

Specification for Parasitology course (A)

2025/2026

1-Basic information

1	Course title	Parasitology (A)							
2	Course code	PAR.315							
3	Department participating in delivery of the course	Parasitology Department							
4	Number of hours	Theoretical	2	Practical	1(2)	Other	0	Total	3(4)
5	Course Type	√ Obligatory Elective							
6	Academic Level at which the course is taught	3 rd year							
7	Semester	Fall							
8	Academic program	Bachelor of Veterinary Medicine (BVM)							
9	University	Benha University							
10	Faculty	Veterinary medicine							
11	Name of course coordinator	Prof. Dr. Reham Samir Elmadawy							
12	Course Specification Approval Date	Faculty council 6 /-8-2025							
13	Course Specification Approval (Attach the decision/minutes of the department /committee/council)	Department council on 8-7-20025							

2-Course overview

- **Course contents written in the program bylaw:**

The introductions; Helminthology (trematodes, custodies and nematodes); general character, morphological character, life cycle, pathogenesis of the parasites; general study of mollusks and their role in the transmission of parasitic disease. Control of mollusks. Fish parasites (protozoa, cestodes, nematodes & trematodes), morphological characters, life cycle, public health importance and methods of control.

3- Intended learning outcomes of the course (CLOs):

	ARS ILOS		Course ILOS	
	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 medical importance of helminthes
			a2	Classify and list helminthes of veterinary medical importance.
			a3	Mention the different intermediate hosts of different helminthes
			a4	lustrate the morphological characters and life cycle of important helminthes
			a.5	Mention the medical importance of helminthes, and methods for diagnosis and control
Intellectual skills	4.3	Inculcate a rigorous approach to problem identification and solving	b1	Determine different parasitic worms and their eggs.
			b2	Conclude the life cycle of different parasites
	4.5	Remain committed to life – long learning and updating / upgrading their biochemical sense and	b3	Determine types of parasites causing diseases
			b4	Estimate and solve the problem of different types of intermediate hosts such as fresh water snails, brackish snails and land snails.
			b.5	Compare between different types of parasitic eggs
			b.6	Different between different kinds of parasities

		clinical skills.		
Practical skills	3.4	Perform clinical examination of diseased cases and collect relevant samples	c1	Diagnose fresh samples of helminthes, and eggs
			c2	Diagnose fixed samples of helminthes, and eggs
			c3	Diagnose parasitic worms in different tissues
			c4	Diagnose different larval stages of helminthes.
			c.5	Diagnosis of different symptoms of parasitic helminthes
General skills	5.1	Work under pressure and / or contradictory conditions	d1	Work under pressure during 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 parasitology.
	5.6	Utilize computer and internet skills	d3	Utilize computer and internet skills, read paper via internet in field of parasitology.

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

- Course Schedule:

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	Introduction , Trematodes (Fasciolidae)	3(4)	2	1(2)		0
W2	Trematodes 1 (Paramphistomatidae, Heterophyidae, Echinostomatidae, Schistosomatidae)	3(4)	2	1(2)		0
W3	Trematodes 2 (Echinostomatidae, Snails Schistosomatidae))	3(4)	2	1(2)	Formative quiz	0
W4	Cestodes(Introduction) (Cotyloda, Taenidae(Cestodes of man)	3(4)	2	1(2)		0
W5	Cestodes (Cotyloda, Taenidae) Cestodes of dog	3(4)	2	1(2)		0
W6	Cestodes(,Anoplocephalidae, (Anoplocephalidae,cestodes of ruminant))	3(4)	2	1(2)	Formative quiz	0

