KOMAR UNIVERSITY OF SCIENCE AND TECHNOLOGY
(KUST)

Medical parasitology			
Course Title	**Medical Parasitology**		
Course Code	MLS3320	No. of Credits	3
Department	Medical Laboratory Science	College	Science
Pre-requisites Course Code	Introduction to Microbiology and Lab MLS2405C	Co-requisites Course Code	
Course Coordinator(s)	Dr. Abdullah A. Hama		
Email	abdullah.hama@komar.edu.iq	IP No.	
Other Course Teacher(s)/Tutor(s)	Non		
Learning Hours	Sunday, Tuesday (8:00-9:30) –S1 Sunday, Tuesday (16:00-17:30) –S2		
Contact Hours	Sunday 9:30 – 11:30 Tuesday 15:00- 16:00		
Course Type	Departmental course		
Offer in Academic Year	Spring 2016		

COURSE DESCRIPTION

The Medical Parasitology course provides an overview of the human parasites and their diseases. Topics include the basic concept of protozoan parasite classes, Sarcodina, Flagellate ciliate, sporozoa and medical helminthology. Special emphasis is placed on topics that related to humans health such as host-pathogen interactions and laboratory diagnostic methods.

COURSE OBJECTIVES

This course is designed to:

The aim of the course is to develop basic knowledge and skill to identify the parasites, the diseases caused by them and emphasize on the laboratory diagnosis tool for detection of different stages of parasites.

COURSE LEARNING OUTCOMES

After participating in the course, students would be able to:

1. Define and classify the medically important parasites based on morphology, biology and clinical criteria
2. Describe the life cycle, morphology, infective stage stages, diagnosis stage, sources of infection and mode of transmission of each parasite with a view of prevention and control of parasitic diseases.
3. Identify the parasites at different stages of life cycle, their vectors and hosts by microscopic examination.
4. Identify the deferent larval stages of the parasites during life cycle and pathogenesis steps.
5. Apply suitable methods for parasites detection.
6. Use applicable tools for parasitic disease control and prevention.
7. Combine between vectors and parasitic disease to make a good control plan.

GUIDELINES ON GRADING POLICY

Points	Percentage Scores	Grade
A A-	95–100 90-94	4.0 3.7
B+ B B-	87–89 83-86 80-82	3.3 3.0 2.7
C+ C C-	75–79 70-74 65-69	2.3 2.0 1.7
D+ D D-	60–64 55-59 50-54	1.3 1.0 0.7
F	0–49	0
I	Incomplete Course Work	
W	Official Withdrawal	

COURSE TEACHING AND LEARNING ACTIVITIES

This course is scheduled for 3 hours per week in two equal split over two different days. The complete semester composed of 15 instructional weeks followed by one week of final exam. Instructional methods will include:

- Lectures.
- Class discussions and presentations.
- Written activities.
- PowerPoint presentations and Videos.
- Online learning tools.

COURSE ASSESSMENT Tools

Assessment Method		Assessment Weight
Quizzes	Students will take six quizzes over the course and the highest five quiz marks will be counted toward your final grade	10%
Class activity	Student's attendance and participation during the lecture including lecture presentation, asking/answering question, etc. will be considered and rewarded throughout the course.	5%
Homework	Students will prepare at least 2-3 reports along the entire course	10
Test (2)	During the course schedule, students will take two tests, one before and one after the Mid-term Exam.	20%
Midterm Exam	There will be no classes during this week. Students will take a central Mid-term Exam organized and supervised by the Exam Committee.	25%
Final Exam	The exam will be close book and no materials are allowed, except those permitted by the exam committee.	30%
Total		**100%**

Grading: **Passing Grade 65%**

ESSENTIAL READINGS: (Journals, textbooks, website addresses etc.)

Textbooks:

Name of the Textbook: Parasitology for medical and clinical laboratory professionals

Authors: John W. Ridley

Publisher: Delmar Cengage learn

ISBN: 978-1-4354-4816-2

Year: 2012

References:

1.Title: Medical Parasitology

Authors: Arora and Arora

Edition: Third

ISBN: 978-81-239-1850-1

Year:2011

2. Title: Medical Parasitology

Authors: Abhay R. Satoskar; Gary L. Simon;Peter J. Hotez;Moriya Tsuji

Edition:1st

ISBN:978-1-57059-695-7 Library

Year: 2009.

