



PROGRAM SPECIFICATION Faculty of Medicine- Mansoura University

(A) Administrative information

(1) Program Title & Code	Tropical Medicine
	TROP 500
(2) Final award/degree	Master of Science in Tropical
	Medicine
(3) Department (s)	Tropical Medicine Department
(4) Coordinator	Assistant Prof. Mahmoud Abdel-
	Aziz Abdel-Hamid
(5) External evaluator (s)	Prof. Dr/ Mohamed Abd EL Hamid,
	Faculty of Medicine, Banha
	University
(6) Date of approval by the Department's	May 2016
council	ance the
(7) Date of last approval of program	9-8-2016
specification by Faculty council	

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(B) Professional information

(1) Program Aims.

The broad aims of the program are as follows.

 To provide updated knowledge and understanding of the physiologic background and derangements of infectious disease & tropical disorders
 To provide knowledge and understanding of biochemical aspects of common infectious pathogens and common hepatic & gastrointestinal disorders together with understanding of basics of immune defense mechanisms.

3- To acquire basic knowledge and understanding of the features common infectious pathogens and common microbiological problems together with understanding of basics of immune defense mechanisms.

4- To provide updated knowledge and practical skills in common parasitic diseases and potential emerging/threatening diseases.

5- To provide updated knowledge and understanding of pathologic features and pathogenesis of infectious, hepatic and gastrointestinal diseases.

6-- To acquire basic knowledge of epidemiological methods, communicable, non-communicable diseases, preventive medicine and biostatistics.

7- To provide updated knowledge and clinical skills of cardiovascular, respiratory, gastrointestinal, renal, endocrinal, hematologic and metabolic disorders.

8- To provide updated knowledge. clinical skills and training in scientific medical research and communication skills in tropical and infectious diseases
9- To acquire updated knowledge. clinical skills and training in scientific medical research and communication skills in hepatic and gastrointestinal diseases

10- To provide updated knowledge and understanding of basic and clinical aspects of nutritional diseases.

11- To provide updated knowledge and understanding of basic and clinical aspects of travel associated diseases

(2) Intended Learning Outcomes (ILOs):

Intended learning outcomes (ILOs); Are four main categories. knowledge & understanding to be gained, intellectual qualities, professional/practical and transferable skills.

On successful completion of the program, the candidate will be able to.

A- Knowledge and Understanding

A1. Explain physiologic background of infectious diseases & tropical disorders namely, gastrointestinal, hematological, renal, circulatory, metabolic and endocrinal.

A2- Discuss biochemical aspects of carbohydrates, lipids, proteins, extracellular matrix and immune system

A3- Describe DNA, RNA, genetic code, gene expression, mutation and recombinant DNA techniques

A4. Identify the features of common infectious pathogens in tropical disorders, and infection controlA5. Discuss the different arms of immune defense, types of immune derangement, common immunization and high risk groups.

A6 Describe medically important helminths, protozoa and arthropods and host-parasite interaction A7 List opportunistic, nosocomial and zoonotic infections

A8. Describe pathologic features of different infectious diseases in different systems such as gastrointestinal, hematological, CNS, respiratory, cardiovascular and renal and common nutritional disorders

A9. Identify types the principles of general pathology namely; inflammation, cell injury, immunopathology, infection and neoplasia.

A10. Identify prevalent health problems, different healthcare programs and determinants of health and disease.

A11. Discuss different epidemiologic methods, statistical tests screening tests and different morbidity and mortality indices.

A12. Recognize principles of evaluation and management of various GIT, CVS, renal, respiratory, heamatologic, endocrinal and metabolic disorders

A13. Explain diagnosis and management of life threatening conditions, autoimmune diseases and immunodeficiency diseases

A14. Review laboratory reference intervals and values

A15. Discuss different infectious diseases including life threatening conditions.

A16.Identify locally endemic infectious diseases with emphasis on viral hepatitis and shistosomiasis and worldwide distribution of different infectious diseases.

A17. Discuss up to date knowledge in infectious diseases from scientific interactions and caring for patients and continued medical education CME.

A18. Review basic principles of medical research and medical biostatistics

A19. Discuss up-to-date knowledge in hepatic and gastrointestinal disorders including life threatening conditions from scientific interactions and caring for patients and continued medical education CME.

A20. Explain Nutritional Requirements, relation between infection and malnutrition, enteral and parenteral nutritional therapy

A21. Descibe Traveler's diarrhea, infection care in travelers and fever in returning traveler

B- Intellectual skills

B1. Integrate the basic science of physiology into clinical practice to explain the various phenomena of infectious diseases & tropical and gastrointestinal disorders

B2. Integrate the basic science of biochemistry into clinical practice of infectious disorders, hepatic and gastrointestinal diseases.

B3. Relate the basic science of microbiology to prevention and management of different infectious disorders using infection control and safety measures

B4. Integrate the basic science of parasitology into clinical practice to explain the various phenomena of common parasitic diseases.

B5. Integrate the basic science of pathology into clinical practice to explain the various phenomena of hepatic, GIT and infectious diseases.

