## M.Sc II Semester 2018-19 Value Added Course

## PARASITOLOGY

CO1	Understand the fundamental concepts of parasitism the origin and evolution of parasitic organisms.	
CO2	Analyze the structure, life cycle, mode of transmission, pathogenicity, and	
	control measures of protozoan parasites	
CO3		
	ectoparasites	
<b>CO4</b>	Explore the types and ecobiology of parasitoids, along with chemical cues, and	
	examine bacterial infections	
Unit I	Introduction: Concepts of Parasitism, Classification, Distribution	08 hrs
	and types of parasites. Origin and evolution of parasites.	
Unit II	Parasitic diseases of human importance: Structure, Life cycle,	08 hrs
	mode of transmission, pathogenicity and control of; Protozoan	
	parasites: Trichomonas, Leishmania, Trypanosoma, Plasmodium,	
	Toxoplasma. Nematoda: Ascaris, Ancylostoma, Strongyloides,	
	Trichuris, Enterobius, Waucheraria	
	Thendris, Enterobius, watcheraria	
Unit II	Ectoparasites : Habitat, Life cycle, Pathogenicity and Prevention of	08 hrs
	: (a) Fleas, (b) Mites, (c) Ticks, (d) Lice. (e) Mosquitoes, (f)	
	Houseflies.	
	Host- Parasitic Relationship: Cellular, Physiological,	
	Immunological, Molecular, Social, Behavioural aspects, Larval	
	migrants	
Unit IV		08 hrs
	examples.	00 111 5
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	Bacterial Infection: Cholera, Tuberculosis. Diphtheria, anthrax,	
	Typhoid, Tetanus, Leprosy. Viral Infection: Rabies	

## **References:**

1. Smyth, J.D 2000. Animal Parasitology, Cambridge low Edition.U.K.

2. Arira, D.R. And Arora, B. 2001. Medical parasitology. 1st Edition. Satish kumar jain for CBS Publisher ad Distributors, New Delhi.

3. Chatterjee, K.D. 2001. Parasitology (Protozoology and Helminthology). 12th Edition. Chatterjee Medical Publishers, Calcutta.

4. Thomas C. Cheng. 1999. General Parasitology. 2nd Edition. Acdemic Press, California.

5. Sobti,R.C.1999. Medical Zoology. Shoban Lal Nagin Chand & Co. Jalandhar. India.