


Philadelphia University	 <b>PHILADELPHIA UNIVERSITY</b> <small>THE WAY TO THE FUTURE</small>	Approved Date:
Faculty: Pharmacy		Issue: 1
Department:		Credit Hours: 3
Academic Year: 2021/2022		<b>Course Syllabus</b>

### Course Information

Course No.	Course Title	Prerequisite	
0520432	Pharmacology III	0520400	
Course Type		Class Time	Room No.
<input type="checkbox"/> University Requirement <input type="checkbox"/> Faculty Requirement <input type="checkbox"/> Major Requirement <input type="checkbox"/> Elective <input checked="" type="checkbox"/> Compulsory		1. Sun, Tues (12:45-14:15) 2. Mon, Wed (12:45-14:15)	TBA

### Instructure Information

Name	Office No.	Phone No.	Office Hours	E-mail
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### Course Delivery Method

<input type="checkbox"/> Blended <input type="checkbox"/> Online <input checked="" type="checkbox"/> Physical			
Learning Model			
Percentage	Synchronous	Asynchronous	Physical
	0	0	100%

### Course Description

This Module is designed to provide the students with the unit processes taking in pharmacology. At this level, the student has been exposed to pharmacology (II) where different basic pharmacological topics will be illustrated in it regarding the mentioned drugs. This module deals with study of the mode of action, adverse effects, clinical application, toxicity of drugs that acts on the cardiovascular diseases such as Angina pectoris, heart failure & cardiac arrhythmias as well as study of drugs with diuretic, anti-hyperlipidemic drugs, anticancer activities & nonsteroidal anti-inflammatory drugs are also investigated. The interaction of these drugs with each other or with others is also viewed.

## Course Learning Outcomes

Number	Outcome	Corresponding Program Outcomes	Corresponding Competencies
<b>Knowledge</b>			
<b>K1</b>	<ul style="list-style-type: none"> <li>• Classify the Major groups of cardiovascular drugs, and identify the drugs which are used for angina pectoris, heart failure and cardiac arrhythmia, Anticancer agent, drugs used in gout and nonsteroidal antiinflammatory drug</li> <li>• Identify pharmacokinetics and pharmacodynamics of drugs, indication and, clinical uses, side effects and contraindication.</li> </ul>	<b>Kp1</b>	<b>C1</b>
<b>K2</b>	<ul style="list-style-type: none"> <li>• Build knowledge on routs of drug administration, effects of drug on pregnant and lactating women.</li> <li>• Recognize the drug - drug interaction and drug - food interaction and prevent adverse drug reactions on the body.</li> </ul>	<b>Kp2</b>	<b>C2</b>
<b>Skills</b>			
<b>S1</b>	<ul style="list-style-type: none"> <li>• Optimize the safety and efficacy of medication use</li> <li>• Prediction the clinical uses, side effects by knowing the pharmacokinetic &amp; pharmacodynamics of drug</li> </ul>	<b>Sp2, Sp4</b>	<b>C8, C10</b>
<b>S2</b>	Understanding main points on drug information to enable a productive interaction with patients and proper counseling for them	<b>Sp3</b>	<b>C9</b>

## Learning Resources

<b>Course Textbook</b>	<ul style="list-style-type: none"> <li>• <b>Lippincott, Illustrated Reviews: Pharmacology</b> by Whalen K, 6th edition, 2018.</li> <li>• <b>The Pharmacological Basis of Therapeutics</b> by brunton; laurence L. Lazo, Johns S. Parker, Keith L &amp; Alfred Goodman Gillman 11th edition McGraw Hill. ISBN 0-07-142.</li> <li>• <b>Pharmacotherapy: A Pathophysiologic Approach</b> by: Joseph T. DiPiro, Gary C. Yee, L. Michael Posey, Stuart T. Haines, Thomas D. Nolin, Vicki Ellingrod. 11<sup>th</sup> edition, 2020.</li> </ul>
<b>Supporting References</b>	1. <b>Clinical Pharmacology</b> by Bennett PN, Brown MJ, Sharma PJ, Elsevier, London ,12th edition, 2018.

	2. <b>British National Formulary (BNF) Royal Pharmaceutical Society.</b> UK 79 <sup>th</sup> edition, 2020.
<b>Supporting Websites</b>	Philadelphia University e-learning site
<b>Teaching Environment</b>	<input checked="" type="checkbox"/> Classroom <input type="checkbox"/> laboratory <input type="checkbox"/> Learning Platform <input type="checkbox"/> Other

### Meetings and Subjects Time Table

Week	Topic	Learning Method*	Task	Learning Material
1	<ul style="list-style-type: none"> <li>Course Syllabus</li> <li>Introduction in Hypertension</li> </ul>	Lecture		•Course Syllabus
2	Antihypertensive Agents	Lecture		**
3	Diuretics	Lecture	***Quiz 1	
4	Heart Failure	Lecture		
5	Angina Pectoris, Arrhythmias	Lecture		
6	<b>Mid Exam (TBA)</b>			
6-7	Inflammation and NSAIDs	Lecture	***Quiz 2	**
8	Gout	Lecture		
8-9	Dyslipidemia	Lecture		
10	Basics in Oncology_ Agents used in Cancer Treatment	Lecture	***Quiz 3	
11	Chemotherapy_ Alkylating Agents	Lecture		
12	Chemotherapy_ Antimetabolites	Lecture		
13	Chemotherapy: Microtubule-Targeting Drugs Topoisomerase Inhibitors	Lecture		
14	Chemotherapy: Platinum Derivatives Anthracyclines Antibiotics	Lecture		
15	Anticancer Agents: Steroidal Antagonists Monoclonal Antibodies An Introduction to Cancer Immunotherapy Immunosuppressant Agents: (Immunomodulators (Homework))	Lecture		
16	<b>Final Exam (TBA)</b>			

\*Includes: lecture, flipped Class, project based learning, problem solving based learning, collaboration learning.

