 Write clear concise & organized communication. Give oral presentation to small & large groups

Philadelphia University
Faculty of Pharmacy
Department of Clinical Sciences
Second Semester, 2017

Course Syllabus

Course Title: Pharmacology I	**Course code: 0510331**
Course Level: Third year	**Course prerequisite (s) and/or co requisite(s): Physiology2 (0510232)**
Lecture Time:	**Credit hours: 3 credit hours**

Academic Staff Specifics

Name	Rank	Office Number and Location	Office Hours	E-mail Address
Dr. Husni Twaij &Dr.Mansour Haddad	**Professor Associate Prof.**	**522,(5) College of Pharmacy**		**h_twaij@philadelphia.edu.j**

Course module description:
This course is an essential topic for pharmacy, which provide students with the basic principles of the science of pharmacology and familiarizes them with the necessary terminology. This module has a reflective, interactive and analytical contextual focus. However, it deals with concept of drug receptor interaction, the mode o action of drugs, the modifying responses and adverse effects, the dose-response relationship, drug toxicity ,drug absorption, distribution, protein binding, metabolism, and excretion.
It also includes detailed information about drugs acting on the autonomic nervous system and drugs acting on CNS as well as the histaminaregic and serotenergic drugs. The module also covers drug abuse.

Course module objectives:
At the end of this module, students will be able to:

1. **Get knowledge of the terms and application of the basic principles of pharmacology.**
2. **Get knowledge of the general pharmacokinetics and pharmacodynamics of drugs with special attention on drugs studies .**
3. **Understand the mechanisms of action of drugs which act through and /or mimic the autonomic nervous system.**
4. **Understand the other topics such as drugs which act on the CNS (Psychopharmacology).**

Course/ module components

- **Books (title , author (s), publisher, year of publication)**

1. Basic and Clinical Pharmacology
by Bertram G. Katzung,(Author) MacGraw Hill,(Publisher) 13th edition 2015----------
ISBN: 978-1-25 925290-6 or MHID: 007-110441-0 (indai version)

References:

1. **The pharmacological basis of therapeutics.**
   By Brunton;Laurence L.Lazo,Johns S.Parker,Keith L & and Alfred Goodman Gillman. (Editors) 11 edition .
   McGraw-Hill (Publisher).
   ISBN 0-07-142

- **Support material (s) (vcs, acs, etc).**
- **Study guide (s) (if applicable)**
- **Homework and laboratory guide (s) if (applicable).**

Teaching methods:

Lectures, tutorials & Seminars.

Learning outcomes:

- Knowledge and understanding

- Cognitive skills (thinking and analysis).

-Possess self learning skills, problem solving & critical thinking abilities.
Interpret, analyze & evaluate information in the literature

- Communication skills (personal and academic).

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- Practical and subject specific skills (Transferable Skills).

Students will apply most of the acquired knowledge from the theoretical lectures in the co-requisite practical laboratory. The theoretical information also allows them to be able to perform a research & experimental work.

Assessment instruments

- Short reports and/ or presentations, and/ or Short research projects
- Quizzes.
- Home works
- Final examination: 40 marks

Allocation of Marks	
Assessment Instruments	**Mark**
First examination	**20%**
Second examination	**20%**
Final examination: 40 marks	**40%**
Reports, research projects, Quizzes, Home	**20%**

works, Projects	
Total	**100%**

Documentation and academic honesty

- Documentation style (with illustrative examples)

- Protection by copyright
- Avoiding plagiarism.

Course/module academic calendar

Week	Basic and support material to be covered	Homework/reports and their due dates
(1)	General principles of pharmacology, terminology and general introduction.	Reports on insulin
(2)	Drug- receptor introduction.	
(3)	Pharmacokinetics and pharmacodynamics.	
(4)	Pharmacogenetics, drug development and clinical trials.	**Reports on Anti thyroid**
(5)	Drugs affecting the autonomic nervous system. General aspects of neuropharmacology.	**Seminars on Mis use of corticosteroids.**
(6) **First examination**	**Cholinergic (parasympathomimetics) drugs.** **Cholinergic (muscarinic) blocking agents.** Ganglionic blocking agents.	
(7)	**Neuromuscular blocking agents and Muscle relaxants.** **Adrenergic (Sympathomimetic) drugs.** Adrenergic blocking agents.	
(8)	**Drugs acting on the adrenergic neuron.** Antihypertensive agents.	**Reports on mis use of chemotherapeutic agents.**
(9)	**Histamine and Antihistamines.** **Prostaglandine.**	
(10)	**Serotonin and Serotonin antagonist.** Kinins and other peptides.	

(11) Second examination	Drug acting on the CNS (Psychopharmacology). General concept of psychopharmacology. Antipsychotic drugs.	
(12)	Antidepressant drugs.	
(13)	**Antiparkinsonian drugs**	
(14)	**Antiepileptic.**	
(15) Specimen examination (Optional)	**Narcotic analgesics and antagonists and drug abuse and dependence.**	**Reports and seminars on gastrointestinal drugs.**
(16) Final Examination	**Final Exam**	

Expected workload:

On average students need to spend 2 hours of study and preparation for each 50-minute lecture/tutorial.

Attendance policy:

Absence from lectures and/or tutorials shall not exceed 15%. Students who exceed the 15% limit without a medical or emergency excuse acceptable to and approved by the Dean of the relevant college/faculty shall not be allowed to take the final examination and shall receive a mark of zero for the course. If the excuse is approved by the Dean, the student shall be considered to have withdrawn from the course.

Module references

Books

1. Basic and Clinical Pharmacology
by Bertram G. Katzung,(Author) MacGraw Hill,(Publisher) 10th edition 2007----------
ISBN: 978-007-110441-8 or MHID: 007-110441-0 (India version)

2. The pharmacological basis of therapeutics.
By Brunton;Laurence L.Lazo,Johns S.Parker,Keith L & and Alfred Goodman Gillman. (Editors) 11 edition .
McGraw-Hill (Publisher).
ISBN 0-07-142280-3

Journals

Websites
http:/www.philadelphia.edu..jo/pharmacy/resources.html