

**Syllabus: Community Pharmacy Training 1****(131702368)****Summer Semester 202.. /202..**

COURSE INFORMATION	
<b>Course Name: Community Pharmacy Training 1</b> <b>Learning Method: Hybrid (Face-to-face and Electronic Methods)</b> <b>Semester: Summer</b> <b>Department: Clinical Pharmacy and Pharmacy Practice</b> <b>Faculty: Pharmaceutical Sciences</b>	<b>Course Code</b> <b>Section:</b> <b>Core Curriculum: 2019 Study plan</b> <b>JNQF: 7</b>
<b>Day(s) and Time(s):</b> Sunday – Tuesday: <b>Classroom: As per semester</b> <b>Date prepared: January 2020</b> <b>Date updated: February 2023</b>	<b>Credit Hours: 3</b> <b>Prerequisites:</b>
COURSE DESCRIPTION	
<p>This is the first training module for students in a community pharmacy, it's followed by community pharmacy training 2, and proceeded with basic Pharmacology modules. Accordingly, the students in this course will be introduced to basic professional skills at a community pharmacy and in addition to specific topics (7 Body systems) in pharmacological care. A group of students will have a weekly seminar to share the expected outcomes for each week.</p> <p>During the first part of this training, students have to be allocated to a community pharmacy, where they are expected to identify main companies, local wholesalers, and agents, as well as the software for pharmacy management. Students will be introduced to four domains related to community pharmacy: Basic, Communication, Management, and pharmaceutical care guidelines domains. During the second part of this training, comprehensive pharmacological and practical care for 7 body systems will be explored.</p>	
DELIVERY METHODS	
<p>The course will be delivered through a combination of active learning strategies. These will include:</p> <ul style="list-style-type: none"> <li>• Field training 4 days per 1 week</li> <li>• One day in the university</li> </ul>	

- Lecture notes
- PowerPoint lectures and active classroom based discussion.
- Collaborative learning through small groups acting in an interdisciplinary context.
- Relevant films and documentaries
- Video lectures
- E-learning resources: e-reading assignments and practice quizzes through Model and Microsoft Team
- Reference Books
- Expert external visitors

#### FACULTY INFORMATION

<b>Name</b>	<b>Abdelrahim Alqudah</b>
<b>Academic Title:</b>	<b>Associate Professor</b>
<b>Office Location:</b>	<b>Pharmacy School</b>
<b>Telephone Number:</b>	<b>00 962 797034287</b>
<b>Email Address:</b>	<b>Abdelrahim@hu.edu.jo</b>
<b>Office Hours:</b>	As per semester

#### REFERENCES AND LEARNING RESOURCES

Drugs in Jordan plus Basic Pharmacological Review,2016, By Dr Mohanad Odeh
Pharmacology (Lippincott Illustrated Reviews Series) Latest editions Edition (7th).
Katzung & Trevor's Pharmacology Examination and Board Review, Latest editions Edition (12)
Handbook of Nonprescription Drugs: An Interactive Approach to Self-Care
Complete Guide to Prescription Nonprescription Drugs
Pharmacotherapy Principles & Practice, Sections : patient care process, and Patient encounters
Merck Manual For the Consumers
<a href="http://www.Drugs.com">www.Drugs.com</a> / for consumers
<a href="http://www.Patient.info">www.Patient.info</a>
.Pharmacotherapy Handbook
Pharmacotherapy Principles & Practice
Applied Therapeutics The clinical use of drugs
Merck Manual for professional users, online resource
<ul style="list-style-type: none"> <li>• Drug Information handbook</li> <li>• Physicians' Desk Reference</li> <li>• Martindale: The Complete Drug Reference</li> <li>• BNF (British National Formulary)</li> <li>• Micromedex</li> <li>• Drugs.com (Recommended)</li> </ul>

• Lexi Comp group
Meyler's Side Effects of Drugs: An Encyclopedia of Adverse Reactions and Interactions
JFDA website ( <a href="http://www.JFDA.gov.jo">www.JFDA.gov.jo</a> )
Site for practical training