W7	Semester work	-	-	-		-
W8	Cestodes of fish Davanieidae, Hymenolepididae (cestodes of poultry)	3(4)	2	1(2)		0
W9	Nematodes (Introduction) Nematodes (O: Ascaridia)	3(4)	2	1(2)		0
W10	Nematodes (O: Ascaridia) Nematodes ((O: Rhabditidia)	3(4)	2	1(2)	Formative quiz	0
W11	Nematodes ((O: Rhabditidia) Nematodes (O: Strongylida)	3(4)	2	1(2)		0
W12	Nematodes (O: Enoplida) Trichnella spiralis	3(4)	2	1(2)		0
W13	Nematodes of fish Trichuris trichura, capillaria	3(4)	2	1(2)		0
W14	Immunity Nematodes of fish	3(4)	2	1(2)	Formative quiz	0
W15	Practical 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 activities, Semester work, practical exam, oral exams and final written exams).

b- Assessment schedule and weight

Assessment method	Timing	Grade	Percent
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: General Veterinary helminthology and Practical helminthology Edit by Staff members
	Essential books (text books)	<ul style="list-style-type: none"> •Bow man D. D (2014) Parasitology for veterinarians •Larrys. Roberts (2013) Foundations of Parasitology. Anne M . Zajac (2006) Veterinary Clinical Parasitology
	Recommended books	<ul style="list-style-type: none"> •Course note. •Larrys. Roberts (2013) Foundations of Parasitology. •Anne M . Zajac (2006) Veterinary Clinical Parasitology.

	Periodicals, Web sites, . . . etc	<ul style="list-style-type: none"> •Veterinary parasitology. •www.ekb.eg
	Learning platform	Thinqi
supportive facilities	Devices & instruments	<p>Devices:</p> <ul style="list-style-type: none"> • Microscope • Centrifuge • Incubator • Magnetic stirrer • Camera • Water bath • Digital balance • Sockcelet apparatus <p>Instruments:</p> <ul style="list-style-type: none"> • Slides • Cover slides • Jars • Pipettes • Petri dish
		<ul style="list-style-type: none"> •Data show. •White board. •Parasitology lab. •Posters •Department library

Matrices:

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A- Content and ILOs matrix:

Topic	(A) Knowledge and understanding	B) Intellectual skills	C) Professional and practical skills	D) General and transferable skills
Introduction	a 1	B1	C1	d1, d2, d3
Trematodes	a 1, a 2	b1, b2, b3, b6	c1, c2, c3, c4	d1, d2, d3
Snails	a 1	B4	C2	d1, d2, d3
Trematodes of fish	a 2, a 3, a 4	b1, b2, b3,	c1, c2, c3	d1, d2, d3
Cestodes	a 2, a 3, a 4, a 5	b1, b2, b3, b5, b6	c1, c2	d1, d2, d3
Nematodes	a 2, a 3, a 4, a 5	b1, b2, b3, b6	c1, c2, c3, c4	d1, d2, d3
Cestodes and Nematodes of fish	a 2, a 3, a 4, a 5	b1, b2, b5, b6	c1, c2, c3, c5	d1, d2, d3
Immunity		-	-	-

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	√	√	√			√
	a5	√	√	√			√
Intellectual skills	b1	√	√	√			√
	b2	√	√	√	√		√
	b3	√	√	√	√		√

	b4	√	√	√	√		√
	b5	√	√	√	√		√
	b6	√	√	√	√		√
Professional and practical skills	c1		√	√	√	√	
	c2		√	√	√	√	
	c3		√	√	√	√	
	c4		√	√	√	√	
	c5		√	√	√	√	
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		√	√		√
	a5		√	√		√
Intellectual skills	b1	√	√	√		√
	b2	√	√	√		√
	b3	√	√	√		√
	b4	√	√	√		√

	b5	√	√	√		√
	b6	√	√	√		√
Professional and practical skills	c1				√	
	c2				√	
	c3				√	
	c4				√	
	c5				√	
General skills	d1	√		√		
	d2	√		√		
	d3	√		√		

-Course coordinator:

Prof. Dr. Reham Samir Elmadawy

-Program coordinator: Prof. Dr. Mahmoud Abouelroos