



## PROGRAMMESPECIFICATION

Faculty of Medicine– Mansoura University

### (A) Administrativeinformation

(1) Programme Title& Code	Tropical Medicine TROP 600
(2) Final award/degree	Medical Doctorate in Tropical Medicine
(3) Department (s)	Tropical Medicine
(4) Coordinator	Mahmoud Abdel–Aziz Muhammad Diasty WalaaShabana
(5) External evaluator (s)	Prof. Dr/ Muhammad Abdul–Hamid, Faculty of Medicine, Banha University
(6) Date of approval by the Department`s council	May 2016
(7) Date of last approval of programme specification by Faculty council	9-8-2016

## **(B) Professional information**

### **(1) Programme Aims.**

The broad aims of the programme are as follows.

**A1-Provide updated knowledge and understanding of the physiologic background and correlation to infectious disease & Tropical disorders to obtain clinical and practical benefits.**

**A2-Enable students to understand the pathology of infective agents and their interaction with the host and to use this knowledge in combination with epidemiological and public health approach to develop rational strategies for the control and treatment of infections, also gaining clinical experience in management of Tropical, endemic and infectious diseases.**

**A3-Provide students to understand the biology of infective agents and their interaction with the host and to use this knowledge in combination with epidemiological and public health approach to develop rational strategies for the control and treatment of infections, also gaining clinical experience and attitude in management of Tropical, endemic and infectious diseases.**

**A4-Acquire skills and attitudes to understand the mechanism and biological aspects of hepatic disorders and their interaction with the host and to use this knowledge in combination with epidemiological and public health approach to develop rational strategies for the control and treatment of liver diseases.**

**A5-Understand the pathogenesis and biology of gastrointestinal disorders and their interaction with the host and to use this knowledge in combination with epidemiological and public health approach to develop rational strategies for the control and treatment of these disorders, also to gain clinical experience in management of gastrointestinal diseases and its sequelae on the society.**

**A6-Understanding the economic, psychological, occupational, social, and cultural factors concerning the geriatric medicine and getting experience in how to deal with this sensitive aspect of disorders.**

**A7-Enable students to understand the essentials and basics of ICU concerning the hepatic patient and to use this knowledge in combination with epidemiological and public health approach to develop rational strategies for the control and treatment of various hepatic emergency problems.**

## (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 programme, the candidate will be able to:

### A-Knowledge and Understanding

- A1. Explain physiologic background of infectious diseases & tropical disorders namely, body temperature, food, circulation, gastrointestinal tract and liver.
- A2. Identify the essentials and core material of general pathological conditions concerning general pathology, liver, gastrointestinal tract, lymphatic system, nervous system and malignancies, and describe its relationship and clinical implications related to infectious processes.
- A3. Define the biology of infection in all the areas of: bacterial, viral, and parasitic infection as well as nutrition, hospital infection and diagnostic methods and immunology.
- A4. Discuss the etiology, pathogenesis, clinical features, complications, principles of prevention and management of common and life-threatening tropical and infectious illnesses affecting the body and each of its major organ systems.
- A5. Identify clinically applicable knowledge of the basic and clinical sciences that underlie the practice of infectious diseases.
- A6. Identify locally endemic infectious diseases with emphasis on viral hepatitis and shistosomiasis and worldwide distribution of different infectious diseases.
- A7. Identify the major disorders affecting the liver and recognize clinical, laboratory, radiological and pathological aspects concerning these topics.
- A8. 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.
- A9. Discuss up to date knowledge in infectious diseases from scientific interactions and caring for patients and continued medical education CME.
- A10. Identify recent trends of disorders affecting the gastrointestinal tract and recognize clinical, laboratory, radiological and pathological aspects concerning these topics.

- A11. Define the disorders affecting the geriatrics and recognize the most recent and relevant updated information concerning diseases and preventive measures dealing with them.
- A12. Recognize all about most of disorders concerning the ICU management of hepatic patients.
- A13. Explain how epidemiological methods can be applied to the investigation of infectious disease in developing countries and how these methods can inform disease control.
- A14. Express the relative certainties of a differential diagnosis of common clinical problems presenting to doctors in primary health care setting, hospital and community, with emphasis on the importance of their relative incidences in establishing the diagnosis, also on early manifestations of serious diseases and emergencies.
- A15. Describe the determinants of health and principles of disease prevention and behavior change appropriate for specific patient populations within the community and internationally, and apply these to patient care responsibilities and broader patient care initiatives (natural history of disease and relationships with risk factors and disease prevention).
- A16. Demonstrate an understanding of the power of the scientific method in establishing the causation of disease and efficacy of traditional and non-traditional therapies.

