



**Quality Assurance Unit**



**TantaUniversity  
Faculty of Medicine**

**Department of Medical Parasitology**

**Course Specifications**

**Medical Parasitology Doctorate  
Degree**

**2016-2017 (PARA 9004)**

Medical Parasitology Doctorate Degree, Course specifications  
University: Tanta Faculty: Medicine Department: Medical Parasitology

### **A- Administrative Information**

- 1- Course title: Medical Parasitology for Doctorate degree
- 2- Department offering the program: Medical Parasitology Department
- 3- Department responsible for the course: Medical Parasitology Department
- 4- Course code: PARA 9004
- 5- Level: Doctorate degree of Medical Parasitology
- 6- No. of Credit / Taught hours:  
Lectures: (2 credit hrs./30 taught hrs.) Practical: (1 1/2 credit hrs./45 taught hrs.) Total: (3 1/2 credit hrs).
- 7- Authorization date of course specification: 1/11/2016

### **B- Professional Information**

#### **1 – Overall Course aims:**

The course aims to prepare a graduate having the ability to perform and perfect the bases and methods of medical research , and teach others and transfer of his medical experience to them through providing broad spectrum of knowledge and skills in Medical Parasitology cover Helminthology so he gain a positive attitude towards:

- Awareness about the different clinical presentations and system oriented helminthology.
- Orientation about the newly emerging and less common helminths
- Orientation about the different diagnostic tools needed in the diagnosis of different helminths diseases.
- Mastering of up-to-date lines of management of different helminthic infections.
- Orientation about his role in community development regarding prevention and control of these helminths

#### **2 – Intended learning outcomes (ILOs):**

##### **A- knowledge and understanding:**

*By the end of the course, students should be able to:*

- a.1-Describe the world distribution of newly emerging and less common helminths and explain the factors determining such distribution and their socioeconomic impact on the community.
- a.2-Describe the system oriented helminthology (pathology and pathogenesis, clinical aspects)

- a.3- Discuss recent aspects of diagnosis including parasitic, immunologic and biomolecular techniques and other diagnostic tools.
- a.4- Mention the methods of prevention and control of parasitic infection and on individual community levels.

**b. Intellectual skills:**

**By the end of the course the candidate will be able to:**

- b.1- Analyze medical problems related to helminthic infections with differentiation between parasitic diseases.
- b.2- Correlate clinical manifestations with the causative parasites and their pathogenesis and the radiological and endoscopic finding.
- b.3- Formulate and rearrange dispersed data related to parasitic infections and to be able to present them in a clear concise form.
- b.4- Choose the suitable diagnostic tools concerning the parasitic problems encountered (microscopy, serology, or molecular or other diagnostic tools...etc).
- b.5- Integrate information from different sources-
- b.6- Design and perform an advanced and innovative research in medical Parasitology.
- b.7- Suggest applicable prevention and control programs.

**c. Professional and practical skills :**

**By the end of the course the candidate will be able to:**

- c.1- Assess and establish updated diagnostic strategies.
- c.2. Present the different radiological and endoscopic data related to different helminths .
- c.3- Perfect manipulation of infectious material in a lab or hospital in a safe way.
- c.4- Design an appropriate research project involving control of endemic helminths

**d. General and transferable skills (Attitude & communication skill):**

**By the end of the course the candidate will be able to:**

- d.1- Director share in a teamwork aiming at solving an environmental problem
- d.2- Use the update methods and technology for obtaining and transferring scientific data
- d.3- Arrange with community authorities for planning and achieving a field plan to combat an environmental health problem
- d.4- Perform continuous medical educations
- d.5- Write the scientific article according to the basics of scientific research.
- d.6- Achieve computer skills necessary to make use of medical databases and use the internet for communication.
- d.7- Manage scientific seminars , with good time management.

**3-Course contents**

**Total 3 1/2 credit hours Lectures: (2 credit hrs./30 taught hrs.)**

**Practical: (1 1/2 credit hrs./ 45 taught hrs.)**

Topics	No. of hours			
		Lecture	Clinical/ lab	Self directed learning
1. Less common & Newly emerging helminthes		8		
2. System oriented helminthology				7
3. Radiological and imaging finding in helminthology		3		2
4. Endoscopic findings in helminthology		3		2
5. Prevention and control		3		2
Practical courses	1. data show showing different case presentations		10	
	2. data show showing different radiological findings		5	
	3. data show showing different endoscopic finding		10	
	4. Training on writing proposal design for project to control certain parasitic problem		10	
	5. Electron microscopic findings of different helminthes		10	
<b>Total</b>		26	45	4

#### **4-Teaching and learning methods**

Throughout the course the candidate achieves these objectives by the following activities.

