



**Department of Tropical Medicine and infectious diseases** 

**Program Specifications (semesters)** 

**Tropical Medicine and Infectious diseases** 

**Doctorate degree** 

2024-2025

Tropical Medicine and Infectious Diseases Doctorate Degree Program Specifications

University: Tanta	Faculty: Medicine	Department:	Tropical	medicine	licine and			
		infectious dise	ases					
		•			-			

## A- Basic information

1-Program title: Tropical Medicine and Infectious Diseases Doctorate degree

## 2-Program Code: TROP 900

**3- Program coordinator:** Prof. Ferial El-Kalla. Professor of Tropical medicine and infectious diseases, Tanta University.

**4- Program internal evaluator:** Prof. Fathya Asal. Professor of Tropical medicine and infectious diseases, Tanta University.

**5- Program external evaluator:** Prof. Hassan Elbatea. Professor of Tropical medicine –

Kafr Elsheikh University

6-Date of approval:3/11/2024

## 7-Departments offering the courses of the program:

Tropical Medicine and Infectious Diseases department

Anesthesiology, surgical intensive care and pain management department

Internal Medicine department

## **B\_ Professional information**

## 1 – Overall program aims

Our program aims to enable the candidates to expand their levels of knowledge, skills, and attitude, producing an academic specialist able to add new in the fields of tropical medicine, infectious diseases, hepatic, gastrointestinal and nutritional diseases research, teach junior students, and implement an ethical and professional medical practice.

## 2 - Intended learning outcomes (ILOs):

## a- knowledge and understanding:

By the end of the program graduates should be able to:

a.1-Define the basic theories, principles, and updates in pathogenesis of endemic and infectious diseases (viral, bacterial, parasitic, etc.) at physiological, pathological, and clinical levels

a. 2- Discuss the theories, principles, and updates in pathogenesis of hepatic and gastrointestinal diseases at physiological, pathological, and clinical levels.

a.3-Define the basic theories, principles, and updates in pathogenesis of nutritional disorders at physiological, pathological, and clinical levels.

a.4-List the principles, methods, ethics, and various tools of medical research.

a.5- List the ethical and legal principles of medical and professional practice.

a.6- Outline the principles of quality assurance in medical practice.

a.7- Outline the effect of medical practice on the surrounding environment, and how to develop and protect the environment (current infections in Egypt and worldwide, syringe disposal, tissue and blood specimen transport ...etc.). a.8-recognize the internal medical insults commonly associated and indications of CCU admission in patient with hepatogastroentrology or infectious diseases. **b-Intellectual skills** 

By the end of the program, graduates should be able to:

b.1-Analyze medical problems referring to their roots in basic science.

b. 2-Interpret common medical problems related to endemic and infectious diseases.

b. 3- Interpret common medical problems related to hepatic diseases.

b. 4- Interpret common medical problems related to gastrointestinal diseases.

b. 5- Interpret and solve common medical problems related to nutritional diseases

b.6- Design a nutritional plan for management of infectious, hepatic and gastrointestinal diseases.

b.7- Plan medical research to add new to the specialty.

b.8- Design medical research papers.

b.9-Evaluate risks in medical practice (nosocomial infections, care for infectious cases...etc.).

b.10- Plan to further their career practice as tropical medicine consultants.

b.11- Design professional medical decisions according to different situations when facing medical problems (during the clinical training course).

b.12- Design solutions to medical problems in the specialty (suggest innovative scenarios for controlling infectious diseases, reduce nosocomial infections...etc.).b.13- Discuss medical issues and provide sound evidence-based arguments during the journal club.

b.14- Rationalize the indications of using different treatment modalities in critically ill patients in the field of hepatogastroentrology and infectious diseases. b.15- plane soundly to manage critically ill patients and patients with associated medical problems (renal, endocrinal ...etc) in field of hepatogastroentrology and infectious diseases according to guidelines

## c- Professional & practical skills

By the end of the program, students should be able to:

c.1- Assess the patient using basic and recent professional medical skills in the specialty including abdominal ultrasound examination, diagnostic and therapeutic upper gastrointestinal endoscopy.

c.2- Design a professional medical report related to the career, reflecting case diagnosis and management plans, and respecting medico legal aspects.

c.3- Evaluate medical methods and tools used in the specialty and share in its development and progress.

c.4- use of advanced technological tools to serve their career.

c.5- Plan to develop their career and teach juniors.

c.6- Manage patients with associated medical problems and critically ill patients in hepatogastroentrology and infectious diseases.

c.7- Master CCU practice including basic and advanced life support, arterial sampling, oxygen therapy...etc.

