



Quality Assurance Unit



Tanta University
Faculty of Medicine

Department of Tropical Medicine and Infectious Diseases

Course Specifications

Infectious diseases course

Semester 4

TROPID 9006

Tropical Medicine and Infectious Diseases Doctorate Degree

2024/2025

Infectious diseases course for Tropical Medicine and Infectious Diseases Doctorate Degree Course Specifications

University:
Tanta

Faculty:
Medicine

Department: Tropical medicine and infectious diseases

A- Administrative Information

1- Course title: Infectious diseases course for Doctorate degree of Tropical Medicine and Infectious Diseases.

2- Department offering the program: Tropical Medicine and Infectious Diseases Department.

3- Department responsible for the course: Tropical Medicine and Infectious Diseases Department.

4- Course code: TROPID 9006.

5- Level: Second part

6- No. of credit hours: 8 credit hours

- Theoretical: 5 credit hours = 75 hours
- Clinical: 3 credit hours = 90 hours

NB: parallel to the course during the same semester students have

Scientific activities: 1 credit hour = 60 hours

An Elective course: 1 credit hour = 15 hours

7-Authorization date of course specification: 3/11 /2024

B- Professional Information

1 – Overall Course aims

Our course aims to enable the students to expand their levels of knowledge, skills, and professional attitude producing a clinical specialist able to add new in the fields of tropical medicine and infectious diseases, research, teach junior students, and implement an ethical and professional medical practice reflecting the mission of our faculty and the spirit of our department.

2 – Intended learning outcomes (ILOs):

a-Knowledge and understanding:

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

a.1-Define the basic theories, principles, and updates in pathogenesis, diagnosis, management, control, and prevention of endemic and infectious diseases (viral, bacterial, parasitic, fungal. etc.).

a. 2- Define the basic theories, principles, and updates in pathogenesis, diagnosis, management, control, and prevention of infectious diseases affecting the liver.

a.3- Define the basic theories, principles, and updates in pathogenesis, diagnosis, management, control, and prevention of infectious diseases affecting the gastrointestinal tract.

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- State the recent advances in emerging and re- emerging infections in Egypt and the world.

B-intellectual skills

By the end of the course, 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- Categorize medical material related to the specialties from medical journals and present them in seminars.

b. 4- Plan medical research to add new to the specialty.

b. 5- Prepare medical research papers.

b. 6-Evaluate risks in medical practice (nosocomial infections, care for infectious cases...etc.).

b. 7- Plan to further their career practice as tropical medicine consultants.

b. 8- Design professional medical decisions according to different situations when facing medical problems (during the clinical training course).

b. 9- Design solutions to medical problems in the specialty (suggest innovative scenarios for controlling particular infectious diseases, reduce nosocomial infections...etc.).

b. 10- Discuss medical issues and provide sound evidence- based arguments during the journal club.

C- Professional & practical skills

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

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

c. 2- Compare and interpret common investigation reports related to the specialty (PCR, viral panels, serology, culture and sensitivity tests, lumbar punctures, ascitic fluid analyses, liver function test, CBC, radiology etc.)

c.3- Prepare a professional medical report related to the career, reflecting case diagnosis and management plans, and respecting medicolegal aspects.

c. 4- Evaluate medical methods and tools used in the specialty and share in its development and progress.

- c.5- Improve their patient care practices based on constant self-evaluation and lifelong learning.
- c. 6- Make use of advanced technological tools to serve their career.
- c. 7 - Plan to develop their career and teach juniors.

D- General transferable skills

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

- d.1-Communicate 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 which serve career development.
- d. 3-Search for specified topics in the library books, medical journals, and on the internet (eg. assignments, journal clubs).
- d. 4- Adopt the practice of self- evaluation, reflection and specify his medical educational needs (eg, through tutorials).
- d. 5- Mange time effectively and work well in a medical team.
- d.6- Demonstrate proficient communication skills with peers, superiors and all individuals in a medical team.
- d. 7-Guide the medical assisting team to apply the best possible medical care for the patients
- d. 8- Adopt effective practice of continuous medical education.
- d. 9-Employ ethical principles and confidentiality while treating patients.
- d. 10- Conduct scientific seminars with proficient presentation skills and good time management.

3-Academic reference adopted

Academic standards for postgraduates offered by The Egyptian Authority for Quality Assurance and Accreditation for Education (NAQAAE) 2009) and adopted by the faculty council for medical degree of doctorate in 20/5/ 2018 was adopted as the benchmark.

4-Course contents

Topics	No. of hours / semester			
	Theoreti cal	Clinical training	Scientific activities	Elective course
Infectious diseases	75 (5cr.)	90 (3cr.)	60 (1 cr.)	15 (1cr.)

Detailed curriculum and logbook are annexed

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5-Teaching and learning methods

Lectures, seminars, journal clubs, clinical training, bedside teaching, grand rounds, case presentation, assignments, conference participation observation and hands on practice

Blended learning will be done with 70 % of course contents including (lectures, seminars, journal clubs, conferences and webinars attendance and some case presentations) will be online while the other 30 % including (bed side learning and case presentation) will be face to face at the Tropical medicine and infectious diseases department.

