

Course plan

Year: 1404-1405	Semester: <input type="checkbox"/> First, <input checked="" type="checkbox"/> Second, <input type="checkbox"/> Summer	Number of students: 5
Major: Master students of Medical Parasitology	<input checked="" type="checkbox"/> Basic sciences, <input type="checkbox"/> Physiopathology	Department: Parasitology, Mycology & Entomology
Course Title: Medical Protozoology 2	<input type="checkbox"/> Theoretical, <input checked="" type="checkbox"/> Practical	Credit: Code N.:
Prerequisite: Medical Protozoology 1	Day & Time:	Course type: Theoretical
Instructor:	Office address:	Tel: 038-33335635
Email: saedi1358@gmail.com	Response Hours and Days: 34 hours	Student representative name and mobile number:

Main objective: Understanding the theoretical aspects of blood and tissue protozoa pathogenic to humans and common infections between humans and animals , Classification, morphological characteristics, medical and health importance, epidemiology, geographical distribution and modes of transmission of parasites, evolutionary history, The role of parasites in causing common infections between humans and animals, pathogenesis, laboratory diagnostic methods, principles of control, prevention, and treatment, Diseases caused by the protozoa in question. Finally, explaining advanced concepts and understanding of blood and tissue protozoa

On completion of this course, the student will be able to:

- 1- Name blood and tissue protozoa, classify them, and explain their medical and health importance.
- 2- Describe the general characteristics, morphology, and physiology of blood and tissue protozoa.
- 3- Name the geographic distribution centers of blood and tissue protozoa and explain the epidemiology of the diseases caused by them.
- 4- Describe the evolutionary process of human blood and tissue protozoa and draw it in a diagram and identify the infectious, pathogenic, and diagnostic stages of the parasite in the external environment and in the host body.
- 5- Describe the pathogenic mechanisms of the protozoa in question and the pathology caused by them.
- 6- Name the clinical signs and complications caused by the protozoa in question and explain the host's immune mechanisms against them.
- 7- Name the methods for diagnosing diseases caused by the protozoa in question.
- 8- Name the most common drugs used in the treatment of diseases caused by them.
- 9- Explain the methods of control and prevention of diseases caused by the protozoa in question.

References (Text books):

1. Schmidt G.D; Roberts L.S. Foundations of Parasitology.8th Edition. 2010. McGraw Hill Company. Boston .USA
2. Cox FEG; Wakelin D ; Gillespie SH ; Despommier DD. Topley and Wilson's Microbiology and Microbial infections.10th edition.2005,Vol. 5.0,Hodder Arnold, London. Great Britain.

Student evaluation and the value related to each evaluation:

(The assessment tools that will be used to test student ability to understand the course material and gain the skills and competencies stated in learning outcomes)

ASSESSMENT TOOLS	From
Assignments	1
Quiz	1
Presence in online courses	---
Midterm Exam	8
Final Exam (Written exam)	10
TOTAL MARKS	20

Students responsibilities:

It is applied according to the regulations of the educational regulations, Regular class attendance

Row	date	Time	Topic	Professor	References	Chapter	Pages
1	20.09.2025	8-10	Getting to know the students, introducing the course and how it is held, students' duties, and reviewing common concepts and terms and generalities of medical parasitology in the field of blood and tissue protozoa.	Dr saedi	Foundations of Parasitology, Topley and Wilson's Microbiology		
2	27.09.2025	8-10	Introduction to the structural characteristics, physiology, and classification of protozoa of the genus Plasmodium.	Dr saedi	Foundations of Parasitology, Topley and Wilson's Microbiology		
3	04.10.2025	8-10	Continued discussion of parasites that cause human malaria, life cycle, morphological forms and epidemiology of the disease in Iran and the world	Dr saedi	Foundations of Parasitology, Topley and Wilson's Microbiology		
4	11.10.2025	8-10	Malaria drug treatments and drug resistance	Dr saedi	Foundations of Parasitology, Topley and Wilson's Microbiology		
5	18.10.2025	8-10	Introduction to the structural characteristics, physiology, and classification of protozoa of the genus Babesia	Dr saedi	Foundations of Parasitology, Topley and Wilson's Microbiology		
6	25.10.2025	8-10	Familiarity with the structural characteristics, physiology, and classification of protozoa of the genera Theileria, Hemoproteus, and...	Dr saedi	Foundations of Parasitology, Topley and Wilson's Microbiology		
7	01.11.2025	8-10	Familiarity with the structural characteristics, physiology, and classification of other blood and tissue protozoa	Dr saedi	Foundations of Parasitology, Topley and Wilson's Microbiology		
8	08.11.2025	8-10	Introduction to the structural, physiological, and classification characteristics of protozoa of the genus Leishmania, the causative agents of cutaneous and mucocutaneous leishmaniasis.	Dr saedi	Foundations of Parasitology, Topley and Wilson's Microbiology		
9	15.11.2025	8-10	Introduction to the structural, physiological, and classification characteristics of protozoa of the genus Leishmania, the causative agent of visceral leishmaniasis.	Dr saedi	Foundations of Parasitology, Topley and Wilson's Microbiology		
10	22.11.2025	8-10	Introduction to the structural characteristics, physiology, and classification of protozoa of the genus Leishmania.	Dr saedi	Foundations of Parasitology, Topley and Wilson's Microbiology		
11	29.11.2025	8-10	Introduction to the structural characteristics, physiology, and classification of protozoa of the genus Toxoplasma	Dr saedi	Foundations of Parasitology, Topley and Wilson's Microbiology		
12	06.12.2025	8-10	Continue reading about Toxoplasma gondii	Dr saedi	Foundations of Parasitology, Topley and		

					Wilson's Microbiology		
13	13.12.2025	8-10	Introduction to the structural characteristics, physiology, and classification of protozoa of the genus Sarcocystis	Dr saedi	Foundations of Parasitology, Topley and Wilson's Microbiology		
14	20.12.2025	8-10	Diagnostic features and immunological issues related to blood and tissue protozoa	Dr saedi	Foundations of Parasitology, Topley and Wilson's Microbiology		
15	27.12.2025	8-10	Familiarity with molecular methods used in the diagnosis and research processes of the parasites mentioned in previous sessions	Dr saedi	Foundations of Parasitology, Topley and Wilson's Microbiology		
16	03.01.2026	8-10	Student seminar	Dr saedi			
17	Based on the program		Final exam				