## d- General transferable skills

*By the end of the course, students should be able to:* 

d.1- Judge effectively with patients and their relatives, transferring information about illness in clear and suitable words while respecting individual beliefs and backgrounds.

d.2- Apply basic computer-using skills.

d.3-Revise specified topics in the library books, medical journals, and on the internet (eg. assignments, journal clubs).

d.4- use the practice of self- evaluation, reflection and specify his medical educational needs (eg, through tutorials).

d.5- Assess time effectively and work well in a medical team.

d.6-organize the medical assisting team to apply the best possible medical care for the patients

d.7-Apply life- long continuous medical education.

d.8-Justify adequately with all colleagues in a medical team.

d.9-Apply ethical principles and confidentiality while treating patients.

d.10- Conduct scientific seminars with good time management.

## **3- Academic standards adopted**

Academic standards for postgraduates by The Egyptian Authority for Quality Assurance and Accreditation for Education (NAQAAE) 2009 implemented by the faculty council for medical degree of master on 21/8/2021.

## 4 - Curriculum structure and content:

4-1- Program duration: At least 42 months (6 semesters) from registration

## **4-2- Program structure:**

**1**<sup>st</sup> **part**: (The first semester after registering the degree.) The first part has a total of 10 credit hours.

**Thesis**: The thesis is chosen according to the schedule research plan of the department. 18 credit hours. Candidates should pass the thesis dissertation successfully at least two years after thesis registration & 1 month before the starting date of exams and after passing the1st part to be allowed to enter the exams. No marks are allocated for the thesis but passing it is a must to enter the second part examinations.

**2<sup>nd</sup> part**: (At least 5 semesters, 50 credit hours) Students must attend and participate on a full-time basis all through these semesters at the anesthesiology, surgical intensive care and pain management, internal medicine and tropical medicine and infectious diseases departments, fulfilling 75% of their logbook, passing end semester exams and passing the thesis dissertation to be allowed to enter the final exams. On passing the final exam, students get the degree.

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

Courses titles in the first part

Applied physiology, Applied pathology and Internal medicine courses related to Tropical medicine and Infectious diseases.

*Departments offering the courses*: Tropical medicine department and Internal Medicine department -Faculty of medicine - Tanta University.

Course titles in the second part:

Internal medicine, Critical care, Infectious diseases, Hepatobiliary diseases, and Gastrointestinal diseases (theoretical and clinical)

*Departments offering the course:* Tropical Medicine and Infectious Diseases Department, Tanta University, Internal medicine department and the Anesthesiology, surgical intensive care and pain management department.

	Code	Course Title	No. of taug	t Hours	Total credit hours / course	Covered					
			Theoretical	Clinical							
	TROP 9001	Applied Physiology	15/1		1	a1, b1,b2					
	TROP 9002	Applied Pathology	15/1		1	a1,a2,a3,a4,a5,a6,a7, b1,b2,b5,b6,b7,b8,b 9,d1,d5,d6,d7,d8,d9, d10					
L.	TROP 9003	Internal medicine	45/3	90/3	6	A1, b15, b16, c6 d1,d6, d7, d8	б, c7,				
semester	Elective course faculty		15/1		1						
First	Scientific activities			60/1	1	a4,a5,a6,a7, b9,c4,c5,d8,d10					

