Programme: M. Sc. (Zoology) Course Code: ZOO: 308 Number of Credits: 2 Effective from AY: 2018-19

Prerequisites for the	Basic working knowledge of animal parasites.	
course:	Dasie working knowledge of animal parasites.	
<u>Objective:</u>	This course will help the learner to understand the subject of parasitology, host-parasitic interaction, various protozoan, nematode, and other types of parasites.	
<u>Content:</u>	Module 1: Introduction to Parasitology: Host Parasitic interactions in health and diseases, signs and symptoms of parasitic diseases, Intestinal & Urogenital Protozoa (Parasitic Protozoa:General characters & classification of Flagellates (<i>Giardia intestinalis, Trichomonas vaginalis</i>) Ciliates (<i>Balantidium coli, Isospora belli, Cryptosporidium parvum</i>), Hemosomatic Protozoa (Free living Amoeba phase, Trypanosomes monomorphic / Polymorphic, Leishmania, Plasmodium, <i>Toxoplasma gondii</i>).	12hours
	Module 2: Nematodes: General Characters and Classifications, Intestinal Nematodes (<i>Ascaris</i> <i>lumbricoids</i> , <i>Trichinella spiralis</i> , Hook worms), Blood and tissue nematodes (<i>Wuchereria bancrofti</i> , <i>Dracunculus</i> <i>medinensis</i>), Trematodes: General Characters, systematics and pathogenecity of Liver fluke (<i>Fasciolla</i> <i>hepatica</i>), Intestinal Fluke (<i>Fasciolopsis buski</i>), Lung flukes (<i>Paragonimus westermani</i>), Blood flukes (Schistosomes), Cestodes (<i>Taenia solium</i> , <i>Dipylidium</i> <i>caninum</i>), Extra- Intestinal larval Cestodes (<i>Echinococcus</i> <i>spp</i>). Partasites of insect origin (Flies and bugs, Fleas and lice) Arachnids (ticks and mites), Crustaceans (Cyclops).	12 hours
Pedagogy:	Lectures/ tutorials/assignments/self-study	
References/Readings	 Alan H Linton, Microbes, Man and Animals. John Wiley & Sons, New York. Burton J. Bogitsh, Human Parasitology, Academic press. New York. 	
	 Leslie Collier, Albert Balows and Max Sussman, Topley and Wilson's Microbiology and microbial infections: Vol 5: Parasitology, Arnolds publ. New York, Rathnaswamy GK, A Hand book of Medical Entomology and Elementary Parasitology, S.Vishwanath Pvt.Ltd., India Shukla AN and Tyagi R, Protozoan Diseases, Anmolo publication, New Delhi. 	
Learning Outcomes	 Learner will have sufficient knowledge on parasitology, Will understand host-parasitic interaction, Will realise various protozoan, nematode, and other types of parasites 	