Course Specifications

General Information

Course name	Pathphysiology 2
Course number	PHPT3207
Faculty	
Department	
Course type	Major Needs
Course level	3
Credit hours (theoretical)	2
Credit hours (practical)	0
Course Prerequisites	

Course Objectives

1 - The objectives of this course are intended to:

2 - 1. Provide the students with core knowledge about diseases processes affecting organ systems , with an emphasis on understanding mechanisms involved in the development of diseases involved in this course.

3 - 2. Provide the students with an appropriate background about etiology, pathogenesis, and pathologic manifestations of diseases involved in this course.

4 - 3. Provide the students with the clinical bases of diseases involved in this course (including explanation of signs and symptoms, and understand the role of histopathological investigation in diagnosis and management).

5 - 4. Provide the students with the knowledge about the complications of diseases involved in this course.

Intended Learning Outcomes

Knowledge and Understanding	* 1. Define and discuss the main disorder categories that may affect the organs and systems involved in this course, as well as the main mechanisms underlying these disorders (etiology, pathogenesis, and natural history). * 2. Describe the morphologic (gross and microscopic) changes occurring as a result of such diseases processes in various organs and systems. * 3. State the prognosis and prevention particularly of diseases of national importance. * 5. Determine the complications of each particular disease.
Intellectual Skills	* 1.Analyze in a professional manner a pathological state, or a pathological report. * 2. Solve pathological problems and pathological cases of clinical importance. * 3. Interpret a pathological data.
Professional Skills	* 1.Able to recognize diseases (etiology, manifestations, complications, etc.). * 2. Able to critically appraise evidence. * 3. Carry out the most appropriate cost-effective pathologic diagnostic procedures.
General Skill	* 1. Find, understand, analyze, evaluate, and synthesize information about the different diseases, particularly those of national importance. * 2. Make informed, rational, and responsible decisions about different issues related to the diseases. * 3. Communicate and discuss effectively with other members of the profession, doctors, patients, general populations, etc., about the diseases.

Course Contents

1 - 1. Pathophysiology of respiratory system. Alterations in respiratory function: infectious disorders, disorders of gas. exchange function.

2 - 2. Pathophysiology of renal system. Alterations in renal function: obstructive disorders, urinary tract infections, disorders of glomerular function, acute and chronic renal failure, alterations in bladder function.

3 - 3. Pathophysiology of the digestive system. Alterations in gastrointestinal function: disorders of the esophagus, disorders of the stomach, disorders of the small and large intestines. Alterations in hepatobilliary function: cholestasis, hepatitis, liver cirrhosis, pancreatitis.

4 - 4. Pathophysiology of the endocrine system. Alterations in pituitary, thyroid, parathyroid, and adrenal function: hypopituitarism, growth hormone disorders, thyroid hormone disorders, disorders of adrenal cortical function, diabetes mellitus.

5 - 5. Pathophysiology of the reproductive system. Alterations in male and female reproductive systems: disorders of the penis, scrotum, and testes, and the prostate, disorders of the vagina, disorders of the uterus, disorders of the ovaries. Sexually transmitted diseases.

Teaching and Learning Methods

1 - 1.Lectures, using Power point presentation software, when needed.

2 - 2.Class discussion and review of the important features of each topic through short informal writing assignments.

3 - 3.Case presentation of clinical experience.

4 - 4.Class discussion regarding recent information about diseases, especially of those of national importance, in the news and web pages.

5 - 5.Submitting and discussing a report about a disease of interest from an appropriate journal or text (alone or in group).

Students Assessment

Assessment Method	TIME	MARKS
1-First mid-term exam	6th-7th week	40
second mid-term exam	Not applied	----------
3-Attendance and discussion	during the term	5
4-homework and project report	during the term and end of the term	5
6-Final exam	end of the term	50

Books and References

Course note	Lecture notes in pathophysiology 2 prepared by the lecturer.
Essential books	Carol Mattson Porth. (2006). Essentials of pathophysiology. Concepts of altered health states, 2nd edition, Wolters Kluwer Business, Lippincott Williams and Wilkins.
Recommended books	Vinay Kumar, Abul K.Abbas, John C. Aster. (2012). Robbins Basic Pathology, 9th edition, Elsevier, Medipicture.com.
Other References (Periodical, web sites, ... etc.)	Selected articles from official Pathophysiology journals, when available. Official websites of WHO, FDA, etc.

Knowledge and Skills Matrix

Main Course Contents	Study Week	Knowledge and Understanding	Intellectual Skills	Professional Skills	General Skill
1. Pathophysiology of respiratory system. Alterations in respiratory function: infectious disorders, disorders of gas. exchange function.					
2. Pathophysiology of renal system. Alterations in renal function: obstructive disorders, urinary tract infections, disorders of glomerular function, alterations in bladder function.					
Pathophysiology of the digestive system. Alterations in gastrointestinal function. Alterations in hepatobilliary funtion.					
4. Pathophysiology of the endocrine system. Alterations in pituitary, thyroid, and adrenal function. Diabetes mellitus.					
5. Pathophysiology of the male and female reproductive systems. Sexually transmitted diseases.					
	(1st-2nd weeks)				
	(3rd-5th weeks)				
	(6th-9th weeks)				
	(10th-12th weeks)				
	(13th -14th week).				
		1. Define and discuss the main disorder categories that may affect the organs and systems involved in this course, as well as the main mechanisms underlying these disorders.			

		2. Describe the morphologic (gross and microscopic) changes occurring as a result of such diseases processes in various organs and systems.			
		3. State the prognosis and prevention particularly of diseases of national importance.			
		4.Explain how diseases progress (outcomes).			
		5. Determine the complications of each particular disease.			
			1.Analyze in a professional manner a pathological state, or a pathological report.		
			2. Solve pathological problems and pathological cases of clinical importance.		
			3. Interpret a pathological data.		
				1.Able to recognize diseases (etiology, manifestations, complications, etc.).	
				2. Able to critically appraise evidence.	
				3. Carry out the most appropriate cost-effective pathologic diagnostic procedures.	

					1. Find, understand, analyze, evaluate, and synthesize information about the different diseases, particularly those of national importance.
					2. Make informed, rational, and responsible decisions about different issues related to the diseases.
					3. Communicate and discuss effectively with other members of the profession, doctors, patients, general populations, etc., about the diseases.