TISHK INTERNATIONAL UNIVERSITY FACULTY OF APPLIED SCIENCE Department of MEDICAL ANALYSIS, -2022 Fall

Course Information for MA 301 MEDICAL PARASITOLOGY I

	Co	urso Namo	MEDICAL PARASITOLO	GYI					
					Drestical	Cuadita	ГОТО		
	ode 301	Reg	ular Semester 5	Theoretical 2	Practical 2	Credits 3	ECTS 4		
Name of Lecturer(s)			Adel Kamal - Professor Adel Kamal - Professor						
	Aca	dennic ride.	Goran Nuri - MSc						
	Teaching	g Assistant:	Omar Sardar						
		Language:							
Course Type:			Main						
			Sunday 10:00-11:00						
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			Medical microbiology						
			During Medical parasitology classes student, they learnt and earned knowledge of: 1.the life cycle, lab diagnostic, pathogenicity, treatment infective stage, intermediate and final host of most protozoa parasites. 2. life cycle, lab diagnostic, number of intermediate hosts, final host, and treatment of each cestoda, Nematode and other type of parasite worms 3.diffrent between Ectoparasits and endoparasites and pathogenicity of Ectoparasites with the life cycle and diagnostic of Ectoparasites in Kurdistan region/Iraq						
			description about differentype of disease that cause	this course student will learn general information about parasites, protozoa, and scription about different protozoa species, different forms, function of each structures, be of disease that cause, lifecycle of each species, genetic materials and treatments, preover methods that used for detection of parasites.					
			COL	JRSE CONTENT					
Week	Hour	Date	•						
1	2	4-7/10/2	•						
2	2	10-14/10/	2021 Define of parasit	tology and type para	asite and hosts				
3	2	17-21/10/	•	How parasite enter the body?					
4	2	24-28/10/	2021 Pathogenicity of	parasites					
5	2	31/10-4/11	/2021 Immunity of para	I Immunity of parasite					
6	2	7-11/11/2	2021 Laboratory diagr	Laboratory diagnosis of parasites					
7	2	14-18/11/	2021 Midterm Exam						
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Treatment and prevention of parasite infection

8

9 10

11

12

13

2

2

2

2

2

2

21-25/11/2021

28/11-2/12/2021

5-9/12/2021

12-16/12/2021

19-23/12/2021

26-30/12/2021

Midterm Exam

Taxonomy of parasites

Mastigophora (Flagellata)

Intestinal protozoa

Ciliophora

14	2	2-5/1/20)22	Haemoflagellates			
15	2	9-13/1/20	022	Final Exam			
16	2	16-20/1/2	2022	Final Exam			
				COURSE/STUDENT LEARNING OUTCOMES			
1		students know how diagnosis most and common parasites by different techniques especially immunology and molecular techniques both of techniques available in private labs.					
2		Students know what type of samples used for detecting parasites and using concentration method to detection ova of worms from stool.					
3		during detecting parasites in fresh samples. preparation and fixed those parasites in slide by Canada balsam for keeping those slide in parasitology lab for next stage students.					
4	•	using Realtime –PCR for detecting common parasites in clinical lab like T. gondii, E. histolytica, Giardia lamblia					
5	Under	standing the	general	disease concepts and the pathogenesis mechanisms			
		-		RSE'S CONTRIBUTION TO PROGRAM OUTCOMES			
	Progr	•		no contribution, I: Introduction, P: Profecient, A: Advanced)	Cont.		
1	Program Learning Outcomes Evaluate clinical laboratory data by interpreting laboratory results and relating the disease states.			I			
2		apply principles of evidence-based medicine to determine clinical diagnoses.					
3		apply the basic principles of gross and microscopic anatomy, physiology, biochemistry, immunology, microbiology/virology.					
4	formul	formulate and implement acceptable treatment modalities to various disease states.					
5	use te	use technology effectively in the delivery of instruction, assessment, and professional development					
6		exhibit essential employability qualities by demonstrating laboratory safety, analyzing laboratory results, and displaying professional conduct.					
7	exhibit	exhibit organizational skills, accountability, and ethical behavior.					
8		apply skills needed in operating laboratory equipment for testing, assessing quality assurance for la equipment, and adhering to standard safety practices in the laboratory environment.					
9		apply problem-solving and decision-making skills.		-	Α		
10		-	-	policies and regulatory standards in the field career.	Α		
11		-	1	d of medical analysis using qualitative and quantitative methods.	Α		
	Read F	ing List and References):	• Using diagram of life cycles from CDC (centre of control disease and control) website and using those books below: 1.ELlizabeth A. Zeibig (2013.) Clinical Parasitology a Practical Approach 2nd edition. Elsevier St. Louis, Missouri, USA. 2. John W. Ridley. (2012). Parasitology for Medical and Clinical Laboratory Professionals. Delmar, Cengage Learning, USA. 3. Larry, R.; John, J and Steve, N (2013). Foundations of Parasitology .9 edition McGraw Hill. Florida USA. 4.Using different Journals about medical parasitology such as: Journal of Bacteriology & Parasitology, Applied parasitology, Experimental parasitology, Parasitology international, Korean Journal of parasitology and European Journal of Parasitology with other international Journals.				
		For each student is obligated to know: 1.draw and label all stages of parasites in lab. 2.bring fresh samples of blood, urine, sputum and stool to lab. for diagnostic common parasites in Erbil such as Giardia lumblia and Entamoeba histolytica in stool, Plasmodium sp in blood, Trichomonas vaginalis in urine. 3.Atending all students in theory and practical classes are obligated					
Cou	Course Book/Textbook:		John W. Ridley. (2012). Parasitology for Medical and Clinical Laboratory Professionals. Delmar, Cengage Learning, USA. Larry, R.; John, J and Steve, N (2013). Foundations of Parasitology .9 edition McGraw Hill. Florida USA.				
Other Course Materials/References:		Using different Journals about medical parasitology such as: Journal of Bacteriology & Parasitology, Applied parasitology, Experimental parasitology, Parasitology international, Korean Journal of parasitology and European Journal of Parasitology with other international Journals.					
Teachi		ods (Forms f Teaching):	Lecture	es, Practical sessions, Presentation, Project, Assignments, , ,			

COURSE EVALUATION CRITERIA						
Method	Quantity	Percentage (%)				
Attendance	1	5				
Participation	1	5				
Quiz	1	5				
Homework	1	5				
Midterm Exam	1	20				
Laboratory	1	10				
Practical Exam	1	10				
Final Exam	1	40				
Tota	al	100				

 $\textbf{Examinations:}\ \, \textbf{True-False},\, \textbf{Fill}\ \, \textbf{in the Blanks},\, \textbf{Multiple Choices},\, \textbf{Short Answers},\, \textbf{Matching},\, ,\, ,$

Extra Notes:

ECTS (ALLOCATED BASED ON STUDENT) WORKLOAD						
Activities	Quantity	Workload Hours for 1 quantity*	Total Workload			
Theoretical Hours	16	2	32			
Practical Hours	16	2	16			
Final Exam	1	8	8			
Attendance	1	2	2			
Participation	1	6	6			
Quiz	1	1	1			
Homework	1	6	6			
Midterm Exam	1		0			
Laboratory	1		0			
Practical Exam	1		0			
Total Workload			71			
ECTS Credit (Total workload/25)			2.84			

Peer review

Signature:Signature:Signature:Name:Name:Name:LecturerHead of DepartmentDean