



كلية الطب
جامعة أسوان



Faculty of Medicine
Quality Assurance Unit

Master (MSc) Degree Program and Courses Specifications for **Medical Parasitology**

(According to currently applied **Credit point bylaws**)

Medical Parasitology
Faculty of medicine
Aswan University
2022-2023

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Aswan University
Faculty of Medicine
Quality Assurance Unit (QAU)

كلية الطب
وحدة ضمان الجودة

Master degree of Medical Parasitology

A. Basic Information

- + Program Title: Master degree of Medical Parasitology
- + Nature of the program: Single.
- + Department (s) responsible:
Department of Medical Parasitology, Faculty of Medicine,
Assiut University
- + Program Academic director: head of the department:
+ Prof. Dr/ Ahmed Kamal Dyab
- + Coordinator (s):
 - Principle coordinator: Dr/ Doaa Abdel Hafeez Yones
 - Assistants coordinator: Dr/ Nahed Ahmed Elossily
- + Internal evaluators:
 - Prof Dr/ Amany Ibraheem Hamza
 - Prof Dr/ Salma Mohamed Abdel Rahman
- + External evaluator:
 - 1 – Prof. Dr. Nabil Shokrany Gabr, Minia University
- + Date of Approval by the Faculty of Medicine Council of
Assiut University: 23-9-2014
- + Date of most recent approval of program specification by the
Faculty of Medicine Council of Assiut University: 22-10-2017
- + Total number of courses: 3 courses + one elective course

B. Professional Information

1- Program aims

- 1- Develop a critical evaluation of techniques used in medical parasitology and for the diagnosis and monitoring of diseases and acquire the ability to provide specialist opinion in parasitology and competency in diagnosis of parasitic diseases.
- 2- Demonstrate a core understanding of concepts associated with the scientific basis of human parasitology.
- 3- Develop within the context of Biomedical Sciences, a comprehensive understanding of communication, research and scientific methods.
- 4- Enable candidates to start professional careers as specialists **not only** in Egypt but recognized abroad.
- 5- To introduce candidates to the basics of scientific medical research.
- 6- Acquire the ability to communicate effectively in verbal and written form with clinical colleagues, administrative personnel, and technical personnel and demonstrate respectful and caring behavior when interacting with patients and their families.
- 7- Acquire life-long habits of reading, literature searches, and consultation with colleagues, attendance at scientific meetings, and the presentation of scientific work that is essential for continuing professional development.

2- Intended learning outcomes (ILOs) for the whole program:

2- Intended learning outcomes (ILOs) *for the whole program:*

2/1 Knowledge and understanding:

- A- Explain essential facts and principles of relevant basic sciences related to medical parasitology.
- B. Mention essential facts of clinical supportive sciences related to Parasitology.
- C. Demonstrate sufficient knowledge of the main subjects related to medical parasitology.
- D- Give the recent and update developments in the most important themes related to medical parasitology.
- E- Mention the basic ethical and medicolegal principles that should be applied in practice and are relevant to medical parasitology.
- F- Mention the basics and standards of quality assurance to ensure good practice in the field of Parasitology.
- G- Mention the ethical and scientific principles of medical research methodology.
- H- State the impact of common problems related to the field of medical parasitology on the society and how good practice can improve these problems.

2/2 Intellectual outcomes

- A- Correlate the relevant facts of relevant basic and clinically supportive sciences with reasoning, diagnosis and management of common problems of parasitological practice
- B- Demonstrate an investigatory and analytic thinking approach (problem solving) to common clinical or practical situations related to parasitology.
- C- Design and /or present a case or review (through seminars/journal clubs.) in one or more of common themes or problems relevant to parasitology
- D- Formulate management plans and alternative decisions in different situations in the field of parasitology.

2/3 Skills

2/3/1 Practical skills

- A. Demonstrate competently relevant laboratory skills related to Parasitology.
- B. Use the up to date technology for the conditions related to Parasitology.
- C. Develop plans for performing experiments related to Parasitology.
- D. Carry out common experiments related to Parasitology.
- E. Counsel and educate students, technicians and junior staff, in the lab about conditions related to Parasitology; including handling of samples, devices, safety and maintenance of laboratory equipments.
- F. Use information technology in some of the situations related to Parasitology.
- G. Share in providing health care services aimed supporting patient care, solving health problems and better understanding of the normal structure and function.
- H. Write competently all forms of professional reports related to the parasitological diagnosis (lab reports, experiments reports).

2/3/2 General skills

- Practice-based Learning and Improvement
- Interpersonal and Communication Skills
- Professionalism/
- Systems-based Practice

Practice-Based Learning and Improvement

- A. Perform practice-based improvement activities using a systematic methodology (share in audits and risk management activities and use logbooks).
- B. Appraises evidence from scientific studies.
- C. Conduct epidemiological Studies and surveys
- D. Perform data management including data entry and analysis and using information technology to manage information, access on-line medical information; and support their own education.
- E. Facilitate learning of students, lab technical staff and other health care professionals including their evaluation and assessment.