## B- Intellectual skills

- B1-Evaluate the basic science of physiology and assess clinical practice to explain the various phenomena of infectious diseases, tropical and gastrointestinal disorders
- B2-Formulate the basic science of pathology and manage clinical practice to explain the various phenomena of pathological disorders
- B3-Construct appropriate management strategies (both diagnostic and therapeutic) for patients with common infectious medical conditions, both acute and chronic conditions, and those requiring short- and long-term treatment.
- B4-Formulate the basic science of hepatology into clinical practice to estimate the various phenomena of hepatic disorders using infection control and safety measures
- B5-Construct appropriate management strategies for patients with common gastrointestinal conditions, both acute and chronic, and those requiring short- and long-term treatment.
- B6-Formulate and construct an initial course of management for patients with serious gastrointestinal conditions requiring critical care
- B7-Construct appropriate management strategies for geriatric patients with common endemic medical conditions, both acute and chronic conditions, and those requiring short- and long-term treatment.
- B8-Evaluate the basic science of ICU for hepatic patients and assess clinical practice to explain the various phenomena of infectious diseases, tropical and gastrointestinal disorders
- B9-Formulate and construct an initial course of management for patients with serious infectious conditions requiring critical care
- B10-Recognize and cope with uncertainty by; accepting that uncertainty is unavoidable in the practice of medicine and using appropriate cognitive and intellectual strategies to deal with uncertainty when it arises.
- B11-Assess factors that place individuals at risk for disease or injury, to select appropriate tests for detecting patients at risk for specific diseases or in the early stage of disease, and to determine strategies for responding appropriately
- B12- Retrieve, analyze, and synthesize relevant and current data and literature, using information technologies and library resources, in order to help solve a clinical problem (EBM)
- B13- Propose clinical decisions utilizing methods, which integrate the best research

evidence with clinical expertise and patient values (EBM)

C- Professional/practical skills

- C1-Organize the most frequent clinical, laboratory, radiologic findings of common infectious diseases with prioritization of the common possibilities for each problem
- C2-Categorize hepatic problems and select the most appropriate and cost effective diagnostic procedures for each problem. Interpret patient's history, physical symptoms, physical signs and laboratory test findings in terms of anatomic, pathologic and functional diagnostic significances.
- C3-Predict the most frequent clinical, laboratory, radiologic findings of common medical and critical 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 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 gastrointestinal diseases using evidence based medicine
- C9-Select, perform and Interpret the results of commonly used diagnostic procedures such as electrocardiography, abdominal ultrasonography, upper and lower gastrointestinal endoscopy.
- C10-Appropriate management strategies for patients with gastro-intestinal hemorrhage, both in acute and chronic states, and those requiring short- and long-term treatment.

#### D- Communication & Transferable skills

- D1- Establish professional relationships with patients, their families (when appropriate) and community that are characterized by understanding, trust, respect, sympathy and confidentiality.
- D2- Deliver information to the patient and family (as appropriate) in a human manner, and in such a way that it is easily understood, encourages discussion and promotes the patient's participation in decision-making.
- D 3- Demonstrate altruism, honesty and integrity and respect in all interactions with patients, families, colleagues, and others with whom physicians must interact in their professional lives.
- D 4- Work collaboratively with other health professionals in other disciplines to maximize patient benefits and minimize the risk of errors.
- D 5- Write clear and concise medical records including: admission sheets, progress notes, and physician' orders, referrals for consultation, discharge summaries and follow up notes.
- D 6- Awareness of the ethical behavior expected of doctors towards patients with recognition of patients' rights, particularly with regard to confidentiality and informed consent.
- D 7- Make effective use of information technology as web and internet. Database work.

**(3) Academic standards.**

Academic standards for the programme 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 programme:120 weeks

4.b-programme structure.

