

## Template for Course Plan (Applied pharmacology)

### II. Course Description:

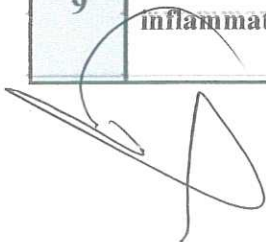
This course is designed to provide the students with the principles of pharmacology with a special emphasis on the treatment of patients in emergency condition. It will give an overview of pharmacology, including drugs that affect the gastrointestinal system, eye and ear, neoplastic diseases, reproductive, endocrine, immunologic and infectious disease and inflammation, anti-inflammatory & nonsteroidal anti-inflammatory drugs.

### IV. Course Contents:

#### A. Theoretical Aspect:

No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours
1	Drugs that affect the gastrointestinal system	<ul style="list-style-type: none"> <li>▪ <b>Drugs that affect the stomach</b> <ul style="list-style-type: none"> <li>○ Antacids</li> <li>○ Antiflatulents</li> <li>○ Digestants</li> <li>○ Emetics and antiemetics</li> <li>○ Proton pump inhibitors</li> <li>○ Cytoprotective agents</li> <li>○ H<sub>2</sub>-receptor antagonists</li> <li>○ Proton pump inhibitors</li> </ul> </li> <li>▪ <b>Drugs that affect the lower gastrointestinal tract</b> <ul style="list-style-type: none"> <li>○ Laxatives</li> <li>– Antidiarrheal drugs</li> </ul> </li> </ul>	2	4
2	Drugs that affect the eye and ear	<ul style="list-style-type: none"> <li>▪ <b>Drugs that affect the eye</b> <ul style="list-style-type: none"> <li>○ Antiglaucoma agents</li> <li>○ Mydriatic and cycloplegic agents</li> <li>○ Anti-infective/anti-inflammatory agents</li> <li>○ Topical anesthetic agents</li> </ul> </li> <li>▪ <b>drugs that affect the ear</b></li> </ul>	2	4
3	Drugs that affect the	<b>Drugs that affect the endocrine</b>	2	4

	endocrine system	<p><b>system</b></p> <ul style="list-style-type: none"> <li>▪ Drugs that affect the <b>pituitary gland</b></li> <li>▪ Drugs that affect the <b>thyroid and parathyroid glands</b></li> <li>▪ Drugs that affect the <b>adrenal cortex</b></li> <li>▪ Drugs that affect the <b>pancreas</b></li> <li>▪ Hormones of the pancreas</li> </ul>		
4	Midterm exam	– <b>Midterm exam</b>	1	2
5	Drugs that affect the reproductive system	<ul style="list-style-type: none"> <li>▪ The <b>female reproductive system</b> <ul style="list-style-type: none"> <li>○ Female sex hormones</li> <li>○ Oral contraceptives</li> <li>○ Ovulatory stimulants and infertility drugs</li> </ul> </li> <li>▪ The <b>male reproductive system</b></li> <li>▪ Drugs that affect sexual behavior                             <ul style="list-style-type: none"> <li>○ Drugs that impair libido and sexual gratification</li> <li>○ Drugs that enhance libido and sexual gratification</li> </ul> </li> </ul>	2	4
6	Drugs used in neoplastic diseases	– Antineoplastic agents	1	2
7	Drugs used in infectious disease	<ul style="list-style-type: none"> <li>▪ <b>Antibiotics</b> <ul style="list-style-type: none"> <li>○ Penicillins</li> <li>○ Cephalosporins</li> <li>○ Macrolide antibiotics</li> <li>○ Tetracyclines</li> <li>○ Fluoroquinolones</li> </ul> </li> <li>▪ <b>Antifungal and antiviral drugs</b> <ul style="list-style-type: none"> <li>○ Antifungal drugs</li> <li>○ Antiviral drugs</li> <li>○ Protease inhibitors</li> </ul> </li> <li>▪ <b>Other antimicrobial drugs and antiparasitic drugs</b></li> </ul>	3	6
8	Mid-Term Theoretical Exam		1	2
9	Anti-inflammatory & nonsteroidal anti-inflammatory drugs	<ul style="list-style-type: none"> <li>▪ <b>Anti-inflammatory &amp; nonsteroidal anti-inflammatory drugs</b> <ul style="list-style-type: none"> <li>○ Inflammation</li> </ul> </li> </ul>	1	2




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		<ul style="list-style-type: none"><li>○ Analgesic-antipyretic drugs</li><li>– Nonsteroidal anti-inflammatory drugs</li></ul>		
10	Drugs that affect the immunologic system	<ul style="list-style-type: none"><li>▪ Drugs used to treat the immune system<ul style="list-style-type: none"><li>○ Immunosuppressants</li><li>○ Immunomodulating agents</li></ul></li><li>– Serums and vaccines</li></ul>	1	2
11	<b>Final exam</b>	Final theoretical written exam	1	2
12	<b>Final Theoretical Exam</b>			
<b>Number of Weeks /and Units Per Semester</b>			<b>16</b>	<b>32</b>