\*\*As illustrated in the references section.

\*\*\*Quiz 4: TBA

## Course Contributing to Learner Skill Development

Using Technology
<ul style="list-style-type: none"> <li>Using Microsoft office to prepare reports and presentations</li> <li>Using online medical applications/ calculators in solving some clinical problems</li> <li>Using the university's e-learning site as a supporting reference tool and for term works solving</li> </ul>
Communication Skills
<ul style="list-style-type: none"> <li>Clinical case presentation and solving</li> <li>Teamwork and group discussions engagement</li> </ul>
Application of Concept Learnt
<ul style="list-style-type: none"> <li>Clinical cases solving</li> </ul>

### Assessment Methods and Grade Distribution

Assessment Methods	Grade	Assessment Time (Week No.)	Course Outcomes to be Assessed
Midterm Exam	% 30	7 <sup>th</sup> week	K1-K2 S1-S2
*Reports and Projects	% 30	Continuous	K1-K2 S1-S2
Final Exam	% 40	16 <sup>th</sup> week	K1-K2 S1-S2
Total	%100		

\* Include: quizzes, in-class and out of class assignment, presentations, reports, videotaped assignment, group or individual project.

### Alignment of Course Outcomes with Learning and Assessment Methods

Number	Learning Outcomes	Corresponding Competencies	Learning Method*	Assessment Method**
<b>Knowledge</b>				
<b>K1</b>	<ul style="list-style-type: none"> <li>Classify the Major groups of cardiovascular drugs, and identify the drugs which are used for angina pectoris, heart failure and cardiac arrhythmia, Anticancer agent, drugs used in gout and nonsteroidal antiinflammatory drug</li> <li>Identify pharmacokinetics and pharmacodynamics of drugs, indication and, clinical uses, side effects and contraindication.</li> </ul>	C1	Lecture	Exams
<b>K2</b>	<ul style="list-style-type: none"> <li>Build knowledge on routs of drug administration, effects of</li> </ul>	C2	Lecture	Exams

	<p>drug on pregnant and lactating women.</p> <ul style="list-style-type: none"> <li>Recognize the drug - drug interaction and drug - food interaction and prevent adverse drug reactions on the body.</li> </ul>			
<b>Skills</b>				
<b>S1</b>	<ul style="list-style-type: none"> <li>Optimize the safety and efficacy of medication use</li> <li>Prediction the clinical uses, side effects by knowing the pharmacokinetic &amp; pharmacodynamics of drug</li> </ul>	C8, C10	Lecture	Exams
<b>S2</b>	Understanding drug information main points which will enable a productive interaction with patients and proper counseling for them	C9	Lecture	Exams

\*Include: lecture, flipped class, project based learning, problem solving based learning, collaboration learning.

\*\* Include: quizzes, in-class and out of class assignments, presentations, reports, videotaped assignments, group or individual projects.

### Course Polices

Policy	Policy Requirements
<b>Passing Grade</b>	The minimum pass for the course is (50%) and the minimum final mark is (35%).
<b>Missing Exams</b>	<ul style="list-style-type: none"> <li>Anyone absent from a declared semester exam without a sick or compulsive excuse accepted by the dean of the college that proposes the course, a zero mark shall be placed on that exam and calculated in his final mark.</li> <li>Anyone absent from a declared semester exam with a sick or compulsive excuse accepted by the dean of the college that proposes the course must submit proof of his excuse within a week from the date of the excuse's disappearance, and in this case, the subject teacher must hold a compensation exam for the student.</li> <li>Anyone absent from a final exam with a sick excuse or a compulsive excuse accepted by the dean of the college that proposes the material must submit proof of his excuse within three days from the date of holding that exam.</li> </ul>
<b>Attendance</b>	The student is not allowed to be absent more than (15%) of the total hours prescribed for the course, which equates to six lecture days (n t) and seven lectures (days). If the student misses more than (15%) of the total hours prescribed for the course without a satisfactory or compulsive excuse accepted by the dean of the faculty, he is prohibited from taking the final exam and his result in that subject is considered (zero), but if the absence is due to illness or a compulsive excuse accepted by the dean of the college that The article is introduced, it is considered withdrawn from that article, and the provisions of withdrawal shall apply to it.
<b>Academic Integrity</b>	Philadelphia University pays special attention to the issue of academic integrity, and the penalties stipulated in the university's instructions are applied to those who are proven to have committed an act that violates academic integrity, such as cheating, plagiarism (academic theft), collusion, intellectual property rights.

**Program Learning Outcomes to be Assessed in this Course**

<b>Number</b>	<b>Learning Outcome</b>	<b>Course Title</b>	<b>Assessment Method</b>	<b>Targeted Performance level</b>

**Description of Program learning Outcomes Assessment Method**

<b>Number</b>	<b>Detailed Description of Assessment</b>

**Assessment Rubric of the Program Learning Outcomes**

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