignments, as well as in patient monitoring.

III. Course Intended Learning Outcomes (CILOs) : Upon successful completion of the course, students will be able to:		Referenced PILOs Learning out of program
A. Knowledge and Understanding:		
a 1	Describe the etiology, pathophysiology, treatment (drug and non-drug), and prevention for selected hospital cases.	A1, A3, A4
a 2	Define the clinical pharmacist services in identifying and resolving different treatment related problems for selected hospital cases.	A5, A7
B. Intellectual Skills:		
b 1	Collect and integrate the essential and accurate information about patients and their conditions	B2,B3
b 2	Identify specific drug-related problems and prioritize responsibilities to provide the patient care	B5
b 3	Construct appropriate pharmacotherapy treatment and monitoring plans for selected hospital cases.	B6
C. Professional and Practical Skills:		
c1	Implement evidence based, patient-centered pharmaceutical care as an integral part of an interdisciplinary team and optimize the outcomes of patients of selected hospital cases.	C2, C3, C5
c2	Provide the patients and the healthcare team with updated sources of information regarding the optimal use, expected outcomes, and adverse effects of drug therapy regimens.	C6
D. Transferable Skills:		
d1	Share successfully in team-work and improve student skills of patients interview.	D1
d2	Search efficiently in the medical journal databases by browsing the internet professional sites for Evidence-Based Medicine (EBM)	D2, D3

(a) Alignment Course Intended Learning Outcomes of Knowledge and Understanding to Teaching Strategies and Assessment Strategies:

Course Intended Learning Outcomes	Teaching strategies	Assessment Strategies
a1- Describe the etiology, pathophysiology, treatment (drug and non-drug), and prevention for selected hospital cases.	<ul style="list-style-type: none"> - Clinical cases studies - Small practical session and discussion - Seminars - Manuals - Use of advanced database search - Individual supervision - Self-learning 	<ul style="list-style-type: none"> - Assignments - Oral case discussions during clinical rounds - Pharmacy practice manual - Formal case presentation - Presentation for one of the course content topics. - Exam
a2. Define the clinical pharmacist services in identifying and resolving different treatment related problems for selected hospital cases.	<ul style="list-style-type: none"> - Clinical cases studies - Small practical session and discussion - Seminars - Manuals - Use of advanced database search - Individual supervision - Self-learning 	<ul style="list-style-type: none"> - Assignments - Oral case discussions during clinical rounds - Pharmacy practice manual - Formal case presentation - Presentation for one of the course content topics. - Exam

(b) Alignment Course Intended Learning Outcomes of Intellectual Skills to Teaching Strategies and Assessment Strategies:

Course Intended Learning Outcomes	Teaching strategies	Assessment Strategies
b1- Collect and integrate the essential and accurate information about patients and their conditions	<ul style="list-style-type: none"> - Clinical cases studies - Small practical session and discussion - Seminars - Manuals - Use of advanced database search - Individual supervision - Self-learning 	<ul style="list-style-type: none"> - Assignments - Oral case discussions during clinical rounds - Pharmacy practice manual - Formal case presentation - Presentation for one of the course content topics. - Exam
b2. Identify specific drug-related problems and prioritize	<ul style="list-style-type: none"> - Clinical cases studies 	<ul style="list-style-type: none"> - Clinical cases studies

responsibilities to provide the patient care	<ul style="list-style-type: none"> - Small practical session and discussion - Seminars - Manuals - Use of advanced database search - Individual supervision - Self-learning 	<ul style="list-style-type: none"> - Small practical session and discussion - Seminars - Manuals - Use of advanced database search - Individual supervision - Self-learning
b3. Construct appropriate pharmacotherapy treatment and monitoring plans for selected hospital cases.	<ul style="list-style-type: none"> - Clinical cases studies - Small practical session and discussion - Seminars - Manuals - Use of advanced database search - Individual supervision - Self-learning 	<ul style="list-style-type: none"> - Clinical cases studies - Small practical session and discussion - Seminars - Manuals - Use of advanced database search - Individual supervision - Self-learning

(c) Alignment Course Intended Learning Outcomes of Professional and Practical Skills to Teaching Strategies and Assessment Strategies:

Course Intended Learning Outcomes	Teaching strategies	Assessment Strategies
C1- Implement evidence based, patient-centered pharmaceutical care as an integral part of an interdisciplinary team and optimize the outcomes of selected hospital cases.	<ul style="list-style-type: none"> - Clinical cases studies - Small practical session and discussion - Seminars - Manuals - Use of advanced database search - Individual supervision - Self-learning 	<ul style="list-style-type: none"> - Assignments - Oral case discussions during clinical rounds - Pharmacy practice manual - Formal case presentation - Presentation for one of the course content topics. - Exam
C2- Provide the patients and the healthcare team with updated sources of information regarding the optimal use, expected outcomes, and adverse effects of drug therapy regimens.	<ul style="list-style-type: none"> - Clinical cases studies - Small practical session and discussion - Seminars - Manuals - Use of advanced database search - Individual supervision - Self-learning 	<ul style="list-style-type: none"> - Assignments - Oral case discussions during clinical rounds - Pharmacy practice manual - Formal case presentation - Presentation for one of the course content topics. - Exam

(d) Alignment Course Intended Learning Outcomes of Transferable Skills to Teaching Strategies and Assessment Strategies:

Course Intended Learning Outcomes	Teaching strategies	Assessment Strategies
d1- Share successfully in team-work and improve student skills of patients interview.	<ul style="list-style-type: none"> - Small practical session and discussion - Seminars 	<ul style="list-style-type: none"> - Oral case discussions during clinical rounds - Formal case presentation - Presentation for one of the course content topics.
d2- Search the medical journal databases by browsing the internet professional sites for Evidence-Based Medicine (EBM)	<ul style="list-style-type: none"> - Use of advanced database search - Self-learning 	<ul style="list-style-type: none"> - Assignments - Formal case presentation - Presentation for one of the course content topics. - Exam

IV. Course Contents:

A. Theoretical Aspect:

No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
1	NA	—			
2		—			
3		—			
12					
Number of Weeks /and Units Per Semester					

B. Case Studies and Practical Aspect:

Order	Unit/ Topics List	Number of Weeks	contact hours	Learning Outcomes
1	Cardiology	Two Weeks	42 hrs. (36 hrs. on-site a ward rotation + 6 hrs. a formal case presentation at the end of the rotation)	a 1, a2, b1, b2, b3, c1, c2, d1, d2
2	Infectious Diseases & Surgery	Two Weeks	42 hrs. (36 hrs. on-site a ward rotation + 6 hrs. a formal case presentation at the end of the rotation)	a 1, a2, b1, b2, b3, c1, c2, d1, d2
3	Endocrine	Two Weeks	42 hrs. (36 hrs. on-site a ward rotation + 6 hrs. a formal case presentation at the end of the rotation)	a 1, a2, b1, b2, b3, c1, c2, d1, d2
4	Respiratory	Two Weeks	42 hrs. (36 hrs. on-site a ward rotation + 6 hrs. a formal case presentation at the end of the rotation)	a 1, a2, b1, b2, b3, c1, c2, d1, d2
5	Nephrology	Two Weeks	42 hrs. (36 hrs. on-site a ward rotation + 6 hrs. a formal case presentation at the end of the rotation)	a 1, a2, b1, b2, b3, c1, c2, d1, d2
6	GIT	Two Weeks	42 hrs. (36 hrs. on-site a ward rotation + 6 hrs. a formal case presentation at the end of the rotation)	a 1, a2, b1, b2, b3, c1, c2, d1, d2
7	Final Exam	Week 13	The Last week of Course Training	a 1, a2, b1, b2, b3, c1, c2, d1, d2
Number of Weeks /and Units Per Semester: 13 weeks			252	

C. Tutorial Aspect: (ان وجدت)

No.	Tutorial	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
1				
2	1-			

V. Teaching Strategies of the Course:

- Clinical cases studies
- Small practical session and discussion
- Seminars
- Manuals
- Use of advanced database search
- Individual supervision
- Collecting, interpreting, and integrating available information in disease state
- Self-learning

