

## Course Specification Student Version

<b>Course Title:</b>	Principles of Disease II
<b>Course Code:</b>	PDT 204
<b>Department:</b>	Basic Medical Sciences
<b>Program:</b>	Bachelor of Medicine and Surgery
<b>College:</b>	Vision College in Riyadh
<b>Institution:</b>	Vision College in Riyadh
<b>Revised:</b>	July 2025



## A. Course Identification

1. Credit hours: 4 (2+1+1)
2. Level/year at which this course is offered: Level 4/Year 2
3. Pre-requisites for this course (if any): Human body I (HBO 203)
4. Co-requisites for this course (if any): None

## B. Teaching Methods

1	Lectures
2	Laboratory
3	Problem-Based Learning (PBL)

## C. Course Description and Objectives

### 1. Course Description

This course is designated to provide students with knowledge concerning the pathological basis of disease, the methods of pathological examination, and advanced practice in pathology and pathologic research. In addition, it is committed to make students aware of the definition, etiologic factors, pathogenetic mechanisms, the gross and the microscopic pictures of various human diseases including forms of cell injury, inflammatory processes, tissue repair, hemodynamic and circulatory disturbances and morphologic effects of infectious agents on human tissues. It also covers the study of benign and malignant tumors, focusing on the basic molecular, morphologic and biologic properties of these two types of tumors. The interactions of the tumor with the host and the host response to tumors will be studied as well as mechanisms of angiogenesis, invasion and metastasis and diagnosis of neoplasms. Developmental and pediatric disorders and their genetic and etiologic basis are also addressed.

This integrated course links histopathology with the clinical basic knowledge of specific organ diseases including the signs, symptoms, diagnostic modalities and possible fate and complications. Moreover, it supplies the students with the basic information in the field of laboratory medicine as a step in preparing the student for his clinical rounds of other medical subjects (e.g. surgery; medicine; pediatrics; gynecology etc.) and future as a practitioner.

### 2. Course Main Objective

The main purpose of this course is to provide the students with comprehensive information about the different pathological basis of diseases of the human body and the methods of pathological examination.

### 3. Course Objectives

**By the end of this course, students should be able to:**

- Explain the pathogenesis of various diseases such as genetic, developmental, behavioral, ischemic, metabolic, toxic, infectious, autoimmune, neoplastic, degenerative, and traumatic factors, and the ways in which they affect the body

- Explain the facts and concepts relevant to common clinical conditions including their epidemiology, etiology, pathophysiology, symptoms and signs, complications, investigations, management and prognosis
- Demonstrate knowledge of the human life cycle and its' effect on a human body's normal structure and function (such as pregnancy, birth, growth and development, and aging)
- Describe and explain the basic aspects of common clinical presentations
- Explain the principles of essential clinical investigations
- Critically analyzed clinical data obtained through history, physical examination, and investigation
- Communicate medical information appropriately, using verbal and writing skills (medical reports)
- Recognize and stress the rationale and importance of teamwork

#### D. Course Content

No.	List of Topics	
1	Introduction to pathology	4
2	Cellular Responses to Stress	23
3	Inflammation, Repair, and Relation to infectious diseases	19
4	Neoplasia	22
5	Hemodynamic Disorders	15
6	Diseases of Infancy and Childhood	7

#### E. Assessment Tools

#	Assessment task	Percentage of Total Assessment Score
1	Problem-Based Learning (PBL) Evaluation	10%
2	Two quizzes	10% (each 5%)
3	Midterm Exam	20%
4	Practical exam	20%
5	Final term Written Exam	40%
	<b>Total</b>	<b>100%</b>

## F. Learning Resources

<b>Essential References</b>	Ralston S., Penman I., Strachan M., & Hobson R: Davidson's Principles and Practice of Medicine, latest edition., Elsevier
<b>Supportive References</b>	Kumar and Clark Clinical Medicine, latest ED., Elsevier. Feather A., Randall D., Waterhouse M. Paperback ISBN: 9780702078682 eBook ISBN: 9780702078705
<b>Electronic Materials</b>	<ol style="list-style-type: none"> <li>1. LMS resources</li> <li>2. <a href="https://www.Amboss.com">https://www.Amboss.com</a></li> <li>3. <a href="https://www.UpToDate.com">https://www.UpToDate.com</a></li> <li>4. <a href="https://www.PubMed.com">https://www.PubMed.com</a></li> <li>5. <a href="https://www.webmd.com">https://www.webmd.com</a></li> <li>6. <a href="https://www.emedicine.com">https://www.emedicine.com</a></li> <li>7. <a href="https://jamanetwork.com/journals/jamainternalmedicine">https://jamanetwork.com/journals/jamainternalmedicine</a></li> </ol>
<b>Other Learning Materials</b>	None