Candidates should fulfill a total of 45 credit hours

		First part	Second part	Total
Number of credit hours.	lectures	5	25	42 credit hour
	Practical	-	8	
	Field	-	4	
Teaching hours/week	lectures	75	375	930 teaching hour
	Practical	-	240	
	Field	-	240	
Scientific activities	3			3
Thesis	15			15

(5) Programme courses:

First part

a- Compulsory courses:

Course Title	Course Code	NO. of hours per week				Total teaching hours	Programme ILOs covered (REFERRING TO MATRIX)	
		Theoretical		Laboratory /practical	Field			Credit hours
		Lectures	seminars					
Physiology	TROP 603	30				2	30	
Applied Pathology	TROP 605	45				3	45	
<b>TOTAL</b>		<b>75</b>				<b>5</b>	<b>75</b>	

Second part

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

Course Title	Course Code	NO. of hours per week				Total teaching hours	Program ILOs covered (REFERRING TO MATRIX)	
		Theoretical		Clinical	Field			Credit hours
		Lectures	seminars					
Tropical Medicine & Infectious diseases	TROP 612 TM	8		4		12	120 lecture 120 clinical	A15-18, B9-11, C3-6, D2-7
Tropical Hepatology	TROP 612 HEP	8		2	2	12	120 lecture 60 clinical 120 field	A18-19, B11-13, C5-9, D3-8
Tropical Gastroenterology	TROP 612 GIT	7		2	2	11	105 lecture 60 clinical 120 field	
<b>Total</b>		<b>23</b>		<b>8</b>	<b>4</b>	<b>35</b>	<b>345 lecture 240 clinical 240 field</b>	
Thesis						15		
Scientific activities		3				3		

**b- Elective courses:**

Students choose only one course of the following:

Course Title	Course Code	NO. of hours per week				Total teaching hours	Programme ILOs covered (REFERRING TO MATRIX)	
		Theoretical		practical	Field			Credit hours
		Lectures	seminars					
Geriatric liver disease	TROP 612 GLD	2				2	30 lecture	A20, B14
Basic ICU management for hepatic patients	TROP 612 ICU	2				2	30 lecture	A21, B15

## Programme–Courses ILOs Matrix

Programme ILOs are enlisted in the first row of the table (by their code number: a1, a2.....etc), then the course titles or codes are enlisted in first column, and an "x" mark is inserted where the respective course contributes to the achievement of the programme ILOs in question.

P.S. All courses` specifications are attached in Appendix III.

Course Title/Code	A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	A11	A12	A13	A14	A15	A16	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12	B13
Physiology	x																x												
Pathology		x																x											
Tropical			x	x	x	x			x				x	x	x	x			x										
Hepatology							x	x						x	x	x				x									
GIT								x		x				x	x	x					x	x							
Geriatrics											x												x						
ICU												x												x					

Course Title/Code	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	D1	D2	D3	D4	D5	D6	D7
Physiology																	
Pathology																	
Tropical	x		x	x	x	x			x						x		x
Hepatology		x	x				x		x	x	x	x	x	x	x		x
GIT			x					x	x	x	x	x		x	x	x	x
Geriatrics																	
ICU																	

**Program-objectives ILOs Matrix:**

	A1	A2	A3-6	A7-8	A9-12	A13-16	B1	B2	B3	B7	B4	B8	C1-4	C5-7	C8-10	D1-4	D5-7
Objective 1	X						X										
Objective 2		x						x									
Objective 3			x		x	x	X		x				x	x	x		x
Objective 4				x		x					x		x	x	x	x	x
Objective 5				x	x	x							x		x	x	x
Objective 6					x					x							
Objective 7					x							x					

**Program-methods of assessment ILOs Matrix:**

	A1-4	A5-8	A9-12	A13-16	A17*	A16	B1-4	B5-8	C1-3	C4-7	C8-10	D1-4	D5-7
Written	X	X	X	X	X	X	X	X					
MCQ	X	X	X	X	X	X	X	X					
Oral	X	X	X	X	X	X	X	X					
OSCE								x	x	X	X	X	X

**Academic standards (NARS) –Courses ILOs Matrix (MD degree)**

**(6) Programme admission requirements.**

● **General requirements.**

By laws regulating post graduate Studies.

● **Specific requirements (if applicable).**

**(7) Regulations for progression and programme 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.
  - Abdominal paracentesis
  - Thoracocentesis
  - Abdominal ultrasonography.
  - Ultrasound 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

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

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

\* 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.	
<b>Program coordinators:</b> Prof. Mahmoud Abdel-Aziz Dr Mohamed El Diasty Dr WalaaShabana	Signature & date:
<b>Dean:</b> Prof. Dr. Saeed Abdel Hady	Signature & date:
<b>Executive director of the quality assurance unit:</b> Prof. Dr. Seham Gad El-Hak	Signature & date:

P.S. The programme specification should have attached to it all courses specifications for all courses listed in the matrix.