

The University of Jordan Accreditation & Quality Assurance Center

**COURSE Syllabus**

|  |  |  |
| --- | --- | --- |
| **1** | Course title | Ambulatory Care (Outpatient) clerkship |
| **2** | Course number | 1203608 |
| **3** | ***Credit hours (theory, practical)*** | 3 hours practical |
| ***Contact hours (theory, practical)*** | Practical Three weeks, 15 days, 5 hours daily total of 75 hours |
| **4** | Prerequisites/corequisites | Pharmacotherapy IV (1203506) |
| **5** | Program title | Doctor of Pharmacy Program |
| **6** | Program code | - |
| **7** | Awarding institution | The University of Jordan |
| **8** | Faculty | School of Pharmacy |
| **9** | Department | Department of Biopharmaceutics and Clinical Pharmacy |
| **10** | Level of course | 6th year undergraduate |
| **11** | Year of study and semester (s) | Fall semester – 2021/2022 |
| **12** | Final Qualification | Pharm.D. |
| **13** | Other department (s) involved in teaching the course | None |
| **14** | Language of Instruction | English |
| **15** | Date of production/revision | 16 February 2022 |

# Course Coordinator:

Name: Prof. Al-Motassem Yousef, PhD

Office number:

Phone number: 0796558498

Email: ayousef@ju.edu.jo

1. **Other instructors**:

|  |  |
| --- | --- |
| Name: Sally Nassrawin, Pharm.D Office number: 303Phone number: 0796117473Email: s.nassrawin@ju.edu.jo Pharmdsally@gmail.com  | Name: Rami Abd Al jabbar, Ph. MSc in Clinical Pharmacy Office number:- Phone number: 0780516757 Email:rami\_2008\_2009@yahoo.com |
| Name: Ayat Nashwan, Pharm.D Office number:- Phone number: 0781249868 Email: ayatnashwan5@gmail.com | Name: Lina Ayesh, Pharm.D Office number:- Phone number: 0780987744 Email: linaayesh1229@gmail.com |
| Name: Sahar Azzam, Pharm.D Office number:- Phone number: 0799850551 Email: SAHAR3151995@gmail.com  |

1. **Course Description:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| In this rotation the students will have the opportunity to develop the skills needed to provide elements of pharmaceutical care to patients, with either a new or refill prescription, seen in a hospital outpatient settingActivities the student will participate in include: counseling patients in regards to their drugs and diseases, assessing the appropriateness of their medication regimen, and providing drug information to healthcare professionals when required. Thus utilizing appropriate and effective communication skills to assure complete and accurate information to patients concerning drug therapy and acquiring a sense of responsibility for patient outcomes.Students will be distributed to the following outpatient pharmacies and clinics:

|  |  |
| --- | --- |
| **Outpatient pharmacies** | **Outpatient clinics** |
| 1. Respiratory and dermatology pharmacy
2. Neurology and Rheumatology  pharmacy
3. ENT pharmacy
4. GIT pharmacy
 | a) Rheumatology clinicb) Neurology clinicc)        Respiratory clinice)        Dermatology clinicf)         GIT clinic |

 |
| 1. ***Course aims and outcomes: Rotation specific goals and objectives by site of training***

***A- Aims:***

|  |  |
| --- | --- |
| Respiratory | 1. **Patient education about the following diseases:**
2. Asthma
3. COPD
4. **Patient education on the following devices:**
5. MDI
6. Turbohaler
7. Diskus
8. Respimat
9. **Patient education about the following drugs:**

Spiriva Handihaler , Pulmicort Turbohaler , Seretide Discus , Albuterol MDI, Spiriva Respimat |
| Dermatology | 1. **Patient education about the following disease:** Acne
2. **Patient education about the following drugs:**Benoxyphil, Adapalene, Tretinoin Topical, Isotretinoin
 |
| Eyes, ears, nose, and throat (EENT) | 1. **Patient education about the following:**
2. Glaucoma
3. Allergic, viral and bacterial conjunctivitis
4. **Patient education about the following classes of drugs (including benefits, side effects and precautions for use):**
5. Prostaglandin analogues
6. Ophthalmic Corticosteroids
7. Ophthalmic Anticholinergics
8. Antihistamine
9. Decongestants and alpha agonists
10. Beta blockers
11. Carbonic anhydrase inhibitors
12. Restasis®
13. **Patient education about the following devices:**
14. Eye drops (solutions and suspensions) and ointments
15. Ear drops
16. Nasal drops and sprays
 |
| Neurology | 1. **Patient education about the following diseases:**
	1. Epilepsy and seizure disorder
2. **Patient education on the following drugs**:

Gabapentin, Levetiracetam,Topiramate, Valproic acid, Phenytoin, Carbamazepine, Lamotrigine |
| Rheumatology | 1. **Patient education about the following diseases:**
	1. Rheumatoid Arthritis
	2. Osteoporosis
2. **Patient education on the following drugs**:

NSAIDS, Prednisolone, Methotrexate, Muscadol, Allopurinol,Alendronate, Calcium carbonate, Vitamin D. |
| Gastrointestinal | 1. **Patient education about the following diseases:**

IBD (Ulcerative Colitis & Crohn's Disease)1. **Patient education on the following drugs**:

Mesalamine, Azathioprine, Adalimumab, Ciprofloxacin, Metronidazole, PPIs, & H2-Blockers. |

***B- Intended Learning Outcomes (ILOs):*** Upon completion of this course, the student will be able to:1. Identify, resolve, and prevent medication-related problems so that medications are safe, effective, appropriate, and used correctly.
2. Utilize appropriate drug reference sources to obtain relevant information to identify, resolve, and prevent medication-related problems.
3. Interview patients and their caregivers with empathy to obtain relevant, honest, and accurate health information.
4. Provide patient education and counseling at the appropriate level of health literacy to improve health and wellness.
5. Document activities related to patient care in a clear, concise, and accurate manner.
6. Communicate practical, concise, and up-to-date information by oral and written means using appropriate terminology for healthcare professionals.
7. Function in a clear role to establish a climate of shared values and optimize patient care.
8. Strive to identify and learn from errors for the purpose of individual growth.
9. Discuss the pathophysiology, treatments, signs, and symptoms for diseases of the eyes, ears, nose, and throat (EENT).
10. Describe the clinical pharmacology of drugs covered in the course.
 |

**20. Topic Outline and Schedule:**

Students will be divided into 3 groups. Each group will attend 2 pharmacies and then rotate each week to two another pharmacies.

What is written below is an example of one group attending Neurology+ENT pharmacies in the 1st week, then Rheumatology+Respiratory Pharmacies in the 2nd week and at last GIT+Dermatology pharmcaies in the 3rd week.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Week** | **Day** | **Topic/Activity** | **Evaluation Methods\*\*** | **Achieved ILOs** | **References** |
| 1 | 1 | Introductory day | - |  | Outpatient material |
| Respiratory pharmacy and Inhalers use |  |
| ENT pharmacy |  |
| Dermatology Pharmacy  | -- |
| 2 | Topic discussion from 9:00-10:00amClinics/pharmacies from10:00-12:0012:30-14:00 cases discussion and evaluation | Topic DiscussionPill cardTRPEvaluation | 6, 9, 101,2,3,4,5, 6, 7,81,2,3,4,5, 6, 7,8 | Outpatient material |
| 3 | Quiz+Topic discussion from 9:00-10:00amClinics/pharmacies from10:00-12:0012:30-14:00 cases discussion and evaluation | Topic DiscussionPill cardTRPEvaluationQuiz | 6, 9, 101,2,3,4,5, 6, 7,81,2,3,4,5, 6, 7,89, 10  | Outpatient material |
| 4 | Role play  | Role play | 2,3,4 | Outpatient material |
| 5 | Drug/Disease Information Question | Drug/Disease Information Question | 8,9,10 | Any reliable website |
| 2 | 1 | Quiz+Topic discussion from 9:00-10:00amClinics/pharmacies from10:00-12:0012:30-14:00 cases discussion and evaluation | Topic DiscussionPill cardTRPEvaluationQuiz | 6, 9, 101,2,3,4,5, 6, 7,81,2,3,4,5, 6, 7,89, 10  | Outpatient material |
| 2 | Topic discussion from 9:00-10:00amClinics/pharmacies from 10:00-12:0012:30-14:00 cases discussion and evaluation | Topic DiscussionPill cardTRPEvaluation | 6, 9, 101, 2, 3, 4,5 , 6 1,2,3 , 4, 5, 6 | Outpatient material |
| 3 | Role play | Role play | 2,3,4 | Outpatient material |
| 4 | Drug/Disease Information Question | Drug/Disease Information Question | 8,9,10 |  |
| 5 | **Journal Club** | **Journal club evaluation form.** | **6, 7** | **Pubmed** |
| 3 | 1 | Quiz+Topic discussion from 9:00-10:00amClinics/pharmacies from 10:00-12:0012:30-14:00 cases discussion and evaluation | Topic DiscussionPill cardTRPQuizEvaluation | 6, 9, 101,2,3,4,5, 6, 7,81,2,3,4,5, 6, 7,89, 10 | Outpatient material |
| 2 | Topic discussion from 9:00-10:00amClinics/pharmacies from 10:00-12:0012:30-14:00 cases discussion and evaluation | Topic DiscussionPill cardTRPEvaluation | 6, 9, 101,2,3,4,5, 6, 7,81,2,3,4,5, 6, 7,8 | Outpatient material |
| 3 | Role play |  | 2,3,48,9,10 | Outpatient material |
|  | 4 | Drug/Disease Information Question |  |  |  |
|  | 5 | OSCE | Final-OSCE |  | -- |