VI. Assessment Methods of the Course:

- Assignments
- Oral case discussions during clinical rounds
- Pharmacy practice manual
- Formal case presentation
- Exam

VII. Assignments:

No	Assignments	Aligned CILOS(symbols)	Week Due	Mark
1	Assignment 1: Develop a pharmaceutical care plan for selected case in CVD according to appropriate primary literature and updated guidelines.	a 1, a2, b1, b2, b3, c1, c2, d1, d2	Week 3	5
2	Assignment 2: Develop a pharmaceutical care plan for selected case of DM according to appropriate primary literature and updated guidelines.	a 1, a2, b1, b2, b3, c1, c2, d1, d2	Wee 6	5
3	Assignment 1: Develop a pharmaceutical care plan for selected case of CKD according to appropriate primary literature and updated guidelines.	a 1, a2, b1, b2, b3, c1, c2, d1, d2	Week 9	5
4	Assignment 2: Develop a pharmaceutical care plan for selected case in GIT according to appropriate primary literature and updated guidelines.	a 1, a2, b1, b2, b3, c1, c2, d1, d2	Wee 12	5
Total				20

VIII. Schedule of Assessment Tasks for Students During the Semester:

No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment	Aligned Course Learning Outcomes
1	Assignments	Course Training Period	20	20 %	a 1, a 2, b1, b2, b3, c1, c2, d1, d2
2	Adherence to Professional Attitudes	Course Training Period	10	10 %	d1, d2
3	Skills Acquired during Training	Course Training Period	20	20 %	b1, b2, b3, c1, c2, d1,
4	Formal Case Presentation	Last Week of Each Rotation	10	10 %	a 1, a2, b1, b2, b3, c1, c2, d2
5	General Written Examination	Last Week of Each Rotation	40	40 %	a1, a2, b1, b2, b3, c1, c2, d2
Total			100	100%	

IX. Learning Resources:

- Written in the following order: (Author - Year of publication – Title – Edition – Place of publication – Publisher).

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

1. Chisholm-Burns et al, 2019 , Pharmacotherapy principles & practice. 5rd edition.
2. Katzung, 2018, Basic & Clinical Pharmacology. 14th edition.

2- Essential References.

1. DiPiro et al, 2020, Pharmacotherapy: A Pathophysiological Approach, 11th edition.
2. Caroline S. Zeind and Michael G. Carvalho, 2018, Applied Therapeutics: The Clinical of Drugs, 11th edition.
3. Walker & Whittlesea, 2018. Clinical Pharmacy and Therapeutics, 6 edition.

3- Electronic Materials and Web Sites etc.

- UpToDate
- <http://www.globalrph.com/>
- Updated Clinical Practice Guidelines for selected course disorders

X. Course Policies: (Based on the Uniform Students' By law (2007))

1	Class Attendance: Class Attendance is mandatory. A student is considered absent and shall be banned from taking the final exam if his/her absence exceeds 25% of total classes.
2	Tardiness: A student will be considered late if he/she is not in class after 10 minutes of the start time of class.
3	Exam Attendance/Punctuality: No student shall be allowed to the exam hall after 30 minutes of the start time, and shall not leave the hall before half of the exam time has passed.
4	Assignments & Projects: Assignments and projects must be submitted on time. Students who delay their assignments or projects shall lose the mark allocated for the same.
5	Cheating: Cheating is an act of fraud that results in the cancelation of the student's exam or assignment. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' Bylaw (2007) shall apply.
6	Forgery and Impersonation: Forgery/Impersonation is an act of fraud that results in the cancelation of the student's exam, assignment or project. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' Bylaw (2007) shall apply.
7	Other policies: The University official regulations in force will be strictly observed and students shall comply with all rules and regulations of the examination set by the Department, Faculty and University Administration.

21 September University for Medicals & Applied Sciences

Faculty of Clinical Pharmacy

Bachelor of Clinical Pharmacy & Pharm. D.

Course Specification of **Clerkship-I**

Course No. (02.01.221)

2016/2017

Prepared by:	Reviewed by:	Head of the Department:	Vice Dean for Quality affairs	Dean of College:
Dr. Ali Alyahawi	Dr. Hassan Al Mahbashi	Dr. -----	Dr. Abdulelah Thabet	Dr. Ali Alyahawi

I. Information about Faculty Member Responsible for the Course:						
Name of Faculty Member:	Dr. Ali Alyahawi			Office Hours		
Location & Telephone No.:	775957401					
E-mail:	alyahawipharm@yahoo.com			SAT	SUN	MON TUE WED THU

II. Course Identification and General Information:

1	Course Title:	Clerkship-I			
2	Course Code & Number:	02.01.221			
3	Credit Hours:	Credit Hours	Theory Hours		Training Hours
			Lecture	Exercise	
		5	--	--	252 hrs.
4	Study Level/ Semester at which this Course is offered:	Level 5 / Semester 1			
5	Pre –Requisite (if any):	Therapeutics- III			
6	Co –Requisite (if any):	Therapeutics- IV			
7	Program (s) in which the Course is Offered:	Bachelor Degree in Clinical Pharmacy			
8	Language of Teaching the Course:	English			
9	Study System:	Semester based System			
10	Mode of Delivery:	Full Time			
11	Location of Teaching the Course:	21 September University			
12	Prepared by:	Dr. Ali Al-Yahawi			
13	Date of Approval:	2017			

III. Course Description:

The clinical training-1 course is designed to integrate the student skills and knowledge of pharmacology, therapeutic and clinical courses in practice real cases to identify and resolve different treatment related problems. Students will participate in medical ward rounds, case seminars & hospital education programs. Available rotations include: Cardiology, Infectious Diseases, Surgery, Endocrine, Respiratory, Nephrology, and GIT. Students will be involved in clinical research & assignments, as well as in patient monitoring.

IV. Course Intended Learning Outcomes (CILOs) :

Upon successful completion of the Course, student will be able to:

A. Knowledge and Understanding:

a 1	Describe the etiology, pathophysiology, treatment (drug and non-drug), and prevention for selected hospital cases.	A1, A3, A4
a 2	Define the clinical pharmacist services in identifying and resolving different treatment related problems for selected hospital cases.	A5, A7

B. Intellectual Skills:

b 1	Collect and integrate the essential and accurate information about patients and their conditions	B2,B3
b 2	Identify specific drug-related problems and prioritize responsibilities to provide the patient care	B5
b 3	Construct appropriate pharmacotherapy treatment and monitoring plans for selected hospital cases.	B6

C. Professional and Practical Skills:

c1	Implement evidence based, patient-centered pharmaceutical care as an integral part of an interdisciplinary team and optimize the outcomes of patients of selected hospital cases.	C2, C3, C5
c2	Provide the patients and the healthcare team with updated sources of information regarding the optimal use, expected outcomes, and adverse effects of drug therapy regimens.	C6

D. Transferable Skills:

d1	Share successfully in team-work and improve student skills of patients interview.	D1
d2	Search efficiently in the medical journal databases by browsing the internet professional sites for Evidence-Based Medicine (EBM)	D2, D3

V. Course Contents:

A. Theoretical Aspect:

No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours
1	NA	—		
2		—		
3		—		
12				
Number of Weeks /and Units Per Semester				

No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours
1	NA	—		
2		—		
3		—		
12				
Number of Weeks /and Units Per Semester				

