



## COURSE SPECIFICATIONS

**University** : Al-Azhar  
**Faculty** : Medicine  
**Department** : Parasitology

### 1- Data of the course:

<b>Code of the course:</b> 07-303-par	<b>Title of the course:</b> Medical Parasitology	<b>Year</b> : One academic year
<b>Specialty:</b> Medical Parasitology	<b>Number of teaching units</b> 5	<b>Lectures: 60</b> <b>Practical: 60</b>

<b>2- Objectives of the course:</b>	<p>To provide students with knowledge concerning biological, epidemiological and ecological aspects of parasites causing diseases to humans.</p> <p>To enable students to understand the pathogenesis, clinical presentations and complications of these diseases.</p> <p>To enable students to reach diagnosis (stressing on new methods and tools) and methods of treatment, prevention and control of parasitic infections.</p> <p>To provide students with adequate knowledge about endemic parasites in Egypt and national parasitic problems.</p> <p>To provide students with recent and new knowledge about the immunological pattern of parasitic infections.</p> <p>To provide students with recent knowledge about the molecular Parasitology.</p>
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### 3- ILOs

<b>A- Knowledge and Understanding:</b>	<b>By the end of the course, students should be able to:</b> <ol style="list-style-type: none"><li>1- Describe the world distribution of important parasitic infections and explain the factors determining such distribution and their socioeconomic impact on the community.</li><li>2- Describe the morphology and life cycle of parasites of medical importance.</li><li>3- Describe pathogenesis, clinical signs as well as symptoms and complications of parasitic infections.</li><li>4- Outline the treatment for various parasitic infections and mention the methods of prevention and control of infection on individual and community levels.</li><li>5- Discuss the methods of recovery of parasites from environmental samples and their culture methods.</li><li>6- Describe common arthropods of medical interest and explain their medical importance and methods of combat.</li><li>7- Outline fundamental immunology and molecular biology applicable in Parasitology to achieve better and accurate diagnosis.</li><li>8- Enumerate complications associated with manipulation of infectious materials, relevant to Parasitology, especially in hospitals.</li></ol>
<b>B- Intellectual Skills:</b>	<b>By the end of the course, student should be able to:</b> <ol style="list-style-type: none"><li>1- Interpret the most important signs and symptoms of important parasitic infections of endemic character (using case study).</li><li>2- Choose the best-suited laboratory investigations for each parasite and interpret the clinical and laboratory findings to reach a proper diagnosis.</li></ol>



## قسم الطفيليات

<b>C- Professional Skills:</b>	<b>By the end of the course, student should be able to:</b> 1- Identify microscopically different parasites as well as their different stages (eggs, cysts and larvae) or any of their body parts (segments, hooks and scolices) in urine or stool samples. 2-Diagnose haemoparasites detectable in blood films. 3- Identify parasites and their different stages through examination of mounted slides. 4- Identify different parasites in tissue sections and demonstrate their reactions in such tissues by naked eye (Jars). 5- Identify arthropods of medical importance through examination of whole body or any part in mounted specimens.
<b>D- General Skills:</b>	<b>By the end of the course, student should be able to:</b> 1- React positively with any parasitic problem on a national level as bilharziasis or filariasis. 2- React positively with national campaigns, which are conducted to combat endemic parasitic infections by M.O.H.P. 3-Work in a multi disciplinary health care team to solve parasitic problems in the community. 4- Respect the role of staff and co-staff members regardless of degree or occupations.
<b>4- Course Content:</b>	1-Introduction to Parasitology. 2-Helminthology, Trematodes and Cestodes. 3-Introduction to Nematodes, intestinal and tissue nematodes. 4-Protozoology, Intestinal, Urogenital blood and Tissue protozoa. 5-Immunology and molecular Parasitology. 6- Medical entomology.



## قسم الطفيليات

<b>5- Methods of teaching:</b>	-Lectures. -Practical classes (laboratory training). -Small tutorial groups (in practical classes once per month).
<b>6- Methods of teaching handicaps:</b>	Not present

### 7- Students evaluation and assessment:

<b>A- Method of assessment:</b>	<p><b>Written examination:</b> For assessment of knowledge and understanding as well as intellectual skills (case report).</p> <p><b>Practical examination:</b> For assessment of knowledge and understanding and professional skills.</p> <p><b>Oral examination:</b> For assessment of knowledge and understanding as well as professional skills and attitude.</p> <p><b>Slide show examination:</b> For assessment of knowledge and understanding as well as professional skills.</p>
<b>B- Time of assessment:</b>	<p><b>Written examination</b> : 3 hours.</p> <p><b>Practical examination</b> : 20 minutes</p> <p><b>Oral examination</b> : open.</p> <p><b>Slide show examination:</b> 20 minutes.</p>
<b>c- Allocated marks/distribution</b>	<p><b>Written examination</b> : 75 marks</p> <p><b>Practical examination</b> : 20 marks</p> <p><b>Oral examination</b> : 25 marks</p> <p><b>20 % examinations</b> : 30 marks</p>



## قسم الطفيليات

### 8- Teaching books, notebooks and references:

<b>Books :</b>	<p style="text-align: center;"><b>Department Books</b></p> <p><b>Hasan, K A M (2015): Medical Parasitology for Undergraduate and Post Graduate Medical Students. University BOOK CENTER)</b></p> <p style="text-align: center;">رقم الإيداع ١٧١٣٩/٢٠١٦ الترقيم الدولي ٨٧٩-٧٧٩-٣٠٢-٩٠٣-٦</p> <p>-Practical Book - Case study book - MCQ book Text Book</p> <ul style="list-style-type: none"><li>• <b>Arora A (2014) : Medical Parasitology Fourth edition</b></li><li>• <b>Garcia L.S (2001) : Diagnostic Medical Parasitology Fourth edition Washington, DC20036</b></li></ul> <p style="text-align: center;">-</p>
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#### Course Coordinator:

**Prof. Ahmed Mohamed Sayed Bayoumy**

#### Head of the Department

**Prof. Khairy Abdel Hamid Mohamed Hasan**