Quality Assurance Unit

TantaUniversity
Faculty of Medicine

Department of Medical Parasitology

Course Specifications

Medical Parasitology Doctorate Degree

2016-2017 (PARA 9007)

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 9007

5- Level: Doctorate degree of Medical Parasitology

6- No. of Credit / Taught hours:

Lectures: (4 credit hrs./60 taught hrs.) Practical: (3 credit hrs./90 taught 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 Arthropods so he gain a positive attitude towards

- Awareness about the epidemiology and biology of different Arthropods and its impact on human health.
- Wide-scale knowledge about diagnostic work-up of Arthropods diseases.
- Mastering of up-to-date lines of management of different Arthropods infections.
- Awareness towards the current medical problems, and up to date hypothesis in Medical Parasitology.
- Orientation about his role in community development , and environmental safety

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- Identify the medically important Arthropods, with the host parasite relationship.

a.3-Describe the various aspects of the Arthropods and their diseases (recent taxonomy, life cycle, biology, pathology and pathogenesis, clinical aspects, treatment and expected complications)
a.4-Describe the recent aspects of diagnosis including parasitic, immunologic and biomolecular techniques,
a.5- Mention the methods of prevention control of Arthropods 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 Arthropods infections with differentiation between parasitic diseases.
b.2-Correlate clinical manifestations with the causative Arthropods and their pathogenesis.
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 techniques concerning the parasite the parasitic problems encountered (microscopy, serology, or molecular…etc)
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- Apply a range of practical entomological techniques and tools used in research on vector competence and ecology.
c.2- Make provisional recommendations, based on scientific evidence, about the appropriateness and cost-effectiveness of particular methods for addressing vector control problems.
c.3- Assess and establish updated diagnostic strategies.
c.4 Write and evaluate a professional medical report for practical Parasitology.
c.5-Perfect microscopic examination and staining of different medical parasite stages.

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 7 credit hours Lectures: (4 credit hrs./60 taught hrs.)
Practical: (3 credit hrs./90 taught hrs.)

Topics	No. of hours			
	Lecture	Tutorial	Clinical/ lab	Self directed learning
Classification of Arthropods	2			
1. Diptera; OrthorrhaphaNematocera,	15			
2. Brachycera	5			
3. Diptera: cyclorrhapha	13			
4. Siphonaptera	3			
5. Anoplura	2			
6. Hemiptera	3			
7. Ticks: Ixodidae and argasidae	5			
8. Mites	2			
9. Leaches, Cyclops Linguatula Scorpions Spiders	3			
10. Control of arthropods	3			
Seminar (Special Topics)		2		
Parasitic infections case study		2		
Practical courses:				
1. Identification of different stages of arthropods free and in tissue			20	
2. Collection, dissection, Identification of arthropods			20	
3. Different methods of urine and stool examinations.			10	
4. Preparation of permanent mounted slides.			20	
5. **Electron microscopic findings of different protozoa**			20	
Total	56	4	90	

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 arthropods biology, taxonomy, relevant biochemical and geno-typing of parasites, and advances in arthropods diagnosis and control.

C- Attending Practical Courses

5-Student Assessment

Log book: For follow up practical activities, effective discussion in lectures andattendance (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 -5/b.1/b.2/b.3/b.4/c1
5.2 Practical :.to assess c.2,3,4,5/ 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. Oeltmann2005.

7.3 Recommended books

An introduction to Parasitology.
By Bernard E Matthews. Copyright. Cambridge University Press. 1998
Modern Parasitology.
Textbook of Parasitology.ByFrancis 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. Oeltmann2005.
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 AlimuddinI.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…….