Interpersonal and Communication Skills

- F- Maintain therapeutic and ethically sound relationship with patients, their families, lab technical staff and other health professionals.
- G- Elicit information using effective nonverbal, explanatory, questioning, and writing skills.
- H- Provide information using effective nonverbal, explanatory, questioning, and writing skills.
- I- Work effectively with others as a member of a team or other professional group.

Professionalism Intended learning outcomes

- J- Demonstrate respect, compassion, and integrity; a responsiveness to the needs of patients and society.
- K- Demonstrate a commitment to ethical principles including provision or withholding of clinical care, confidentiality of patient information, informed consent, and business practices.
- L- Demonstrate sensitivity and responsiveness to others' culture, age, gender, and disabilities.

Systems-Based Practice Intended learning outcomes

- M- Work effectively in relevant academic and health care delivery settings and systems including good administrative and time management.
- N- Adopt cost-effective practice and resource allocation that does not compromise quality of services.
- O- Assist patients in dealing with system complexities.

3- Program Academic Reference Standards (ARS) (Annex 2)



Academic standards for master degree in Medical Parasitology

Assiut Faculty of Medicine developed master degree programs' academic standards for different academic specialties.

In preparing these standards, the General Academic Reference Standards for post graduate programs (GARS) were adopted. These standards set out the graduate attributes and academic characteristics that are expected to be achieved by the end of the program.

These standards were approved by the Faculty Council on 17-6- 2009. These standards were revised and approved without changes by the Faculty Council on 23-9-2014.

4- Program External References (Benchmarks)

1. ACGME (Accreditation Council for Graduate Medical Education).
http://www.acgme.org/acWebsite/navPages/nav_Public.asp
2. West Virginia university residency program for Parasitology
<http://www.hsc.wvu.edu/som/parasitology/residency/>
- 3- University of Alberta www.ualberta.ca
- 4- Collage of American parasitologists (CAP)

5. Program Structure and Contents

A. Duration of program: 3-5 years

B. Structure of the program:

Total number of points: 180 (20 out of them for the thesis)

Didactic 32 (17.8%), practical 126 (70 %) thesis 20 (11.1%) elective courses 2 (1.1)

Total 180

First part

Didactic 10 (25 %), practical 30 (75%). total 40

Second part

Didactic 24 (20%) practical 96 (80%). total 120

According the currently applied bylaws:

Total courses 160 CP

Compulsory courses: 98.9%

Elective course: 2 credit point: 1.1%

Courses	Points	% from total
▪ Basic science courses	18	10
Humanity and social courses	2	1.1%
▪ Speciality courses	140	77.8
▪ Others (Computer, ...)		
▪ Field training	106	58.9%
Thesis	20	11.1%

C. Program Time Table

A. Duration of program 3 years maximally 5 years divided into

- **Part 1: (One year)**

Program-related basic science courses and ILOs + elective courses

Students are allowed to sit the exams of these courses after 12 months from applying to the M Sc degree.

One elective course can be set during either the 1st or 2nd parts.

- **Thesis**

For the M Sc thesis;

MSc thesis subject should be officially registered within 6 months from application to the MSc degree,

Discussion and acceptance of the thesis could be set after 12 months from registering the MSc subject;

It should be discussed and accepted before passing the second part of examination)

- **Part 2 (2 years)**

Program –related speciality courses and ILOs

Students are not allowed to sit the exams of these courses before 3 years from applying to the MSc degree.

The students pass if they get 50% from the written exams and 60% from oral and clinical/practical exams of each course and 60% of summation of the written exams, oral and clinical/practical exams of each course

Total degrees 1900 marks.

700 marks for first part

1200 for second part

Written exam 40% - 70%.

Practical and oral exams 30% - 60%.

D. Curriculum Structure: (Courses): Courses of the program:

Modules/ Units delivering courses and student work load list	Course Code	Core Credit points		
		Didactics	training	total
First Part				
Basic Course (8 CP) 1) Course 1: methodology of research 2) Any basic course	PAR209A PAR209B	4 4		8
Elective courses*		2 CP		
Practical training and scientific activities				
A. Practical training in compulsory academic Basic science courses (10 CP) 1) Course 1: methodology of research 2) Any basic course	PAR209A PAR209B	4 6		10
B. Practical training in Speciality course (20 CP)	PAR208A	20		20
Total of the first part		40		
Second Part		Speciality courses Speciality Clinical Work		
Speciality Courses 3) Course 3 Medical Parasitology (advanced)	PAR208A	24		24
Training and practical activities in Medical Parasitology (96 CP)	PAR208A	96		96
Total of the second part		24	96	120
Thesis		20		
Total of the degree		180		

Didactic (lectures, seminars, tutorial)

* Elective courses can be taken during either the 1st or 2nd parts.

