**King Saud University**

**College of Pharmacy**

 **PHCL 430**

 **Course Syllabus**

1. **GENERAL INFORMATION**

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| **Course Number** | PHCL 430 |
| **Course Title** | Pharmacotherapy II |
| **Lecture Hours Per Week** | 3 Hours |
| **Credit Hours Per Semester** | 3+0 |
| **Admission Particulars** | Pre-requisites: PHCL 416Co-requisites: PHL 424, PHL 425 and Pharmaceutical Care I (PHCL 429) |
| **Course Director:** | **Faculty Name & credentials:** **Position:** **Office Location:** **Phone:** **Email:** **Office hours:** **Faculty Name & credentials:** Salha Jokhab , MSc**Position:** lecturer **Office Location:** Bldg. 8 Second floor Rm# 92**Phone:** 55254**Email:** sjokhab@ksu.edu.sa**Office hours:**  |
| **Clock hours & Locations:** | Days and time: Tuesdays 10am-12pm then resume 1-2pmMale campus: Female campus:  |

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| Participating Faculty |
| Faculty Name & credentials: Lamya Alnaim, PharmD, gCert, PgDiplPosition: Clinical: Assistant ProfessorOffice Location:Third floor Bldg. 8 Rm# 31Phone: 8056492Email lalnaim@KSU.EDU.SAOffice hours: |
| Faculty Name & credentials: Lobna Al Juffaliy, PhDPosition: Assistant professorOffice Location: Third floor Bldg. 8 Rm# 29Phone: 80552701Email : laljaffali@ksu.edu.saOffice hours:  |
| Faculty Name & credentials: Noha Al- Alooal, PhDPosition: Assistant professorOffice Location: First floor Bldg. 8 Rm# 23/2Phone: -Email : nalaloola@ksu.edu.sa@ksu.edu.saOffice hours: |
| Faculty Name & credentials: Jamilah Alsaidan MSc.Position: lecturerOffice Location: : Third floor Bldg. 8 Rm#73Phone: 52950Email: Jalsaidan@ksu.edu.sa |

1. **COURSE DESCRIPTION**

This course continues from Pharmacotherapy I, introduces the clinical use of medication in the prevention & treatment of disease and serves as a foundation for the delivery of pharmaceutical care. Pharmacotherapy I and II serves the needs of all future pharmacists by focusing on core chronic disease states with an emphasis on outpatient management. It is coordinated with Pharmaceutical Care I to provide more direct application.

1. COURSE OBJECTIVES

**At the completion of the course series, the student should be able to:**

1. Understand the basic mechanisms of selected diseases and interpret these mechanisms in relation to drug therapy

2. Recognize major signs and symptoms of selected disease states

3. Design an effective drug treatment regimen for selected disease states

4. Tailor general therapeutic protocols to individual patients

5. Assess the risk versus benefit of drug therapy in a given patient

6. Interpret drug response using subjective and objective criteria, including laboratory measures and physical findings

7. Evaluate the safety and efficacy of drugs in a given therapeutic class

8. Formulate approaches to monitor patient response to a given drug regimen

1. **COURSE ABILITY OUTCOMES**

**Following the successful completion of this course, a student will be able to:**

1. Design an optimal individualized therapeutic plan based on patient history, presentation and diagnostics that includes pharmacologic and non-pharmacologic approaches that are evidence-based
2. Identify current or potential drug related problems and desired therapeutic outcomes and alternatives.
3. Design, implement, monitor, evaluate, and modify drug therapy to ensure effective, safe, and economical patient care
4. Identify and recommend monitoring parameters for drug therapies in accordance with established standards of practice
5. Communicate clearly, accurately, and persuasively the recommended therapeutic care plans

**RESOURCES**

**REQUIRED TEXTBOOK:**

* + - Handouts including copies of PowerPoint slides from lectures
		- Guidelines and articles as specified by the instructor
		- Dipiro et al. Pharmacotherapy – A Pathophysiologic Approach 8th edition 2012 McGraw-Hill
		- Koda-Kimble MA et al Applied Thera48peutics – The Clinical Use of Drugs 10th edition 2011 Lippincott Williams & Wilkins

