

Specification for Pathology (B) course

2025/2026

1-Basic information

1	Course title	Pathology (B)							
2	Course code	PAT.323							
3	Department/s participating in delivery of the course	Pathology							
4	Number of hours	Theoretical	1	Practical	1(2)	Other	0	Total	2(3)
5	Course Type	√ Obligatory Elective							
6	Level	3 rd year							
7	Semester	Spring semester							
8	Academic program	Bachelor of Veterinary medicine (BVM)							
9	Faculty	Veterinary medicine							
10	University	Benha University							
11	Name of course coordinator	Prof. Dr. Aziza A. Amin							
12	Course Specification Approval Date	Faculty council/ 27-8-2025							
13	Course Specification Approval (Attach the decision/minutes of the department /committee/council)	Department council/ on 20/7/2025							

2-Course overview

- Course contents written in the program bylaw:

Pathology of disease affecting skin and its appendages ; the musculoskeletal system; the respiratory system; the cardio-vascular system; the hemic and lymphatic system; the digestive system/ The urinary system; the genital system; the nervous system and organs of special sense; pathology of important infectious and non- infectious disease of domestic animals.

3- Course Learning Outcomes CLOs

		(NARS) outcomes	Course outcomes	
		Code Text	Code Text	
Knowledge and understanding	2.7	Various causes of animal diseases, their pathogenesis, macro- and microscopic pathological lesions, and laboratory diagnosis	a1	Illustrate the basic information about systemic Pathology
			a2	Mention the causes and pathogenesis of common lesions in different tissues of body systems
	2.11	The most appropriate diagnosis and differential diagnosis of animals, poultry and fish diseases	a3	-Describe the basic knowledge of Postmortem and microscopic lesions. Define the significance and fate of different lesions in different body systems
			a4	Identify the Basic information about oncology including causes, macroscopic and microscopic features and fate of different types of neoplasm.
Intellectual skills	4.4	Proficiently secure diagnostic reasoning, develop problem lists and differential diagnosis in order to deductively and critically reach the most appropriate solution (s) and management of the addressed clinical problems.	b1	Differentiate between different types of neoplasm.
			b2	-Handling tissue specimens for histopathological examination. Use routine and special staining techniques of tissue sections.
	4.5	Remain committed to life – long learning and updating / upgrading their biochemical sense and clinical skills.	b3	- Determine the pathogenesis, macro- and microscopic lesions as well as the fate of different pathological changes in the body systems.
			b4	-Interpret the most important pathological changes in different tissues of the body
Practical skills	3.4	Perform clinical examination of diseased cases and collect relevant samples	c1	Prepare and handle the tissue specimens for histopathological examination.
	3.9	Conduct evidence-based	c2	Stain tissues with different stains

		problem-solving of field-presented problems tasks	c3	Differentiate between various neoplasms.
	3.13	Minimize the risk of contamination, cross infection and predisposing factors of diseases	c4	Examine different lesions types in different tissues of body systems and Differentiate between various lesions.
General skills	5.1	Work under pressure and / or contradictory conditions.	d1	Work under pressure during pathology lab session
	5.5	Search for new information and technology as well as adopt life-long self-learning ethics.	d2	Search for new information in field of pathology
	5.6	Utilize computer and internet skills.	d3	Utilize computer and internet skills, read paper via internet in field of pathology

4- Teaching and learning methods

Lectures	√	Discussion & seminar	√	Practical	√
Presentation & movies	√	Problem solving	√	Brain storming	√
Others					

- Course Schedule:

Week [W]	Topics					
		Theoretical	Laboratory [practical]	Selflearning(tasks-assignments-projects)	Others	Total
W1	Pathology of neoplasm 1	1	1(2)		0	2(3)
W2	Pathology of neoplasm 2	1	1(2)		0	2(3)
W3	Pathology of neoplasm 3	1	1(2)	Formative quiz	0	2(3)
W4	Pathology of	1	1(2)		0	2(3)

	digestive system 1					
W5	Pathology of digestive system 2	1	1(2)		0	2(3)
W6	Pathology of respiratory system 1	1	1(2)	Formative quiz	0	2(3)
W7	Semester work (one hour exam)	-	-		-	-
W8	Pathology of respiratory system 2	1	1(2)		0	2(3)
W9	Pathology of cardiovascular system 1	1	1(2)		0	2(3)
W10	Pathology of cardiovascular system 2	1	1(2)	Formative quiz	0	2(3)
W11	Pathology of urinary system 1	1	1(2)		0	2(3)
W12	Pathology of urinary system 2	1	1(2)		0	2(3)
W13	Pathology of male genital system 1	1	1(2)		0	2(3)
W14	Pathology of female genital system 1	1	1(2)	Formative quiz	0	2(3)

