

Course Title	Drugs and Disease				
Course Code	BMS423				
Course Type	Compulsory				
Level	Bachelor (1st Cycle)				
Year / Semester	4 th Year / 8 th Semester				
Teacher's Name	TBA				
ECTS	5	Lectures / week	3 Hours	Laboratories / week	None
Course Purpose and Objectives	<p>The main objective of the course is to familiarize students with the pathophysiology of a number of common conditions, including Autonomic and Central nervous diseases and accompanied complications.</p> <p>Specifically diseases to be studied will include heart failure, hypertension, angina, arrhythmias, Parkinson disease, epilepsy, schizophrenia, depression, autoimmune diseases (asthma, rheumatoid arthritis), renal diseases, endocrine diseases, diabetes, osteoporosis etc and understand the basis and pathophysiology of each of these conditions.</p> <p>In an attempt to understand the underlying factors causing the disease and the changes that occur, the role of a number of receptors including adrenergic, dopaminergic, or other relevant receptors, ion channels (Ca⁺, Na⁺, K⁺, Cl⁻) on the normal physiology and homeostasis of organs will be examined in each case.</p> <p>By examining the pathophysiology of each condition appropriate drug therapy will be suggested and considered, and each drug therapy will be discussed from the perspective of altering the pathophysiology to treat or alleviate the symptoms for each disease. Each drug will be examined at the level of modulating receptors or enzymes (inhibiting or activating) that result in therapeutic response.</p> <p>Ultimately, the rationale behind the proper use of drugs will be examined for each disease, aiming at a better understanding of how each drug modulates the cell-organ physiology to bring about a therapeutic effect.</p>				
Learning Outcomes	<p>Upon successful completion of the course, students should be able to:</p> <ul style="list-style-type: none"> describe the pathophysiological basis of common disease conditions at the molecular, cellular and organ level 				

	<ul style="list-style-type: none"> describe the pathophysiology of Autonomic, Central Nervous diseases, Autoimmune and endocrine diseases describe the physiological function of cells and organs, and the main changes that result in disease conditions/states described recall the pharmacological intervention based on the pathophysiology of the disease explain and understand the pharmacological basis of therapeutics for common conditions discuss a disease state, critically evaluate the condition and understand the rationale behind a prescribed pharmacotherapy. 												
Prerequisites	BMS414	Co-requisites	None										
Course Content	<p>The course encompasses the following:</p> <ul style="list-style-type: none"> pathophysiology of common conditions such as Autonomic and Central nervous diseases, heart failure, hypertension, angina, arrhythmias, Parkinson disease, epilepsy, schizophrenia, depression, autoimmune diseases (asthma, rheumatoid arthritis), renal diseases, endocrine diseases, diabetes, osteoporosis etc role of adrenergic, dopaminergic, or other relevant receptors, ion channels (Ca⁺, Na⁺, K⁺, Cl⁻) on the normal physiology and homeostasis of organs in each case suggested drug therapies and their effect in altering the pathophysiology to treat or alleviate the symptoms for each disease. modulating receptors or enzymes (inhibiting or activating) 												
Teaching Methodology	Face- to- face												
Bibliography	Principles of Pharmacology: The pathophysiological Basis of Drug Therapy. David E. Golan , et al 3 rd /4 th Edition												
Assessment	<table border="1"> <tr> <td>Mid – Term Examination</td> <td>30%</td> </tr> <tr> <td>Final Examination</td> <td>40%</td> </tr> <tr> <td>Assignments</td> <td>20%</td> </tr> <tr> <td>Class Participation</td> <td>10%</td> </tr> <tr> <td></td> <td>100%</td> </tr> </table>			Mid – Term Examination	30%	Final Examination	40%	Assignments	20%	Class Participation	10%		100%
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Language	English												