

Specification for general pathology course

2025/2026

1-Basic information

Course title	General Pathology							
Course code	PAT.313							
Department/s participating in delivery of the course	Pathology							
Number of units/credit hours	Theoretical	1	Practical	1(2)	Other	0	Total	2(3)
Course Type	√ Obligatory				Elective			
Academic level at which the course is taught	3 rd year							
Semester	Fall semester							
Academic program	Bachelor of Veterinary medicine (BVM)							
Faculty	Veterinary medicine							
University	Benha University							
Name of course coordinator	Prof. Dr. Aziza A. Amin							
Course Specification Approval Date	Faculty council/ 27-8-2025							
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:

Definitions and historical aspects of pathology. Cellular base for disease. Etiology of diseases. Circulatory disturbances and degenerations. Disturbances of development and growth of cells. Inflammation, immunological disorders, regeneration and repair. Neoplasia.

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	Identify the basic knowledge about general pathology	
			a2	Define basis of the causes and pathogenesis of different lesions	
	2.11	The most appropriate diagnosis and differential diagnosis of animals, poultry and fish diseases	a3	Illustrate basis knowledge of Postmortem and microscopic lesions.	
			a4	Explain awareness about the significance and fate of different lesions	
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	Handle tissue specimens for histopathological examination	
			b2	Analyze the use of routine and special staining techniques of tissue sections and cytochemistry	
	4.5	Remain committed to life – long learning and updating / upgrading their biochemical sense and clinical skills.	b3	Determinate the different histopathological changes in different tissues	
			b4	Interpret the most important pathological changes in cells and 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.
			c2	Stain tissues with different stains
	3.9	Conduct evidence-based problem-solving of field-presented problems tasks	c3	Examine different lesions types
	3.13	Minimize the risk of contamination, cross infection and predisposing factors of diseases	c4	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	Inflammation1	1	1(2)		0	2(3)
W2	Inflammation2	1	1(2)		0	2(3)
W3	Inflammation3	1	1(2)	Formative quiz	0	2(3)
W4	Inflammation4	1	1(2)		0	2(3)
W5	Disturbance in circulation1	1	1(2)		0	2(3)
W6	Disturbance in circulation2	1	1(2)	Formative quiz	0	2(3)
W7	Semester work (one hour exam)	-	-		-	-
W8	Disturbance in metabolism1	1	1(2)		0	2(3)
W9	Disturbance n metabolism2	1	1(2)		0	2(3)
W10	Disturbance n metabolism3	1	1(2)	Formative quiz	0	2(3)
W11	Disturbance in cell growth1	1	1(2)		0	2(3)
W12	Disturbance in cell growth2	1	1(2)		0	2(3)
W13	Necrosis, gangrene and PM changes1	1	1(2)		0	2(3)
W14	Necrosis, gangrene and PM changes2	1	1(2)	Formative quiz	0	2(3)
W15	Practical exam	-	-		-	-

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:

Learning resources	Main reference	Student handbook: Fundamental veterinary pathology, Edited by Staff members. Essential Laboratory pathology, Edit by Staff members
		Jubb, Kennedy, and Palmer's (pathology of domestic animals) Sixth edition D,GopalakrishnaRao (2009) Introduction to General Veterinary Pathology. Illustrated Vet. Pathology (General

	Essential books (text books)	<p>&Systemic pathology) RS Chauhau 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> <p>J.L.Vegad (2018)A text book of veterinary general pathology</p> <p>Veterinary Pathology.</p>
	Periodicals, Web sites, . . . etc	<ul style="list-style-type: none"> • www.IVIS.org. • www.ekb.eg <ul style="list-style-type: none"> • Journal of Cell Ultrastructure • 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
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	A) Knowledge and understanding	B) Intellectual skills	C) Professional and practical skills	D) General and transferable skills
Inflammation	a1	b1, b2	c1, c2,c3	d1, d2, d3
Disturbance in circulation	a1, a2	b1,b3	c2,c3	d1, d2, d3
Disturbance in metabolism	a1, a2,a3	b4	C2	d1, d2, d3
Necrosis, gangrene and PM changes	a4	b1, b2	c1, c2,c3	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 understandi	a1	√	√	√	√	√	√
	a2	√	√	√	√	√	√
	a3	√	√	√	√	√	√
	a4	√	√	√	√	√	√
Intellectual skills	b1	√		√			
	b2	√		√			
	b3	√		√			
	b4	√		√			
Professional and practical	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				
		semester	Midterm	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