**REQUIRED INSTRUCTIONAL MATERIALS:**

* All supplemental materials will be available to students electronically through blackboard. Class handouts and patient cases (when applicable) will be posted on the KSU blackboard server (<https://lms.ksu.edu.sa/>) at least 48 hours prior to the scheduled session date. It is the student responsibility to check the blackboard site regularly for any updates

**RECOMMENDED RESOURCES**

* Availability of copies of the required chapters will be arranged by each lecturer
* Supplemental materials will be provided by each lecturer during class
1. **COURSE POLICIES**
2. **ACADEMIC DISHONESTY/PLAGIARISM**
* Students are expected to demonstrate professionalism and honesty during this course. Academic dishonesty includes, but is not limited to, cheating, plagiarizing, fabricating of information or citations, facilitating acts of academic dishonesty by others, having unauthorized possession of examinations, submitting work of another person or work previously used without informing the instructor, or tampering with the academic work of other students. Students found in violation of such policy are subjected to disciplinary actions as per University Policy.
* Please read the manual of study and tests for undergraduate students and operational rule

 (لائحة الدراسة والاختبارات للمرحلة الجامعية والقواعد التنفيذية المعتمدة) <http://dar.ksu.edu.sa/Regulations>

* Please read the manual of students rights and duties (لائحة تأديب الطلاب بجامعة الملك سعود) <http://dar.ksu.edu.sa/Regulationss>
1. **CLASS PARTICIPATION AND PROFESSIONALISM**
* It is expected that all students come to class prepared by completing where applicable all assigned readings, online homework, and other assignments before class and ready to actively participate in classroom activities. Faculty will clarify and expand on the reading material. Use of phones is prohibited during class.
1. **GUIDELINES FOR E-MAIL COMMUNICATION**
* E-mail is often perceived as an informal method of communicating, but some basic rules of style or etiquette are expected. In general, rules of common courtesy for interaction with people should be used for any situation and on the internet it is especially important where, for example, body language and tone of voice must be inferred.
1. **All emails should be sent from your KSU account** **ONLY**
2. Mail should have a subject heading which reflects the content of the message.
3. Your message should begin with an appropriate salutation, including the name of the person being addressed, and end with the full name of sender.
4. Use mixed case and proper punctuation.
5. Current e-mail addresses for all students must be maintained in the Blackboard system**.** Each student must edit this in the "Personal Information" section of "Tools". Faculty will not be able to contact you if your email address is not updated and you could miss important information about courses.
6. **Check your e-mail daily.** Most information and communication from instructors will come via e-mail or will be posted on Blackboard under announcements.
7. **Failure to check email/Blackboard may result in you missing important assignments and subsequently affect your grade.**
8. Direct your request to the appropriate person, as indicated below. Please note that discussion board posts are preferred whenever your questions do not involve personal matters to reduce the number of individual emails.
* **Questions concerning lecture content:**
* First, post your question on the **discussion board of Blackboard**. All faculty teaching in this course have access to blackboard and will reply to questions posted. Other students may have the same question that you have or may have the answer. Please allow adequate time for faculty to respond.
* Inquire if the faculty member teaching that lecture has office hours and try to attend.
* If neither of the above steps adequately answers your question, email the faculty member teaching that lecture.
* **General course questions or if you are unsure of where to direct questions**:
* Contact the Course Director if your question involves a personal matter. Post general course related questions on the **discussion board** dedicated to the overall course logistics.
* **DO NOT** send message to "All Instructors".

