

Scientific content and requirements of PARA 607

Level	week	subject	Credit units	Lecture hrs	Practical hrs	SDL hrs
FIRST SEMESTER = 5 CREDIT UNITS (60 HRS LECTURE + 30 HRS PRACTICAL)	1	Introduction to Parasitism	11 credits	2		
		The Parasite’s ways of life		2		
	2	Host Defense and Parasite Evasion (1)		2		
		Host Defense and Parasite Evasion (2)		2		
	3	Parasite Versus Host: Pathology and Disease		2		
		Classification and taxonomy of human parasites.		2		
	OVERVIEW OF MEDICALLY IMPORTANT HELMINTHIC PARASITES					
	4	Trematoda: Schistosomes		2	3	
				2		
	5	Trematoda: Fasciola, Fasciolopsis; Heterophyes		2	3	
		Trematoda: Paragonimus, Metagonimus.		2		
	6	Trematoda: Heterophyes ; Gastrodiscoides.		2	3	
		Trematoda: Opithorchis, Clonorchis.		2		
	7	Trematoda: Echinostoma ; Dicrocoelium		2	3	
		Helminthology: Cestoda: Diphyllbothrium and sparganosis		2		
	8	Cestoda: Taenia (saginata, solium & multiceps)		2	3	
		Cestoda: Hymenolepis, Dipylidium		2		
	9	Cestoda: Echinococcus		2	3	
		Nematoda: Ascaris; Hookworm.	2			
	10	Nematoda: Strongyloides and Trichostrongylus	2	3		
		Nematoda: Entrobilus, Trichuris	2			
	11	Nematoda: Toxocara, Trichinella	2	3		
		Nematoda: Filaria: Wuchereria spp	2			
	12	Nematoda: Filaria: Onchocerca spp	2	3		
		Nematoda: Filaria: Loa loa	2			
	13	Nematoda: Other filaria and Medina worm	2	3		
		Nematoda: Capillaria, Thelazia	2			
	14	Nematoda: Gnathostoma & Anisakis.	2			
		Pregnancy and helminthic infections	2			
	15	Pros and cons of preventive chemotherapy	2			
		Efficacy of recommended drugs against soil transmitted helminths	2			

SECOND SEMESTER = 6 CREDIT (60 LECTURE + 60 PRACTICAL)	Overview of Medically Important Protozoa				
	16	Introduction; Amoeba	2	4	
		Free living amoeba.	2		
	17	Flagellates: introduction ; Leishmania	2	4	
			2		
	18	Flagellates: Trypanosoma	2	4	
			2		
	19	Flagellates: Giardia lamblia ; Trichomonas vaginalis	2	4	
		Ciliates: Introduction ; Balantidium coli	2		
	20	Apicomplexa: Plasmodium	2	4	
			2		
	21	Apicomplexa: Toxoplasma.	2	4	
			2		
	22	Apicomplexa: Cryptosporidium, Sarcocystis	2	4	
		Apicomplexa: Cyclospora; Isospora; Microspora; Blastocystis.	2		
	Overview of medically important arthropods				
	23	Introduction	2	4	
		Mosquitoes	2		
	24	Flies	2	4	
		Myiasis	2		
	25	Fleas	2	4	
		Ticks & Lice	2		
	26	Mites	2	4	
		Bugs & Cyclops	2		
	Parasite epidemiology				
	27	The epidemiology of parasites (introduction)	2	4	
		Vector and snail control.	2		
	Diagnostic parasitology				
	28	- Direct examination techniques (1)	4	4	
	29	- Direct examination techniques (2)	4	4	
	30	- Diagnosis of arthropods infestation and infection.	4	4	
		- Overview of indirect techniques (Immunological, molecular and imaging).			

THIRD SEMESTER = 5 credit	Self-directed learning (SDL)				
	31-32	SDL 1 (to be assigned by the Dept.)	5 credits		10
	33-34	SDL 2 (to be assigned by the Dept.)			10
	35-36	SDL 3 (to be assigned by the Dept.)			10
	37-38	SDL 4 (to be assigned by the Dept.)			10
	39-40	SDL 5 (to be assigned by the Dept.)			10
	41-42	SDL 6 (to be assigned by the Dept.)			10
	43-45	Final written exam. (2 papers 3 hrs. each). Oral exam. Practical exam.			6 4 5
Log Book (course requirements; 14 credit hours): - Attendance of at least 12 of parasitology department seminars. - Attendance of at least 2 workshop relevant to parasitology. - Attendance of at least 2 scientific conferences relevant to parasitology. - Attendance of thesis defense seminar that hold in Parasitology Department. - Publishing a scientific paper in peer reviewed periodical. - Preparation of permanent prepared parasites specimens. - Handout illustrations booklet of practical lessons.			4 credits. 2 credits. 1 credit. 1 credit. 2 credits. 2 credits. 2 credits.		
Total teaching hours = 285			30 credits	120	90
					75