



Quality Assurance Unit



**TantaUniversity
Faculty of Medicine**

Department of Medical Parasitology

Course Specifications

**Medical Parasitology Doctorate
Degree**

2016-2017 (PARA 9008)

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 9008
- 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 credits 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 Entomology so he gain a positive attitude towards:

- Awareness about the different clinical presentations and system oriented arthropods.
- Awareness about the arthropods of medico legal importance.
- Orientation about tissue myiasis and maggot therapy
- Orientation about the different diagnostic tools needed in the diagnosis of different tissue arthropods.
- Awareness about the role of arthropods in transmission of the diseases and discuss the different mechanisms of the diseases transmission.
- Orientation about his role in community development regarding prevention and control of these arthropods

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 arthropods and explain the factors determining such distribution and their socioeconomic impact on the community.
- a.2- discuss the different mechanisms of the disease transmission.

- a.3-Describe the system oriented arthropods (pathology and pathogenesis, clinical aspects)
- a.4-Discuss the arthropods of medico legal importance.
- a.5-Mention tissue myiasis and discuss the mechanism of maggot therapy
- a.6- Discuss recent aspects of diagnosis including parasitic, immunologic and biomolecular techniques,
- a.7- Mention the methods of prevention 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 parasitic infections with differentiation between parasitic diseases.
- b.2-Formulate and rearrange dispersed data related to parasitic infections and to be able to present them in a clear concise form.
- b.3-Choose the suitable diagnostic tools concerning the parasitic problems encountered (microscopy, serology, or molecular...etc).
- b.4 Integrate information from different sources-
- b.5-Design and perform an advanced and innovative research in medical Parasitology.
- b.6-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-Make provisional recommendations, based on scientific evidence, about the appropriateness and cost-effectiveness of particular methods for addressing vector control problems.
- c.2- Apply a range of practical entomological techniques and tools used in research on vector competence and ecology.
- c.3- Assess and establish updated diagnostic strategies.
- c.4- Design an appropriate research project involving control of important Arthropods.

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. System oriented arthropods		5		
2. Tissue arthropods		5		
3. Maggot therapy		5		
4. Medicolegal entomology		5		
5. Recent diagnostic tools		5		
6. Control of arthropods		5		
Practical courses	1. data show showing different case presentations		10	
	2. data show showing histopathological finding of tissue arthropods		10	
	Training on writing proposal design for project to control certain arthropod		15	
	Rearing of one arthropod		10	
Total		30	45	

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 arthropod biology, relevant biochemical and genotyping of parasites, maggot therapy medicolegal aspect of arthropods 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 -7/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.

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

Written examination	900 (60%)
Oral examination	300 (60%)
Practical/laboratory work	300 (60%)
Other types of assessment (formative only)	Log book
Total	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 I. 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://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.....