

## PARASITOLOGY

Semester	Subject Code	Category	Lecture		Theory		Practical	Credits
			Hrs/week	Total Hours/Semester	Hrs/week	Total Hours/Semester		
II		Elective-II	3	45	3	45	Nil	3

### COURSE OBJECTIVES

- To gain knowledge on types of parasites and lifecycle.
- To study the mode of transmission diseases and to know about the parasites diseases.

### COURSE OUTCOMES

On the successful completion of the course, students will be able to:

CO Number	CO Statement	Knowledge Level (K1-K4)
CO1	To understand about the types and transmission of parasites.	K2
CO2	To analyze the lifecycle ,mode of transmission and treatment of viruses.	K4
CO3	To understand about the definition ,types and control of vectors.	K2
CO4	To acquire knowledge about the Protozoa & Cestoda parasites.	K4
CO5	To understand about the Trematoda & Nematode parasites.	K2

Knowledge Level : K1-Remember ; K2 –Understand ; K3 – Apply ; K4 – Analyze

### MAPPING WITH PROGRAMME OUTCOMES

COS	PO1	PO2	PO3	PO4	PO5
CO1	S	M	M	M	S
CO2	M	S	S	S	M
CO3	S	S	S	M	S
CO4	S	S	M	S	M
CO5	S	S	S	S	S

S- Strong; M – Medium; L- Low

DISTRIBUTION OF MARKS: THEORY 100%

**UNIT-I****9 Hours**

Introduction of parasites-Types of parasites ,types of hosts ,inter relationship between host and parasite. Responses and hosts to parasitic infection ,mode of transmission of parasite, host specificity and parasitic adaptation.

**UNIT-II****9 Hours**

Vibrio cholera-life cycle, mode of transmission ,infection and treatment. Yersinia pestis-life cycle, mode of transmission, infection and treatment. Influenza and H1N1 viruses- life cycle, mode of transmission, infection and treatment. Dengue- life cycle, mode of transmission ,infection and treatment

**UNIT-III****9 Hours**

Vectors –definition, types of vector, Arthropod vector of medical and veterinary importance- Sand flies, mosquitoes horse flies and Rat flea, ticks, mites and vector control.

**UNIT-IV****9 Hours**

Study of parasites from Protozoa & Cestoda

Trypanosoma of humans,

Intestinal flagellates Giardia

General lifecycle of cestodes: Taenia.

**UNIT- V****9 Hours**

Study of parasites from Trematoda & Nematoda: Schistomata, Fasciola. Nematodes: Wuchereria , Ancylostoma, Plant nematodes: Cyst nematode.

**TEXT BOOKS**

S.NO	AUTHORS	TITLE	PUBLISHERS	YEAR OF PUBLICATION
1.	Bogitsh, B. J. Cheng, T. C.	Human Parasitology. 2nd Ed	Academic Press, New York.	2000
2.	Cheng, T. C	General Parasitology. 2nd ed	Academic Press, Inc. Orlando.U.S.A.	1986
3.	Cox, F. E. G.	Modern Parasitology. 2nd ed.	Blackwell Scientific Publications. Lea and Febiger, Philadelphia	1993
4.	Hati, A. K.	Medical Parasitology. Allied Book	Allied Book Agency, Kolkata.	2001
5.	Smyth, J. D.	Animal Parasitology. 3rd ed.	Cambridge University Press.	1994
6.	Schmidt, G. D.	Essentials of Parasitology	Wm. C. Brown Publishers (Indian print;1990, Universal Book Stall).	1989

## REFERENCE BOOKS

S.NO	AUTHORS	TITLE	PUBLISHERS	YEAR OF PUBLICATION
1.	Chandler, A. C. and Read. C. P	Introduction to Parasitology, 10th ed.	John Wiley and Sons Inc	1961
2.	Chatterjee, K. D.	Parasitology	(Protozoology and Helminthology). 13th ed. CBS	1981
3.	Noble, E. R. and Noble G. A.	Parasitology. The Biology of animal Parasites. 6th ed	Lea and Febiger, Philadelphia.	1989
4.	Roberts, L. S., Janovy, J. and Nadler S. Gerald D. Schmidt & Lary S.	Roberts' Foundation of Parasitology. 9th ed	McGraw-Hill International, Johns Hopkins University	2013
5.	Schmidt, G. D. and Roberts, L. S.	Foundation of Parasitology. 3rd ed	McGraw Hill Publishers. Dubuque, Iowa.	2001

## WEB SOURCES:

[www.sciencemag.com](http://www.sciencemag.com)

[www.treehugger.com](http://www.treehugger.com)

[www.nature.com](http://www.nature.com)

## TEACHING METHODOLOGY

- Class room teaching
- Assignments
- Discussions
- Home test
- PPT Presentations
- Demonstration from the Video slides, videos and interactive software.

## SYLLABUS DESIGNERS

- Dr D.Sasikala, Assistant Professor & HOD
- Dr.V.Kiruthiga, Assistant Professor
- Dr V.Rekha, Assistant Professor
- DrA.Vinodhini, Assistant Professor
- Dr.G.Vidhya, Assistant Professor
- Dr. S. Vijayakumari, Assistant Professor