A- Attending Lectures.

B- Attending Seminars:

The candidate is expected to attend and participate in meetings that update relevant recent topics in helminthic biology, relevant biochemical and genotyping of parasites, emerging parasitic problems and advances in parasitic diagnosis and treatment.

C- Attending Practical Courses

#### **5-Student Assessment**

Log book: For follow up practical activities, effective discussion in lectures and attendance (Minimum acceptance attendance in each teaching course is 75%)

- To be eligible to enter the exam, log book should be fulfilled and signed by Head of the department

End of semester exam. : MCQ examination will be during the 15th weeks

-Written, oral and practical examination will be a part of the final examination of the second part.

5.1 Written examination: to assess a.1 -4/b.1/b.2/b.3/b.4/c1

5.2 Practical :to assess c.2,3,4/ d.2.

5.3 Oral : to assess b3,4,5,6,7

5.4 logbook to assess d.1/d.2/d.3/d.4//d.5/d6/d7

#### **- Assessment schedule**

Formative assessment each month through log book . After completing the 8 semesters of the second part, the candidate will be eligible to enter written , oral, and practical exams exam hold twice / year at April and October according to post graduate bylaws.

#### **6- Weighing of assessments**

**This semester will be a part of the final exams. of the second part**

<b>Written examination</b>	900 (60%)
<b>Oral examination</b>	300 (60%)
<b>Practical/laboratory work</b>	300 (60%)
<b>Other types of assessment (formative only)</b>	Log book
<b>Total</b>	1500

## **7- List of references**

**7.1 Course notes: the staff lectures, Book edited by staff members of the Parasitology department**

**7.2 Text book; Human parasitology**

By Burton Jerome Bogitsh, Clint Earl Carter, Thomas N. Oeltmann 2005.

**7.3 Recommended books**

**An introduction to Parasitology.**

By Bernard E Matthews. Copyright. Cambridge University Press. 1998

**Modern Parasitology.**

Textbook of Parasitology. By Francis E and G Cox. Wiley Blackwell, Copyright. 1993

**Principles and Practice of Clinical Parasitology.**

Edited by S. Gillespie & Richard D. Pearson. Copyright © 2001 by John Wiley & Sons Ltd, Baffins Lane, Chichester, West Sussex PO19 1UD, England.

**Human parasitology**

By Burton Jerome Bogitsh, Clint Earl Carter, Thomas N. Oeltmann 2005.

**Topley & Wilson's microbiology & microbiological infections** By F.E.G. Cox, Derek Wakelin, Stephen H. Gillespie and Dickson D. Despommier 2010

**Manson' Tropical Diseases, 22th edition, in I. Gordon C. Cook and Alimuddin. Zumla editors, Saunders London, 2009.**

**Foundation of Parasitology, 8th edition, Gerald D. Shimdt and Larry S. Roberts editors, McGraw-Hill companies New York, 2009.**

**7.4 Periodicals and web sites**

***International Web site :***

[http://en.wikipedia.org/wiki/List\\_of\\_human\\_parasitic\\_diseases](http://en.wikipedia.org/wiki/List_of_human_parasitic_diseases)

[http://emedicine.medscape.com/infectious\\_diseases-PARASITIC\\_INFECTIONS](http://emedicine.medscape.com/infectious_diseases-PARASITIC_INFECTIONS)

<http://www.cdfound.to.it/html/intpar1.htm>

<http://www.wormdigest.org/content/view/157/2/>

<http://www.parasitology.com/worms/index.html>

<http://www.cdfound.to.it/atlas.htm>

<http://www.soton.ac.uk/~ceb/EctoEndodirectory/medendolinks.htm>

<http://homepages.ed.ac.uk/cpb/websites.htm>

<http://4smart.net/dir/sites/368-83115/Molecular-and-Biochemical-Parasitology>

<http://www.parasitology.com/resources/index.html>

<http://www.stumbleupon.com/su/36JahK/instruction.cvhs.okstate.edu/JCFOX/HTDOCS/CLINPARA/Index.htm>

<http://www.slideworld.org/slidestag.aspx/Medical-Parasitology>

**8-Other resources/ facilities required for teaching and learning to achieve the above ILOs**

**None**

**9-we certify that all of the information required to deliver this course is contained in the above specifications and will be implemented**

We verify that the above course and the analysis of students and external evaluator opinions are accurate.

Course coordinator and head of department  
name.....signature.....Date.....

Head of quality assurance unit:  
name.....signature.....Date.....