	TROP 9004	Internal	75/5	90/3	8	a8, b15, c6, d1,d6,
d ter	Scientific	medicine	15/1		1	a7, a8 a4,a5,a6,a7, b9 c4 c5 d8 d10
Secon	Elective course			60/1	1	a4,a5,a6,b3,b4,b9,d2 ,d3,d10
ster	TROP 9005	Critical care	75/5	90/3	8	a8, b15, b16, c6, c7, d1,d6, d7, d8
l seme	Scientific activities		15/1		1	a4,a5,a6,a7, b9,c4,c5,d8,d10
Thirc	Elective course			60/1	1	a4,a5,a6,b3,b4,b9,d2 ,d3,d10
lester	TROP 9006	Infectious diseases	75/5	90/3	8	a1,a2,a3,a4,a5,a6,a7, b1,b2,b5,b6,b7,b8,b 9,c1,c2,c3,c4,c5d1,d 5,d6,d7,d8,d9,d10
th sem	Scientific activities		15/1		1	a4,a5,a6,a7, b9,c4,c5,d8,d10
Four	Elective course			60/1	1	a4,a5,a6,b3,b4,b9,d2 ,d3,d10
ter	TROP 9007	Hepatobiliar y diseases	75/5	90/3	8	a1,a2,a3,a4,a5,a6,a7, b1,b2,b5,b6,b7,b8,b 9,c1,c2,c3,c4,c5d1,d 5,d6,d7,d8,d9,d10
semes	Scientific activities		15/1		1	a4,a5,a6,a7, b9,c4,c5,d8,d10
Fifth s	Elective course			60/1	1	a4,a5,a6,b3,b4,b9,d2 ,d3,d10
ster	TROP 9008	Gastrointest inal diseases	75/5	90/3	8	a1,a2,a3,a4,a5,a6,a7, b1,b2,b5,b6,b7,b8,b 9,b10,b11,c1,c2,c3,c 4,c5d1,d5,d6,d7,d8, d9,d10
ı Seme	Scientific activities		15/1		1	a4,a5,a6,a7, b9,c4,c5,d8,d10
Sixt	Elective course			60/1	1	a4,a5,a6,b3,b4,b9,d2 ,d3,d10
Thesis				1080/1 8	18	a2,a3,a4,b3,b6,b9,d3 ,d9
Total					78	

		نحاتات	الإما			المناهج											
مجموع	اكلينيكى	شفوى	عملى	تعييرى	عدد	الساعات	الكود	المقرر.									
الدرجات					الأوراق	المعتمدة		اللذر البلى									
٥.		۳.		۲.	1	١	TROPID 9001	<ol> <li>مقرر علمي وعملي في الفسيولوجيا التطبيقية.</li> </ol>	الجزء								
٥.		۲.		۲.	1	N	TROPID 9002	٢. مقرر علمي وعملي في الباثولوجيا التطبيقية.	الأول								
10.	۳.	٤٠		٨.	1	٦	TROPID 9003	٣. مفرر علمي وعملي في أمر اض الباطنة العامة.	1								
						N		مقررات اختيارية.									
						۱.		أنشطة علمية.									
						١٨			الرسالة								
150.	10.	۱۰۰		50.	N	٨	TROPID 9004	<ul> <li>مقرر علمي واكلينيكي في الباطنة العامة</li> </ul>	الجزء								
	10.	۱۰۰		50.	,	٨	TROPID 9005	<ul> <li>مقرر علمي واكلينيكي في رعاية الحالات الحرجة</li> </ul>	الثانى								
	1			۲	,	٨	TROPID 9006	<ul> <li>٣ مِقْرِرات علمية واكلينيكية في طب المناطق الحارة</li> </ul>									
						Å	TROPID 9007	والأمر اض المعدية									
						٨	TROPID 9008										
						0		متررات اختيارية.									
						0		أنشطة علمية.	1								
10	٤٣٠	٢٠٠		٧٧٠		٧A			المجموع								

درجة الدكتوراة في طب المناطق الحارة والأمراض المعدية (TROPID 900) Medical Doctorate in Tropical Medicine and Infectious Diseases

## Total credit and taught hours of the program:

## First Part:

TROP 9001: Applied physiology: 15 hours theoretical teaching. (1 CH)

TROP 9002: Applied pathology: 15 hours theoretical teaching **(1 CH)** 

TROP 9003: Internal medicine: 2 CH theoretical teaching and 4 CH clinical training **(6CH)**.