No.	Tutorial	Number of Weeks	Contact Hours
1			
2	2-		

B. Case Studies and Practical Aspect:				
Order	Unit/ Topics List	Number of Weeks	contact hours	Learning Outcomes
1	Cardiology	Two Weeks	42 hrs. (36 hrs. on-site a ward rotation + 6 hrs. a formal case presentation at the end of the rotation)	a 1, a2, b1, b2, b3, c1, c2, d1, d2
2	Infectious Diseases & Surgery	Two Weeks	42 hrs. (36 hrs. on-site a ward rotation + 6 hrs. a formal case presentation at the end of the rotation)	a 1, a2, b1, b2, b3, c1, c2, d1, d2
3	Endocrine	Two Weeks	42 hrs. (36 hrs. on-site a ward rotation + 6 hrs. a formal case presentation at the end of the rotation)	a 1, a2, b1, b2, b3, c1, c2, d1, d2
4	Respiratory	Two Weeks	42 hrs. (36 hrs. on-site a ward rotation + 6 hrs. a formal case presentation at the end of the rotation)	a 1, a2, b1, b2, b3, c1, c2, d1, d2
5	Nephrology	Two Weeks	42 hrs. (36 hrs. on-site a ward rotation + 6 hrs. a formal case presentation at the end of the rotation)	a 1, a2, b1, b2, b3, c1, c2, d1, d2
6	GIT	Two Weeks	42 hrs. (36 hrs. on-site a ward rotation + 6 hrs. a formal case presentation at the end of the rotation)	a 1, a2, b1, b2, b3, c1, c2, d1, d2
7	Final Exam	Week 13	The Last week of Course Training	a 1, a2, b1, b2, b3, c1, c2, d1, d2
Number of Weeks /and Units Per Semester: 13 weeks			252	

VI. Teaching Strategies of the Course:

- Clinical cases studies
- Small practical session and discussion
- Seminars
- Manuals
- Use of advanced database search
- Individual supervision
- Collecting, interpreting, and integrating available information in disease state
- Self-learning

VII. Assessment Methods of the Course:

- Assignments
- Oral case discussions during clinical rounds
- Pharmacy practice manual
- Formal case presentation
- Exam

VII. Assignments:

No	Assignments	Aligned CILOs(symbols)	Week Due	Mark
1	Assignment 1: Develop a pharmaceutical care plan for selected case in CVD according to appropriate primary literature and updated guidelines.	a 1, a2, b1, b2, b3, c1, c2, d1, d2	Week 3	5
2	Assignment 2: Develop a pharmaceutical care plan for selected case of DM according to appropriate primary literature and updated guidelines.	a 1, a2, b1, b2, b3, c1, c2, d1, d2	Wee 6	5
3	Assignment 1: Develop a pharmaceutical care plan for selected case of CKD according to appropriate primary literature and updated guidelines.	a 1, a2, b1, b2, b3, c1, c2, d1, d2	Week 9	5
4	Assignment 2: Develop a pharmaceutical care plan for selected case in GIT according to appropriate primary literature and updated guidelines.	a 1, a2, b1, b2, b3, c1, c2, d1, d2	Wee 12	5
Total				20

VIII. Schedule of Assessment Tasks for Students During the Semester:

No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment
1	Assignments	Course Training Period	20	20 %
2	Adherence to Professional Attitudes	Course Training Period	10	10 %
3	Skills Acquired during Training	Course Training Period	20	20 %
4	Formal Case Presentation	Last Week of Each Rotation	10	10 %
5	General Written Examination	Last Week of Each Rotation	40	40 %
Total			100	100%

- Written in the following order: (Author - Year of publication – Title – Edition – Place of publication – Publisher).

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

1. Chisholm-Burns et al, 2019 , Pharmacotherapy principles & practice. 5rd edition.
2. Katzung, 2018, Basic & Clinical Pharmacology. 14th edition.

2- Essential References.

1. DiPiro et al, 2020, Pharmacotherapy: A Pathophysiological Approach, 11th edition.
2. Caroline S. Zeind and Michael G. Carvalho, 2018, Applied Therapeutics: The Clinical Use of Drugs, 11th edition.
3. Walker & Whittlesea, 2018. Clinical Pharmacy and Therapeutics, 6 edition.

3- Electronic Materials and Web Sites etc.

- UpToDate
- <http://www.globalrph.com/>
- Updated Clinical Practice Guidelines for selected course disorders

XI. Course Policies: (Based on the Uniform Students' Bylaw (2007))

Class Attendance:	
1	Class Attendance is mandatory. A student is considered absent and shall be banned from taking the final exam if his/her absence exceeds 25% of total classes.
Tardiness:	
2	A student will be considered late if he/she is not in class after 10 minutes of the start time of class.
Exam Attendance/Punctuality:	
3	

	No student shall be allowed to the exam hall after 30 minutes of the start time, and shall not leave the hall before half of the exam time has passed.
4	Assignments & Projects: Assignments and projects must be submitted on time. Students who delay their assignments or projects shall lose the mark allocated for the same.
5	Cheating: Cheating is an act of fraud that results in the cancelation of the student's exam or assignment. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' Bylaw (2007) shall apply.
6	Forgery and Impersonation: Forgery/Impersonation is an act of fraud that results in the cancelation of the student's exam, assignment or project. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' Bylaw (2007) shall apply.
7	Other policies: The University official regulations in force will be strictly observed and students shall comply with all rules and regulations of the examination set by the Department, Faculty and University Administration.

Republic of Yemen

Ministry of Higher Education & Scientific Research

21 September University of Medicals & Applied Sciences



Faculty of Clinical Pharmacy

Bachelor of Clinical Pharmacy & Pharm D

Course Specification of **Clerkship -II**

Course No. (02.01.225)

2016/2017

Prepared by:	Reviewed by:	Head of the Department:	Vice Dean for Quality affairs	Dean of College:
Dr. Ali Alyahawi	Dr. Hassan Al Mahbashi	Dr. -----	Dr. Abdulelah Thabet	Dr. Ali Alyahawi

I. Course Identification and General Information:

1	Course Title:	Clerkship -II			
2	Course Code & Number:	02.01.225			
3	Credit Hours:	Credit Hours	Theory Hours		Lab/Training Hours
			Lecture	Exercise	
		5	--	--	252
4	Study Level/ Semester at which this Course is offered:	Level 5 – Semester 2			
5	Pre –Requisite (if any):	Clinical Training -I			
6	Co –Requisite (if any):	Therapeutics-IV			
7	Program (s) in which the Course is Offered:	Bachelor Degree in Clinical Pharmacy			
8	Language of Teaching the Course:	English			
9	Study System:	Semester based System			
10	Mode of Delivery:	Full Time			
11	Location of Teaching the Course:	21 September University			
12	Prepared by:	Dr. Ali Alyahawi			
13	Date of Approval:				

II. Course Description:

This clinical training-II course aims to integrate the students skills and knowledge of pharmacology, therapeutic and clinical courses in dealing with hospital real cases to identify and resolve different treatment related problems of different sub-specialties practiced over the rotation. Students will participate in medical ward rounds, case seminars & hospital education programs. Available rotations include: critical care, psychiatric/neurology, oncology/hematology, pediatrics, gynecology/obstetrics, and ambulatory care.

III. Course Intended Learning Outcomes (CILOs) Upon successful completion of the course, students will be able to:		Referenced PILOs Learning out of program
A. Knowledge and Understanding:		
a1	Define the role and responsibilities of a clinical pharmacist in identification and resolving different treatment related problems of selected cases during hospital training.	A1, A3, A4, A5, A7
B. Intellectual Skills:		
b1	Identify treatment-related problems through selected cases discussion during hospital training.	B2,B3
b2	Design the appropriate pharmacotherapy treatment and monitoring plan for selected hospital cases.	B5, B6
C. Professional and Practical Skills:		
c1	Apply the optimal pharmacotherapy regimen and monitoring parameters for selected hospital cases.	C2,C3, C5, C6C2
D. Transferable Skills:		
d1	Search in the medical journal databases by browsing professional medical sites for Evidence-Based Medicine (EBM)	D3
d2	Communicate effectively with healthcare team and improve student skills of patient counseling.	D1, D2

(a) Alignment Course Intended Learning Outcomes of Knowledge and Understanding to Teaching Strategies and Assessment Strategies:		
Course Intended Learning Outcomes	Teaching strategies	Assessment Strategies
a1- Understand the role and responsibilities of a clinical pharmacist in identification and resolving different treatment related problems of respiratory, rheumatology, endocrine, infectious diseases, surgery, pediatrics, gynecology/obstetrics.	<ul style="list-style-type: none"> - Clinical cases studies - Small practical session and discussion - Seminars - Manuals - Use of advanced database search - Individual supervision - Self-learning 	<ul style="list-style-type: none"> - Assignments - Oral case discussions during clinical rounds - Pharmacy practice manual - Formal case presentation - Presentation for one of the course content topics. - Exam

