

Specification for Pathology C course 2025/2026

1-Basic information

1.	Course title	Pathology (C)							
2.	Course code	PAT.416	PAT.416							
3.	Department offering	Pathology								
3.	the course									
3.	Level	4 th year								
4.	Semester	Fall	Fall							
5.	Number of	Theoretical 1 Practical 1(2) Other 0 Total 2(3)							2(3)	
5.	units/credit hours									
6.	Course Type	$\sqrt{\mathbf{Obligatory}}$	•	Elective)					
7.	Academic program	Bachelor of V	ete ⁷	erinary Medi	cine (l	BVM)				
8.	University	Benha Univer	sit	y						
9.	Faculty	Veterinary me	edio	cine						
10.	Name of course	Prof. Dr. AbdElbasetI. El-Mashad								
10.	coordinator									
11.	Date of Approval	Department c	our	ncil on 8/720)25					
12.	Date of Approval	Faculty cound	cil (on 27/8/2025	5					

2-Course overview

• Course contents written in the program bylaw:

Study pathology of disease affecting different body system in case of different microbial , viral , mycotic and parasitic diseases.

3- Intended	3- Intended learning outcomes of the course (ILOs):						
		NARS ILOS		Course ILOS			
	Code	Text	Code	Text			
Knowledge and understanding	2.7	Various causes of animal diseases, their pathogenesis, macro- and micro-scopic pathological lesions,	a1 a2	Define and identify different pathological lesions associated with bacterial and parasitic diseases affected various animal, poultry and fish species Identify the Pathogenesis of bacterial and parasitic diseases affected various animal, poultry and fish species.			
		and laboratory diagnosis	a3	Describe the postmortem and microscopic lesions associated with bacterial and parasitic diseases affected various animal, poultry and fish species.			

فاكس: 0132463074 فاكس: 0132463074



Mention the significance and fate of a4 different lesions Differentiate between various **b1** lesions associated with bacterial and parasitic diseases affected Proficiently secure various animal, poultry and fish diagnostic reasoning, species. develop **b2** Link between the cause and problem lists and differential pathological lesion associated with diagnosis in order to Intellectual 4.4 bacterial and parasitic diseases skills deductively and critically affected various animal, poultry and reach the most appropriate fish species. solution (s) and management **b3** Interpret the most important of the addressed clinical pathological changes in cells and problems. tissues of the body Correlate between macroscopic and **b4** microscopic lesion Collect and Prepare the tissue c1 specimens for histopathological examination. **c2** Apply routine and special staining techniques of tissue sections Perform clinical examination **c3** Examine macroscopic and of diseased cases and collect 3.4 microscopic changes relevant samples Write a report about pathological **c4** lesions associated with bacterial **Professional** and parasitic diseases affected and practical various animal, poultry and fish skills Collect and Prepare the tissue Appropriately select and c1 interpret findings of the specimens for histopathological common clinical and examination. laboratory diagnostic 3.5 procedures to reach and adopt the most c2Apply routine and special staining convenient therapeutic and techniques of tissue sections manage mental approach. Work under pressure and / or d1under Work pressure during 5.1 contradictory conditions pathology lab sessions. **d2** Work in a team during the Function in a diagnosis process. 5.2 multidisciplinary team General and transferable d3Communicate & Cooperate with skills Communicate appropriately 5.3 other colleagues for reaching verbally and nonverbally diagnosis. Search for new information d4Search for new information in the 5.5 and technology as well as field of pathology. adopt life-long self learning

Website: http://www.fvtm.bu.edu.eg فاكس: 0132463074



فاكس: 0132463074

	ethics	

4- Teaching and learning methods							
Lectures	V	Discussion & seminar (self-learning)	√	Practical	√		
Presentation & movies	V	Problem solving	$\sqrt{}$	Brain storming	V		
Others		•	•	•	•		

- Course contents:

			Expected number of the Learning Hours					
Number of the Week	Scientific content of the course (Course Topics)	Total Weekly Hours	Theoretical teaching (lectures/di scussion groups/)	Training (Practica l/Clinical /)	Self- learning (Tasks/ Assignme nts/ Projects/)	Other (to be deter mined		
W1	Pathology of bacterial diseases of farm animals1	2(3)	1	1(2)		0		
W2	Pathology of bacterial diseases of farm animals2	2(3)	1	1(2)		0		
W3	Pathology of bacterial diseases of farm animals3	2(3)	1	1(2)	Formative quiz(self-learning)	0		
W4	Pathology of bacterial diseases of equines1	2(3)	1	1(2)		0		
W5	Pathology of bacterial diseases of equines2	2(3)	1	1(2)		0		
W6	Pathology of bacterial diseases of poultry	2(3)	1	1(2)	Formative quiz(self-learning)	0		
W7	Sen	nester wor	ks (one hour	exam)				
W8	Pathology of bacterial diseases of pets	2(3)	1	1(2)		0		
W9	Pathology of bacterial diseases of fish	2(3)	2	1(2)		0		
W10	Pathology of parasitic diseases of farm animals	2(3)	1	1(2)	Formative quiz(self- learning)	0		

Website: http://www.fvtm.bu.edu.eg



W11	Pathology of parasitic diseases of equines	2(3)	1	1(2)		0
W12	Pathology of parasitic diseases of poultry	2(3)	1	1(2)		0
W13	Pathology of parasitic diseases of pets	2(3)	1	1(2)	Formative quiz(self- learning)	0
W14	Pathology of parasitic diseases of fish	2(3)	1	1(2)		0
W15		Prac	tical exam	•		

5- Assessment timing and grading:

- a- Assessment methods (summative and formative)
- 1. **Formative assessment**: including (weekly quizzes, homework assignments and surveys).
- 2. **Summative assessment** including (quizzes, class activates, Mid-term exam, practical exam, oral exams and final written exams).

b- Assessment schedule and weight

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

6- Learning resources and supportive facilities:

Main reference	Student handbook: Specific Veterinary Pathology "Bacterial and Parasitic diseases" and Practical histopathology Edit by Staff members
Essential books	1-J.L.Vegad (2017) A text book of veterinary

فاكس: 0132463074 فاكس: 0132463074



		. 1 .1 1
	(text books)	special pathology.
		2-James R. Rooney (2015) Equine
		pathology
Learning	Recommended	Course note.
resources	books	• J.L.Vegad (2017) A text book of veterinary
resources		special pathology.
		• Genti A. Sastry (2010) veterinary pathology
		• J.E.Van Dijk (2007) Color Atlas Of
		veterinary pathology
	Periodicals, Web	Veterinary Pathology.
	sites, etc	• www.IVIS.org.
		• www.ekb.eg
	Learning	Thinqi
	platform	
Supportive	Devices &	Devices:
facilities	instruments	Microtome
idelities		Instruments:
		The blackboard
		 Colored drawing pens
		The data show
		Microscopes
		 Colored photographic images
		 Visual aids for various diseases
		 Dissection tools for dead animals and birds
		 Deep freezer for preserving samples

Matrices:

A- Content and ILOs matrix:

A- Content and ILOs matrix.							
Topic	A)	B)	C)	D)			
	Knowledge and understanding	Intellectual skills	Professional and practical skills	General and transferable skills			
Pathology of bacterial							
diseases of farm	a1, a2, a3, a4	b1, b2, b3, b4	c1, c2, c3, c4	d1, d2, d3, d4			
animals							
Pathology of bacterial	a1, a2, a3	b1, b2, b4	c1, c2, c3	d1, d2, d3, d4			
diseases of equines	a1, a2, a3	01, 02, 04	C1, C2, C3	u1, u2, u3, u4			
Pathology of bacterial	a1, a2, a4	b1, b3, b4	c1, c2, c4	d1, d2, d3, d4			
diseases of poultry	a1, a2, a4	01, 03, 04	C1, C2, C4	u1, u2, u3, u4			
Pathology of bacterial	a1, a2, a4	b1, b3, b4	c1, c3, c4	d1, d2, d3, d4			
diseases of pets	a1, a2, a4	01, 03, 04	01, 05, 04	u1, u2, u3, u4			
Pathology of bacterial	a1, a2, a3	b1, b2, b3,	c1, c2, c4	d1, d2, d3, d4			
diseases of fish	a1, a2, a3	01, 02, 03,	C1, C2, C4	u1, u2, u3, u4			

فاكس: 0132463074 فاكس: Website: http://www.fvtm.bu.edu.eg



Pathology of parasitic				
diseases of farm	a1, a2, a3	b1, b2, b3, b4	c1, c2, c3, c4	d1, d2, d3, d4
animals				
Pathology of parasitic	a1, a2, a4	b1, b3, b4	c1, c2, c4	d1, d2, d4
diseases of equines	a1, a2, a4	01, 03, 04	C1, C2, C4	u1, u2, u4
Pathology of parasitic				
diseases of	a1, a2, a4	b1, b2, b3,	c1, c2, c3	d1, d2, d4, d5
poultry			. ,	
Pathology of parasitic	-1 -2 -4	11 12 14	-1 -2 -4	31 32 32 34
diseases of pets	a1, a2, a4	b1, b2, b4	c1, c2, c4	d1, d2, d3, d4
Pathology of parasitic	a1 a2 a 2	h1 h2 h2	a1 a2	31 32 32 34
diseases of fish	a1, a2, a 3	b1, b2, b3,	c1, c2	d1, d2, d3, d4

B- Teaching and learning methods and ILOs matrix:

ILOs		Teaching and Learning methods							
illos	L	P&M	D	P	Ps	Bs			
	a1	V	V	√					
Knowledge and	a2	V	V	√					
understanding	a3	$\sqrt{}$	$\sqrt{}$						
	a4	V	V	√					
	b1	V	V	√		√	V		
T4-1141-1-11-	b2	V	V	√		√	V		
Intellectual skills	b3	V	V	√		√	V		
	b4	V	V	√		√	V		
	c1		V	√	√	√			
Professional and	c2		V	$\sqrt{}$	√	$\sqrt{}$			
practical skills	c3		V	√	√	V			
_	c4		V	√	√	V			
	d1	V		$\sqrt{}$		V			
General skills	d2				V				
	d3		V						
	d4								

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 works (one hour exam)	Oral	Practical	Written		
Knowledge and understanding	a1			$\sqrt{}$				
	a2	V	√			V		
	a3	V	√	V		V		
	a4	V	√			V		
Intellectual skills	b1	V	√	V		V		
	b2	V	√			V		
	b3	V	√	V		V		
	b4	V	√	V		V		
Professional	c1				V			
and practical	c2				V			

فاكس: 0132463074 فاكس: 0132463074



skills	c3					
	c4				$\sqrt{}$	
General skills	d1	$\sqrt{}$				
	d2	$\sqrt{}$				
	d3	$\sqrt{}$		V		
	d4	V	√			

Name and Signature Course Coordinator

Prof. dr. AbdElbasetI. El-Mashad

Name and Signature Program Coordinator

Prof. Dr. Mahmoud Abouelroos

فاكس: 0132463074 فاكس: Website: http://www.fvtm.bu.edu.eg