Student work load calculation:

Work load hours are scheduled depending on the type of activities and targeted competences and skills in different courses

Elective Courses#:

- Medical statistics.
- Evidence based medicine.

- Medicolegal Aspects and Ethics in Medical Practice and Scientific Research
- Quality assurance of medical education
- Quality assurance of clinical practice.
- Hospital management

One of the above mentioned courses are prerequisites for fulfillment of the degree.

Thesis:

20 CP are appointed to the completion and acceptance of the thesis.

Units	Level (Year)	Credit points		
		Didactic	Training	Total
Unit(module)1: Medical Parasitic Helminthology	2,3	5	17	22
Unit(module) 2: Medical Parasitic Protozoology	2,3	5	17	22
Unit(module) 3: Medical Entomology	2,3	5	15	20
Unit(module)4: Immunoparasitology.	2,3	5	13	18
Unit(module) 5 : Laboratory Techniques	2,3	4	34	38
Total		24	96	120

6. Courses Contents (Annex 1)

The competency based objectives for each course/module/rotation are specified in conjunction with teaching/training methods, requirements for achieving these objectives and assessment methods.

See Annex 1 for detailed specifications for each course/ module

Annex 6 II: Program Matrix

7-Admission requirements

Admission Requirements (prerequisites) if any :

I. General Requirements:

- a. MBBCh Degree from any Egyptian Faculties of Medicine
- b. Equivalent Degree from medical schools abroad approved by the Ministry of Higher Education
- c. One year appointment within responsible department (for non Assiut University based registrars)

II. Specific Requirements:

- Fluent in English (study language)





VACATIONS AND STUDY LEAVE

The current departmental policy is to give working candidate 2 week leave prior to first/ second part exams

FEES:

As regulated by the postgraduate studies rules and approved by the faculty vice dean of post graduate studies and the faculty and university councils.

8-Progression and completion requirements

-  Examinations of the first part could be set at 12 months from registering to the MSc degree.
-  Examination of the second part cannot be set before 3 years from registering to the degree.
-  Discussion of the MSc thesis could be set after 1 year from officially registering the MSc subject before setting the second part exams.
-  The minimum duration of the program is 3 years.

The students are offered the degree when:

1. Passing the exams of all basic science, elective and speciality courses of this program as regulated by the post graduates approved rules by the faculty council.
2. Completing all scheduled CP and log book (minimum 80%).
3. Discussion and acceptance of the MSc thesis.

9- Program assessment methods and rules (Annex IV)

Method	ILOs measured
Written examinations: Structured essay questions Objective questions MCQ Problem solving	K & I
Clinical: Long/short cases OSPE	K ,I, P &G skills
Structured oral	K ,I &G skills
Logbook assessment	All
Research assignment	I &G skills

9-Program assessment methods and rules

Method	ILOs measured
Written examinations: Structured essay questions Objective questions, MCQ, Problem solving	K & I
Practical: OSPE	K ,I, P &G skills
Structured oral	K ,I &G skills
Logbook assessment	All
Research assignment	I &G skills

Weighting of assessments:

Courses		Degrees			
First Part					
	Course Code	Written Exam	Oral Exam	Practical Exam	Total
Basic science courses: research methodology + any basic course	PAR209A	100	50	50	200
		100	50	50	200
Elective course		50	50		100
Second Part					
Speciality Courses:		written	oral	Practical	Total
Medical Parasitology 3	PAR208A				
Paper 1		125	60	60	245
Paper 2		125	60	60	245
Paper 3		125	60	60	245
Paper 4		125	60	60	245
Paper 5		100	60	60	220
Total of the degree		600	300	300	1200

*** 25% of the oral exam for assessment of logbook**

Total degree 1900

700 marks for first part

1200 for second part

Written exam 50 % (850 marks).

Practical and oral exams 50 % (850 marks)

✚ Examination system: according to the bylaw

➤ **First part:**

- Written exam one papers 3 hours in methodology of research and any basic courses according to the bylaw + oral & Practical examination.

➤ **Second part:**

- Written exam five papers 3 hours for first four papers and 2 hours for last paper in Parasitology + oral & Practical examination

➤ **Elective courses**

- Written exam one paper 1 hour in Elective course + Oral exam

10-Program evaluation

By Whom	Method	Sample
Quality Assurance Unit	Reports Field visits	#
Internal evaluators	Report	1
External Evaluator (s):According to department council External Examiner (s): According to department council	Reports Field visits	#
holders	Reports Field visits Questionnaires	#
Senior students	Questionnaires	#
Alumni	Questionnaires	#

#Annex 5 contains evaluation templates and reports (joined in the departmental folder)

11-Declaration

We certify that all of the information required to deliver this program is contained in the above specification and will be implemented.

All course specifications for this program are in place.

Contributor Name	Signature	Date
Program Principle Coordinator: Dr/ Doaa AbdelHafeez Yones		17/9/2017
Head of the Responsible Department (Program Academic Director): Prof. Dr/ Ahmed Kamal Dyab		17/9/2017