(b) Alignment Course Intended Learning Outcomes of Intellectual Skills to Teaching Strategies and Assessment Strategies:

Course Intended Learning Outcomes	Teaching strategies	Assessment Strategies
b1- Identify drug-related problems through selected cases discussion of respiratory, rheumatology, endocrine, infectious diseases, surgery, pediatrics, gynecology/obstetrics.	<ul style="list-style-type: none"> - Clinical cases studies - Small practical session and discussion - Seminars - Manuals - Use of advanced database search - Individual supervision - Self-learning 	<ul style="list-style-type: none"> - Assignments - Oral case discussions during clinical rounds - Pharmacy practice manual - Formal case presentation - Presentation for one of the course content topics. - Exam
b2- Design the appropriate pharmacotherapy treatment and monitoring plan through selected case discussion of respiratory, rheumatology, endocrine, infectious diseases, surgery, pediatrics, gynecology/obstetrics.	<ul style="list-style-type: none"> - Clinical cases studies - Small practical session and discussion - Seminars - Manuals - Use of advanced database search - Individual supervision - Self-learning 	<ul style="list-style-type: none"> - Assignments - Oral case discussions during clinical rounds - Pharmacy practice manual - Formal case presentation - Presentation for one of the course content topics. - Exam

© Alignment Course Intended Learning Outcomes of Professional and Practical Skills to Teaching Strategies and Assessment Strategies:

Course Intended Learning Outcomes	Teaching strategies	Assessment Strategies
C1- Apply the optimal pharmacotherapy regimen and monitoring parameters for selected cases of respiratory, rheumatology, endocrine, infectious diseases, surgery, pediatrics, gynecology/obstetrics.	<ul style="list-style-type: none"> - Clinical cases studies - Small practical session and discussion - Seminars - Manuals - Use of advanced database search - Individual supervision - Self-learning 	<ul style="list-style-type: none"> - Assignments - Oral case discussions during clinical rounds - Pharmacy practice manual - Formal case presentation - Presentation for one of the course content topics. - Exam

(d) Alignment Course Intended Learning Outcomes of Transferable Skills to Teaching Strategies and Assessment Strategies:		
Course Intended Learning Outcomes	Teaching strategies	Assessment Strategies
d1 -Improve student skills of data collection and interpretation from professional medical sites.	<ul style="list-style-type: none"> - Use of advanced database search - Self-learning 	<ul style="list-style-type: none"> - Assignments - Formal case presentation - Presentation for one of the course content topics. - Exam
d2 - Communicate effectively with healthcare team and improve student skills of patient counseling.	<ul style="list-style-type: none"> - Small practical session and discussion - Seminars 	<ul style="list-style-type: none"> - Oral case discussions during clinical rounds - Formal case presentation - Presentation for one of the course content topics.

IV. Course Contents:

A. Theoretical Aspect:

No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
1	NA	- ...			
16	Final Theoretical Exam				
Number of Weeks /and Units Per Semester					

B. Case Studies and Practical Aspect:

Order	Units/Topics List	Number of Weeks	Contact Hours	Learning Outcomes
1	Critical care	Two Weeks	42 hrs. (36 hrs. on-site a ward rotation + 6 hrs. a formal case presentation at the end of the rotation)	a 1, b1, b2, c1, d1, d2
2	Psychiatric/Neurology	Two Weeks	42 hrs. (36 hrs. on-site a ward rotation + 6 hrs. a formal case presentation at the end of the rotation)	a 1, b1, b2, c1, d1, d2
3	Oncology/hematology	Two Weeks	42 hrs. (36 hrs. on-site a ward rotation + 6 hrs. a formal case presentation at the end of the rotation)	a 1, b1, b2, c1, d1, d2
4	Pediatrics	Two Weeks	42 hrs. (36 hrs. on-site a ward rotation + 6 hrs. a formal case presentation at the end of the rotation)	a 1, b1, b2, c1, d1, d2

			presentation at the end of the rotation)	
5	Gynecology/Obstetrics.	Two Weeks	42 hrs. (36 hrs. on-site a ward rotation + 6 hrs. a formal case presentation at the end of the rotation)	a 1, b1, b2, c1, d1, d2
6	Ambulatory Care	Two Weeks	42 hrs. (36 hrs. on-site a ward rotation + 6 hrs. a formal case presentation at the end of the rotation)	a 1, b1, b2, c1, d1, d2
7	Final Exam	Week 13	The Last week of Course Training	a 1, b1, b2, c1, d1
Number of Weeks /and Units Per Semester: 13 Weeks			252 hours	

C. Tutorial Aspect: (ان وجدت)

No.	Tutorial	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
1	NA			
2				
Number of Weeks /and Units Per Semester				

V. Teaching Strategies of the Course:

- Clinical cases studies
- Small practical session and discussion
- Seminars
- Manuals
- Use of advanced database search
- Individual supervision
- Collecting, interpreting, and integrating available information in disease state
- Self-learning

VI. Assessment Methods of the Course:

- Assignments
- Oral case discussions during clinical rounds
- Pharmacy practice manual
- Formal case presentation
- Exam

VII. Assignments:

No	Assignments	Aligned CILOs(symbols)	Week Due	Mark
1	Assignment 1: Develop a pharmaceutical care plan for selected case in critical care according to appropriate primary literature and updated guidelines.	a1, b1, b2, c1, d1, d2	Week 3	5
2	Assignment 2: Develop a pharmaceutical care plan of selected case in oncology care support according to appropriate primary literature and updated guidelines.	a1, b1, b2, c1, d1, d2	Week 6	5
3	Assignment 3: Develop a pharmaceutical care plan for selected case of pediatric according to appropriate primary literature and updated guidelines.	a1, b1, b2, c1, d1, d2	Week 9	5
4	Assignment 4: Develop a pharmaceutical care plan for selected case of gynecology disease according to appropriate primary literature and updated guidelines.	a1, b1, b2, c1, d1, d2	Week 12	5
Total				20

VIII. Schedule of Assessment Tasks for Students During the Semester:

No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment	Aligned CILOs
1	Assignments	Course Training Period	20	20 %	a1, b1, b2, c1, d1, d2
2	Adherence to Professional Attitudes	Course Training Period	10	10 %	d1, d2
3	Skills Acquired during Training	Course Training Period	20	20 %	a1, b1, b2, c1, d1, d2
4	Formal Case Presentation	Last Week of training course	10	10 %	a1, b1, b2, c1, d1, d2
5	General Written Examination	Last Week of training course	40	40 %	a1, b1, b2, c1, d1, d2
Total			100	100%	

IX. Learning Resources:

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

1. Chisholm-Burns et al, 2019 , Pharmacotherapy principles & practice. 5rd edition.
2. Katzung, 2018, Basic & Clinical Pharmacology. 14th edition.

2- Essential References.

1. DiPiro et al, 2020, Pharmacotherapy: A Pathophysiological Approach, 11th edition.
2. Caroline S. Zeind and Michael G. Carvalho, 2018, Applied Therapeutics: The Clinical of Drugs, 11th edition.
3. Walker & Whittlesea, 2018. Clinical Pharmacy and Therapeutics, 6 edition.

3- Electronic Materials and Web Sites etc.

- UpToDate

	<ul style="list-style-type: none"> - http://www.globalrph.com/ - Updated Clinical Practice Guidelines for selected course disorders
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X. Course Policies: (Based on the Uniform Students' By law (2007))	
1	Class Attendance: Class Attendance is mandatory. A student is considered absent and shall be banned from taking the final exam if his/her absence exceeds 25% of total classes.
2	Tardiness: A student will be considered late if he/she is not in class after 10 minutes of the start time of class.
3	Exam Attendance/Punctuality: No student shall be allowed to the exam hall after 30 minutes of the start time, and shall not leave the hall before half of the exam time has passed.
4	Assignments & Projects: Assignments and projects must be submitted on time. Students who delay their assignments or projects shall lose the mark allocated for the same.
5	Cheating: Cheating is an act of fraud that results in the cancelation of the student's exam or assignment. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' Bylaw (2007) shall apply.
6	Forgery and Impersonation: Forgery/Impersonation is an act of fraud that results in the cancelation of the student's exam, assignment or project. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' Bylaw (2007) shall apply.
7	Other policies: The University official regulations in force will be strictly observed and students shall comply with all rules and regulations of the examination set by the Department, Faculty and University Administration.

