CORE VII

MEDICAL PARASITOLOGY, MYCOLOGY AND ENTOMOLOGY

Semester	Subject code	Category	Lecture		Theory		Practical		Credit
			Total hrs	Hrs/ week	Total hrs	Hrs / week	Total hrs	Hrs/ week	
III		Core	75	5	75	5	0	0	4

COURSE OBJECTIVES

To enable the students to understand the fungi and parasite that causes infections to human being.

COURSE OUTCOMES

On the successful completion of the course, students will be able to understand the fungi and parasite that cause infections to animals and plants and its mode of transmission through vectors

CO Number	CO Statement	Knowledge Level K1 – K4)
CO1	To understand how the parasites are classified and its cultivation; to analyze the pathogenesis of parasitic infections	**K1**
CO2	To understand how the different types of parasites cause different type of infections and its diagnosis	**K2**
CO3	To remember the classification of fungi and the immune response of host to fungal infection; about mycotoxins and antifungal agents	**K1**
CO4	To understand different types of fungal infection	**K2**

	based on site of infection.	
CO5	To analyze the vectors which transmit different types of parasitic diseases and how it should be control	**K4**

MAPPING WITH PROGRAMME OUTCOMES:

COS	**PO1**	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**
CO1	M	M	M	M	M	M
CO2	M	M	M	M	M	M
CO3	M	M	M	M	M	M
CO4	M	M	M	M	M	M
CO5	M	M	M	M	M	M

S- Strong; M- Medium; L-Low

Unit-I: Parasites Introduction 12 hrs

Classification and laboratory techniques in parasitology, cultivation of parasites. Structure, Pathology, Diagnosis and treatment of *Entamoeba, Plasmodium, Leishmania, Trypanosoma, Giardia, Trichomonas, Balantidium, Toxoplasma, Cryptosporidium.*

Unit- II Parasitic Helminths 12 hrs

Taenia, Fasiola, Paragonimus, Schistosoma, Ascaris, Ancylostoma, Trichinella, Enterobius, Strongyloides, Wuchereria.

Unit -III Introduction to fungi 12 hrs

Morphology, Taxonomy, classification of Fungi – Macrofungi- Morphology, characteristics and human use. Mycotoxins. Immunity to fungal infections - Antifungal agents - sensitivity tests.

Unit - IV Mycosis **12 hrs**

Superficial mycosis: Tinea, Piedra, Cutaneous mycosis: Sporotrichosis. Mycetoma. Systemic mycosis: Coccidiosis, Histoplasmosis, opportunistic mycosis: Candidiosis, Cryptococcosis, Aspergillosis, Zygomycosis.

Unit -V Entomology **12 hrs**

Arthropods of medical importance. Biology and life cycle of mosquitoes, lice, flies, ticks, mites, fleas. Mode of transmission of pathogens by vectors, chemical, biological and environmental control of vectors.

DISTRIBUTION OF MARKS: Theory **-** 100% and Problems – Nil

TEACHING METHODOLOGY:

- **Lectures**
- **Power point presentation**
- **Charts**
- **Models**
- **Group discussion**
- **Group assignments**
- **Seminars**

TEXT BOOKS:

S.No	**Authors**	**Title**	**Publishers**	**Year Of Publication**
1.	Karyakarte RP and AS Damle	Medical Parasitology Revised edition	3rd edition Books and Allied Pvt Ltd	2012
2.	Alexopoulos C.J and C.W. Mims	Introduction to Mycology (3rd) edition)	4th edition Wiley Eastern Ltd.	2007

REFERENCE BOOKS:

S.No	Authors	Title	Publishers	Year Of Publication
1.	Subhash Chandra Parija.	Textbook of Medical Parasitology	All India Publishers and Distributors, India.	2013
2.	Mehrotra RS and Aneja KR	An Introduction to Mycology	New age International Pvt Ltd.	2015
3.	Easwari Nayar	Handbook On Medical Entomology	Kalpana printing house, LHI	1974
4.	W.R.Arora	Medical Parasitology	4th edition CBS Publishers & Distributers. New Delhi.	2015
5.	Jagdish Chander	Textbook of Medical Mycology	Jaypee Brothers Medical Publishers, India	2017

WEB REFERENCE:

http://pathmicro.med.sc.edu/book/mycol.sta.htm.

http://www.mycology adelaide.edu.au/fungal jungle/master class.html.

http://classes.plant path.Wsu.edu/plp521/

http:/www.k-state.edu/book/parasit-sta.htm.

http://www.dpd.cdc.gov/dpdx/.

http://www.who.int/tdr/media/default.html

SYLLABUS DESIGNER:

1. Ms. R.Sangeetha, Assistant Professor
2. Dr. A.Vidhya HOD & Assistant Professor