

Course Title	Pathophysiology II				
Course Code	MED306				
Course Type	Compulsory				
Level	Doctor of Medicine (MD)				
Year / Semester	3 rd year/ 2 nd semester				
Teacher's Name	TBA				
ECTS	6	Lectures / week	3 hrs	Laboratories / week	3 hrs
Course Purpose and Objectives	<p>The course is intended to familiarize the students with the basic pathophysiological derangements leading to different symptoms and signs. The objective of this course is to enhance the students' knowledge regarding the detailed pathophysiological mechanisms of disease. The course aims at allowing students to progress to more advanced medical courses such as Internal Medicine and the various medical specialties. The objective of the course is to familiarize students with</p> <p style="padding-left: 40px;">The pathogenesis of diseases of the different bodily systems, with consideration of possible mechanisms and underlying metabolic derangements, and their manifestation of</p> <ul style="list-style-type: none"> ○ Circulatory System, ○ Respiratory System, ○ Endocrine and genital pathophysiology, ○ Urinary Tract diseases 				
Learning Outcomes	<p>Upon successful completion of the course the students will be able to:</p> <ul style="list-style-type: none"> • Describe the pathophysiology of glomerular diseases • Discuss the pathophysiology of glomerulopathies • Summarize the involvement of the kidney in other diseases (scleroderma, etc) • Describe the pathophysiology of Urinary tract infection • Describe the pathophysiology of acute and chronic tubulointerstitial nephritis • Describe the pathophysiological effects of hypertension on the kidney • Summarize the pathophysiology of renal calculi and nephrocalcinosis • Describe the drug induced impairment of renal function • Describe the pathophysiology of Acute kidney injury • Discuss the pathophysiology and the range of chronic kidney disease • Describe the pathophysiology of the diseases of the prostate gland • Summarize the pathophysiology of cardiac arrhythmias • Discuss the pathophysiology of heart failure (left and right) • Summarize the pathophysiology of coronary artery disease • Discuss the pathophysiological aftermath of valvular diseases • Describe the pathophysiology of endocarditis 				

	<ul style="list-style-type: none"> • Describe the basic pathophysiological events in certain congenital anomalies • Discuss the pathophysiology of pulmonary hypertension and pulmonary embolism • Summarize the pathophysiology of myocarditis and cardiomyopathies • Describe diseases of the pericardium • Discuss the pathophysiology of primary and secondary hypertension • Interpret all ECG pathologies • Describe the pathophysiology of vascular peripheral disease • Describe the diseases of the upper respiratory tract • Summarize the pathophysiology of bronchitis • Discuss chronic obstructive pulmonary disease • Summarize the pathophysiology of sleep apnea • Describe the pathophysiological mechanisms of cystic fibrosis • Summarize the pathophysiology of asthma • Describe the pathophysiological aftermath of pneumonias and tuberculosis • Describe the different pathophysiologies of diffuse diseases of the lung parenchyma • Discuss the aetiology of endocrine disease • Describe the pathophysiology of pituitary and hypothalamic disease • Summarize the pathophysiology of abnormal stature, acromegaly dwarfism and gigantism • Summarize the diseases of the thyroid • Discuss the endocrine pathophysiology in males and females • Describe the most common pathophysiologies of the genital system in males and females • Discuss the pathophysiology of the adrenal axis • Describe disorders of calcium metabolism • Discuss multiple endocrine neoplasias 		
Prerequisites	None	Co-requisites	None
Course Content	<p>In this regard the students will be familiar with the pathophysiology of:</p> <ul style="list-style-type: none"> ○ Circulatory System, ○ Respiratory System, ○ Endocrine and genital pathophysiology, ○ Urinary Tract diseases 		
Teaching Methodology	Face-to-face		
Bibliography	Pathophysiology of Disease: An Introduction to Clinical Medicine 7/E by Gary D. Hammer; Stephen J. McPhee		

	100 Case Studies in Pathophysiology by Harold J Bruyere, Jr. και Pathophysiology : A Clinical Approach By Carie A. Braun , By Cindy M. Anderson		
Assessment	Mid-Term Examination	30%	
	Final Examination	40%	
	Clinical Problems	10%	
	Log books with reflection	10%	
	Class participation (team effort)	10%	
		100%	
Language	English		