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|  | **Mutah University**  **Detailed Syllabus Form** | Description: C:\Users\lamasat.lamasat-PC\Pictures\Picture1.png |

**First:** Course Information**:**

|  |  |
| --- | --- |
| * Course Number: 0308341 | * Course Title: diagnostic parasitology |
| * Credit Hours: 3 | * College: Science |
| * Pre-requisite: General Microbiology | * Department: Medical Laboratory Sciences |
| * Instructor: Dr. Haitham Qaralleh | * Semester & Academic Year: |
| * the time of the lecture: | * Office Hours: |

**Second:** General Course Description

this course deals with protozoan, helminth and arthropodal pathogenic parasites. It focuses on the morphology, anatomy, physiology, life cycle, pathogenicity, diagnosis tests, treatment and control.

**Third:** Course Objectives

* To understand the ecological, biological and behavioral aspects of parasitism.
* The Course designed to provide the students with the basic knowledge about the physiological and anatomical characters of pathogenic parasites.
* To provide the students with informative life cycle for each pathogenic parasite.
* To provide the students with basic skills in identifying the pathogenic parasites.
* To provide the students with strategies to control parasites

**Fourth:** Expected Learning Outcomes

1. Be able to define parasitism and other symbiotic relationships.
2. Be able to describe the life cycle and to differentiate between the diagnostic stage and the infective stage
3. Be able to identify the pathogenic parasites
4. Be aware of attempts and strategies to control parasites world wide.

**Fifth:** Course Plan Distribution & Learning Resources

|  |  |  |
| --- | --- | --- |
| **Learning Resources** | **Topics to be Covered** | **Week**  **No.** |
| **Textbooks (print and digital)** | -Introduction  - parasitism, principles and concepts.  - Classification. |  |
| **Textbooks (print and digital)** | *Entamoeba histolytica*  non-pathogenic amoeba |  |
| **Textbooks (print and digital)** | The flagellates (*Giardia lamblia, Chilomastix mesneli, Trichomonas hominis, T. vaginalis*). |  |
| **Textbooks (print and digital)** | - The ciliates (*Balantidium coli*)  - The intestinal coccidia (Isospora, Cryptosporidium) |  |
| **Textbooks (print and digital)** | - The apicomplexa or sporozoa (Plasmodia spp.). |  |
| **Textbooks (print and digital)** | - The blood and tissue dwelling protozoa  - The coccidia (Toxoplasma gondii & Sarcocystis) |  |
| **Textbooks (print and digital)** | - The hemoflagellates (Trypanosoma & Leishmania spp.) |  |
| **Textbooks (print and digital)** | -The Trematodes:  - Intestinal flukes a. *Fasciolopsis buski* b. Echinostomes  c. *Heterophyid heterophid* |  |
| **Textbooks (print and digital)** | - The liver flukes a. *Fasciola hepatica* b. Clonorchis sinensis c. Opisthorchis d. Dicrocoelium dendriticum  - The blood flukes a. Schistosoma spp.  - The lung flukes: *Paragonimus westermani* |  |
| **Textbooks (print and digital)** | - Diphyllobothrium latum, Taenia spp.  - Multiceps, Echinococcus granulosus, Dipylidium caninum and Hymenolepis spp. |  |
| **Textbooks (print and digital)** | -The intestinal nematodes: Ascaris lumbricoides, Enterobius vermicularis. |  |
| **Textbooks (print and digital)** | - hook worms: Ancylostoma & Necator, Srongyloides, Trichuris trichura, guinea worm, Trichinella spiralis . |  |
| **Textbooks (print and digital)** | - blood and tissue nematodes the filariae |  |
| **Textbooks (print and digital)** | Classification, form and function, parasitic insects. Lice, Scabies, mosquitoes, flies. |  |

**Sixth:** Teaching Strategies and Methods

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| **Teaching Strategies and Methods** | No |
| **Lectures: Students are expected to take notes, records, or absorb information.** | **1** |
| **Demonstration: Lectures will includes multimedia presentations, activities, and demonstrations** | **2** |
| **The following Teaching methods will be used in class room:**   1. **Lectures** 2. **Question and Answer** 3. **Discussions** 4. **Multimedia** | **3** |

**Seventh :** Methods of Assessment

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| --- | --- | --- | --- |
| **Proportion of Final Evaluation** | **Evaluation Methods of** | **Week & Date** | **No.** |
| **25%** | **First Exam** | **Sixth Week** | **1.** |
| **25%** | **Second Exam** | **Eleventh Week** | **2.** |
| **50%** | **Final Exam** | **Fifteenth Week** | **3.** |
|  |  |  | **4.** |
|  |  |  | **5** |
|  |  |  | **6** |
| **(100%)** |  | **Total** | |

**Eighth :** Required Textbooks

**- Primary Textbook:**

Zeibig, Elizabeth. *Clinical Parasitology-E-Book: A Practical Approach*. Elsevier Health Sciences, 2014.

Garcia, Lynne S. *Diagnostic medical parasitology*. American Society for Microbiology Press, 2006.

Chiodini, Peter L., et al. *Atlas of medical helminthology and protozoology*. Edinburgh: Churchill Livingstone, 2001.

**-** **Secondary References**

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**Ninth :** General Instructions

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| **Additional Notes, Office hours, Incomplete Exams, Reports, Papers, …etc** | **No** |
| **Office Hours:** | **1** |
| **Incomplete Exam:** | **2** |
| **The students allowed to be absent (with or without solid reason) up to 4 classes (1 hour class).** | **3** |
|  | **4** |
|  | **5** |