



**Quality Assurance Unit**



**Tanta University**  
**Faculty of Medicine**

**Department of Medical Parasitology**  
**Program specifications**

**Medical Parasitology Master**  
**degree**

**2016-2017 (PARA 800)**

Medical Parasitology Master Degree Programs specifications  
University: Tanta      Faculty: Medicine      Department: Medical Parasitology

### **A- Basic information**

**1-Program title: Master of medical Parasitology**

**2-Program Code: PARA 800**

**3- Program coordinator: Prof. Dr. Kholoud El-Nouby**

**4-program internal evaluators: Professor Dr. Soad Ahmed Salem**

**5-program external evaluators: Professor Dr. Mammdouh Meselhy. Mansoura Faculty.**

**6-Date of approval: 1/11/2016**

**7-Departments offering the courses of the program: Medical Parasitology and Microbiology, Biochemistry, Tropical Medicie, Pathology or Clinical Pathology Departments ,Faculty of medicine ,Tanta University**

### **B\_ professional information**

#### **1 - Overall program aims**

**This program aims to prepare a graduate to be able to perform and perfect the bases and methods of**

Medical research in the field of medical Parasitology, and to have abroad information about the science of medical Parasitology in its different topics; including:

- Correlation of basic information with the clinical presentations of parasitic disease.
- Perfect professional skills, and use of technological tools needed in practices of medical Parasitology
- Decision of appropriate diagnostic tools.
- Awareness about the epidemiological and environmental impacts of the parasitic diseases; and how to plan and share in solving the subsequent problems.
- Realize the importance of self development and continuous Medical education.

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

**a-knowledge and understanding:**

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

a.1- Identify the medically important parasites, with the host parasite relationship.

a.2-Describe the various aspects of the parasites and their diseases (taxonomy, life cycle, pathology and pathogenesis, clinical aspects, treatment and expected complication)

a.3- Discuss the modern diagnostic methods.

a.4-Discuss immunological and molecular biological aspects of parasitic infections.

a.5- Recognize the principles and ethics of medical research and practice

**b. Intellectual skills:**

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

b.1- Analyze clinical problems related to parasitic infections.

b.2-Correlate clinical manifestations with the causative parasite 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-Perform a research in medical Parasitology.

b.5-Solve clinical problems by referring available data to the possible underlying causes.

b.6-Suggest applicable prevention and control programs

**c. Professional and practical skills :**

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

c.1 Perform the basic and modern professional skills in the area of diagnostic Medical Parasitology

c.2- Assess and perform appropriate methods to establish a proper diagnosis.

c.3-Write and evaluate a professional medical report for practical Parasitology.

**d. General and transferable skills:**

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

d.1-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 units for planning and achieving a field plan to combat an environmental health problem

d.4-Use different learning resources to get knowledge and information

d.5-Perform continuous medical education.

D.6- Manage time perfectly.

**3-Academic standards for master degree:**

Bench mark : New York University Medical center (NYU School of Medicine)

Reference academic standards (ARS)

Medical academic standards for Master degree adopted by the faculty council in 24/5/ 2010 and offered by The Egyptian Authority for Quality Assurance and Accreditation for Education (NAQAAE) for post graduate 2009 was adopted.

- Academic Reference Standards (ARS)

**By end of the program the graduate should be able to**

- Perfect the bases and methods of medical researches
- Apply his medical knowledge and merge it with related knowledge.
- Be oriented with the current medical problems, and up dates in the field of Parasitology.
- Detect professional problems in the field of Parasitology and suggest solutions
- Perfect professional skills, and use of technological tools needed in his practice
- Decision making through analysis of available information
- Be oriented with his role in community development , and environmental safety
- Realize the importance of self development and continuous medical education

#### 4 – curriculum structure and content :

**4-a- Program duration : at least 36 months, a total of 66 credit hours.**

**4-b- Program structure:**

**1<sup>st</sup> part:** through the first 12 months; 2 semesters (each, 9 credit hours), after the end of the 2 semesters the student will enter the examination and its passage is not a must for administration to thesis or to the second part.

