

## Specification for Pathology (D) course

2025/2026

### 1-Basic information

1.	Course title	Pathology (D)							
2.	Course code	PAT.426							
3.	Department offering the course	Pathology							
3.	Level	4 <sup>th</sup> year							
4.	Semester	Spring							
5.	Number of units/credit hours	Theoretical	1	Practical	1(2)	Other	0	Total	2(3)
6.	Course Type	√ Obligatory Elective							
7.	Academic program	Bachelor of Veterinary Medicine (BVM)							
8.	University	Benha University							
9.	Faculty	Veterinary medicine							
10.	Name of course coordinator	Prof. Dr. AbdElbasetI. El-Mashad							
11.	Date of Approval	Department council on 8/7/2025							
12.	Date of Approval	Faculty council on 27/8/2025							

### 2-Course overview

- Course contents written in the program bylaw:

pathology of viral diseases of farm animals, equines, poultry, pets and fish , pathology of mycotic diseases of farm animals, equines, poultry, pets and fish.

### 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, and laboratory diagnosis	a1	Define and identify different pathological lesions associated with viral and mycotic diseases affected various animal, poultry and fish species
			a2	Identify the Pathogenesis of viral and mycotic diseases affected various animal, poultry and fish species.
			a3	Describe the postmortem and microscopic lesions associated with viral and mycotic diseases affected various animal, poultry and fish species.

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			<b>a4</b>	List the significance and fate of different lesions
<b>Intellectual skills</b>	<b>4.4</b>	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.	<b>b1</b>	Differentiate between various lesions associated with viral and mycotic diseases affected various animal, poultry and fish species .
			<b>b2</b>	Link between the cause and pathological lesion associated with viral and mycotic diseases affected various animal, poultry and fish species.
			<b>b3</b>	Interpret the most important pathological changes in cells and tissues of the body
			<b>b4</b>	Correlate between macroscopic and microscopic lesion
<b>Professional and practical skills</b>	<b>3.4</b>	Perform clinical examination of diseased cases and collect relevant samples	<b>c1</b>	Collect and Prepare the tissue specimens for histopathological examination.
			<b>c2</b>	Apply routine and special staining techniques of tissue sections
			<b>c3</b>	Examine macroscopic and microscopic changes
			<b>c4</b>	Write a report about pathological lesions associated with viral and mycotic diseases affected various animal, poultry and fish species
	<b>3.5</b>	Appropriately select and interpret findings of the common clinical and laboratory diagnostic procedures to reach and adopt the most convenient therapeutic and manage mental approach.	<b>c1</b>	Collect and Prepare the tissue specimens for histopathological examination.
			<b>c2</b>	Apply routine and special staining techniques of tissue sections
<b>General and transferable skills</b>	<b>5.1</b>	Work under pressure and / or contradictory conditions	<b>d1</b>	Work under pressure during pathology lab sessions.
	<b>5.2</b>	Function in a multidisciplinary team	<b>d2</b>	Work in a team during the diagnosis process.
	<b>5.3</b>	Communicate appropriately verbally and nonverbally	<b>d3</b>	Communicate & Cooperate with other colleagues for reaching diagnosis.
	<b>5.5</b>	Search for new information and technology as well as adopt life-long self learning ethics	<b>d4</b>	Search for new information in the field of pathology.

4- Teaching and learning methods					
Lectures	√	Discussion & seminar (self-learning)	√	Practical	√
Presentation & movies	√	Problem solving	√	Brain storming	√
Others					

**- Course contents:**

Number of the Week	Scientific content of the course (Course Topics)	Total Weekly Hours	Expected number of the Learning Hours			
			Theoretical teaching (lectures/discussion groups/.....)	Training (Practical/Clinical/.....)	Self-learning (Tasks/Assignments/Projects/...)	Other (to be determined)
W1	Pathology of viral and mycotic diseases of farm animals1	2(3)	1	1(2)		0
W2	Pathology of viral and mycotic diseases of farm animals2	2(3)	1	1(2)		0
W3	Pathology of viral and mycotic diseases of farm animals3	2(3)	1	1(2)	Formative quiz(self-learning)	0
W4	Pathology of viral and mycotic diseases of farm animals4	2(3)	1	1(2)		0
W5	Pathology of viral and mycotic diseases of equines1	2(3)	1	1(2)		0
W6	Pathology of viral and mycotic diseases of equines2	2(3)	1	1(2)	Formative quiz(self-learning)	0
W7	Semester works (one hour exam)					
W8	Pathology of viral and mycotic diseases of	2(3)	1	1(2)		0