W15	Practical exam	-	-		-	-
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5- Methods of students' assessment

a- Assessment methods (summative and formative)

1. **Formative assessment:** including (weekly quizzes, homework assignments and surveys).
2. **Summative assessment** including (quizzes, class activities, semester work (one hour exam), practical exam, oral exams and final written exams).

b- Assessment schedule and weight

Assessment method	Assessment Timing (Week Number)	Marks/ Scores	Percent Percentage of total course Marks
Semester work including (one hour exam)	7 th week	10	10%
Formative assessment	Throughout the semester	-----	-----
Practical exam	15 th week	30	30%
oral exam	End of semester	10	10%
Written exam	End of semester	50	50%
Assignments / Project /Portfolio/ Logbook	-----	-----	-----
Field training	-----	-----	-----
Other (Mention)	-----	-----	-----
Total		100	100%

6- Learning resources and supportive facilities:

supportive facilities	Main reference	Student handbook: Syestemic Veterinary Pathology and Practical histopathology Edit by Staff members
	Essential	Jubb, Kennedy, and Palmer's (pathology of domestic animals) Sixth edition Vet. Pathology (General & Systemic pathology) RS Chauhau Int. Book second

	books (text books)	<p>edition 2007.</p> <p>Illustrated Vet. Pathology (General & Systemic pathology) RS Chauhan Int. Book second edition 2007. Baltimore New York London Buenos Aires Hong Kong Sydney Tokyo</p> <p><i>Junqueira, L. C. and Carneiro J. (2003):</i> Course note.</p> <p>• Genti A. Sastry (2010) veterinary pathology</p>
	Periodicals, Web sites, . . . etc	<ul style="list-style-type: none"> • www.IVIS.org. • www.ekb.eg <p>Journal of Veterinary Pathology.</p> <ul style="list-style-type: none"> • Cell tissue Research • http://www.vt.com
	Learning platform	Thinqi
Supportive facilities	Devices & instruments	<ol style="list-style-type: none"> 1. Data show 2. White board 3. Laboratory. 4. Tissue processing & staining 5. Microtome 6. microscope

Matrices:

A- Content and ILOs matrix:

Topic	ILOS			
	Knowledge and understanding	Intellectual skills	Professional and practical skills	General and transferable skills
Pathology of neoplasm	a3-a4	b1-b2	c1-c2-c3-c4	d1-d2-d3
Pathology of digestive system	a1-a2-a4	b3-b4	c1-c2-c3-c4	d1-d2-d3
Pathology of respiratory system	a1-a2-a4	b3-b4	c1-c2-c3-c4	d1-d2-d3
Pathology of cardiovascular system	a1-a2-a4	b3-b4	c1-c2-c3-c4	d1-d2-d3
Pathology of urinary system	a1-a2-a4	b3-b4	c1-c2-c3-c4	d1-d2-d3
Pathology of male genital system	a1-a2-a4	b3-b4	c1-c2-c3-c4	d1-d2-d3
Pathology of female genital system	a1-a2-a4	b3-b4	c1-c2-c3-c4	d1-d2-d3

B- Teaching and learning methods and ILOs matrix:

ILOs		Teaching and Learning method					
		L	P&M	D&S	P	Ps	Bs
Knowledge and understanding	a1	√	√	√	√	√	√
	a2	√	√	√	√	√	√
	a3	√	√	√	√	√	√
	a4	√	√	√	√	√	√
Intellectual skills	b1	√		√			
	b2	√		√			
	b3	√		√			
	b4	√		√			
Professional and practical skills	c1				√		√
	c2				√		√
	c3				√		√
	c4				√		√
General skills	d1						
	d2						√
	d3						√

L: Lecture, P&M: Presentations & Movies, D&S: Discussions & Seminars P: Practical Ps: Problem solving, Bs: Brain storming

C- Assessment methods and ILOs matrix:

ILOs		assessment method				
		Formative assessment	semester	Oral	practical	written
Knowledge and understanding	a1		√	√		√
	a2		√	√		√
	a3		√	√		√
	a4		√	√		√
Intellectual skills	b1	√	√	√		√
	b2	√	√	√		√
	b3	√	√	√		√
	b4	√	√	√		√
Professional and practical skills	c1				√	
	c2				√	
	c3				√	
	c4				√	
General skills	d1			√		
	d2			√		
	d3			√		

-Course coordinator:

Prof. Dr. Name: Aziza A. Amin

-Program coordinator: Prof. Dr. Mahmoud Abouelroos