

Course Description Form

1. Course Name:

Helminthology

2. Course Code:

VEM3102

3. Semester / Year:

First Semester / Third Year

4. Description Preparation Date:

1 / 9 / 2025

5. Available Attendance Forms:

- Theoretical lectures.
- Practical work in laboratory.

6. Number of Credit Hours (Total) / Number of Units (Total)

	Credit Hours	Units
Theoretical	3	3
Practical	2	1
Total	5	4

7. Course administrator's name (mention all, if more than one name)

Name: Prof. Dr. Manal hammadi hasan

Email: manalhimmadi@uomosul.edu.iq

8. Course Objectives

Course Objectives	• Parasitology course provides an overview of the animals parasites and their diseases • Topics include the basic concept of helminthes parasite classes • Special emphasis is placed on topics that related to animals health such as host-pathogen interactions and laboratory diagnostic methods
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9. Teaching and Learning Strategies

Strategy	• Explanation of scientific subjects through theoretical lectures. • Training of students for practical applications in laboratories. • Student prepare a scientific related reports.
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10. Course Structure					
- Theoretical Subjects:					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	3	(i) demonstrate detailed knowledge and understanding of the biology, life cycles pathogenesis, diagnosis of parasitic infections in animals and their relevance for animal health and strategies for control; (ii) demonstrate detailed knowledge and understanding of the biology and strategies for control of the vectors and intermediate hosts of animals parasites; (iii) carry out practical laboratory identification of the various parasite stage both free and in tissue and diagnose infections (iv) demonstrate specialised skills acquired through taking Module on: advanced diagnostic molecular, immunological genetic, chemotherapeutic ecological and/or control aspects of the subject; (v) demonstrate the ability to design a laboratory or field based research project, apply relevant research skills, critically analyse and interpret data and work with minimal supervision; (vi) prepare written report including critical literature review of relevant scientific publications; and show competence in communicating scientific information and findings	Introduction & Definitions of Terms Effects of parasites on their hosts	Theoretical lectures	Written Exam
2	3		Transmission of parasite		
3-4	6		Nemathelminthes /Families: Ascaridae Oxyuridae,		
5-6	6		Hetrakidae Subuluridae, Rhabditidae Strongyloididae,		
7-8	6		Ancylostomatidae, Trichostrongylidae Dictyocaulidae		
9-10	6		Metastrongyloidae Spiruridae, Fillariidae, Trichinellidae		
11-12	6		Phylum: Trematoda / Families: Fasciolidae, Dicrocoelidae,		
13-14	6		Phylum: Platyhelminthes / Families: Taeniidae,		
15	3	Davaineidae, Dipylidiidae, Hymenolepididae, Mesocestoidae,			
- Practical Subjects:					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	(i) demonstrate detailed knowledge and understanding of the biology, life cycles, pathogenesis, diagnosis	Laboratory diagnosis of parasitism	Practical work in laboratory	Practical Exam
2	2		Parascaris equorum, Toxocara canis,		
3	2		Strongylidae copulatory bursa, Strongylus vulgaris		
4-5	4		Haemonchus contortus, Ostertagia,		

		of parasitic infections in animals and their relevance for animal health and strategies for control; (ii) demonstrate detailed knowledge and understanding of the biology and strategies for control of the vectors and intermediate hosts of animal parasites; (iii) carry out practical laboratory identification of the various parasite stages both free and in tissues and diagnose infections; (iv) demonstrate specialised skills acquired through taking Modules on: advanced diagnostic, molecular, immunological, genetic, chemotherapeutic, ecological and/or control aspects of the subject; (v) demonstrate the ability to design a laboratory or field based research project, apply relevant research skills, critically analyse and interpret data, and work with minimal supervision; (vi) prepare a written report including a critical literature review of relevant scientific publications; and show competence in communicating scientific information and findings	Dictyocaulus filarial Habronema, Thelazia, Setaria Fasciola hepatica, Fasciola gigantica Dicrocoelium dendriticum Schistoma Moniezia expansa Raillietina Taenia spp Echinococcus granulosus, protoscolex of Hydatid cyst		
6	2				
7	2				
8	2				
9	2				
10	2				
11-12	4				
13-14	4				
15	2				

11.Course Evaluation

	Course Exam	Final Exam	Sum
Theoretical	30	45	75
Practical	10	15	25
Total	40	60	100

12.Learning and Teaching Resources

Required textbooks (curricular books, if any)	Textbook of Veterinary Parasitology (Mandal,2025)
Main references (sources)	Veterinary Helminthology Paperback by R. K. Reinecke

Recommended books and references (scientific journals, reports...)	Veterinary parasitology ,Richard wall
Electronic References, Websites	https://www.eolss.net/sample-chapters/c10/e5-15a-26.pdf