

## Planning and Quality Assurance Affairs

Form (A)

### Course Specifications

#### General Information

Course name	Pathology
Course number	NURS2314
Faculty	
Department	
Course type	Major Needs
Course level	2
Credit hours (theoretical)	3
Credit hours (practical)	0
Course Prerequisites	

#### Course Objectives

- 1 - Demonstrate understanding of the normal anatomy and physiology of human
2. Discuss the pathophysiological mechanisms that are essential to disease processes.
3. Interpret health history and clinical manifestations of illnesses in terms of their etiology and pathogenesis.
4. Distinguish between inflammatory and pathologic changes
5. Analyze the body's reaction to injury.
6. Integrate knowledge of pathophysiology to the rational for therapeutic regimens.
7. Utilize principle of pathophysiology to promote and maintain an improved health status of the individual.

#### Course Contents

- 1 - Course Outline 1. Introduction: (Etiology, Prognosis, Complications, Pathological examination 2. Body's Reaction to Injury a. Inflammation: (Types, Acute inflammation, Mechanism and pathology, Varieties of acute inflammation, Chronic Inflammation; pathology, types) b. Repair: (Regeneration and types of cells, Regeneration of labile cells, Repair of stable cells, Repair of permanent cells, Fibrosis Healing of skin wounds: • Types : Primary and Secondary • Mechanism • Complications • Other examples of healing 3. Degeneration and disturbances of Metabolism: • Types • Hyaline changes • Mucinous myxoatous changes • Amyloidosis 4. Other disturbances of metabolism: • Gout: Causes, types, C.P., pathology • Lipids: Causes, sites • Pathological Calcification • Pathological pigmentation 5. Necrosis 6. Circulatory Disturbances (a) Thrombosis causes and classification, Sites, fats and complication (b) Embolism: Types, sources and effects (c) Ischemia: Causes, types and results (d) Infarctions: General features, types and fats (e) Gangrene: Types, causes, sites and prognosis (f) Hemorrhage: Causes, classification, results (g) Edema: Causes and types (h) Shock: Causes and types 7. Immunology • Infection: Types, effects, fats and spread • Micro-organisms in the blood: Bacteremia, Septicemia, Pyaemia • The immune response: Antigens or allergens • Auto-immune disease: Causes and pathology, examples 8. Cancer • Malignant Tumors, spread of • Benign Epithelial Tumors 9. Pathology of Growth • Congenital Anomalies • Disturbances of growth 10. Tumors Malignant and Benign: (Characteristics, Complications, and Prognosis)

#### Teaching and Learning Methods

- 1 - 1. Lectures 2. Discussion 3. Assignments and presentations 4. Demonstration

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**Students Assessment**

<u>Assessment Method</u>	<u>TIME</u>	<u>MARKS</u>
1. Participation, Assignment, AND Quizzes 30% 2. Mid-term Exam 30% 3. Final Exam 40% 100%		

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**Books and References**

Course note	Porth, C. M. (2016). Essentials of Pathophysiology: Concepts of Altered Health States 5 ed.). Wolters Kluwer Health / Lippincott Williams& Wilkins. Kipp, B. & Kirk, J. (2014). Study Guide to Accompany Pathophysiology: Concepts of Altered Health States (10 th ed.). Lippincott. Williams and Wilkins.
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