**ATTENDANCE AND EXCUSED ABSENCE**

* In the case of illness or prolonged absence, it is the student’s responsibility to notify the faculty member and/or the Course Director within 5 days from the first date of absence. Exceptions to the five-day notification period are rare and can only be approved by the Vice Dean of Academic Affair. With acceptable documentation from a student, an official memorandum will be issued notifying faculty of an excused absence. In the case of a legitimate excused absence, course instructors will make all reasonable attempts to assist the student to satisfy requirements of the course.
* Students missing 25% or more on attendance are forbidden from setting in the final exam per University Policy.
* If a student missed a midterm exam for an **ELIGIBLE** reason, Student must submit proper documentation within 2 weeks of scheduled exam time to the faculty member and the course coordinator.
* For any missed exams, student should fill a make-up exam form (pick up from department secretary) and obtain the necessary signatures and approvals from faculty member, the course director and head of the department.
* The faculty member has the right to determine the method for make-up exam, which can be any of the following:
	+ Increasing the percentage of the remaining exams to cover the missed exam
	+ Assigning the final exam a higher percentage to cover the missed exam for that student
	+ A make-up exam (the exam will be based on short answer questions)
	+ If the final is cumulative, the section relating to the missed examination material can be used as the grade for that missed exam.
1. **EXAMINATION AND GRADING CRITERIA**
2. Grade policy & distribution:
* 200 points: 3 mid semester examination in addition to 4 quizzes cover each section and one final examination.
* Exam questions will be multiple choice (4 options / choices) or short answer and preferably based on short patient cases.
* Questions will be based on the lecture objectives and focus on pharmacotherapy (rather than epidemiology or pathophysiology)
* Student performance on examinations and specific questions may be analyzed for normalized distribution & integrity, and adjusted accordingly if needed including.
1. Late assignments/homework Policy or missed Quizzes

Late assignments/homework will be penalized by 5% reduction in grade per each passing day.

The instructor has the right to determine the method of evaluation of missed quizzes as appropriate.

**GRADE DISTRIBUTION**

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| --- | --- |
| **1st Midterm exam** | 50 Points midterm# Renal part |
| **2nd  Midterm exam** | 50 Points midterm# Infectious Part |
| **3rd Midterm** | 50 points midterm# oncology |
| **Final exam**  | psychiatry 50 point |
| **Total** | 200 points **To be adjusted from 100** |

1. **CONFLICT RESOLUTION:**
* Any issues related to this course teaching, examinations and grading should be resolved with the course instructor promptly to ensure healthy learning atmosphere.
* Unresolved matter should be directed to the course coordinator. If matter is not yet resolved, please direct your complaint to the department head/Vice Head.
1. **CHANGE IN THE COURSE SYLLABUS OR GRADE DISTUBITION:** students will be notified with any changes to the course syllabus or grade distribution.