## COURSE OBJECTIVES

The following are the objectives of the present course:

- 1) Introduce the students to the basics of the community pharmacy field professional skills.
- 2) Differentiate between companies and wholesalers.
- 3) Introduced to the available software for community pharmacy management (Smart, Falcon, Galaxy, Uniorders-Aumet, Advance Cloud services ... etc)
- 4) Practice basic communication skills at the pharmacy (Communication with peers, Dr, and Medical Reps)
- 5) Practice the basic skills for patient counseling (Disease counseling, Medicines related counseling)
- 6) Review basics related to each drug (Active ingredient, Trade names, Indication / Therapeutic Class, Contraindication, Dose for adults / Paediatrics, Dose adjustment, Pregnancy risk, warnings, Drug interactions, Side effects and its management, Price ... etc)
- 7) Introduce students to Specific Drug interactions (Drug – drug, Drug – food, Drug – test ‘disease’ and Drug - genetics).
- 8) Practice the presentation skills.

## COURSE INTENDED LEARNING OUTCOMES (CILOs)

### A. Foundational Knowledge

A1: Understand the basic concepts of practical training at a community pharmacy, including dealing with trade names, local drug stores, prescription reading, and pharmacoeconomics. Review essential information for each medication, such as active ingredients, indications, dosages, contraindications, pregnancy risks, interactions, side effects, and related cost considerations.

### B. Essential for Practice and Care

B.1: Assess the goals of disease management using both pharmacological and non-pharmacological approaches, and understand key elements of patient counseling along with system-related factors, such as pricing and insurance issues, that impact patient care.

B.2: Determine how to evaluate success across different levels of knowledge and explain various levels of information using trusted references to support clinical decisions.

B.3: Discuss the advantages and disadvantages of different medication subclasses used in disease treatment, comparing their effectiveness and safety profiles to optimize patient outcomes.

### **C. Approach to Practice and Care**

C1: Understand the differences between disease counseling and medication-related counseling, and differentiate their specific roles in patient care.

C2: Assess drug interactions—including drug-drug, drug-food, drug-test, and drug-genetics interactions—and describe side effects along with their assessment and management.

C3: Evaluate options for disease management while considering the overall profile of each treatment, and compare medication pricing and availability in the Jordanian market.

### **D. Personal and Professional Development**

D1: Diagnose levels of disease management and practice completing comprehensive reviews of pharmacology and therapeutic options.

D2: Lead the development of practical tips for effective patient management to improve pharmaceutical care outcomes and design strategies based on these principles.

D3: Understand the most recent innovations and guidelines in pharmacology, pharmacy practice, and clinical pharmacy, and apply basic algorithms to enhance patient care.

## **ACADEMIC SUPPORT**

It is The Hashemite University policy to provide educational opportunities that ensure fair, appropriate and reasonable accommodation to students who have disabilities that may affect their ability to participate in course activities or meet course requirements. Students with disabilities are encouraged to contact their Instructor to ensure that their individual needs are

met. The University through its Special Need section will exert all efforts to accommodate for individual's needs.

**Tel: 00962-5-3903333 Extension: 4209**

**Location: Students Affairs Deanship/ Department of Student Welfare Services**

**Email: amalomoush@hu.edu.jo**

**amalomoush@staff.hu.edu.jo**

## COURSE REGULATIONS

**Very Important Note: Specific regulation for training,**  
*Course regulations for Pharmacy Training 1 and Pharmacy Training 2 are being managed with special regulations supervised by the training committee*

### **General regulations:**

#### **Participation**

Class participation and attendance are important elements of every student's learning experience at The Hashemite University, and the student is expected to attend all classes. A student should not miss more than 15% of the classes during a semester. *Those exceeding this limit of 15% will receive a failing grade regardless of their performance.* It is a student's responsibility to monitor the frequency of their own absences. **Attendance record begins on the first day of class irrespective of the period allotted to drop/add and late registration. It is a student's responsibility to sign-in; failure to do so will result in a non-attendance being recorded.**

In exceptional cases, the student, with the instructor's prior permission, could be exempted from attending a class provided that the number of such occasions does not exceed the limit allowed by the University. The instructor will determine the acceptability of an absence for being absent. A student who misses more than 25% of classes and has a valid excuse for being absent will be allowed to withdraw from the course.

