



Course Specification

— (Bachelor)

Course Title: **Pathology**

Course Code: **MLS26394**

Program: **Medical Physics**

Department: **Physics**

College: **Science**

Institution: **University of Bisha**

Version: **1**

Last Revision Date: 5 September 2023

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1. Course Identification

1. Credit hours: 2

2. Course type

A. University College Department Track Others

B. Required Elective

3. Level/year at which this course is offered: 5th Level / 3rd year

4. Course general Description

This course will introduce the concepts of injury and transformation from normal structure and function in the human body, as occurs in disease. The various pathological processes and their importance in the basis of human disease will be thoroughly studied.

5. Pre-requirements for this course (if

5. Pre-requirements for this course (if any):

NA

6. Co- requirements for this course (if any):

NA

7. Course Main Objective(s)

- Provide the students with general principles, terminology, diagnostic procedures, and basic concepts of pathology
- Provide students with general information about pathogens that infect tissues and cells, inflammation, and immune diseases.
- Apply a basic understanding of histopathology and morbid anatomy to the examination of microscopic sections and gross specimens, respectively, displaying pathological processes.
- Explain general principles, terminology, and modes of spread of disease

2. Teaching mode (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1.	Traditional classroom	25	83.3%
2.	E-learning	5	16.7%
3.	Hybrid <ul style="list-style-type: none"> • Traditional classroom • E-learning 		
4.	Distance learning		

3. Contact Hours (based on the academic semester)

No	Activity	Contact Hours
1.	Lectures	25





2.	Laboratory/Studio	
3.	Field	
4.	Tutorial	5
5.	Others (specify)	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	Demonstrate understanding of medical knowledge on pathology to identify the different illness.		Interactive lectures, Pre lecture assignments	Written test Oral test Electronic quiz & Quiz E-Individual Assignment Oral presentation-Group
1.2	Identify the sign and symptoms of various diseases and their important characteristic features.			
1,3	Recall the important histological features of various disease conditions.			
2.0	Skills			
2.1	Analyze findings of various diseases, Correlate interrelations between histologic, clinical features and diagnose them.		Interactive lectures, Pre lecture assignments	Written test Oral test Electronic quiz & Quiz E-Individual Assignment Oral presentation-Group
2.2	Explain the etiopathogenesis of diseases and correlate them with the clinical sign and		NCLEX questions	



Code	Course Learning Outcomes	Code of CLOs aligned with program	Teaching Strategies	Assessment Methods
	symptoms and different diagnostic tests			
2.3	Continuously evaluate the different tests according to changing needs and circumstances.			
2.4	Communicate professionally through using digital information and advanced communication technology with the health team members and patients			
3.0	Values, autonomy, and responsibility			
3.1	Take responsibility for lifelong learning, reflective practice and professional development related to pathology		Group Discussion Self-directed learning Team based learning	Oral presentation - Group Individual assignment
3.2	Committed to promote health and for patients and families regardless of age, gender, race, disability, creed or culture		Group Discussion Team based learning Self-directed learning	Oral presentation - Group Individual assignment

C. Course Content

No	List of Topics	Contact Hours
1.	Introduction to Pathology	2
2.	Cell injury, cell death, and adaptations	2
3.	Inflammation and repair	4





4.	Neoplasia	٤
	Genetics and pediatrics disorders	٢
	Environmental and nutritional diseases	2
7.	Hemodynamic disorders, thromboembolism, and shock	2
8.	Diseases of the immune system	2
9.	Diseases of Gastrointestinal system	2
10.	Disorders of male and female genital system	2
11.	Diseases of respiratory system	2
12.	Diseases of Urinary system	2
13.	Diseases of cardiovascular system	٢
Total		30

D. Students Assessment Activities

No	Assessment Activities *	Assessment timing (in week no)	Percentage of Total Assessment Score
1	Continuous assessment		30%
1.1	Electronic quiz	3 rd	10
1.2	Quiz	5 th	5
1.3	Individual assignment	9 th	5
1.4	Oral presentation - Group	11 th	5
1.5	Oral test	13 th	5
2	Mid exam (written test)	7 th	20%
3	Final exam (written test)	16 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>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>
Electronic Materials	<p>1- http://ajp.amjpathol.org/</p>





	2- https://tissuepathology.com/ 3- https://www.nature.com/modpathol 4- https://digitalpathologyassociation.org/ 5- https://www.medscape.com/pathology 6- https://www.pathologyoutlines.com/ 7-Blackboard & Archives of Pathology & Laboratory Medicine
Other Learning Materials	Saudi Digital library

2. Required Facilities and equipment

Items	Resources
Facilities	Classrooms, laboratories, exhibition rooms, simulation rooms, etc.
Technology equipment	Projector, smart board, software
Other equipment	NA

F. Assessment of Course Quality

Assessment Areas/Issues	Assessor	Assessment Methods
Effectiveness of teaching	Program Leaders Peer Reviewer Students Faculty Academic performance follows up committee. Students GPA	Direct / indirect Direct
Effectiveness of Students assessment	Program Leaders Peer Reviewer Students Faculty Academic performance follows up committee. Examination committee	Direct / indirect
Quality of learning resources	Program Leaders Peer Reviewer Students Faculty	



Assessment Areas/Issues	Assessor	Assessment Methods
	PLOs assessment committee	
The extent to which CLOs have been achieved	Program Leaders Peer Reviewer Students Faculty Academic performance follows up committee. Examination committee Students Results	Direct / Indirect
Other		

G. Specification Approval Data

COUNCIL /COMMITTEE	College of Science Council
REFERENCE NO.	1
DATE	5 September 2023