21 September University for Medicals & Applied

Sciences **Faculty of Clinical Pharmacy**

Bachelor of Clinical Pharmacy & Pharm D

Course Specification of **Clerkship -II**

Course No. (02.01.225)

2016/2017

Prepared by:	Reviewed by:	Head of the Department:	Vice Dean for Quality affairs	Dean of College:
Dr. Ali Alyahawi	Dr. Hassan Al Mahbashi	Dr. -----	Dr. Abdulelah Thabet	Dr. Ali Alyahawi

I. Information about Faculty Member Responsible for the Course:

Name of Faculty Member:	Dr. Ali Alyahawi	Office Hours
Location & Telephone No.:	775957401	
E-mail:	alyahawipharm@yahoo.com	SAT SUN MON TUE WED THU

II. Course Identification and General Information:

1	Course Title:	Clerkship -II			
2	Course Code & Number:	02.01.225			
3	Credit Hours:	Credit Hours	Theory Hours		Lab/Training Hours
			Lecture	Exercise	
		5	--	--	252
4	Study Level/ Semester at which this Course is offered:	Level 5 – Semester 2			
5	Pre –Requisite (if any):	Clinical Training -I			
6	Co –Requisite (if any):	Therapeutics-IV			
7	Program (s) in which the Course is Offered:	Bachelor Degree in Clinical Pharmacy			
8	Language of Teaching the Course:	English			
9	Study System:	Semester based System			
10	Mode of Delivery:	Full Time			
11	Location of Teaching the Course:	21 September University			
12	Prepared by:	Dr. Ali Alyahawi			
13	Date of Approval:				

III. Course Description:

This clinical training-II course aims to integrate the students skills and knowledge of pharmacology, therapeutic and clinical courses in dealing with hospital real cases to identify and resolve different treatment related problems of different sub-specialties practiced over the rotation. Students will participate in medical ward rounds, case seminars & hospital education programs. Available rotations include: critical care, psychiatric/neurology, oncology/hematology, pediatrics, gynecology/obstetrics, and ambulatory care.

IV. Course Intended Learning Outcomes (CILOs) :

Upon successful completion of the Course, student will be able to:

A. Knowledge and Understanding:		
a1	Define the role and responsibilities of a clinical pharmacist in identification and resolving different treatment related problems of selected cases during hospital training.	A1, A3, A4, A5, A7
B. Intellectual Skills:		
b1	Identify treatment-related problems through selected cases discussion during hospital training.	B2,B3
b2	Design the appropriate pharmacotherapy treatment and monitoring plan for selected hospital cases.	B5, B6
C. Professional and Practical Skills:		
c1	Apply the optimal pharmacotherapy regimen and monitoring parameters for selected hospital cases.	C2,C3, C5, C6C2
D. Transferable Skills:		
d1	Search in the medical journal databases by browsing professional medical sites for Evidence-Based Medicine (EBM)	D3
d2	Communicate effectively with healthcare team and improve student skills of patient counseling.	D1, D2

V. Course Contents:

A. Theoretical Aspect:

No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours
1	NA	— ...		
16	Final Theoretical Exam			
Number of Weeks /and Units Per Semester				

B. Case Studies and Practical Aspect:

Order	Units/Topics List	Number of Weeks	Contact Hours	Learning Outcomes
1	Critical care	Two Weeks	42 hrs. (36 hrs. on-site a ward rotation + 6 hrs. a formal case presentation at the end of the rotation)	a 1, b1, b2, c1, d1, d2
2	Psychiatric/Neurology	Two Weeks	42 hrs. (36 hrs. on-site a ward rotation + 6 hrs. a formal case presentation at the end of the rotation)	a 1, b1, b2, c1, d1, d2
3	Oncology/hematology	Two Weeks	42 hrs. (36 hrs. on-site a ward rotation + 6 hrs. a formal case presentation at the end of the rotation)	a 1, b1, b2, c1, d1, d2
4	Pediatrics	Two Weeks	42 hrs. (36 hrs. on-site a ward rotation + 6 hrs. a formal case presentation at the end of the rotation)	a 1, b1, b2, c1, d1, d2
5	Gynecology/Obstetrics.	Two Weeks	42 hrs. (36 hrs. on-site a ward rotation + 6 hrs. a formal case presentation at the end of the rotation)	a 1, b1, b2, c1, d1, d2
6	Ambulatory Care	Two Weeks	42 hrs. (36 hrs. on-site a ward rotation + 6 hrs. a formal case presentation at the end of the rotation)	a 1, b1, b2, c1, d1, d2
7	Final Exam	Week 13	The Last week of Course Training	a 1, b1, b2, c1, d1
Number of Weeks /and Units Per Semester: 13 Weeks			252 hours	

VI. Teaching Strategies of the Course:

- Clinical cases studies
- Small practical session and discussion
- Seminars
- Manuals
- Use of advanced database search
- Individual supervision
- Collecting, interpreting, and integrating available information in disease state
- Self-learning

VII. Assessment Methods of the Course:

- Assignments
- Oral case discussions during clinical rounds
- Pharmacy practice manual
- Formal case presentation
- Exam

VII. Assignments:

No	Assignments	Aligned CILOs(symbols)	Week Due	Mark
1	Assignment 1: Develop a pharmaceutical care plan for selected case in critical care according to appropriate primary literature and updated guidelines.	a1, b1, b2, c1, d1, d2	Week 3	5
2	Assignment 2: Develop a pharmaceutical care plan of selected case in oncology care support according to appropriate primary literature and updated guidelines.	a1, b1, b2, c1, d1, d2	Week 6	5
3	Assignment 3: Develop a pharmaceutical care plan for selected case of pediatric according to appropriate primary literature and updated guidelines.	a1, b1, b2, c1, d1, d2	Week 9	5
4	Assignment 4: Develop a pharmaceutical care plan for selected case of gynecology disease according to appropriate primary literature and updated guidelines.	a1, b1, b2, c1, d1, d2	Week 12	5
Total				20

VIII. Schedule of Assessment Tasks for Students During the Semester:					
No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment	Aligned CILOs
1	Assignments	Course Training Period	20	20 %	a1, b1, b2, c1, d1, d2
2	Adherence to Professional Attitudes	Course Training Period	10	10 %	d1, d2
3	Skills Acquired during Training	Course Training Period	20	20 %	a1, b1, b2, c1, d1, d2
4	Formal Case Presentation	Last Week of training course	10	10 %	a1, b1, b2, c1, d1, d2
5	General Written Examination	Last Week of training course	40	40 %	a1, b1, b2, c1, d1, d2
Total			100	100%	

X. Learning Resources:

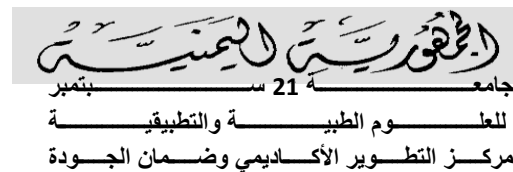
1- Required Textbook(s) (maximum two).	
	1. Chisholm-Burns et al, 2019 , Pharmacotherapy principles & practice. 5rd edition. 2. Katzung, 2018, Basic & Clinical Pharmacology. 14th edition.
2- Essential References.	
	1- DiPiro et al, 2020, Pharmacotherapy: A Pathophysiological Approach, 11th edition. 2- Caroline S. Zeind and Michael G. Carvalho, 2018, Applied Therapeutics: The Clinical Use Drugs, 11th edition 3- Walker & Whittlesea, 2018. Clinical Pharmacy and Therapeutics, 6 edition.
3- Electronic Materials and Web Sites etc.	
	- UpToDate - http://www.globalrph.com/ - Updated Clinical Practice Guidelines for selected course disorders

