

Semester:	06		
Course code	ZOOL 32742		
Course Name:	Parasitology		
Credit Value:	02		
Status:	Optional for the BSc degree. Compulsory for the BSc Honours in Zoology degree.		
Pre-requisite:	ZOOL 12703		
Co-requisites:	None		
Hourly Breakdown:	Theory	Practical	Independent Learning
	22	24	54
Intended Learning Outcomes:			
After completion of the course unit, the student will be able to:			
<ol style="list-style-type: none"> 1. describe the host parasite relationship, and the terminology used in parasitology, 2. explain the transmission strategies and sources of important parasite species of human and domestic animals by learning the life cycle histories, 3. describe the pathogenicity of the diseases caused by parasites of human and domestic animals, 4. discuss epidemiology of selected parasitic diseases and recommend preventive measures, 5. identify life stages of parasites based on morphological features, 6. explain the use of immunoassays and molecular based techniques in diagnosing 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, parasitic nematodes, flukes and tapeworms; arthropod vectors responsible for transmission of parasitic infections; pathogenesis, epidemiology and preventive measures of parasitic diseases; and diagnostic techniques used to identify parasites including morphological methods, immunoassays, molecular 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; identification of parasites using immunoassays.			
Teaching /Learning Methods: A combination of lectures, laboratory studies, assignments, self-studies, computer based learning, and small group discussions/presentations and case studies			
Assessment Strategy:			
Continuous assessment and end of semester course examination. Percentage given for each sub-component indicates the percent contribution to the final marks.			
Continuous Assessment 40 %		Final Assessment 60 %	

Details:		Theory	Practical	Other
Practical reports	05 %	40 %	20 %	-
Practical assignments/case studies	10 %			
Theory assignments	10 %			
Theory quizzes	05 %			
Student presentations	10 %			

Recommended readings:

1. Study guide of Parasitology (2018). Department of Zoology and Environmental Management, University of Kelaniya.
2. Laboratory Manual for Parasitology. (2018). Department of Zoology and Environmental Management, University of Kelaniya.
3. Paniker, J. (2007) Text book of Medical Parasitology 6th Edition. Jaypee Brothers Medical Publishers New Delhi.
4. Roberts, L. Jr., J. Janovy & S. Nadler (2012). Foundations of Parasitology, 9th Edition, McGraw-Hill Science.