**Thesis:** the candidate can register his thesis in the department council after finishing the first semester. The thesis should be in accordance with the scientific research plan of the department, it is considered for 12 credit hours. It can be discussed at least after 12 months of registration for the degree and after passing the first part. No marks are allocated for thesis but its passage is a must to enter the second part examinations. The student should attend a full time participation through this year in Parasitology Department, fulfilling 75% of his logbook. Candidate should pass the discussion of his thesis successfully at least 2 months before the date of exams to be allowed to enter the exams.

**2<sup>nd</sup> part:** through 24 months; 4 semesters (each, 9 credit hours). The candidate should pass the exams. to get the degree.

المناهج			
النقاط المعتمدة	الساعات المعتمدة	الكود	المقرر الدراسي
21+21	7+7	PARA 8001 PARA 8002 PARA 8003 PARA 8004 PARA 8005	بخيار الطالب مادة واحدة من المواد التالية: 1. مقرران علميان وعمليان في الباثولوجيا الاكلينيكية. 2. مقرران علميان وعمليان في الميكروبيولوجيا. 3. مقرران علميان وعمليان في الكيمياء الحيوية. 4. مقرران علميان وعمليان في الباثولوجيا. 5. مقرران علميان وعمليان في الأمراض المتوطنة.
6	2		مقررات اختيارية.
4	2		أنشطة علمية.
24	12		الرسالة
21 21 21 21	7 7 7 7	PARA 8006 PARA 8007 PARA 8008 PARA 8009	1. مقرر علمي وعملي في علم الديدان الطبية. 2. مقرر علمي وعملي في علم الطفيليات وحيدة الخلية. 3. مقرر علمي وعملي في علم الحشرات الطبية. 4. مقرر علمي وعملي في علم المناعة والبيولوجيا الجزيئية الخاصة بالطفيليات الطبية.
12	4		مقررات اختيارية.
8	4		أنشطة علمية.
180	66		المجموع

**Program specifications: Medical Parasitology Master Degree, 2016-2017**

**5-Courses included in the program:**

Code	Course Title	No. Of Hours Credit/taught hours		Total credit hours / course	Remarks	Program ILOs Covered
		Theoretic al	Practica l			
PARA 8001	Clinical Pathology	8/120	6/180	14	One course only should be selected in first part (each course is of two semesters)	a.3, a4 / c.2 /d.4
PARA 8002	Microbiology	8/120	6/180	14		a.3, a4 / c.2 /d.4
PARA 8003	Biochemistry	8/120	6/180	14		a.3 / a.4/ c.2 /d.4
PARA 8004	Pathology	8/120	6/180	14		a.3,a4 c.2 /d.4
PARA 8005	Tropical Medicine	8/120	6/180	14		a.3, a4 / c.2 /d.4
PARA 800	Elective courses			2	1 in each semester	a5, b4, c2,d,4,5,6
PARA 800	Scientific activities			2	One in each semester	d.1,2,3,4,5,6
PARA 800	Thesis			12		a5, b4, c2,d,4,5,6
PARA 8006	Helminthology	4/60	3/90	7	Second part (4 semesters)	a.1.2.3.4 b.1.2.3.5. c1,2,3 d1,.2,3,4,5,6
PARA 8007	Medical Protozoology	4/60	3/90	7		
PARA 8008	Medical Entomology	4/60	3/90	7		
PARA 8009	Immunology &Molecular biology	4/60	3/90	7		a.3.a.4 b.2 c.1.2.3 d.1.2.4.5
PARA 800	Elective courses			4	1 in each semester	a5, b4, c2,d,4,5,6
PARA 800	Scientific activities			4	One in each semester	d.1,2,3,4,5,6

**Program specifications: Medical Parasitology Master Degree, 2016-2017**

Code	Course Title	No. Of Hours Credit/taught hours		Total credit hours / course	Remarks	Program ILOs Covered
		Theoretic al	Practica l			
Total				66		

Detailed courses and curricula are annexed

Taught (credit) hours (total of the program) :