XI. Course Policies: (Based on the Uniform Students' Bylaw (2007))

1	<p>Class Attendance:</p> <p>Class Attendance is mandatory. A student is considered absent and shall be banned from taking the final exam if his/her absence exceeds 25% of total classes.</p>
2	<p>Tardiness:</p> <p>A student will be considered late if he/she is not in class after 10 minutes of the start time of class.</p>
3	<p>Exam Attendance/Punctuality:</p> <p>No student shall be allowed to the exam hall after 30 minutes of the start time, and shall not leave the hall before half of the exam time has passed.</p>
4	<p>Assignments & Projects:</p> <p>Assignments and projects must be submitted on time. Students who delay their assignments or projects shall lose the mark allocated for the same.</p>
5	<p>Cheating:</p> <p>Cheating is an act of fraud that results in the cancelation of the student's exam or assignment. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' Bylaw (2007) shall apply.</p>
6	<p>Forgery and Impersonation:</p> <p>Forgery/Impersonation is an act of fraud that results in the cancelation of the student's exam, assignment or project. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' Bylaw (2007) shall apply.</p>
7	<p>Other policies:</p> <p>The University official regulations in force will be strictly observed and students shall comply with all rules and regulations of the examination set by the Department, Faculty and University Administration.</p>

REPUBLIC OF YEMEN

21 September UMAS
Development Academic Center
& Quality Assurance



21 September University for Applied & Medical Sciences

Faculty of Clinical Pharmacy

Bachelor Degree in Clinical Pharmacy

Course Specification of **Community Pharmacy**

Course No. (02.01.216)

2016/2017



This template of course specifications was prepared by CAQA, Yemen, 2017.

Prepared by:	Reviewed by:	Head of the Department:	Vice Dean for Quality affairs	Dean of College:
Dr. Ali Alyahawi	Dr. Ali Alkaf	Dr. -----	Dr. Abdulelah Thabet	Dr. Ali Alyahawi

I. General Information:

1.	Course Title:	Community Pharmacy				
2.	Course Code:	02.01.216				
3.	Credit Hours:	Total Credit Hours	Theory Contact Hours		Practical Contact Hours	
			Lecture	Tutorial/ Seminar	Lab	Clinical
		4	2	--	--	360 hrs.
4.	Level/ Semester at which this Course is offered:	Level 4 / Summer Semester				
5.	Pre –Requisite (if any):	Pharmacology III				
6.	Co –Requisite (if any):	Pharmacology-IV				
7.	Program (s) in which the Course is Offered:	Bachelor of Clinical Pharmacy & Pharm.D.				
8.	Language of Teaching the Course:	English				
9.	Location of Teaching the Course:	Faculty of Clinical Pharmacy				
10.	Prepared by:	Dr. Ali Alyahawi				
11	Date and Number of Approval by Council:					

II. Course Description:

This course is designed to provide effective and appropriate patient-centered pharmaceutical care in the community pharmacy setting. Each student should finish 360 training hours in this training rotation. Students provide patient education, prescription and OTC recommendations, customer service, and interact with pharmacists, pharmacy staff, and health care professionals. Pharmacy settings may include independent, chain and institutional community sites. The training in community pharmacy will provide students with advanced expertise in accessing, evaluating, and applying information to promote optimal patient care to a diverse population, while enhancing their pharmacy practice and managerial skills to become effective pharmacists in this setting.

III. Course Intended Learning Outcomes (CILOs): Upon successful completion of the course, students will be able to:		Referenced PILOs
A. Knowledge and Understanding:		PILOs
a1	State the basic pharmacy concepts including dispensing system, safety management, operational knowledge, and leadership qualities as a practice manager in the community pharmacy setting.	A1
a2	Define the signs and symptoms of conditions frequently encountered in a community pharmacy and different dosage forms and medications used and available in Yemen market.	A1, A5
B. Intellectual Skills:		
b1	Construct a systematic approach and formal MTM process including comprehensive medication reviews (CMR) and targeted interventions to ensure good dispensing practice and demonstrate good pharmacy management skills in a community pharmacy setting.	B2, B6
C. Professional and Practical Skills:		
c1	Perform efficiently and effectively responsibilities and task in a community pharmacy setting using technology techniques.	C3, C4
D. Transferable Skills:		
d1	Utilize appropriate education and communication strategies for a diverse patient population.	D1
d2	Display self-awareness, self-improvement, and time management	D1

(A) Alignment of Course Intended Learning Outcomes (Knowledge and Understanding) to Teaching Strategies and Assessment Methods:		
Course Intended Learning Outcomes	Teaching Strategies	Assessment Strategies
a1	<ul style="list-style-type: none"> - Lecture - Practice in community pharmacy - Self-learning - Interactive Cases discussion - Discussion with community pharmacist and faculty supervisor 	<ul style="list-style-type: none"> - Exam - Quiz - Assignment
a2	<ul style="list-style-type: none"> - Lecture - Practice in community pharmacy - Self-learning - Interactive Cases discussion - Discussion with community pharmacist and faculty supervisor 	<ul style="list-style-type: none"> ▪ Exam ▪ Quiz ▪ Assignment

(B) Alignment of Course Intended Learning Outcomes (Intellectual Skills) to Teaching Strategies and Assessment Methods:

Course Intended Learning Outcomes		Teaching Strategies	Assessment Strategies
b1	Construct a systematic approach and formal MTM process including comprehensive medication reviews (CMR) and targeted interventions to ensure good dispensing practice and demonstrate good pharmacy management skills in a community pharmacy setting.	<ul style="list-style-type: none"> - Lecture - Practice in community pharmacy - Training manual - Self-learning - Interactive Cases discussion - Discussion with community pharmacist and faculty supervisor 	<ul style="list-style-type: none"> - Exam - Quiz - Assignment

(C) Alignment of Course Intended Learning Outcomes (Professional and Practical Skills) to Teaching Strategies and Assessment Methods:

Course Intended Learning Outcomes		Teaching Strategies	Assessment Strategies
c1	Perform efficiently and effectively responsibilities and task in a community pharmacy setting using technology techniques.	<ul style="list-style-type: none"> - Lecture - Practice in community pharmacy - Training manual - Self-learning - Interactive Cases discussion 	<ul style="list-style-type: none"> ▪ Exam ▪ Quiz ▪ Assignment

(D) Alignment of Course Intended Learning Outcomes (Transferable Skills) to Teaching Strategies and Assessment Methods:

Course Intended Learning Outcomes		Teaching Strategies	Assessment Strategies
d1	Effectively use education and communication strategies for a diverse patient population.	<ul style="list-style-type: none"> - Lecture - Practice in community pharmacy - Training manual - Self-learning 	Oral Presentation
d2	Display self-awareness, self-improvement, and time management	<ul style="list-style-type: none"> - Interactive discussion - Seminar 	Oral Presentation

IV. Course Contents:**A. Theoretical Aspect:**

No.	Units/Topics List	Sub Topics List	No. of Weeks	Contact Hours	Learning Outcomes (CILOs)
1	Community Pharmacy Overview	<ul style="list-style-type: none"> - Community pharmacy concepts - The responsibilities of community pharmacist and his relationship with the other health care professionals and the patients. - Health informatics use in a community pharmacy setting 	2	4	a1, a2