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	equines3					
<b>W9</b>	Pathology of viral and mycotic diseases of poultry1	<b>2(3)</b>	<b>2</b>	<b>1(2)</b>		<b>0</b>
<b>W10</b>	Pathology of viral and mycotic diseases of poultry2	<b>2(3)</b>	<b>1</b>	<b>1(2)</b>	<b>Formative quiz(self-learning)</b>	<b>0</b>
<b>W11</b>	Pathology of viral and mycotic diseases of poultry3	<b>2(3)</b>	<b>1</b>	<b>1(2)</b>		<b>0</b>
<b>W12</b>	Pathology of viral and mycotic diseases of pets1	<b>2(3)</b>	<b>1</b>	<b>1(2)</b>		<b>0</b>
<b>W13</b>	Pathology of viral and mycotic diseases of pets2	<b>2(3)</b>	<b>1</b>	<b>1(2)</b>	<b>Formative quiz(self-learning)</b>	<b>0</b>
<b>W14</b>	Pathology of viral and mycotic diseases of pets3	<b>2(3)</b>	<b>1</b>	<b>1(2)</b>		<b>0</b>
<b>W15</b>	<b>Practical exam</b>					

## 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 work including one hour exam	7 <sup>th</sup> week	10	10%
Assignments / Project /Portfolio/ Logbook	Throughout semester		
Field training			
Formative assessment	Throughout semester	-	-
Practical exam	15 <sup>th</sup> 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:

<b>Learning resources</b>	<b>Main reference</b>	<b>Student handbook:</b> pecific Veterinary Pathology “viral& mycotic diseases” and Practical histopathology Edit by Staff members
	<b>Essential books (text books)</b>	<ul style="list-style-type: none"> <li>• J.L.Vegad (2017) A text book of veterinary special pathology.</li> <li>• James R. Rooney (2015) Equine pathology</li> <li>• J.E.Van Dijk (2007) Color Atlas Of veterinary pathology</li> </ul>
	<b>Recommended books</b>	<ul style="list-style-type: none"> <li>• <b>Course note.</b></li> <li>• Genti A. Sastry (2010) veterinary pathology</li> <li>• J.E.Van Dijk (2007) Color Atlas Of veterinary pathology</li> </ul>
	<b>Periodicals, Web sites, . . . etc</b>	<ul style="list-style-type: none"> <li>• Veterinary Pathology.</li> <li>• <a href="http://www.IVIS.org">www.IVIS.org</a>.</li> <li>• <a href="http://www.ekb.eg">www.ekb.eg</a></li> </ul>
	<b>Learning platform</b>	Thingqi
<b>Supportive facilities</b>	<b>Devices &amp; instruments</b>	<p><b>Devices:</b></p> <ul style="list-style-type: none"> <li>• Microtome</li> </ul> <p><b>Instruments:</b></p> <ul style="list-style-type: none"> <li>• The blackboard</li> <li>• Colored drawing pens</li> <li>• The data show</li> <li>• Microscopes</li> <li>• Colored photographic images</li> <li>• Visual aids for various diseases</li> <li>• Dissection tools for dead animals and birds</li> <li>• Deep freezer for preserving samples</li> </ul>

## Matrices:

### A- Content and ILOs matrix:

Topic	A) Knowledge and	B) Intellectual	C) Professional	D) General and
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	understanding	skills	and practical skills	transferable skills
Pathology of viral and mycotic diseases of farm animals	a1, a2, a3, a4	b1, b2, b3, b4	c1, c2, c3, c4	d1, d2, d3, d4
Pathology of viral and mycotic diseases of equines	a1, a2, a3	b1, b2, b3	c1, c3, c4	d1, d2, d3, d4
Pathology of viral and mycotic diseases of poultry	a1, a2, a4	b1, b3, b4	c1, c2, c4	d1, d2, d4, d5
Pathology of viral and mycotic diseases of pets	a1, a2, a3	b1, b2, b4	c1, c2, c3	d1, d2, d4
Pathology of viral and mycotic diseases of fish	a1, a2	b1, b2	c1, c2	d1, d2, d4

### B- Teaching and learning methods and ILOs matrix:

ILOs		Teaching and Learning methods					
		L	P&M	D	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		√				
	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
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		Formative assessment	Semester work (one hour exam)	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	√	√	√		
	d4	√	√			

Name and Signature  
Course Coordinator

Prof. dr. AbdElbaset I. El-  
Mashad

Name and Signature  
Program Coordinator

Prof. Dr. Mahmoud Abouelroos