

Planning and Quality Assurance Affairs

Form (A)

Course Specifications

General Information

Course name	Pathphysiology 1
Course number	PHPT3204
Faculty	
Department	
Course type	Major Needs
Course level	3
Credit hours (theoretical)	2
Credit hours (practical)	0
Course Prerequisites	

Course Objectives

- 1 - To introduce the students to the science of pathophysiology and how it relates to other important medical sciences as pharmacology and therapeutics
- 2 - To explore the abnormal functioning of the diseased organs and how this applies to medical treatment and patient care

Intended Learning Outcomes

Knowledge and Understanding	<ul style="list-style-type: none">* To understand the concept of "health" and "disease" and sciences related to them* To be aware of the terminology related to the different aspects of disease* To understand the concepts of "adaptation" and "injury", the different mechanisms underlying them, and the differences between these two processes in their relation to the development of disease* To understand the immune system and how it functions in health and disease* To understand inflammation and healing* To get an in-depth understanding of the process of carcinogenesis, and how cancer is presented, diagnosed and treated* To get an in-depth understanding of the major diseases related to the cardiovascular system
Intellectual Skills	<ul style="list-style-type: none">* To be able to conclude what clinical manifestations are expected from a certain disease process* To be able to predict what disease is affecting a certain patient based on clinical and laboratory data* To understand the rationale behind the use of different treatment options for different diseases
Professional Skills	<ul style="list-style-type: none">* To form a scientific background that can help students understand courses related more directly to the profession of pharmacy, such as pharmacology and therapeutics, which can improve their future capabilities in caring with their patients
General Skill	<ul style="list-style-type: none">* Problem-solving skills* Presentation skills

Course Contents

1 - Introduction to pathophysiology
2 - Tissue adaptation and injury
3 - Neoplasia
4 - Immunity and the immune system
5 - Inflammation, tissue repair and wound healing
6 - Allergic and hypersensitivity reactions
7 - Alteration in hemostasis and blood coagulation
8 - Alteration in blood pressure
9 - Alteration in cardiac function
10 - Heart failure and circulatory shock

Teaching and Learning Methods

1 - Lecture
2 - Case studies
3 - Discussions

Students Assessment

<u>Assessment Method</u>	<u>TIME</u>	<u>MARKS</u>
Midterm Exam	7th week	40
Assignment	submitted before the final examination period	10
Final Exam	During the final examination period	50

Books and References

Essential books	Essentials of pathophysiology, 4th edition. By: Carol Mattson Porth. Walters Kluwer 2015
Recommended books	Pathology and therapeutics for pharmacists: a basis for clinical pharmacy practice, 3rd edition. By: Russell J Greene and Norman D Harris. Pharmaceutical Press. 2008