



WOLLO UNIVERSITY

SCHOOL OF VETERINARY MEDICINE

Instructor Name ; Dr. Ahmed Yasine & Dr. Andualem Yimer

Consultation hrs:

Office No:

Target group: 2nd year, DVM students

Veterinary protozoology and Entomology (4 Cr hrs/10ECTs)

Semester: II

Academic year: 2020

Course No: VETM 2082

Lecture: 3 hrs

Practical: 1 hr

Course Description

Lecture:

- 1). Introduction to protozoology, classification, morphology, life cycle, pathogenesis, epidemiology, diagnosis and control measures of the economically important protozoan parasites.
- 2). Discussions on protozoan zoonoses
- 3). Introduction to Entomology, arthropods and their economic significance; classification, structures and functions. The morphology, life cycle, vector role and control of the different species of Insects and arachnids will be studied.

Practicals: includes

- Examination of faecal materials for identification of intestinal protozoa.
- Collection and preparation of blood smears, staining and examination of slides for detecting haemoparasites.
- Identification of important members of protozoan parasites.
- Methods for collection, fixation and preservation of arthropod parasites.
- Identification of important members of the order Phthiraptera, Siphonaptera, Hemiptera, Diptera and Acarina.
- Examination of skin scrapings for mange mites; identification of dipteran larvae;
- Visits to livestock and poultry farms and research centres for studies of trypanosomes, Tsetse flies, and ectoparasites etc.

Course Objectives:

- Understand the biology, significance and occurrence of arthropods and protozoan parasites of domestic animals.
- Possess skills in identification, diagnosis and control of arthropod and protozoan parasites of domestic animals.

Prerequisite course: Veterinary Parasitology I

Mode of delivery:

Lectures, practicals, field visits

Assessment methods:

- Test 1& Test 2, laboratory and field reports (25%)
- Mid-examination (25%)
- Final examination (40%)
- Practical exam (10%)

Course Outline



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1. Protozoology	week 1-9
1.1. Introduction	week 1
1.2. Subphylum: Sarcomastigophora	week 2-5
1.3. Subphylum: Sporozoa	week 6&7
1.4. Subphylum: Ciliophora	week 8
1.5. Subphylum: Microspora	week 9
2. Veterinary Acarology & Entomology	week 9-16
1.1. Introduction(1hr)	week 9
1.2. General characteristics and classification	week 9
1.3. Acarina	week 11&12
1.3.1. Ticks	
1.3.2. Mites	
1.4. Phthraptera	week 13
1.4.1. Anoplura	
1.4.2. Mallophaga	
1.5. Siphonaptera	week 14
1.6. Diptera	week 15&16
1.6.1. Ceratopogonidae	
1.6.2. Simuliidae	
1.6.3. Psychodidae	
1.6.4. culicidae	
1.6.5. Tabanidae	
1.6.6. Muscidae	
1.6.7. Calliphoridae	
1.6.8. Sarcophagidae	
1.6.9. Oestridae	
1.6.10. Hipoboscidae	

References

1. Veterinary parasitology at a glance: 1st ed. By Mandal, S.C.. (2006).
2. Veterinary parasitology: 3rd ed. By Taylor, Coop and Wall (2007).
3. Veterinary clinical parasitology: 7th ed. By Zajac, A.M. and Conboy, G.A. (2006).
4. Veterinary parasitology reference manual: 5th ed. By Foreyt, W.J. (2001).
5. Echinococcus and Hydatid disease: Thompson, R.C.A. and Lymbery, A.J. (1995).
6. Veterinary protozoan and hemoparasite vaccines: Wright, I.J. (2000).