Lectures :24/360      Practical : 12/360      thesis:12

Elective courses: 6 credit hours (are annexed and the students will choose 1 of them for each semester)      Scientific activities (6)      **Total 66 credit hrs**

program ILOs versus courses matrix																					
ILOS																					
	A					B						C			d						
	1	2	3	4	5	1	2	3	4	5	6	1	2	3	1	2	3	4	5	6	
<b>Clinical Pathology</b>				*					*				*						*		
<b>Microbiology</b>				*					*				*						*		
<b>Biochemistry</b>				*					*				*						*		
<b>Pathology</b>				*					*				*						*		
<b>Tropical Medicine</b>				*					*				*						*		
<b>Thesis</b>					*				*				*						*	*	*
<b>Medical parasitological</b>	*	*	*	*		*	*	*		*	*	*	*	*	*	*	*	*	*	*	*
<b>Elective courses</b>	*	*	*	*		*	*	*		*	*	*	*	*	*	*	*	*	*	*	*
<b>Scientific activities</b>															*	*	*	*	*	*	

**Academic Reference Standard (ARS)**

ARS		program ILOs versus courses ARS																							
		A						B							C			D							
ILOS		1	2	3	4	5	6	1	2	3	4	5	6	7	1	2	3	1	2	3	4	5	6	7	8
a	1	√	√																						
	2	√																							
	3			√																					
	4			√																					
	5				√	√	√																		
b	1							√																	
	2								√	√				√											
	3								√	√															
	4										√														
	5								√																
	6											√	√												
c	1														√										
	2																√								
	3															√									
d	1																	√				√	√		
	2																		√			√			
	3																	√				√	√		
	4																			√					
	5																							√	
	6																							√	

**6. Program admission requirements:**

Graduate students with aM.B.Ch.B. of Medicine with good degree at least  
 Passage of test in English language and basic computer skills or ICDL are pre-  
 requested for registration of the degree.

## 7. Regulation for progression and program completion in accordance with faculty bylaws for postgraduate paragraph no. 19-51.

None

## 8-Program assessment and evaluation:

### Assessment

درجة الماجستير في الطفيليات الطبية Master of Science in Medical Parasitology (PARA 800)										
مجموع الدرجات	الامتحانات				عدد الأوراق	النقاط المعتمدة	الساعات المعتمدة	الكود	المقرر الدراسي	المناهج
	اكلينيكي	شفوي	عملي	تحريري						
300		60	60	180	1	21+21	7+7	PARA 8001 PARA 8002 PARA 8003 PARA 8004 PARA 8005	يختار الطالب مادة واحدة من المواد التالية: 1. مقرران علميان وعمليان في الباثولوجيا الاكلينيكية. 2. مقرران علميان وعمليان في الميكروبيولوجيا. 3. مقرران علميان وعمليان في الكيمياء الحيوية. 4. مقرران علميان وعمليان في الباثولوجيا. 5. مقرران علميان وعمليان في الامراض المتوطنة.	الجزء الأول
						6	2		مقررات اختيارية.	
						4	2		أنشطة علمية.	
						24	12			الرسالة
900		180	180	270 270	1 1	21 21 21 21	7 7 7 7	PARA 8006 PARA 8007 PARA 8008 PARA 8009	1. مقرر علمي وعملي في علم الديدان الطبية. 2. مقرر علمي وعملي في علم الطفيليات وحيدة الخلية. 3. مقرر علمي وعملي في علم الحشرات الطبية. 4. مقرر علمي وعملي في علم المناعة والبيولوجيا الجزيئية الخاصة بالطفيليات الطبية.	الجزء الثاني
						12	4		مقررات اختيارية.	
						8	4		أنشطة علمية.	
1200		240	240	720		180	66			المجموع

### Evaluation

- program external evaluator: Professor Dr. Mammdouh Meselhy.
- Program Internal evaluator : Professor Dr. Soad Salem.
- Reports of external and internal evaluators (attached separately). Students have the role of active learners and have the responsibility of attending and actively participating in all student learning experiences. i.e. lectures, practical classes and discussions. They also carry out independent study as will benefit their learning towards the objectives of the course.
- Questionnaire to students and stake holders (attached separately).
- Reports of faculty internal auditing system (attached separately).