*Scientific activities*: 45 contact hours **(1 CH)** *Elective course*: 15 theoretical teaching **(1 CH)** 

## Second Part:

- TROP 9004: Internal medicine: 5 CH theoretical teaching, 3 CH clinical training (8CH)
- TROP 9005: Critical care: 5 CH theoretical teaching, 3 CH clinical training (8CH)
- TROP 9006: Infectious diseases: 5 CH theoretical teaching, 3 CH clinical training (8CH)
- TROP 9007: Hepatobiliary diseases: 5 CH theoretical teaching, 3 CH clinical training (8CH)
- TROP 9008: Gastrointestinal diseases: 5 CH theoretical teaching, 3 CH clinical training (8CH)
- Scientific activities: 225 contact hours (5 CH)
- *Elective course*: 75 theoretical teaching (5 CH)

Theoretical: 30 credit hours =450 hours Clinical training: 18 credit hours = 540 hours Scientific activities: 6 credit hours =360 hours Elective courses: 6 credit hours = 90 hours Thesis: 18 credit hours= 1080 hours Total: 78 credit hours

## Program ILOs versus courses matrix

Program ILO	Program ILOs versus courses matrix																																						
ILOs																																							
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	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	9	1 0	1 1	1 2	11 3	4 15	1	2	3	4	5	6	7	1	2	3	4	5	6	7	8	9	10
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ICDL		*										*					*														*	*							
Applied physiology & pathology	*								*	*																													
Tropical medicine &infectiou s diseases	*	*	*	*	*	*	*	*	*	*			*	*	*	*	*	*	*	*	* *	*	*	*	*	*	*	*	*	*				*	*	*	*	*	*
Scientific meetings				*	*	*											*															*						*	
Elective courses				*	*	*					*	*					*						*			*					*	*							*
Thesis		*	*	*							*			*			*															*						*	

A	caden	emic Reference Standard (ARS)																															
A	RS	А					В									С					d												
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А	1	*																															
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## ILOS versus Academic Reference Standards (ARS)

#### 6 - Program admission and progression requirements:

Registration, progress requirements, and schedule of written exams are provided by the faculty through the post graduate guidebook according to postgraduate bylaws (paragraphs no. 19-22-23-24-25-26-27- 28- 29-30-38-39-40-41-42-43)

#### 7-Program assessment and evaluation:

#### Assessment

Evaluation at the end of each semester is by examination, also continuous evaluation of the thesis and program by half annual reports. The students cannot pass each semester unless they get a grade above C.

#### First part:

The total marks account for 250 marks of the total program marks. Starting at no less than 6 months from the date of registration for the degree and includes courses in applied physiology, applied pathology and internal medicine.

#### Second part:

Accounts for 1250 marks of the total program marks.

It includes 5 semesters:

TROP 9004: Internal medicine

TROP 9005: Critical care

TROP 9006: Infectious diseases

TROP 9007: Hepatobiliary diseases

TROP 9008: Gastrointestinal diseases

Assessment is by written exams (paper 1-paper 2- commentary exam), oral and clinical exams by exam committees nominated by the Tropical Medicine and infectious diseases department council and include:

- Clinical exam (long case)
- Clinical exam (2 short cases)
- Viva (X ray, CT, MRI, ECG)
- Oral exam

Third part: thesis

A total of 78 credit hours distributed as follows:

Part 1 10 credit hours

Part 2: 50 credit hours

Thesis: 18 credit hours

#### **Evaluation of the program:**

- Evaluation by program external and internal evaluator reports.

- Questionnaires filled in by the students.

- Evaluation reports of the faculty internal auditing system.

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

For the students to be awarded the degree they must pass the first- and secondpart exams as well as dissertation of a scientific thesis.

# 8- We certify that all the information required to deliver this program is contained in the above specifications and will be implemented

We verify that the above course information is accurate.

Program coordinator: Prof. Ferial El-Kalla	Signature
Course coordinator: Ass. Prof. Nehad Hawash	Signature
Head of the department: Prof. Dina Ziada	Signature
Head of quality assurance unit: Prof. Dina Ziada	Signature