

Specification for Parasitology course 2019/2020

A-Affiliation

1.	Relevant program	Bachelor of Veterinary Medical Science (BVMSc)
2.	Department offering the course	Parasitology

Date of specification approval: ministerial decree No. 1727 on 26/4/2017
(Approved in this template by the department council on 1/10/2019)

B-Basic information

1.	Course title	Parasitology
2.	Course code	311 (B) II
3.	Level	3 rd year
4.	Semester	Second semester
5.	Total hours	6
6.	Lecture hours	3
7.	Practical hours	3

C-Professional Information

1- Course learning objectives

The course aims to provide the students with the morphology, life cycle, pathogenesis, diagnosis, control, immunity and treatment of most important insect, crustacea, archnida and protozoa affecting animals, birds and fish.

2- Intended learning outcomes of the course (ILOs):

a- Knowledge and understanding

After successful completion of the course the students should be able to:

- a1- Describe the medical importance of arthropods, archnida and protozoa
- a2- Classify and list insect, crustacea, archnida and protozoa of veterinary medical importance.
- a3- Illustrate the morphological characters and life cycle of important arthropods, archnida and protozoa
- a4- Mention the medical importance of arthropods, archnida and protozoa, and methods for diagnosis and control

b- Intellectual skills

After successful completion of the course the students should be able to:

- b.1- Identify insect, crustacea, archnida and protozoa with their stages.
- b.2- Differentiate between the clinical and pathogenesis signs with parasitic infections.
- b.3 Compare the morphology, life cycle, pathogenesis, diagnosis, control,

immunity and treatment of most important insect, crustacea, archnida and protozoa affecting animals, birds and fish

c- Professional and practical skills

After successful completion of the course the students should be able to:

- c.1-Identify fixed samples of insect, crustacea, archnida parts on slide microscope and TV monitor.
- c.2- Identify the morphology of arthropods preserved in boxes.
- c.3 -Identify fixed samples of protozoa on slide microscope and TV monitor.
- c.4 Identify the different larval stages of arthropods and protozoan
- c.5 Identify the clinical symptoms and pathogenesis of insects , arachnid and protozoan parasites

d- General and transferable skills

After successful completion of the course the students should have the following skills

- d1- Searching skill.
- d2- Communication skill
- d3-Working in team
- d4- problem solving skill

3- Course contribution in the program ILOs:

Course ILOS	Program ILOS
A Knowledge and understanding	a ⁷
B Intellectual skills	b ⁶
C Professional and practical skills	c ⁴
D General and transferable skills	d ^{1,3,6}

3.1- Course contents:

Topic	Lecture hours	Practical hours
Introduction to Entomology	2	
Insects	10	9
Arachnids	8	8
Fish crustacea	2	4
Immunity for Arthropods	1	-
Introduction to Protozoa	2	-
Flagellates	6	8
Entamoeba	2	3
Apicomplexa	8	8
Fish protoza	2	4
Immunity of protozoa	2	-
Total	45	45

The midterm and practical exams are included during the semester

3.2- ILOs matrix:

Topic	A) Knowledge and understanding	B) Intellectual skills	C) Professional and practical skills	D) General and transferable skills
Introduction to Entomology	a1, a2, a3, a4,	-	-	d1
Insects	a1, a2, a3, a4,	b1, b2, b3,	c1, c2, c3, c4, c5	d1, d2, d3, d4
Arachnids	a1, a2, a3, a4,	b1, b2, b3	c1, c2, c3	d1, d2, d3, d4
Fish crustacea	a1, a2, a3, a4,	b1, b2, b3,	c1, c2, c3, c4, c5	d1, d2, d3, d4
Immunity for Arthropods	a4,	b3,	-	d4
Introduction to Protozoa	a1, a2, a3, a4,	-	-	d1
Flagellates	a1, a2, a3, a4,	b1, b2, b3,	c1, c2, c3, c4, c5	d1, d2, d3, d4
Entamoeba	a1, a2, a3, a4,	b1, b2, b3,	c1, c2, c3, c4, c5	d1, d2, d3, d4
Apicomplexa	a1, a2, a3, a4,	b1, b2, b3,	c1, c2, c3, c4, c5	d1, d2, d3, d4
Fish protozoa	a1, a2, a3, a4,	b1, b2, b3,	c1, c2, c3, c4, c5	d1, d2, d3, d4
Immunity of protozoa	a4,	b3,	-	d4

4- Teaching, learning and assessment methods:

ILOs	Teaching and Learning methods						assessment method					
	L	P&M	D	P	Ps	Bs	semester	midterm	oral	practical	written	
and understanding	a1	x	x	x	0	0	x	x	x	x	0	x
	a2	x	x	x	0	0	x	x	x	x	0	x
	a3	x	x	x	0	0	x	x	x	x	0	x
	a4	x	x	x	0	0	x	x	x	x	0	x
Intellectual skills	b1	x	x	x	0	x	x	x	x	x	0	x
	b2	x	x	x	x	x	x	x	x	x	0	x
	b3	x	x	x	x	x	x	x	x	x	0	x
Professional and practical skills	c1	0	x	x	x	x	0	x	0	x	x	0
	c2	0	x	x	x	x	0	x	0	x	x	0
	c3	0	x	x	x	x	0	x	0	x	x	0
	c4	0	x	x	x	x	0	x	0	x	x	0
	c5	0	x	x	x	x	0	x	0	x	x	0
General skills	d1	x	x			0	x	x	0	x	0	x
	d2	x	0	0	x	0	x	x	0	x	0	0
	d3	0	0	x	x	0	0	x	0	x	0	0

	d4	0	0	x		x	0	x	0	x	0	x
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L :Lecture, P&M: Presentations & Movies, D&S: Discussions & Seminars PT: Practical, Ps: Problem solving, Bs: Brain storming

5- Assessment timing and grading:

Assessment method	timing	grade
Mid-term exam and semester work	6 th week	15
Practical exam	14 th week	20
oral exam	End of semester	15
Written exam	End of semester	50
total		100

6- List of references

6.1- Course notes:

Entomology and Protozoology and Practical Entomology and Protozoology edited by staff members

6.2- Essential books (text books)

- Bow man D. D (2014) Parasitology for veterinarians
- Larrys. Roberts (2013) Foundations of Parasitology.
- K.D.Chatterjee ((2011) parasitology protozoology and helminthology.

6.3- Recommended books

- Course note.
- Larrys. Roberts (2013) Foundations of Parasitology.
- .D.Chatterjee ((2011) parasitology protozoology and helminthology.

6.4- Periodicals, Web sites, ... etc

- Veterinary parasitology.
- www.ekb.eg

7- Facilities required for teaching and learning

- Data show.
- White board.
- Parasitology lab.
- Posters
- Department library

Course coordinator: Prof Dr. MOHAMED Y. RAMDAN.

Head of department Prof Dr. MOHAMED Y. RAMDAN

Signature

Date 1/10/2019