



Department	Pharmacy
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<b>Course Name</b>	Pharmacology Lab	<b>Course No.</b>	201432
Prerequisite	Pathophysiology Lab	Credit Hours	1
Number & date of course plan approval	2013	Brief Description	See form QF02/0409

<b>Intended Learning Outcomes</b>	<p>Upon completion of the course, the student is expected to be able to:</p> <ol style="list-style-type: none"> <li>1) Understands the principles of handling and dealing with different species of animals. As well as how to perform the pharmacological experiments using different pharmacological techniques.</li> <li>2) At the same time the students should be able to understand the principles of action, clinical uses, drug-drug interactions, adverse effects of selected drugs.</li> <li>3) The students should be able to do literature review and write and present seminars in selected topics.</li> </ol>		
<b>Course Topics</b>	<p>This course provides students with</p> <ol style="list-style-type: none"> <li>1. the practical knowledge of groups of drugs and their pharmacological properties</li> <li>2. By using different species of animals and different pharmacological techniques.</li> <li>3. As well as the practical knowledge of the mechanism of action,</li> <li>4. pharmacodynamics, pharmacokinetics.</li> <li>5. In addition this course covers selected topics in pharmacology to be presented as seminars by the students.</li> </ol>		
<b>Text Books</b>	Manual of practical pharmacology		
<b>References</b>	<ul style="list-style-type: none"> <li>- Lippincott's illustrated reviews; 4<sup>th</sup> edition; 2009.</li> <li>- Modern pharmacology with clinical applications 6<sup>th</sup> edition (2004)</li> <li>- Goths medical pharmacology (13<sup>th</sup> edition)</li> </ul>		
<b>Grade Determination</b>	<input type="checkbox"/> 1 <sup>st</sup> Exam = 25% <input type="checkbox"/> 2 <sup>nd</sup> Exam = 25% <input type="checkbox"/> Final Exam = 50%	<input type="checkbox"/> Practical Course Grade Determination	<input type="checkbox"/> Course Work = 50% <input type="checkbox"/> (Reports, Term Papers, Quizes) <input type="checkbox"/> Final Exam = 50%



### Course Outline

Week	Hours	Subjects	Chapters in Textbook	Notes
1		- Introduction	Chapter 1	
2		- Handling of animals	Chapter 1	
3		- Dose-response relationship	Chapter 7	
4		- Effect of agonist and antagonist on rabbit duodenum	Chapter 8&13	
5		- Effects of autonomic drugs on rabbit eyes	Chapter 26	
6		- Biological assay (effects of neuromuscular blocking agents)	Chapter 15	
7		- Effect of smoking on the cardiovascular system	Chapter 19	
8		- Testing analgesics	Chapter 25	
9		- General anesthesia	Chapter 23	
10		- Seminars in selected topics		
11		- Seminars in selected topics		
12		- Insulin hypoglycemic shock	Chapter 29	
13		- Peptic ulcer	Chapter 5	
14		- Anti-anxiety drugs	Chapter 8	
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16				

Approved by Dept. Chair

Date of Approval

**Extra Information:** (Updated every semester and filled by course instructor)

<b>Course Instructor</b>	
<b>Office No.</b>	
<b>Extension Email</b>	
<b>Office hours</b>	