



Course Specification

(Bachelor)

Course Title **Principle of Pathology**

Course Code: **PHE26223**

Program: **Bachelor of Sciences in Public Health**

Department: **Public Health**

College: **Applied Medical Sciences**

Institution: **University of Bisha**

Version: **1**

Last Revision Date: **2-8-2023**





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A. General information about the course:

1. Course Identification

1. Credit hours:					
2 (2+0)					
2. Course type					
A.	<input type="checkbox"/> University	<input type="checkbox"/> College	<input checked="" type="checkbox"/> Department	<input type="checkbox"/> Track	<input type="checkbox"/> Others
B.	<input checked="" type="checkbox"/> Required		<input type="checkbox"/> Elective		
3. Level/year at which this course is offered: 4th level 2nd year					
4. Course general Description:					
<p>This course is designed to provide students with a comprehensive understanding of the fundamental concepts in pathology within the context of public health. This course will delve into the pathological processes underlying various diseases and their impact on population health. Through a combination of theoretical knowledge and practical application, students will explore the interactions between diseases, their causes, and their implications for public health interventions.</p>					
5. Pre-requirements for this course (if any):					
NA					
6. Co-requirements for this course (if any):					
NA					
7. Course Main Objective(s):					
<ul style="list-style-type: none"> • Develop a strong foundational understanding of pathology principles, focusing on disease development and progression mechanisms. • Explore disease etiology, including genetic, environmental, and lifestyle factors contributing to disease development. • Analyze cellular and molecular mechanisms underlying diseases, such as inflammation, cell damage, and tissue responses. • Examine the role of pathology within the context of public health, considering disease patterns, prevalence, and distribution across populations. • Assess the impact of diseases on population health, addressing morbidity, mortality, health disparities, and the development of preventive strategies 					

2. Teaching mode

No	Mode of instruction	Contact Hours	Percentage
1	Traditional classroom	26	86.6%





No	Mode of Instruction	Contact Hours	Percentage
2	E-learning	2	6.7%
3	Tutorial		
4	Interactive learning	2	6.7%
5	Practical		

3. Contact Hours

No	Activity	Contact Hours
1.	Lectures	26
2.	E-learning	2
3.	Practical	
4.	Interactive learning	2
5.	Seminars	
6.	Self-Learning	45
Total		75

B. Course Learning Outcomes (CLOs), Teaching Strategies and Assessment Methods

Code	Course Learning Outcomes	Code of CLOs aligned with program	Teaching Strategies	Assessment Methods
1.0	Knowledge and understanding			
1.1	Define terminologies, abbreviations and symbols used in histopathology	K1	Lecture, In-class discussion	Written exam, assignment. E-learning homework
1.2	Demonstrate knowledge of the basic concepts of diseases.	K2		
1.3	Outline the diseases causative agents.	K2		
1.4	Describe the basic principles and concepts of the disease development disease in Midwifery	K2		
2.0	Skills			
2.1	Perform general scheme for disease diagnosis.	S1	Lecture, TBL	Written exam, assignment. E-learning homework
2.2	Analyze medical data	S2		
2.3	Combine the basic information of clinical and anatomical pathology	S3		
3.0	Values, autonomy, and responsibility			





Code	Course Learning Outcomes	Code of CLOs aligned with program	Teaching Strategies	Assessment Methods
3.1	Apply professional ethics in dealing with patients and co-workers	V1	Lecture, In-class discussion	In-class evaluation
3.2	Communicate effectively in both written and oral form with patients as well to colleagues; make use of information and communication resources	V2		
3.3	Perform team work with medical and health professions	V2		

C. Course Content

No	List of Topics (Theory)	Contact Hours
1	Introduction to Principles of Pathology in Public Health	2
2	Cellular and Molecular Mechanisms of Disease	2
3	Genetic and Environmental Factors in Disease Etiology	2
4	Inflammation and Immune Responses in Pathology	2
5	Pathological Basis of Cardiovascular Diseases	2
6	Infectious Diseases: Pathology and Public Health Implications	2
7	Cancer Pathogenesis and its Impact on Public Health	2
8	Neurological Disorders: Pathological Insights and Public Health Challenges	2
9	Pathology of Respiratory and Gastrointestinal Diseases	2
10	Hematological Disorders: Understanding Blood-Related Pathologies	2
11	Endocrine and Metabolic Disorders: Implications for Public Health	2
12	Environmental Pathology and its Role in Public Health	2
13	Public Health Surveillance and Pathology: Tracking Disease Trends	2
14	Pathological Aspects of Global Health Issues	2
15	Applying Pathological Concepts to Public Health Interventions	2
Total		30

D. Students Assessment Activities

No	Assessment Activities *	Assessment timing (in week no)	Percentage of Total Assessment Score
1.	Quiz #1	3 rd	5%
2.	E-Learning activities 1, In class, In lab evaluation	4 th	5%
3.	Midterm Examination	8 th	25%
4.	Quiz #2	11 th	5%



No	Assessment Activities *	Assessment timing (in week no)	Percentage of Total Assessment Score
5.	E-Learning activities 2, In class, In lab evaluation	12 th	10%
6.	Final Examination	15 th	50%
	Total		100%

E. Learning Resources and Facilities

1. References and Learning Resources

Essential References	<p>1-Robbins & Cotran .Pathologic Basis of Disease . 9th Edition,(2020).</p> <p>2- Vinay Kumar, Abul Abbas, Jon Aster. Robbins Basic Pathology. 10th Edition,(2017)</p> <p>1. 3-Zneimer, S. Cytogenetic Abnormalities: Chromosomal, FISH, and Microarray-Based Clinical Reporting and Interpretation of Result. John Wiley & Sons, 2014.</p>
Supportive References	<p>1- Harsh Mohan. Practical Pathology .4th Edition,(2016)</p> <p>2- Kumar, Vinay, et al. Robbins and Cotran pathologic basis of disease. Elsevier Health Sciences, 2014</p> <p>3-Bhardwaj J.R. Boyd's Textbook of Pathology.10th Edition,(2013).</p>
Electronic Materials	<p>1- http://ajp.amjpathol.org/</p> <p>2-https://tissuepathology.com/</p> <p>3-https://www.nature.com/modpathol</p> <p>4-https://digitalpathologyassociation.org/</p> <p>5-https://www.medscape.com/pathology</p> <p>6-https://www.pathologyoutlines.com/</p> <p>7-Blackboard &Archives of Pathology & Laboratory Medicine</p>
Other Learning Materials	<p>1. Saudi digital library</p>

2. Required Facilities and equipment

Items	Resources
facilities	Middle-sized Classrooms,
Technology equipment	<ul style="list-style-type: none"> (AV, data show, Smart Board, software, etc.)
Other equipment	<ul style="list-style-type: none"> NA

F. Assessment of Course Quality

Assessment Areas/Issues	Assessor	Assessment Methods
Effectiveness of teaching	Students, Faculty, Quality committee	Direct / indirect - Using well-structured questionnaire
Effectiveness of student's assessment	Faculty members Peer Reviewer	Direct / indirect - Continuous reviewing and course portfolio





Assessment Areas/Issues	Assessor	Assessment Methods
Quality of learning resources	Faculty members Curriculum committee	Direct / indirect - Annual review course report
The extent to which CLOs have been achieved	Course coordinator	Direct / indirect

G. Specification Approval

COUNCIL /COMMITTEE	PH DEPARTMENT BOARD
REFERENCE NO.	
DATE	