B6: Relate the principles of public health and preventive medicine to various health problems.

B7: Calculate indices of a specific health problem and test the association between certain outcome and an exposure

B8. Construct appropriate management strategies for patients with common medical and critical conditions

B9. Construct appropriate management strategies for patients with common endemic and infectious diseases

- B10. Predict appropriate tests for detecting patients at risk or in the early stage of endemic and infectious diseases and determine strategies for responding appropriately
- B11. Recognize and cope with uncertainty by using appropriate cognitive and intellectual strategies to deal with uncertainty when it arises and share in scientific research designing and reviewing
- B12. Construct appropriate management strategies for patients with common hepatic and

gastrointestinal diseases with assessment of risk and benefit

- B13. Predict appropriate tests for detecting patients at risk or in the early stage of hepatic and gastrointestinal diseases and determine strategies for responding appropriately
- B14. Recognize nutritional deficiencies and select appropriate management strategies for nutritional disorders

B15. Relate geographical distribution of infectious diseases to diagnosis and management of travel associated infection

C- Professional/practical skills

C1. Demonstrate the morphological characteristics and differentiate between the most common helminths and protozoa in parasitology lab

C2 Predict the most frequent clinical, laboratory, radiologic findings of common medical and critical diseases with prioritization of the common possibilities for each problem

C3. Predict the most frequent clinical, laboratory, radiologic findings of common infectious diseases with prioritization of the common possibilities for each problem

C4. Perform and interpret the results of commonly used diagnostic and therapeutic procedures in management of infectious diseases using evidence based medicine

C5. Apply principles of sterilization and infection control regulations on hospital and community levels

C6. Organize medical records and apply epidemiological methods to the investigation, prevention and control of infectious diseases in developing countries

C7. Predict the most frequent clinical, laboratory, radiologic findings of common hepatic and gastrointestinal diseases with prioritization of the common possibilities for each problem

C8. Perform and interpret the results of commonly used diagnostic and therapeutic procedures in management of different hepatic and gastrointestinal diseases using evidence based medicine

C9. Investigate and evaluate their work and that of others and use IT effectively to improve health services.

D- Communication & Transferable skills

- D1. Establish professional relationships with medical patients, their families characterized by understanding, trust, respect and confidentiality
- D2. Maintain a professional rapport with infectious diseases patients, uphold their dignity and respect their privacy
- D3. Manage time and resources effectively, set priorities and work efficiently within the health care team and cope with a changing work environment.
- D4. Solve problems related to patients, work management, and among colleagues.
- D5. Evaluate their work and that of others using constructive feedback.
- D6. Use information and communication technology effectively in the field of medical practice
- D7. Develop and deliver a teaching module and guide learners in a work setting
- D8. Treat hepatic and gastrointestinal patients, their families professionally to make a relation characterized by understanding, trust, respect and confidentiality

(3) Academic standards.

Academic standards for the program are attached in Appendix I. in which NARS issued by the National Authority for Quality Assurance & Accreditation in Education are used.

(4) Curriculum structure and contents.

4.a- Duration of the program : 4 semesters

4.b- program structure.

Candidates should fulfill a total of 45 credit hours

•4.b.1. Number of credit hours.

First part: 8	Second part: 29	Thesis: 6	scientific activities: 2
- Lectures: 5	- Lectures :18		
-practical: 3	- Clinical:11		
•4.b.2: Teaching hours:			
Lectures: 345	Clinical/lab: 330	clinical	Total:825
	120	field	
	30 g	oractical	

(5) Programme courses.

First part.

Course Title	Cours			NO. of	hours p	oer we	ek	Total	Program ILOs	
	Code	Theor	etical	Laboratory /practical	clinical	Field	Credit hours	hours	(REFERRING TO	
		Lectures	seminars						MATRIX)	
Physiology	TROF 503	1/2					1/2	7 1⁄2	A1, B1	
Biochemistry	TROF 504	1/2					1/2	7 1⁄2	A2, B2	
Microbiology	TROF 507	1/2					1/2	7 1⁄2	A3-A5, B3	
Parasitology	TROF 508	1/2		1			11/2	7 ½ lecture 30 lab.	A6, A7, B4, C1	
Applied Pathology	TROF 505	1					1	15	A8-9, B5	
Public Health	TROF 518	1					1	15	A10-11, B6-7	
Internal Medicine	TROI 510	1			2		3	15 lecture 60 clinical	A12-14, B8, C2, D1	
TOTAL		5		1	2		8	75 lecture 30 practical 60 clinical		

Second part

a– **Compulsory courses** (thesis will be included in this table):

Course Title	Course		1	NO. of hours p	er weel	(Total	Program
	Code	Theor	etical	Clinical	Field	Credit hours	teaching	ILOs covered
							hours	(KEFEKKING
		Lectures	seminars					TO MATRIX)
Tropical Medicine	TROP	9		5		14	135 lecture	A15-18,
&	512 TIE						150 clinical	B9-11, C3-6,
Infectious diseases								D2-7
Tropical	TROP	8		4	2	14	120 lecture	A18-19,
Gastroenterology	512 HGIT						120 clinical	B11-13, C5-9,
and Hepatology							120 field	D3-8
Total		17		9	2	28	255 lecture	
							270 clinical	
							120 field	
Thesis						6		
Scientific activities						2		

b- Elective courses.

