

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 practical Protozoology 2	<input type="checkbox"/> Theoretical, <input checked="" type="checkbox"/> Practical	Credit: Code N.:
Prerequisite: Medical practical Protozoology 1	Day & Time:	Course type: Practical
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 practical and diagnostic aspects of blood and tissue pathogenic protozoa in humans and common infections between humans and animals, Diagnostic features and traditional and modern diagnostic techniques

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

- 1- Be familiar with the morphological characteristics and methods of diagnosis of blood and tissue protozoa and be proficient in traditional and modern diagnostic methods.
- 2- Describe the appearance characteristics, sampling methods, and diagnostic evaluations.
- 3- Describe molecular methods for diagnosing blood and tissue protozoa.
- 4- Describe traditional methods for diagnosing blood and tissue protozoa.
- 5- Be aware of the mechanisms of setting up blood and tissue protozoa diagnostic tests.
- 6- Name the clinical signs and complications caused by the protozoa in question and describe the host's immune mechanisms against them.
- 7- Name the various methods for diagnosing blood and tissue protozoa.

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.
3. Markell EK; John DT; Krotoski WA. Markell and Voge's Medical Parasitology, 2006, 9th edition. W.B. Saunders Company. Philadelphia. USA.

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	---
Final Exam (Written exam)	18
TOTAL MARKS	20

Row	date	Time	Topic	Professor	References	Chapter	Pages
1	20.09.2025	10-12	Introduction to the parasitology laboratory, how to work and maintain a microscope, and essential tools in the parasitology laboratory	Dr saedi	Diagnostic Medical Parasitology, fourth edition, Lynne Shore Garcia		
2	27.09.2025	10-12	Working methods in a parasitology laboratory, requirements for receiving samples, reporting methods in a parasitology laboratory	Dr saedi	Diagnostic Medical Parasitology, fourth edition, Lynne Shore Garcia		
3	04.10.2025	10-12	Sampling techniques, thin and thick slide preparation methods, and slide staining	Dr saedi	Diagnostic Medical Parasitology, fourth edition, Lynne Shore Garcia		
4	11.10.2025	10-12	Microscopic examination of malaria slides by students in the presence of the instructor and group expert	Dr saedi	Diagnostic Medical Parasitology, fourth edition, Lynne Shore Garcia		
5	18.10.2025	10-12	Methods for determining parasite burden and examining drug resistance and its laboratory evaluation methods	Dr saedi	Diagnostic Medical Parasitology, fourth edition, Lynne Shore Garcia		
6	25.10.2025	10-12	Explanation of slides for Babesia, Theileria, and other blood parasites and observation of the relevant slides	Dr saedi	Diagnostic Medical Parasitology, fourth edition, Lynne Shore Garcia		
7	01.11.2025	10-12	Explanation of different serological methods for diagnosing Toxoplasma gondii, including the ELISA method, and its implementation in a group.	Dr saedi	Diagnostic Medical Parasitology, fourth edition, Lynne Shore Garcia		
8	08.11.2025	10-12	Explanation of different serological methods for diagnosing Toxoplasma gondii, including the ELISA method, and its implementation in a group.	Dr saedi	Diagnostic Medical Parasitology, fourth edition, Lynne Shore Garcia		
9	15.11.2025	10-12	Explanation of diagnostic methods, sampling, staining, and diagnosis of cutaneous and visceral leishmaniasis	Dr saedi	Diagnostic Medical Parasitology, fourth edition, Lynne Shore Garcia		
10	22.11.2025	10-12	Explanation of serological diagnosis methods for visceral leishmaniasis	Dr saedi	Diagnostic Medical Parasitology, fourth edition, Lynne Shore Garcia		
11	29.11.2025	10-12	Explanation of methods for culturing, preserving, cryopreserving, and passage of Leishmania parasites in research work	Dr saedi	Diagnostic Medical Parasitology, fourth edition, Lynne Shore Garcia		
12	06.12.2025	10-12	Explanation of methods for diagnosing Trypanosoma parasites, examination of relevant slides	Dr saedi	Diagnostic Medical Parasitology, fourth edition, Lynne Shore Garcia		
13	13.12.2025	10-12	Microscopic examination of Leishmania and Trypanosoma slides in the presence of the professor and group expert by students	Dr saedi	Diagnostic Medical Parasitology, fourth edition, Lynne Shore Garcia		
14	20.12.2025	10-12	Explanation of histopathological sections of blood protozoa and methods of preparation and reporting	Dr saedi	Diagnostic Medical Parasitology, fourth edition, Lynne Shore Garcia		
15	27.12.2025	10-12	Molecular methods for the detection of blood and tissue protozoa	Dr saedi	Diagnostic Medical Parasitology, fourth edition, Lynne Shore Garcia		
16	03.01.2026	10-12	Review and review of all blood and tissue protozoa slides	Dr saedi			
17	Based on the program		Final exam				