

Semester	6		
Course code	ZOOL 32552		
Course Name:	Parasitology		
Credit Value:	2		
Core/Optional	Optional for the BSc Degree programme. Compulsory for the BSc (Honours) Degree programme in Zoology.		
Pre requisites	ZOOL 12523		
Co-requisites	None		
Hourly Breakdown	Theory	Practical	Independent Learning
	22	16	62
Course Aim/Intended Learning Outcomes:			
After completion of the course unit, the student will be able to;			
<ul style="list-style-type: none"> ➤ describe the host parasite relationship, and the definitions used in parasitology, ➤ identify the parasites of the human and domestic animals, ➤ describe the pathogenicity of the diseases caused by parasites of human and domestic animals, ➤ explain the modes of transmission of parasites and their sources, ➤ describe the epidemiology of the parasitic diseases and recommend preventive measures, ➤ demonstrate practical skills to identify life cycle stages of parasites, and ➤ explain the use of immunoassays, DNA probes (hybridization technique) and PCR based techniques used to identify life stages of the parasites, 			
Course Content:			
Introduction to Parasitology. morphology, life cycle and mode of infections of parasites of gastrointestinal and urino-genital tracts, blood and tissues of human and domestic animals including amoebic parasites, flagellated parasites, apicomplexans, ciliate parasites, nematodes, flukes and tapeworms; arthropod vectors responsible for transmission of infections, epidemiology of parasitic diseases and preventive measures; Different techniques used to identify parasites including morphological methods, immunoassays, DNA probes (hybridization technique) and PCR based techniques.			
Practical sessions on identification of life cycle stages of parasites of human and domestic animals. Parasite survey of rumen/ intestine/liver of cattle, preservation of parasites; identification of cysts and helminth eggs in stool samples; techniques used to identify parasites including immunoassays, DNA probes (hybridization technique) and PCR based techniques.			
Teaching /Learning Methods: A combination of lectures, laboratory studies, assignments, self-studies, computer based learning, and small group discussions.			
Assessment Strategy: Continuous assessment and end of semestecourse examination.			
Continuous Assessment 30%		Final Assessment 70%	
Details: Practical course 10% Theory assignments 20%		Theory (%) 50%	Practical (%) 20% Other (%) (specify) NA
Recommended reading:			
<ol style="list-style-type: none"> 1. Laboratory manual for Parasitology (2011). Department of Zoology, University of Kelaniya. 2. Liu, D. (2012). Molecular Detection of Human Parasitic Pathogens. CRC Press. 3. Lynne S.G. (2011). Diagnostic Medical Parasitology. Almere; American Soc. of Microbiology. 4. Roberts, L. Jr., J. Janovy & S. Nadler (2012). Foundations of Parasitology, 9th Edition, McGraw-Hill Science. 5. Study guide of Parasitology (2011). Department of Zoology, University of Kelaniya. 6. Sullivan, J. T. (2009). A Color Atlas of Parasitology. 			