#### **Plagiarism**

Plagiarism is considered a serious academic offence and can result in your work losing marks or being failed. HU expects its students to adopt and abide by the highest standards of conduct in their interaction with their professors, peers, and the wider University community. As such, a student is expected not to engage in behaviours that compromise his/her own integrity as well as that of the Hashemite University.

Plagiarism includes the following examples and it applies to all student assignments or submitted work:

- **Use of the work, ideas, images or words of someone else without his/her permission or reference to them.**
- **Use of someone else's wording, name, phrase, sentence, paragraph or essay without using quotation marks.**
- **Misrepresentation of the sources that were used.**

**The instructor has the right to fail the coursework or deduct marks where plagiarism is detected**

***Late or Missed Assignments***

In all cases of assessment, students who fails to attend an exam, class project or deliver a presentation on the scheduled date without prior permission, and/or are unable to provide a medical note, will automatically receive a fail grade for this part of the assessment.

- Submitting a term paper on time is a key part of the assessment process. Students who fail to submit their work by the deadline specified will automatically receive a 10% penalty. Assignments handed in more than 24 hours late will receive a further 10% penalty. Each subsequent 24 hours will result in a further 10% penalty.
- In cases where a student misses an assessment on account of a medical reason or with prior permission; in line with University regulations an incomplete grade for the specific assessment will be awarded and an alternative assessment or extension can be arranged.

***Cheating***

Cheating, academic misconduct, fabrication and plagiarism will not be tolerated, and the university policy will be applied. Cheating policy: The participation, the commitment of cheating will lead to applying all following penalties together:

- Failing the subject, he/she cheated at
- Failing the other subjects taken in the same course
- Not allowed to register for the next semester
- The summer semester is not considered as a semester

***Student Complaints Policy***

Students at The Hashemite University have the right to pursue complaints related to faculty, staff, and other students. The nature of the complaints may be either academic or non-academic. For more information about the policy and processes related to this policy, you may refer to the students' handbook.

**COURSE ASSESSMENT**

***Course Calendar and Assessment***

Students will be graded through the following means of assessment and their final grade will be calculated from the forms of assessment as listed below with their grade weighting taken into account. The criteria for grading are listed at the end of the syllabus

النسبة	النشاط	تسلسل
%5	تقرير الجهة المتعاونة التي يتدرب الطالب فيها وفق نموذج خاص معتمد	1
%15	يقدم الطالب تقرير تجاري (5%) ومحاضرة (10%) عن مجموعات دوائية و/أو مناقشة حالة/حالات مرضية ووصفات طبية ومعلومات خاصة بالخبرة التدريبية (جزء تطبيقي وتبادل خبرات)	2
%5	يقدم الطالب استشارة علاجية	3
%10	اختبارات أسبوعية في مادة الأسبوع السابق التي يحددها مدرس المساق	4
%5	نشاطات أخرى	5
%20	امتحان منتصف الفصل (كتابي)	6
%40	تقديم امتحان نهائي كتابي في المواضيع التي تم دراستها خلال فترة التدريب	7

Report from a supervisor at the training site	5%
Weekly report (Trade names and weekly Presentation - Seminar)	15%
Patient consultation	5%
Weekly quizzes	10%
Homework and/or projects	5%
Mid-semester exam	20%
Final exam	40%