No.	Units/Topics List	Sub Topics List	No. of Weeks	Contact Hours	Learning Outcomes (CILOs)
2	OTC Medications for Respiratory system	<ul style="list-style-type: none"> Symptom & Diagnosis: <ul style="list-style-type: none"> Cough, Common cold, Sore throat, and Rhinitis OTC Products for treatment 	2	4	a1, a2, b1, c1, d1, d2
3	OTC Medications for Ear condition	<ul style="list-style-type: none"> Symptom & Diagnosis: <ul style="list-style-type: none"> Ear wax impaction and Otitis externa. OTC Products for treatment 	1	2	a1, a2, b1, c1, d1, d2
4	OTC Medications for the central nervous system	<ul style="list-style-type: none"> Symptom & Diagnosis: <ul style="list-style-type: none"> Headache, Insomnia, Nausea and vomiting. OTC Products for treatment 	2	4	a1, a2, b1, c1, d1, d2
5	Med Exam		1	2	
6	OTC Medications for Women's health	<ul style="list-style-type: none"> Symptom & Diagnosis: <ul style="list-style-type: none"> Cystitis, primary dysmenorrhea, vaginal discharge, premenstrual syndrome and heavy menstrual bleeding OTC Products used 	2	4	a1, a2, b1, c1, d1, d2
7	OTC Medications for Hemorrhoids	<ul style="list-style-type: none"> Symptom, diagnosis OTC Products for minor hemorrhoids 	1	2	a1, a2, b1, c1, d1, d2
8	OTC Medications for Skin Conditions	<ul style="list-style-type: none"> Athlete's foot Symptom & Diagnosis OTC Products for treatment 	1	2	a1, a2, b1, c1, d1, d2
9	OTC Medications for Nappy rash	<ul style="list-style-type: none"> Nappy rash Symptom & Diagnosis OTC Products For nappy rash. 	1	2	a1, a2, b1, c1, d1, d2
10	OTC Medications for Candidiasis	<ul style="list-style-type: none"> Candidiasis Symptom & Diagnosis OTC For Candidiasis 	1	2	a1, a2, b1, c1, d1, d2
11	OTC Medications for Psoriasis	<ul style="list-style-type: none"> Psoriasis Symptom & Diagnosis OTC Products for Psoriasis 	1	2	a1, a2, b1, c1, d1, d2
13	Final Term Exam		16	2	a1, a2, b1, c1, d2
Number of Weeks /and Units Per Semester			16	32	

B. Practical Aspect (Lab/Clinical) (if any):

No.	Tasks/ Experiments	Week Due	Contact Hours	Learning Outcomes (CILOs)
1	<ul style="list-style-type: none"> - Definition, history and development of community pharmacy: Orientation - Professional responsibilities of community pharmacists 	-	(Site and rotation schedule)	a 1
2	<ul style="list-style-type: none"> - Prescription and prescription handling - Technology techniques in pharmacy practice. 	2	60	a1, b1, c1, d1, d2
3	<ul style="list-style-type: none"> - Purchase, storage, and inventory control. 	2	60	a1, b1, c1, d1, d2
4	<ul style="list-style-type: none"> - Reconstituting Powders 	1	30	a1, a2, b1, c1, d1, d2
5	<ul style="list-style-type: none"> - Extemporaneous Compounding 	1	30	a1, a2, b1, c1, d1, d2
6	<ul style="list-style-type: none"> - OTC Labeling & Therapy: <ul style="list-style-type: none"> ▪ External and internal analgesics ▪ Antacids ▪ Emetics, and antiemetics ▪ Laxatives and antidiarrheals ▪ Cold and allergy products ▪ Otic, ophthalmic, nasal, rectal, and vaginal products ▪ Vitamins and minerals ▪ Weight control products ▪ Contraceptives ▪ Seasonal products 	3	90	a1, a2, b1, c1, d1, d2
7	<ul style="list-style-type: none"> - Health Screening & patient care services in Community Pharmacy (Patient counselling) <ul style="list-style-type: none"> ▪ Stages of patient counselling ▪ Barriers to effective counseling ▪ Patient counselling points for chronic diseases/disorders ▪ Patient Package Inserts ▪ Patient Information leaflets 	3	90	a1, a2, b1, c1, d1, d2
	- Number of Weeks /and Units Per Semester	12	360 contact hrs.	

VI. Teaching Strategies of the Course:

- Lecture
- Practice in community pharmacy
- Self-learning
- Interactive Cases discussion
- Discussion with community pharmacist and faculty supervisor
- Training manual

VII. Assessment Methods of the Course:

- Exam
- Quiz
- Assignment
- Oral Presentation & seminar

VII. Assignments:

No.	Assignments	Aligned CILOs (symbols)	Week Due	Mark
1	Assignment 1: Describe the equipment used in pharmacy store	a1, a2, b1, c1, d1	2 nd	2.5
2	Assignment 2: Which information must be included in the prescription	a1, a2, b1, c1, d1	6 th	2.5
3	Assignment 3: Discuss points should be considered from pharmacist when prescription or non-prescription (OTC) medicines are described to the patients.	a1, a2, b1, c1, d1	8 th	2.5
4	Assignment 4: Describe extemporaneous compounding practice by pharmacists with examples	a 1, a2, b1, c1, d1	12 th	2.5
Total				10

VIII. Schedule of Assessment Tasks for Students During the Semester

No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment	Aligned Course Learning Outcomes
1	Assignments	Week 2-12	10	10 %	a1, a2, b1, c1, d1
2	Midterm Exam (Theory)	Week 8	20	20 %	a1, a2, b1, c1
3	Adherence to Professional Attitudes	Course Training Period	5	5 %	d1, d2
4	Skills Acquired during Training	Course Training Period	10	10 %	b1, c1, d1, d2
5	Final Exam (Theory)	Week 16	30	30 %	a 1, a2, b1, c1
6	Final Practical Written Exam	Last Week of Training	25	25 %	a 1, a2, b1, c1
Total			100	100%	

IX. Learning Resources:**1- Required Textbook(s):**

1. Clinical Pharmacy and Therapeutics, ed. Walker & Whittlesea, 6th edition, 2018.
2. Basic & Clinical Pharmacology, ed. Katzung, 14th edition, 2018.

2- Essential References.

1. Pharmaceutical Care Practice: The Patient-Centered Approach to Medication Management Services (3rd edition), Cipolle, RJ, Strand, LM, & Morley, PC, McGraw-Hill, 2012
2. Lexicomp, (2018). Drug Information Handbook, 27h edition
3. Pharmacy law and practice Fisher, Jonathan, 2006
4. Patient-Centered Pharmacology: Learning System for the Conscientious Prescriber , Tindall, W. N., Sedrak, M. M., & Boltri, J. M, 2013.

3- Electronic Materials and Web Sites etc.

1. www.accesspharmacy.com
2. Disease management guidelines.

X. Course Policies: (Based on the Uniform Students' By law (2007))

1	<p>Class Attendance:</p> <p>Class Attendance is mandatory. A student is considered absent and shall be banned from taking the final exam if his/her absence exceeds 25% of total classes.</p>
2	<p>Tardiness:</p> <p>A student will be considered late if he/she is not in class after 10 minutes of the start time of class.</p>
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7	<p>Other policies:</p> <p>The University official regulations in force will be strictly observed and students shall comply with all rules and regulations of the examination set by the Department, Faculty and University Administration.</p>

21 September University for Medicals & Applied Sciences

Faculty of Clinical Pharmacy

Program of Bachelor of Clinical Pharmacy & Pharm D

Course Plan (Syllabus) of Community Pharmacy

Course Code. 02.01.216

2016/2017

I. Information about Faculty Member Responsible for the Course:

Name of Faculty Member:	Dr. Ali Alyahawi	Office Hours
Location & Telephone No.:	00967775957401	
E-mail:	Alyahawipharm@yahoo.com	SAT SUN MON TUE WED THU

II. Course Identification and General Information:

1.	Course Title:	Community Pharmacy				
2.	Course Code:	02.01.216				
3.	Credit Hours:	Total Credit Hours	Theory Contact Hours		Practical Contact Hours	
			Lecture	Tutorial/ Seminar	Lab	Clinical
		4	2	--	--	360 hrs.
4.	Level/ Semester at which this Course is offered:	Level 4 / Summer Semester				
5.	Pre –Requisite (if any):	Pharmacology III				
6.	Co –Requisite (if any):	Pharmacology-IV				
7.	Program (s) in which the Course is Offered:	Bachelor of Clinical Pharmacy & Pharm.D.				
8.	Language of Teaching the Course:	English				
9.	Location of Teaching the Course:	Faculty of Clinical Pharmacy				
10.	Prepared by:	Dr. Ali Alyahawi				
11	Date and Number of Approval by Council:					

III. Course Description:

This course is designed to provide effective and appropriate patient-centered pharmaceutical care in the community pharmacy setting. Each student should finish 360 training hours in this training rotation. Students provide patient education, prescription and OTC recommendations, customer service, and interact with pharmacists, pharmacy staff, and health care professionals. Pharmacy settings may include independent, chain and institutional community sites. The training in community pharmacy will provide students with advanced expertise in accessing, evaluating, and applying information to promote optimal patient care to a diverse population, while enhancing their pharmacy practice and managerial skills to become effective pharmacists in this setting.

