

TISHK INTERNATIONAL UNIVERSITY
FACULTY OF APPLIED SCIENCE
Department of MEDICAL ANALYSIS,
-2022 Spring
Course Information for MA 302 MEDICAL PARASITOLOGY II

Course Name: MEDICAL PARASITOLOGY II					
Code MA 302	Regular Semester 6	Theoretical 2	Practical 2	Credits 3	ECTS 4
Name of Lecturer(s)- Academic Title: Goran Nuri - MSc					
Teaching Assistant: Omer					
Course Language: English					
Course Type: Main					
Office Hours 2 Hours					
Contact Email: goran.nori@tiu.edu.iq Tel:07500000000					
Teacher's academic profile: Medical microbiology					
Course Objectives: 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					
Course Description (Course overview): Part II of the medical Parasitology course, this final section will complete our student's knowledge of medical practice concerning parasites including diagnosis, treatment, prevention and control. Upon completing this course, students will have an in-depth comprehension of human parasitic infections and the ability to incorporate this in their future courses and roles as medical Analysts.					

COURSE CONTENT

Week	Hour	Date	Topic
1	2	6-10/2/2022	Explain general characteristics of Nematelminthes, Platyhelminthes and Trematode/
2	2	13-17/2/2022	Explain life cycle, morphology, pathogenicity and method of transmission for Pin worm.
3	2	20-24/2/2022	Explain life cycle, pathogenicity, morphology, method of transmission and diagnostic of Ascaris Lumbricoides
4	2	27/2-3/3/2022	Explain life cycle, pathogenicity, morphology and method of transmission of Trichuris trichiura.
5	2	6-10/3/2022	Explain life cycle, pathogenicity, morphology and method of transmission for both. Ancylostoma duodenale and Necator Americans and different between them.
6	2	27-31/3/2022	Explain life cycle, pathogenicity, morphology and method of transmission of Strongyloides stercoralis
7	2	3-7/4/2022	Explain life cycle, pathogenicity, morphology and method of transmission of new Ancylostoma ceylanicum
8	2	10-14/4/2022	Midterm Exam
9	2	17-21/4/2022	Explain life cycle, pathogenicity, morphology and method of transmission of Wuchereria bancrofti.
10	2	24-28/4/2022	Explain life cycle, pathogenicity, morphology and method of transmission of Wuchereria bancrofti.
11	2	8-12/5/2022	Explain life cycle, pathogenicity, morphology and method of transmission of Taenia saginata

12	2	15-19/5/2022	Explain life cycle, pathogenicity, morphology and method of transmission of <i>Teania solium</i> and differentiation with the <i>Teania saginata</i>
13	2	22-26/5/2022	Explain life cycle, pathogenicity, morphology and method of transmission of <i>Diphyllobotrium latum</i>
14	2	29/5-2/6/2022	Explain life cycle, pathogenicity, morphology and method of transmission of mite I
15	2	5-9/6/2022	Final Exam
16	2	12-16/6/2022	Final Exam

COURSE/STUDENT LEARNING OUTCOMES

- 1 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 helminthes and human lice I
- 5 using Realtime –PCR for detecting common helminthes and human lice II

COURSE'S CONTRIBUTION TO PROGRAM OUTCOMES

(Blank : no contribution, I: Introduction, P: Profecient, A: Advanced)

Program Learning Outcomes

Cont.

- | | Program Learning Outcomes | Cont. |
|----|--|-------|
| 1 | Evaluate clinical laboratory data by interpreting laboratory results and relating the data to various disease states. | P |
| 2 | apply principles of evidence-based medicine to determine clinical diagnoses. | P |
| 3 | apply the basic principles of gross and microscopic anatomy, physiology, biochemistry, immunology, microbiology/virology. | P |
| 4 | formulate and implement acceptable treatment modalities to various disease states. | P |
| 5 | use technology effectively in the delivery of instruction, assessment, and professional development. | P |
| 6 | exhibit essential employability qualities by demonstrating laboratory safety, analyzing laboratory results, and displaying professional conduct. | P |
| 7 | exhibit organizational skills, accountability, and ethical behavior. | P |
| 8 | apply skills needed in operating laboratory equipment for testing, assessing quality assurance for lab equipment, and adhering to standard safety practices in the laboratory environment. | P |
| 9 | apply problem-solving and decision-making skills. | P |
| 10 | apply and promote health policies and regulatory standards in the field career. | P |
| 11 | develop research in the field of medical analysis using qualitative and quantitative methods. | P |

Prerequisites (Course Reading List and References): 1.ELizabeth A. Zeibig (2013.) Clinical Parasitology a Practical Approach 2nd edition. 2. John W. Ridley. (2012). Parasitology for Medical and Clinical Laboratory Professionals. 3. Dictionary of Parasitology by Peter J. Gosling (2005). 4. Encyclopedia of P

Student's obligation (Special Requirements): 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 Helminths parasites in Erbil such as egg of *Entrobium vermicularis* and *ascaris lumbricodes* in stool, *H nana* and *microfilaria* in blood.. 3.Attending all students in theory and practical classes are obligated

Course Book/Textbook: 1.ELizabeth 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. 5- Ko, R. C. (1989). Current Concepts in Parasitology. Hong Kong University Press.

Other Course Materials/References: 1.ELizabeth 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. 5. Mizikar, A. (2018), "Encyclopedia of Parasitology (4th edition)", Reference Reviews, Vol. 32 No. 1, pp. 17-18.

Teaching Methods (Forms of Teaching): Lectures, Presentation, Seminar, Project, Assignments, , ,

COURSE EVALUATION CRITERIA

Method	Quantity	Percentage (%)
Seminar	1	5
Attendance	1	5
Quiz	2	5
Homework	1	5
Midterm Exam	1	30
Laboratory	1	5
Final Exam	1	40
Total		100

Examinations: Essay Questions, True-False, Fill in the Blanks, Multiple Choices, Short Answers, 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	2	2
Seminar	1	1	1
Attendance	1	1	1
Quiz	2	2	4
Homework	1	1	1
Midterm Exam	1	4	4
Laboratory	1	2	2
Total Workload			63
ECTS Credit (Total workload/25)			2.52

Peer review

Signature:
Name:
Lecturer

Signature:
Name:
Head of Department

Signature:
Name:
Dean