



Course Specifications

Course name : Patho physiology Second Stage / Second Semester

Credit Hours (4) Course Calendar: Total (2) hours Weekly.

Teacher name Msc. Zahraa A. Althabet

<p>Course Description: This course is designed to provide the nursing students with a comprehensive knowledge of the basic concepts and principles in path physiology including cell injury, etiology of cell injury, stress-adaptation and coping, inflammation and immunity, neoplasia, lymphoproliferative disorders, infectious processes. The course also focuses on physiological alternations associated with various pathological conditions such as alterations in oxygen transport, homeostasis-blood flow-blood pressure and cardiac function, heart failure, and alteration in respiratory function.</p>	<p>Course Goals: At the end of the course the student will be able to: Understand concepts related to path physiology (complex nature of disease) Recognize types of stressors, injuries and infectious agent. Understand the mechanism of disease (mechanism of body response) which includes: Stress, Inflammation and Neoplasia. Identify disorders related to major human body functions.</p>										
<p>Teaching/Learning Strategies: Lecture and Group Discussion.</p>	<p>Learning Resources: Overhead Projector and Posters.</p>										
<table border="0"> <tr> <td>1st theory exam</td> <td>25 %</td> </tr> <tr> <td>2nd theory exam</td> <td>25 %</td> </tr> <tr> <td>Final exam</td> <td>50%</td> </tr> <tr> <td colspan="2">-----</td> </tr> <tr> <td>Total</td> <td>100 %</td> </tr> </table>	1st theory exam	25 %	2nd theory exam	25 %	Final exam	50%	-----		Total	100 %	<p>References. Copstead, L.E.C., Perspective on Pathophysiology, Philadelphia, W.B.Saunders company, 1995. McCance, K.L.,and S.E. Huether, Pathophysiology, 3rd ed., London, Mosby, 1998. Porth, C.M., Pathophysiology, 5th ed., New York, Lippincott, 1998. Price, S.A. and L.M. Wilson, Pathophysiology. 6th ed., London, Mosby, 1997.</p>
1st theory exam	25 %										
2nd theory exam	25 %										
Final exam	50%										

Total	100 %										

List of contents:

Week number	Main Contents	Expected Date/
1.	Unit 1: Introduction and Definitions Etiology classification. Pathogenesis. Clinical manifestation. Implication for treatment	(2) hrs.
2.	Unit 2: Cell injury Reversible cell injury. Adaptation. Irreversible cell injury.	(2) hrs.
3.	Unit 3: Etiology of cellular injury Hypoxic injury. Nutritional injury. Infectious injury. Chemical injury. Physical injury. Cellular injury.	(4) hrs.
4.	Unit 4: Stress, adaptation and coping Definitions. General adaptation syndrome. Local adaptation syndrome. Coping.	(4) hrs.
5.	Unit 5: Inflammation and immunity. Definitions. Component of immune system. Non specific immunity of immune system. Inflammatory process. Inflammatory responses. Specific immunity. Change in the immune system during aging. Disorder of immune system	(4) hrs.
6.	Unit 6: Neoplasia Definitions. Principles of cancer biology. Cancer host interaction. Cancer therapy. Cancer risk factors.	(4) hrs.
7.	Unit 7: Lymphoproliferative disorders	(6) hrs.

	Leukemia. Hodgkin's disease. Non Hodgkin's disease. Multiple myeloma.	
8.	Unit 8: Infectious processes Definitions. Types of microorganisms. Host-parasite relationship. Manifestation of infection. Host factors that decrease resistant of infection.	(4) hrs.
9.	Unit 9: Alternation in oxygen transport, alternation in Homeostasis-blood flow- blood pressure Alteration in oxygen transport. Gas transport and acid-base balance. Anemia. Polycythemia.	(6) hrs.
10.	Unit 10: Alteration in homeostasis and blood coagulation Process of homeostasis. Evaluation of homeostasis and coagulation. Disorders of homeostasis.	(4) hrs.
11.	Unit 11: Alteration of blood flow Control of flow. Altered flow-general mechanisms. Alternation in arterial flow. Alternation in venous flow. Alternation in lymphatic flow.	(4) hrs.
12.	Unit 12: Alteration in blood pressure Functions of arterial and pulmonary systems. Measurement of arterial blood pressure. Hypertension. Orthostatic hypotension.	(4) hrs.
13.	Unit 13: Alteration in cardiac function Coronary circulation. Cardiac electrophysiology. Electrocardiograph. Endocrine function of the heart. Test of cardiac function. Ischemic heart disease. Myocardial disease.	(4) hrs.
14.	Unit 14: Heart failure and dysrhythmias Heart failure.	(4) hrs.

	Cardiac dysrhythmias.	
15.	<p>Unit 15: Alteration in respiratory function</p> <p>Obstructive pulmonary disorders.</p> <p>Restrictive pulmonary disorders.</p> <p>Ventilation and respiratory failure.</p> <p>Other respiratory disorders.</p> <p>Unit 16:</p> <p>Alteration in gastrointestinal function</p> <p>Manifestations of gastrointestinal tract disorders.</p> <p>Alteration in integrity of the gastrointestinal tract wall.</p> <p>Alteration in motility of the gastrointestinal tract.</p> <p>Other respiratory disorders.</p>	(4) hrs.