Course Title	Course		NO	. of hours per	week		Total	Programme
	Code	Theor	etical	practical	Field	Credit hours	teaching hours	ILOs covered
		Lectures	seminars				nouis	TO MATRIX)
Nutritional disorders	TROP 512 NUT	1				1	15 lecture	A20, B14
Traveler Medicine	TROP 512 TRV	1				1	15 lecture	A21, B15
TOTAL		1				1	15 lecture	

Students choose only one corse of the following:

Program-Courses ILOs Matrix

Course																																																							
Code	a1	a2	a3	a4	a5	a6	a7	7 a8	a a	9 a1	0 a1	1a1	2a1	.3 a	14 a1	15 a1	16 a	17 a	18a	19a	20	a21	b1	b	b	3 b	4 b5	be	b7	b8	b	9 b1	1(b1	1 1 b1	12b1	3b1	4b1	5c1	c2	c3	c4	c5	c6	c7	7 c8	c c) d1	d2	2 d3	d 4	1 d5	5 d(5 d 7	7 d	18
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Biochem		x																						x																				1										T	-
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Parasito						X	x																			X												X	(
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	A1-4	A5-8	A9-12	A13-16	A17-A20	A21	B1-4	B5-8	B9-13	B14-15	C1-4	C5-9	D1-4	D5-8
Objective 1	X						x							
Objective 2	X						x							
Objective 3	x	x					x							
Objective 4		x					x				X			
Objective 5		x	x					x						
Objective 6			x					x						
Objective 7			x	x				x			x		x	
Objective 8				x	x				x		X	x	x	x
Objective 9					x				x			x		x
Objective 10					x					x				
Objective 11						X				X				

Program-objectives ILOs Matrix.

Program-methods of assessement ILOs Matrix.

	A1-4	A5-8	A9-12	A13-16	A17-A20	A21-22	B1-4	B5-8	B9-13	C1-4	C5-9	D1-4	D5-8
	N N	N		N		2/	24	1/					
written	X	x	X	x	X	X	X	X					
1400	v	v	v	v	Y	Y	v	x	v				
MCQ	^	^	^	^	^	Λ	^	Λ	~				
Oral	x	x	x	x	X	x	x	x	x				
OSCE									X	X	X	X	x

Academic standards (NARS) - Courses ILOs Matrix (Master degree)

(6) Program admission requirements.

General requirements.

By laws regulating post graduate Studies.

Specific requirements.

(7) Regulations for progression and program completion.

First part.

• Minimally accepted attendance is 75%.

Second part

1- Attendance Criteria.

- Minimally accepted attendance in each course is 75%.

2-Log book.

-for attending

- Conferences: at least 3 conferences
- Thesis discussions: at least 75% of thesis discussed in the department
- Seminars: at least 75% of Tropical medicine Department seminars
- Workshops: at least 2 workshops related to the research field

-The log should be fulfilled and signed by Head of the department.

3-Practical work.

- Training skills and experience in.
 - o Abdominal paracentesis
 - o Thoracocentesis
 - Abdominal ultrasonograpy.

- Ultrsound guided liver biopsy.
- Diagnostic and therapeutic Upper gastrointestinal endoscopy.
- Sigmoidoscopy and rectal snip.
- Diagnostic and therapeutic Colonoscopy.
- Rotation according to the schedule determined by the supervisors

4- seminars.

-at least 5 seminars in topics determined by the supervisors must be prepared and presented by the candidate

Evaluator	Tools*	Sample size
Internal evaluator (s)	QUESTIONNAIRE,	
Prof. Mahmoud El-Bendary	INTERVIEW, WORKSHOP,	
	COMMUNICATION,	
	E_MAIL	
External Evaluator (s)	INTERVIEW, E_MAIL	
Prof. Dr/ Mohamed Abd El Hamid,		
Faculty of Medicine, Banha		
University		
Senior student (s)		
Alumni		
Stakeholder (s)		
Others		

(8) Evaluation of Program's intended learning outcomes (ILOs):

* TOOLS= QUESTIONNAIRE, INTERVIEW, WORKSHOP, COMMUNICATION, E_MAIL

We certify that all information required to deliver this programme is contained in the above specification and will be implemented. All course specification for this programme are in place.

Program coordinator.	Signature & date.
Name: Assistant Prof. Mahmoud Abdel-Aziz	
Abdel-Hamid	
Assistant. Dr Mohamed El Diasty	
Dr Walaa Shabana	
Dean:	Signature & date:
Name: Prof. Dr. Saeed Abdel Hady	
Executive director of the quality assurance unit.	Signature & date:
Name: Prof. Dr. Seham Gad El–Hak	

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