3. Title: Medical Parasitology

Authors: Dawit Assefa, Ephrem Kibru, S. Nagesh, Solomon Gebreselassie, Fetene Deribe, Jemal Ali Jimma

Edition:1st

ISBN: 9781570596957

Year: 2004

useful link: http://www.cdc.gov/dpdx/freeLivingAmebic/dx.html

COURSE POLICY *(including plagiarism, academic honesty, attendance etc)*

KUST Academic Policy:

http://sar.komar.edu.iq/files/Student%20hand%20Book%202013.pdf

Attendance:

- Students are expected to attend **all lectures** and must attend **all tests/examinations**, quizzes, and practical exercises.
- There is no make-up work for students who miss classes without official permission.
- Students who have official permission must arrange with the instructor to make-up the missed class/test
- Students are subject to the regulation and policies mentioned in the KUST Student Handbook.
- KUST guidelines for lateness are as follows: Three occasions of lateness count as one absence. You can be considered late after 5 minutes of the lecture time. More than 5 minutes lateness can be considered as absent but you may be allowed to sit in the class.

GUIDELINES FOR SUCCESS

1. Work both independently and in groups of your peers, who can help you understand the course material**.**
2. Attend every lecture, discussion
3. Make every effort to interact with your class partner(s).
4. Try to stay active throughout the class period.
5. Don't hesitate to ask questions in class.
6. Put your fair share of efforts in preparing the term projects and the term paper.
7. Be cooperative at all times.
8. Spend at least 2-3 hours each day for studying and doing homework.

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Course Schedule					
Week	**Lec.**	**Date**	**Topic**	**chapter**	**Assignments**
1	**1a**	**Sunday**	Introduction to medical parasitology	**1**	
	1b	**Tuesday**	Protozoa and medically important classes		
2	**2a**	**Sunday**	Protozoa- Rhizopoda, Entamoeba histolytica	**2 and 3**	
	2b	**Tuesday**	Protozoa- Rhizopoda, Nonpathogenic amoeba		**Quize1**
3	**3a**	**Sunday**	Protozoa – Rhizopoda, Free living pathogenic amoebae	**3 and 12**	
	3b	**Tuesday**	Protozoa- Ciliates, Blantidum coli		
4	**4a**	**Sunday**	Protozoa- Flagellates,Giardia lamblia		**Quiz 2**
	4b	**Tuesday**	Protozoa- Flagellates Trichomonas (urogenital flagellate)		
5		**Sunday**	**Test: Lecture 1a- 4b**		
	5a	**Tuesday**	Protozoa- Kinetoplastida, Leishmaniasis	**4 and 12**	
6	**6a**	**Sunday**	Protozoa- Kinetoplastida, Trypanosomes		
	6b	**Tuesday**	Protozoa- Sporozoa, Plasmodium (Malaria.)		
7	**7a**	**Sunday**	Protozoa- Sporozoa, Toxoplasma gondii		**Quiz 3**
	7b	**Tuesday**	Protozoa- Sporozoa, Cryptosporidium sp.	**3 and 12**	
			Midterm Exam		**No class**
8	**8a**	**Sunday**	Introduction to medical helminthology	**5**	
	8b	**Tuesday**	Platyhelminthes- Cestodes ,T. sagenata and T. solium	**7 and 12**	
9	**9a**	**Sunday**	Platyhelminthes- Cestodes, Hymenolepis nana H. diminuta		**Quiz 4**
	9b	**Tuesday**	Platyhelminthes- Cestodes, Echinococcus granulosus and E. multilocularis		
10	**10a**	**Sunday**	Platyhelminthes- Cestodes Diphyllobothrium latum		
	10b	**Tuesday**	Platyhelminthes- Trematodes , Liver and Lung Flukes	**8**	**Quiz 5**
11	**11a**	**Sunday**	Platyhelminthes- Trematodes, Blood Flukes		
	11b	**Tuesday**	Nematoda- Entrobus vermicularis and Ascaris lambricoid lumbricoides	**6**	
12	**12a**	**Sunday**	Nematoda- Strongyloides stercoralis		
		Tuesday	**Test: Lecture 8a - 12b**		
13	**13a**	**Sunday**	Nematoda- Hook worm and Whipworm	**6**	
	13b	**Tuesday**	Nematoda- Filaria and filariasis		
14	**14a**	**Sunday**	Medically important arthropodes	**10 and 11**	**Quiz 6**
	14b	**Tuesday**	Arthropoda- Insects, medical important vectors		
15		**Sunday**	Revision week		
		Tuesday			
			Final Exam		

Hall: 112