IV. Course Intended Learning Outcomes (CILOs) :

Upon successful completion of the Course, student will be able to:

A. Knowledge and Understanding:

a1	State the basic pharmacy concepts including dispensing system, safety management, operational knowledge, and leadership qualities as a practice manager in the community pharmacy setting.
a2	Define the signs and symptoms of conditions frequently encountered in a community pharmacy and different dosage forms and medications used and available in Yemen market.

B. Intellectual Skills:

b1	Construct a systematic approach and formal MTM process including comprehensive medication reviews (CMR) and targeted interventions to ensure good dispensing practice and demonstrate good pharmacy management skills in a community pharmacy setting.
----	--

C. Professional and Practical Skills:

c1	Perform efficiently and effectively responsibilities and task in a community pharmacy setting using technology techniques.
----	--

D. Transferable Skills:

d1	Utilize appropriate education and communication strategies for a diverse patient population.
d2	Display self-awareness, self-improvement, and time management

V. Course Contents:**A. Theoretical Aspect:**

No.	Units/Topics List	Sub Topics List	No. of Weeks	Contact Hours
1	Community Pharmacy Overview	<ul style="list-style-type: none"> - Community pharmacy concepts - The responsibilities of community pharmacist and his relationship with the other health care professionals and the patients. - Health informatics use in a community pharmacy setting 	2	4
2	OTC Medications for Respiratory system	<ul style="list-style-type: none"> - Symptom & Diagnosis: <ul style="list-style-type: none"> • Cough, Common cold, Sore throat, and Rhinitis - OTC Products for treatment 	2	4
3	OTC Medications for Ear condition	<ul style="list-style-type: none"> - Symptom & Diagnosis: <ul style="list-style-type: none"> • Ear wax impaction and Otitis externa. - OTC Products for treatment 	1	2
4	OTC Medications for the central nervous system	<ul style="list-style-type: none"> - Symptom & Diagnosis: <ul style="list-style-type: none"> • Headache, Insomnia, Nausea and vomiting. - OTC Products for treatment 	2	4
5	Med Exam		1	2
6	OTC Medications for Women's health	<ul style="list-style-type: none"> - Symptom & Diagnosis: <ul style="list-style-type: none"> • Cystitis, primary dysmenorrhea, vaginal discharge, premenstrual syndrome and heavy menstrual bleeding - OTC Products used 	2	4
7	OTC Medications for Hemorrhoids	<ul style="list-style-type: none"> - Symptom, diagnosis - OTC Products for minor hemorrhoids 	1	2
8	OTC Medications for Skin Conditions	<ul style="list-style-type: none"> - Athlete's foot Symptom & Diagnosis - OTC Products for treatment 	1	2
9	OTC Medications for Nappy rash	<ul style="list-style-type: none"> - Nappy rash Symptom & Diagnosis - OTC Products For nappy rash. 	1	2
10	OTC Medications for Candidiasis	<ul style="list-style-type: none"> - Candidiasis Symptom & Diagnosis - OTC For Candidiasis 	1	2
11	OTC Medications for Psoriasis	<ul style="list-style-type: none"> - Psoriasis Symptom & Diagnosis - OTC Products for Psoriasis 	1	2
13	Final Term Exam		16	2
Number of Weeks /and Units Per Semester			16	32

B Practical Aspect:

No.	Tasks/ Experiments	Week Due	Contact Hours
1	<ul style="list-style-type: none"> Definition, history and development of community pharmacy: Orientation (site and rotation schedule) Professional responsibilities of community pharmacists 	-	(Site and rotation schedule)
2	<ul style="list-style-type: none"> Prescription and prescription handling Technology techniques in pharmacy practice. 	2	60
3	<ul style="list-style-type: none"> Deal properly with purchase, storage, and inventory control. 	2	60
4	<ul style="list-style-type: none"> Reconstituting Powders 	1	30
5	<ul style="list-style-type: none"> Extemporaneous Compounding 	1	30
6	<ul style="list-style-type: none"> OTC Labeling & Therapy: <ul style="list-style-type: none"> External and internal analgesics Antacids Emetics, and antiemetics Laxatives and antidiarrheals Cold and allergy products Otic, ophthalmic, nasal, rectal, and vaginal products Vitamins and minerals Weight control products Contraceptives Seasonal products 	3	90
7	<ul style="list-style-type: none"> Health Screening & patient care services in Community Pharmacy (Patient counselling) <ul style="list-style-type: none"> Stages of patient counselling Barriers to effective counseling Patient counselling points for chronic diseases/disorders Patient Package Inserts Patient Information leaflets 	3	90
	<ul style="list-style-type: none"> Number of Weeks /and Units Per Semester 	12	360 contact hrs.

VI. Teaching Strategies of the Course:

- Lecture
- Practice in community pharmacy.
- Self-learning
- Interactive Cases discussion
- Discussion with community pharmacist and faculty supervisor
- Training manual

VII. Assessment Methods of the Course:

- Exam
- Quiz
- Assignment
- Oral Presentation & seminar

VIII. Assignments:

No.	Assignments	Aligned CILOs (symbols)	Week Due
1	Assignment 1: Describe the equipment used in pharmacy store	a1, a2, b1, c1, d1	2nd
2	Assignment 2: Which information must be included in the prescription	a1, a2, b1, c1, d1	6th
3	Assignment 3: Discuss points should be considered from pharmacist when prescription or non-prescription (OTC) medicines are described to the patients.	a1, a2, b1, c1, d1	8th
4	Assignment 4: Describe extemporaneous compounding practice by pharmacists with examples	a 1, a2, b1, c1, d1	12th
Total			

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

No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment
1	Assignments	Week 2-12	10	10 %
2	Midterm Exam (Theory)	Week 8	20	20 %
3	Adherence to Professional Attitudes	Course Training Period	5	5 %
4	Skills Acquired during Training	Course Training Period	10	10 %
5	Final Exam (Theory)	Week 16	30	30 %
6	Final Practical Written Exam	Last Week of Training	25	25 %
Total			100	100%

X. Learning Resources:**1- Required Textbook(s):**

3. Clinical Pharmacy and Therapeutics, ed. Walker & Whittlesea, 6th edition, 2018.
4. Basic & Clinical Pharmacology, ed. Katzung, 14th edition, 2018.

2- Essential References.

5. Pharmaceutical Care Practice: The Patient-Centered Approach to Medication Management Services (3rd edition), Cipolle, RJ, Strand, LM, & Morley, PC, McGraw-Hill, 2012
6. Lexicomp, (2018). Drug Information Handbook, 27h edition
7. Pharmacy law and practice Fisher, Jonathan, 2006
8. Patient-Centered Pharmacology: Learning System for the Conscientious Prescriber , Tindall, W. N., Sedrak, M. M., & Boltri, J. M, 2013.

3- Electronic Materials and Web Sites etc.

3. www.accesspharmacy.com
4. Disease management guidelines.

XI. Course Policies: (Based on the Uniform Students' Bylaw (2007))	
1	Class Attendance: Class Attendance is mandatory. A student is considered absent and shall be banned from taking the final exam if his/her absence exceeds 25% of total classes.
2	Tardiness: A student will be considered late if he/she is not in class after 10 minutes of the start time of class.
3	Exam Attendance/Punctuality: No student shall be allowed to the exam hall after 30 minutes of the start time, and shall not leave the hall before half of the exam time has passed.
4	Assignments & Projects: Assignments and projects must be submitted on time. Students who delay their assignments or projects shall lose the mark allocated for the same.
5	Cheating: Cheating is an act of fraud that results in the cancelation of the student's exam or assignment. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' Bylaw (2007) shall apply.
6	Forgery and Impersonation: Forgery/Impersonation is an act of fraud that results in the cancelation of the student's exam, assignment or project. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' Bylaw (2007) shall apply.
7	Other policies: The University official regulations in force will be strictly observed and students shall comply with all rules and regulations of the examination set by the Department, Faculty and University Administration.