Will be included in the program report , and action plan will be structured accordingly

## 9 -Appendix courses specifications

will be supplied in beginning of each semester. This course will be available in the Department Secretary office as well as class schedules, lecture notes and any notices regarding examinations and any change in the class schedule.



**Program specifications: Medical Parasitology Master Degree, 2016-2017**

**المقررات الاختيارية لدرجات الدبلوم والماجستير والدكتوراه**

أولاً : مقررات في أساسيات البحث العلمي

Code	Title	Weeks	Didactic Hours	Practical Hours	Contact Hours	Self Study Hours	Workload	Student Workload	Credit Hours	Credit Points
MEDC 101	Evidence Based Medicine	15	1	0	1	4	5	75	1	3
MEDC 102	Systematic Review and Meta-analysis	15	1	0	1	4	5	75	1	3
MEDC 103	Study Design and Clinical Trials	15	1	0	1	4	5	75	1	3
MEDC 104	Scientific Writing and International Publication	15	1	0	1	4	5	75	1	3
MEDC 105	Biostatistics and Medical Informatics	15	1	0	1	4	5	75	1	3
MEDC 106	Research Ethics	15	1	0	1	4	5	75	1	3
MEDC 107	Creativity, Innovation and Entrepreneurship	15	1	0	1	4	5	75	1	3

ثانياً : مقررات في أساسيات التدريس

Code	Title	Weeks	Didactic Hours	Practical Hours	Contact Hours	Self Study Hours	Workload Hours	Student Workload	Credit Hours	Credit Points
MEDC 201	Curriculum Design and Development	15	1	0	1	4	5	75	1	3
MEDC 202	Information Technology and Effective Teaching	15	1	0	1	4	5	75	1	3
MEDC 203	Student Assessment and Program Evaluation	15	1	0	1	4	5	75	1	3
MEDC 204	Critical thinking and Philosophy	15	1	0	1	4	5	75	1	3
MEDC 205	Presentation and Communication Skills	15	1	0	1	4	5	75	1	3
MEDC 206	e-Learning and m-Learning	15	1	0	1	4	5	75	1	3
MEDC 207	Group Dynamics and Teambuilding	15	1	0	1	4	5	75	1	3

ثالثاً : مقررات في أساسيات الإدارة

Code	Title	Weeks	Didactic Hours	Practical Hours	Contact Hours	Self Study Hours	Workload Hours	Student Workload	Credit Hours	Credit Points
MEDC 301	Human Resources Management	15	1	0	1	4	5	75	1	3
MEDC 302	Total Quality Management	15	1	0	1	4	5	75	1	3
MEDC 303	Hospital Management	15	1	0	1	4	5	75	1	3
MEDC 304	Crisis Management and Stress Management	15	1	0	1	4	5	75	1	3
MEDC 305	Organizational Behavior and Leadership	15	1	0	1	4	5	75	1	3
MEDC 306	Strategic Planning and Organizational Structure	15	1	0	1	4	5	75	1	3
MEDC 307	Change Management and Conflict Management	15	1	0	1	4	5	75	1	3

رابعاً : مقررات طبية متنوعة

Code	Title	Weeks	Didactic Hours	Practical Hours	Contact Hours	Self Study Hours	Workload Hours	Student Workload	Credit Hours	Credit Points
MEDC 401	Stem Cell Applications and Tissue Engineering	15	1	0	1	4	5	75	1	3
MEDC 402	Laser, Endoscopy and Robotic Surgery	15	1	0	1	4	5	75	1	3
MEDC 403	Infection Control and Hospital Acquired Infection	15	1	0	1	4	5	75	1	3
MEDC 404	Medical Ethics and Malpractice	15	1	0	1	4	5	75	1	3
MEDC 405	Molecular Biology and Gene Therapy	15	1	0	1	4	5	75	1	3
MEDC 406	Interventional Radiology, PET-CT and Image-guided Surgery	15	1	0	1	4	5	75	1	3
MEDC 407	Clinical Psychology	15	1	0	1	4	5	75	1	3

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

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

Program coordinator and head of department

name.....signature.....Date.....

Head of quality assurance unit:

name.....signature.....Date.....