

**Course Code** : ENCM 21552  
**Title** : Parasites, Vectors and Environmental Health  
**Pre-requisite** : ZOOL 12523  
**Co-requisite** : None  
**Status** : Compulsory, Theory cum Practical

**Learning outcomes:**

After completion of the course unit, the student will be able to;

- describe major public health problems associated with animal reservoirs, arthropod vectors and parasites in the environment,
- discuss the epidemiology of public health problems associated with parasites, animal reservoirs/arthropod vectors, and
- discuss the importance of managing the environment for prevention and management of public health issues related to animal reservoirs/arthropod vectors/parasites.

**Course content:**

Major public health problems associated with zoonotic and vector borne environmental diseases; Epidemiology of major zoonotic diseases in Sri Lanka; Cryptosporidiosis, Balantidiasis, Giardiasis; Epidemiology of major vector-borne diseases in Sri Lanka; Dengue, Malaria, Encephalitis, Filariasis; Vector surveillance; Management and prevention of zoonotic and arthropod-borne diseases, Impact of environmental changes on zoonotic and vector borne diseases, Emerging zoonotic diseases, Global trends and public health implications in emerging zoonoses, Practical sessions on identification of selected parasites and arthropod vectors associated with human health issues in Sri Lanka and vector surveillance.

**Method of teaching and learning:**

A combination of lectures, practical sessions including field studies, computer based learning, assignments, and small group discussions.

**Assessment:**

In-course assessment and end of semester examination.

**Recommended reading:**

1. Eldridge, B.F. & Edman, J.D. (2004). Medical Entomology: A text book on public health and veterinary problems caused by arthropods. Kluwer Academic Publishers, London.
2. Friis, R.H. (2010). Essentials of Environmental Health. 2<sup>nd</sup> Edition (Essential Public Health). Jones & Bartlett Learning.
3. Robinson, W.H. (2005). Urban Insects and Arachnids: A Handbook of Urban Entomology. Cambridge University Press.