



Department of Pathological Analysis

College of health science

Paitaxt institute

Subject: Basic Parasitology

Course Book – Second year's Theory and Practices

Academic Year: 2023/2024

Course Book

1. Course name	Basic parasitology
2. Lecturer in charge	
3. Department/ College	Pathological Analysis/ Health science
4. Contact	
5. Time (in hours) per week	For example Theory: 2 Practical: 2
6. Office hours	Availability of the lecturer to the student during the week
7. Course code	PAD014
8. Teacher's academic profile	PhD in vector borne disease\ external parasitology\ collage of science, biology dep. Mosul university, Iraq
9. Keywords	Basic parasitology, Endoparasite, Ectoparasite, Host, symbiosis.
10. Course overview: This course aimed to provide a comprehensive theoretical and practical knowledge of medical parasitology including the Morphology of parasites, diagnostic, lab safety, precautions, test procedure and infective stages, mode of transmission, signs and symptoms and treatment of disease and disorders caused by parasites. After the semester the student were able to recognize the laboratory test names, have enough knowledge about eat test procedure and how deal with the sample received to the lab, the student well be familiar with microscope, the part name, how use it, how to find the field and recognized the type of parasite under the microscope.	
11. Course objective: Up on completion of the course the students will: 1. Have advanced knowledge on systematic of medical parasitology. 2. Be able to understand structure, diagnostic features of parasites. 3. Have advanced skills on practical methods of collecting and processing samples for detecting of parasitic causative agents.	
12. Student's obligation 1-The student attention in all theoretical and practical lectures in academic year.	

- 2- Completion of all tests.
- 3- Attendance in exams
4. Write or prepare reports.
5. Group work
6. Make research paper by group
7. Applied the 21centure Academics teaching method on the students

13. Forms of teaching

Lecture –Main aim-highlight the problem, make sure students understand information, stimulate interest to the subject. Dialogue form of classroom work on one of the topics Use of power point presentations, boarding, and conferences, also practise the 21centure academic teaching method.

14. Assessment scheme

Breakdown of overall assessment and examination:

- 1- Practical examine 15%.
- 2- Theoretical examine 15%.
- 3- Attendance 10%
- 4- Activities 10%.
- 5- Final practical examine 30%.
- 6- final theoretical examine 20%

15. Student learning outcome:

1. On successful completion of this program, graduates will be able to:
2. Identify, evaluate and apply major theoretical traditions in medical parasitology studies.
3. Understand how parasites cause disease.

After the semester the student were able to recognize the laboratory test names, have enough knowledge about eat test procedure and how deal with the sample received to the lab, the student well be familiar with microscope, the part name, how use it, how to find the field and recognized the type of parasite under the microscope.

16. Course Reading List and References:

- Text book of Medical Parasitology, 11 th edition
- Color Atlas of Parasitology, Practical Microscopic and Clinical Diagnosis, Harald Theml,M.D.

17. The Topics:

**Lecturer's
name**

topics			Dr.Khalis Ahmed Theory (2 hr) Practical (2 hr)
18. Theoretical topics and Practical Topics (If there is any)			
1 st Course (15 weeks)	Theoretical topics	Practical topics	
1-2	Introduction to parasitology SOURCES OF INFECTION PORTAL OF ENTRY INTO THE BODY	Introduction of the parasitology, laboratory technique and Procedure, Lab Safety, Microscopic uses. Urine analysis, macroscopic and microscopic examination of the urine, chemical examination of urine.	
3-4	Introduction to protozoology, Entamoeba species. Free living Amoeba.	General stool examination Preservation of stool samples	
5-6	THE FLAGELLATES (<i>Intestinal flagellates/ Giardia lamblia</i> , Trichomans Species. Blood and tissue flagellates)	Concentration techniques Classification of protozoa	
7-8	Leishmania species. Trypanosoma species	E. histolytica (trophozoite & Cyst). E. coli (trophozoite & Cyst). Balantidium coli (trophozoite & Cyst). Giardia lamblia (trophozoite & Cyst).	
9-10	Apicomplexa/ Plasmodium species , Intestinal apicomplexa/ Cryptosporidium	Trichomonas vaginalis (trophozoite). Trichomonas hominis (trophozoite). Leishmania spp. (amastigote & promastigote). Female of sand fly.	
11-12	Ciliata / Blantidium coli , Tissue flagellates/ Toxoplasma gondii	Plasmodium spp (Ring- forms trophozoite, Schizont, Gametocyte) Female of mosquito	
13-14	Microsporidian	Free living amebae Opportunistic tissue protozoa	

		Babesia spp, Blastocystis spp Dientamoeba fragilis	
19. Examinations: 1. Compositional: Explain: What is parasite? Why some of parasite are ectoparasite? 2. True or false type of exams: All parasite are unicellular? 3. Multiple choices: Protozoa is a? A. Arthropod B. Multicellular C. Unicellular D. endoparasite			
20. Extra notes: Increasing students' activities by making seminars is highly recommended.			
21. Peer review The contests of this course book are verified and totally effective.			