 **COURSE SCHEDULE**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Week** | **Day** | **Date** | **Time** | **Lecture** | **Topic** | **Male instructor** | **Female Instructor**  |
| **1** | Tuesday8/1/2019 | **Renal Module**  |
| 10-11 | 1 | COURSE ORINTATION |  | Dr.Jamilah |
| 11-12 | 2 | Renal Failure (1) |  | Dr.Jamilah |
| 1-2 | 3 | Renal Failure (2)  |  | Dr.Jamilah |
| **2** | Tuesday15/1/2019 | 10-11 | 4 | Renal failure (3)  |  | Dr.Jamilah |
| 11-12 | 5 | Renal failure (4) |  | Dr.Jamilah |
| 1-2 | 6 | Fluids, Electrolytes, Acid Base(1) |  | Dr.Jamilah |
| **3** | Tuesday22/1/2019 | 10-11 | 7 | Fluids, Electrolytes, Acid Base(2) |  | Dr.Jamilah |
| 11-12 | 8 | Fluids, Electrolytes, Acid Base (3) |  | Dr.Jamilah |
| 1-2 | 9 | Fluids, Electrolytes, Acid Base (4) |  | Dr.Jamilah |
| **Infectious disease Module**  |
| **4** | Tuesday29/1/2019 | 10-11 | 10 | General Principle of ID  |  | Dr.Noha |
| 11-12 | 11 | Respiratory Tract Infections(1) |  | Dr.Noha |
| **1-2** | **Exam 1hr** | **Exam 1 (Lectures 1-9)****50 points** |  | **Renal Section** |
| **5** | Tuesday5/2/2019 | 10-11 | 12 | Respiratory Tract Infections(2) |  | Dr.Noha |
| 11-12 | 13 | Tuberculosis |  | Dr.Noha |
| 1-2 | 14 | Tuberculosis |  | Dr.Salha |
| **6** | Tuesday12/2/2019 | 10-11 | 15 | Skin, bone & joint |  | Dr.Salha |
| 11-12 | 16 | GI/Abdominal infections and CNS |  | Dr.Salha |
| 1-2 | 17 | Urinary Tract Infections (UTI)  |  | Dr.Salha |
| **7** | Tuesday19/2/2019 | 10-11 | 18 | Cardiovascular system infection |  | Dr.Lobna |
| 11-12 | 19 | HIV |  | Dr.Lobna |
| 1-2 | 20 | HIV |  | Dr.Lobna |
| **8** | Tuesday26/2/2019 | 10-11 | 21 | Brucellosis |  | Dr.Lobna |
| 11-12 | 22 | Fungal infections |  | Dr.Lobna |
| **Oncology Module** |
| 1-2 | 23 | General principles of oncology (1) |  | Dr.Lamya |
| **9** | Tuesday5/3/2019 | 10-11 | 24 | General principles of oncology (2) |  | Dr.Lamya |
| 11-12 | 25 | General principles of oncology(3) |  | Dr.Lamya |
| 1-2 | 26 | Breast Cancer (1) |  | Dr.Lamya |
| **10** | Tuesday12/3/2019 | 10-11 | 27 | Breast Cancer (2) |  | Dr.Lamya |
| 11-12 | 28 | Pain management(1) |  | Dr.Lamya |
| **1-2** | **Exam 1hr** | **Exam 2**  **(Lectures 10-22)****50 points** |  | **Infectious section** |
| **11** | Tuesday19/3/2019 | 10-11 | 29 | Pain management (2) |  | Dr.Lamya |
| 11-12 | 30 | Diarrhea & constipation |  | Dr.Lamya |
| 1-2 | 31 | Nausea, vomiting |  | Dr.Lamya |
| **12** | Tuesday26/3/2019 |
| **Psychiatry Module** |
| 10-11 | 32 | Depression (1) |  |  |
| 11-12 | 33 | Depression (2) |  |  |
| 1-2 | 34 | Anxiety (1) |  |  |
| **13** | Tuesday2/4/2019 | 10-11 | 35 | Bipolar, Mania (1) |  |  |
| 11-12 | 36 | Bipolar, Mania (2) |  |  |
| 1-2 | 39 | Parkinson’s |  |  |
| 14 | Tuesday**9/4/2019** | **11-12** | **Exam 1hr** | **Midterm Three(23-31) 50 points**  |  | **Oncology Section** |
| **14** |  | 10-11 | 37 | Alzheimer’s & Dementia |  |  |
| 11-12 | 38 | ADHD |  |  |

1. **GRADING SCALE:** grades will be earned based on KSU grading policy. the following scale:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Letter Grade | Score Achieved |  | Letter Grade | Score Achieved |
|  A+ | > 95% |  |  C+ | 75 - 79.99 % |
| A | 90 - 94.99 % |  | C | 70 - 74.99 % |
|  B+ | 85 - 89.99 % |  |  D+ | 65 - 69.99 % |
| B | 80 - 84.99 % |  | D | 60- 64.99 % |
|  |  |  | F | < 60% |

**Course Binding Agreement (PHCL 430):**

The Course binding agreement has to be signed by each student and returned through the class leader to the course instructor before the third lecture. *Failure to submit this paper will attest to the student had read and agreed on the information contained therein*.

**“I have read this syllabus, understand its implications (and have sought clarification of those parts that were unclear to me), and will abide by it.**I understand that the course coordinator has the right to make alterations to the class and exam schedule as needed.”

Name of Student: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

University ID: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Signature of Student: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_