 |

* Teaching methods include: Synchronous lecturing/meeting;
* Evaluation methods include: Homework, Quiz, Exam, pre-lab quiz…etc
	1. **Teaching and Evaluation methods:**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Opportunities to demonstrate achievement of the ILOs are provided through the following assessment methods and requirements:

|  |  |  |  |
| --- | --- | --- | --- |
| **Evaluation Activity** | **Mark** | **Topic(s)** | **Period (Week)** |
| **Narrative case** | **5** | **Case dependent upon pharmacy/ clinic attended** | **1, 2, 3** |
| **Pill card** | **5**  | **Case dependent upon pharmacy/ clinic attended** | **1, 2, 3** |
| **Treatment Related Problem** | **5** | **Case dependent upon pharmacy/ clinic attended** | **1, 2, 3** |
| **Drug/Disease Information Question** | **5** | **2 questions related to pharmacies/week** | **1, 2, 3** |
| **Journal Club** | **5** | **Any related topic of the material** | **2** |
| **Role play** | **5** |  | **1, 2 , 3** |
|  **Topic discussion** | **10** |  Neurology, Rheumatology & GIT Pharmacies material  | **1, 2, 3**  |
| **Quizes** | **5** | All pharmacies One quiz weekly | **1, 2, 3**  |
| **Evaluation** | **5** |  - | **1, 2, 3**  |
| Role play and Discussion with PhD holder and a project on different topics | 10  | Any medication from the material | 2 ,3  |
|  Final exam  | 30 | All material | At the end of the semester |
| Final exam-OSCE patient and physician station  |  10 |  - |  3 |

**Learning skills:*** Critical thinking
* Digital literacy
* Problem-solving skills
* Self-directed learning
 |

* 1. **Course Policies:**

**A-** Attendance policies:

Attendance is mandatory. The first and the last warning with 1 absence. Two absences (20%) result in

dismissal from the course.

Other hospital clerkship specific policies:

In each training course, the students will be divided into 2 groups. Each groups will undergo training in the hospital for 2 days and will attend online lectures for 3 days (Sunday-Thursday), from (9.00 AM-2:00 PM).

QF-AQAC-03.02.1.3

B- Absences from exams and submitting assignments on time:

Will result in zero achievement unless a health report or other significant excuse is documented.

C- Health and safety procedures:

Before training, it is mandatory to get blood tests for Hepatitis B, C, and HIV.

Flu vaccination is obligatory to obtain before training.

D- Honesty policy regarding cheating, plagiarism, misbehavior:

The participation, the commitment of cheating will lead to applying all the following penalties

together

1) Failing the subject he/she cheated at

2) Failing the other subjects taken in the same course

3) Not allowed to register for the next semester

E- Grading policy:

|  |  |
| --- | --- |
| **Course activity** | **Assigned mark (out of 100)** |
| Daily topic discussion |                        10 marks |
| **Hospital**1. Pill cards2. Narrative case3. Treatment related problem interventions (TRP)4. Drug information question evaluation forms.5. Journal Club  |  5 marks 5 marks 5 marks 5 marks                           5 marks |
| Quizzes  |                            5 marks |
| Daily evaluation (appearance, attendance, attitude) | 5 marks |
| Role play with instructor | 5  marks |
| Role play with Ph.D. holder |                           10 marks |
| Final exam (Written & OSCE) |                           40 marks |

F- Available university services that support achievement in the course:

Classrooms, internet classes, hospital training site at JUH

* 1. **Required equipment:**

Classroom with Data show, Computer and White Board.

* 1. **References:**

|  |
| --- |
| 1. [www.medlineplus.com](http://www.medlineplus.com) (for patient counseling), [www.uptodate.com](http://www.uptodate.com) (patient education oriented, health care professional oriented)
2. Rxlist.com ( for both patient education and drug pharmacology
3. Uptodate.com (for both patient education and drug pharmacology)
4. <http://www.jpa.org.jo/index.php/drugIndex/advancedSearch> (for brands available in Jordan)
5. medications that should not be crushed , pharmacist’s letter / prescriber’s letter, December 2008 ~ volume 24 ~ number 241204
 |

* 1. **Additional information:**

N/A

Name of Course Coordinator: **Dr. Al Motassem Yousef** Signature: ------------------ Date: 16 FEB 2022

Head of Curriculum Committee/Department: **Dr. Nancy Hakouz**  Signature: --------------------------

Head of Department: **Dr. Nancy Hakouz** Signature: -----------------------

Head of Curriculum Committee/Faculty: **Dr. Eman Hammad** Signature: -------------------

Dean: **Dr. Rana Abu Dahab** Signature: -------------------------------------------

Copy to: Head of Department

Assistant Dean for Quality Assurance Course File