



Co-funded by the  
Erasmus+ Programme  
of the European Union

## Arab International University

Faculty: Pharmacy; Department: Pharmacology & Pharmacognosy

### **Redesigned Pharmacology course**

#### **Summary of the Course:**

**Course Name:** Pharmacology 1

**Course Code:** 022425B

**Credit Hours:** 4 credit hours (theoretical: 3 hours, practical: 2 hours)

**Category:** Core

**Level:** 5<sup>th</sup>

#### **Redesigned Course:**

##### **- Main results/ outcomes:**

During Covid-19 lockdown, we uploaded on the university learning management system (MOODLE) about 50% of current pharmacology lectures as videos. These videos especially their audio components have been used for more expressive presentations, and, learning communication and digital technologies. In addition, we prepared the following activities:

- Investigation activities (IA):*** web search forums, literature reviews.
- Acquisition activities (AA):*** guided readings (library resources), video lectures.



Co-funded by the  
Erasmus+ Programme  
of the European Union

- Practice activities (PA):** case studies.
- Collaboration activities (CA):** in general, a majority of the activities will be accomplished by groups of students.
- Discussion activities (DA):** group discussion.
- Production activities (ProA):** make and give a presentation, and write a report.

### - Participants:

Dr. Fuad Al Khidir, Dr. Mazen Al-Haj

#### 1- Dr. Fuad Al Khidir Part:

Week	Lecture Content	Students Learning Activity
1	Anatomy and physiology of Autonomic Nervous System (ANS)	<b>AA:</b> lecture <b>IA:</b> search on internet about ANS
2	Cholinergic Agonists	<b>AA:</b> lecture <b>DA:</b> Discussing the students previous search
3	Cholinergic Antagonists	<b>AA:</b> lecture <b>PA:</b> case studies <b>CA:</b> make groups of students and watch the uploaded video to discuss it during the next lesson
4	Adrenergic Agonists	<b>AA:</b> lecture <b>DA:</b> discussion video entitled (B-blockers)



Co-funded by the  
Erasmus+ Programme  
of the European Union

5	Adrenergic Antagonists	<b>AA:</b> lecture <b>DA:</b> Group Discussion
6	Midterm	
7	Congestive Heart Failure	<b>AA:</b> lecture <b>IA:</b> search on internet about the disease
8	Congestive Heart Failure (Cont.)	<b>AA:</b> lecture <b>DA:</b> discussing students previous search <b>CA:</b> make groups of students and watch the uploaded video to discuss it during the next lesson
9	Hypertension	<b>AA:</b> lecture <b>DA:</b> discussion video entitled (Antihypertensive drugs)
10	Hypertension (Cont.)	<b>AA:</b> lecture <b>DA:</b> Group Discussion
11	Angina Pectoris	<b>AA:</b> lecture <b>PA:</b> case studies
12	Myocardial Infarction	<b>AA:</b> lecture <b>PA:</b> case studies
13	Revision	<b>ProA:</b> Students Presentation about selected topics in pharmacology (GI diseases, Osteoporosis)
14 & 15	Final Exam	



Co-funded by the  
Erasmus+ Programme  
of the European Union

## 2- Dr. Mazen Al Haj Part:

Week	Lecture Content	Students Learning Activity
1	Basics of Pharmacology	AA: lecture IA: search on internet about pharmacology
2	Pharmacokinetics	AA: lecture DA: discussing students previous search CA: make groups of students and watch the uploaded video to discuss it during the next lesson
3	Pharmacokinetics (Cont.)	AA: lecture DA: discussion video entitled (drug-receptor relationship)
4	Pharmacodynamics	AA: lecture DA: Group Discussion
5	Pharmacodynamics (Cont.)	AA: lecture DA: Group Discussion
6	Midterm	
7	Diuretics	AA: lecture IA: search on internet about HCTZ



Co-funded by the  
Erasmus+ Programme  
of the European Union

8	Diuretics (Cont.)	<b>AA:</b> lecture <b>DA:</b> discussing students previous search <b>PA:</b> case studies
9	Antihyperlipidemics	<b>AA:</b> lecture <b>CA:</b> make groups of students and watch the uploaded video to discuss it during the next lesson
10	Antihyperlipidemics (Cont.)	<b>AA:</b> lecture <b>DA:</b> discussion video entitled (Statins) <b>IA:</b> search on internet about coagulation process
11	Anticoagulants	<b>AA:</b> lecture <b>DA:</b> discussing students previous search
12	Thrombolytics	<b>AA:</b> lecture <b>PA:</b> case studies
13	Revision	<b>ProA:</b> Students Presentation about selected topics in pharmacology (Anti-Histamines, Anti-Inflammatory Drugs)
14 & 15	Final Exam	