UZO-551   Parasitology-I   Cr. (2)

Course Objectives:
The objectives of the course are:-
1. Describe general principles and concepts of animal parasitology
2. Classify major animal parasites of animals.
3. Describe many of the disease conditions that animal parasite cause and to consider measures that may lead to control of these disease agents

Course Learning Outcomes:
Upon successful completion of the course, the student will be able to:
1. Assess general principles and concepts of animal parasitology
2. Analyze many of the disease conditions that animal parasite cause and to consider measures that may lead to control of these disease agents

Course Contents:
Introduction to parasitology. Relationship to other sciences, parasitology and human welfare.Parasites of dmestic and wild animals.Camers in parasitology.Some basic definitions.
Basic principles and concepts. Parasite ecology and evolution.
Basic principles and concepts. Immunology and pathology. Susceptibility and resistance, innate defence mechanisms. Acquired immune response in vertebrates. Immunity in invertebrates.Immunodiagnosis, pathogenesis of parasitic infections.Accommodation and tolerance in the host-parasite relationship.
Parasitic protozoa, form, function and classification.
Kinetoplasta, trypanosomes and their kin, forms of trypanosomatidae.
Other flagellated protozoa, order Retortamonadita, order Diplomonadida, order Trichomonadida, order Opalinida.
The Amoebas. Order Amoebida, order Schizopyrenida.

Teaching-Learning Strategies
Teaching will be a combination of class lectures, class discussions, and group work. Short videos /films will be shown on occasion.

Assignments
The sessional work will be a combination of written assignments, class quizzes, presentation, and class participation/attendance.

Assessments and Examination
Sessional Work: 25 marks
Midterm Exam: 35 marks
Final term Exam: 40 marks

Books Recommended:
1. Foundation of Parasitology, 2009, 6th Ed. Roberts, L.S. and Janovy, J. McGraw Hill Book Co.
2. PROTOZOOLOGY, 2003, 3rd Ed. Hausman, K. and Hulsmann, N. Thieme Medical Publishers, Inc. New York.
3. Chaudhri SS and Gupta SK. 2003. *Manual of General Veterinary Parasitology*. International Book Distr. Co.
4. Sterling CR. and Adam RD. 2014. *The Pathogenic Enteric Protozoa*. Kluwer Academic Press.
5. Durr P & Gatrell A. 2004. *GIS and Spatial Analysis in Veterinary Science*. CABI. Ministry of Agriculture, Fisheries and Food (MAFF). 1986. *Manual of Veterinary Parasitological Laboratory Techniques*. 3rd Ed. Tech. Bull. 18, HMSO.
6. Rathore VS & Sengar YS. 2005. *Diagnostic Parasitology*. Pointer Publ.

UZO-552   Parasitology-I(Lab.)   **Cr. (1)**

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The objectives of the course are:-
1. Describe general principles and concepts of animal parasitology
2. Classify major animal parasites of animals.
3. Describe many of the disease conditions that animal parasite cause and to consider measures that may lead to control of these disease agents

Course Learning Outcomes:
Upon successful completion of the course, the student will be able to:
1. Assess general principles and concepts of animal parasitology
2. Analyze many of the disease conditions that animal parasite cause and to consider measures that may lead to control of these disease agents

Course Contents:
   Study of the prepared slides of Protozoan Parasites
   • Giardia lamblia (Cyst and trophozoite)
   • Eimeria tenella (Cyst and trophozoite)
   • Endolimax nana (Cyst)
   • Entamoeba histolytica
   • Histomnas meliagridis
   • Leishmania
   • Opalina
   • Plasmodium falciparum
   • Plasmodium vivax
   • Schistosoma mansoni
   • Trophozoit of Giardia lamblia
   • Trypanosoma cruzi
   • Trypnosoma gambiense
   • Neglaria fowleri
   • Monocystis lumbrici
   • Culturing of protozoa (Entamoeba, histomnas mrliagridis)

Teaching-Learning Strategies
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Assignments
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Assessments and Examination

Sessional Work: 25 marks
Midterm Exam: 35 marks
Final term Exam: 40 marks