Items for Weekly Seminar Assessment	Mark
<b>A) Basic personal presentation skills</b>	
<b>A)1. Presenter Body language</b>	
<b>Greeted</b> the audience warmly and assertively	1
<b>Sanded</b> relaxed and confident	1
Established good eye contact <b>initially</b>	1
Maintained <b>eye</b> contact <b>throughout</b> talk	1
Good use of <b>gesture</b> and movement plus <b>hand movement</b>	1
<b>A)2. Verbal Focusing Techniques</b>	
Volume was appropriate	1
Intonation varied & appropriate	1
Pronunciation and articulation were clear (within sentences & ideas)	1
English spoken skills (fluent, grammar, vocabularies ... etc)	2
<b>B) Order of the content</b>	
The opening got audience attention	0.5
The introduction told audience what to expect from the presentation	0.5
Timing - on time and timing through the whole presentation	2
<b>C) Scientific content</b>	
Note: please do not repeat information from pharmacology	
Pharmacological review	2

<b>Pharmacy Practice Guidelines</b>	2
<b>Therapeutic guidelines or algorithms</b>	2
<b>Drug - Drug Interactions (Drug – food, Drug - tests)</b>	3
<b>Patient counselling, Professional context</b>	3
<b>Price comparison tables</b>	1
<b>Local availability of medications (Photo from within the pharmacy)</b>	1
<b>Hits of quality information, which is specialised to professional pharmacists</b>	2
<b>References</b>	2
<b>D) Slides</b>	
Clear and concise: did not contain too much information	1
Table of contents	1
Format ( Lines, font, colours ... etc)	1
The slides used key words rather than sentences	1
Headings and subheadings	1
<b>D) Correction factor for delivery</b>	
student evaluation mark, preparation time, Number and quality of the group, nature of the topic	

### Description of Exams

Each exam is followed by two types of analysis: **Difficulty** and **Discrimination** coefficients.

Distribution of questions would be managed to target different levels of students: Basic, Acceptance, Good, Very good and Excellent.

Test questions will predominately come from material presented in the lectures.

Semester exams will be conducted during the regularly scheduled lecture period.

Exam will consist of a combination of multiple choice, short answer, match, true and false and/or descriptive questions.

### Homework – Projects

Will be given when it is applicable. Factor as level of class interactions and number of students for each class will be considered.

Students are expected to work on chapter examples, self-tests and chapter problems. When possible group based project may be requested from students.

**Quizzes:** Will be given when it is applicable. Factor as level of class interactions and number of students for each class will be considered.



Unannounced quizzes will be given during or/and at the end of each chapter based upon the previous lectures. It will enforce students to be prepared to the class.

No make-up exams, homework or quizzes will be given. Only documented absences will be considered as per HU guidelines.

Grades are not negotiable and are awarded according to the following criteria\*:

Letter Grade	Description	Grade Points
A+	Excellent	4.00
A		3.75
A-		3.50
B+	Very Good	3.25
B		3.00
B-		2.75
C+	Good	2.50
C		2.25
C-		2.00
D+	Pass	1.75
D	Pass	1.50
F	Fail	0.00
I	Incomplete	-

## WEEKLY LECTURE SCHEDULE AND CONTENT DISTRIBUTION

*“Lecture hours and weeks are approximate and may change as needed”*

Week 1	Pre- training lecture Orientation Guidelines, Communication skills, dress code, Pharmacy Practice Codes of Ethics
Week 2	Respiratory System: Asthma, Allergic Rhinitis, Antihistamine, Decongestants
Week 3	CVS: Hypertension, Angina, Heart Failure, Arrhythmia, Diuretics
Week 4	CVS: Blood Coagulants (warfarin), Anti-Platelets (DAPT:), Lipid Lowering Drugs

Week 5	Mid EXAM Drugs for the Treatment of Diabetes, and Thyroid Disorders
Week 6	Ophthalmic agents (Dry Eye, Allergy, Eye Infection, Glaucoma) Ear products, Cough, Herbal, Vitamins and weight control medication.
Week 7	CNS, Pain Killers (opioids, NSAID, Paracetamol) Muscle relaxant, Rheumatology, Gout, Steroids, Osteoporosis)
	<b>Final Exam</b>