Method of teaching	ILOs
Lectures	a.1- 8
Seminars	a.1- 8, b.3, d.10
Journal clubs	a.8, b.10, d.3,
Clinical training, bedside teaching, case presentation, mortality and morbidity meetings, ward rounds and grand rounds	b.1, b.2, b.6, b.7, b.8, b.9, c.1, c.2, c.3, c.6, c.7, d.1, d.5, d.6, d.7, d.9
Online clinical teaching (incision academy- Tanta university- Tropical medicine- post graduate program)	a.1- 8, b.7, d.2, d.4, d.8
Assignments	C.3, d.2, d.3, d.4,
Conference and workshop participation and attendance	C.3, d.2, d.3, d.8
Thesis	b.4, b.5, c.4

6-Student Assessment

6.1 Theoretical exam to assess (a.1, a.2, a.3, a.4, a.5, a.6, a.7, a.8, b.1, b.2, b.6, b.9, c.2)

6.2 Clinical exam to assess (c.2, c.3, d.1)

6.3 Oral exam to assess (a.1, a.2, a.3, a.4, a.5, a.6, a.7, a.8, b.1, b.2)

6.4 Logbook and workplace assessment to assess (b.6, b.8, b.9, c.1, c.6, c.7, d.1, d.5, d.6, d.7, d.9)

7- Assessment schedule

التقييم المستمر ويشمل تقييم المقررات الدراسية الالزامية والاختيارية في نهاية كل فصل دراسي من خلال الامتحانات ويستصدر للطالب شهادته بالنتيجة وكذلك يشمل التقييم المستمر تقييم المسار البحثي (الرساله) والبرنامج التدريبي من خلال تقارير نصف سنويه.

يرصد في سجل الطالب الدراسي Transcript جميع تقديراته الحاصل عليها في المقررات وتدخل جميعها في حساب **cumulative Grade Point Average (CGPA)** وهو المتوسط التراكمي للدرجات في جميع الفصول الدراسية. ولا يحسب للطالب مقرر حصل فيه على تقدير اقل من (C) ضمن الساعات المطلوبة للحصول على الدرجة . ويجب عليه أعاده دراسة المقرر إذا كان إجباريا ويحق له دراسة مقرر بديل إذا كان اختياريا. وتدخل الدرجات الحاصل عليها في محاولاته في حساب المتوسط التراكمي للدرجات في جميع الفصول الدراسية (CGPA).

ويعقد امتحان نهائي شامل (Final Comprehensive Exam) تحريريا وشفويا وعمليا وإكلينيكي في درجة التخصص بعد اجتياز المقررات الدراسية بنجاح وبمتوسط تراكمي لا يقل عن (C+) وإلا توجب علي الطالب التسجيل في مقررات اختيارية اضافيه أو أعاده بعض المقررات الالزامية لتحسين المتوسط التراكمي للدرجات.

يتقدم الطالب للامتحان النهائي بعد النجاح في الجزء الاول و بعد قبول الرسالة بشهرين على الاقل واجتياز 8 فصول دراسية بنجاح (4 اعوام من تاريخ القيد) و يشترط استكمال الطالب للبرنامج التدريبي المتقدم و استكمال نسبة حضور لا تقل عن 75% من الساعات المعتمدة وان يتقدم بطلب دخول الامتحان مرفقا بة كتيب المتابعة (log book) معتمدا من القسم قبل بداية الامتحان بشهر على الاقل طبقا للمادة 34 من اللائحة

. و يتكون الامتحان من الاختبارات الآتية طبقا للمادة 35 من اللائحة

- 1- اختباران تحريريان مدة كل منهما 3 ساعات الأول في الأمراض المعدية و الثاني في أمراض الكبد و الجهاز الهضمي
- 2- اختباراً تحريرياً مدته ساعة ونصف لحالة يتولى الطالب شرحها وتشخيصها ووصف علاجها
- 3- اختباراً إكلينيكي في الأمراض المعدية و أمراض الكبد و الجهاز الهضمي
- 4- اختباراً شفهي في الأمراض المعدية و أمراض الكبد و الجهاز الهضمي

End of semester theoretical and clinical exams: These are pass or fail exams. The student is required to pass these with a grade of at least C – to be allowed to sit the Final second part of the MD exam.

The final assessment will be included in the second part of the MD final theoretical, clinical and oral exams.

Method of Assessment		Marks / percentage
Final theoretical examination paper 1		250/ 21,66 %
Final theoretical exam paper 2		250/21,66 %
Final theoretical exam paper 3: Case commentary		200/ 16,66%
Final oral examination		200/10 %
Final clinical examination	Long clinical case	150
	Short Clinical case 1	75
	Short Clinical case 2	75
	Viva examination (X-rays, CT, MRI, ECG)	100
	Total clinical marks	400/ 30%
Semester work/ Formative assessment		Logbook
Periodical examinations		Clinical and theoretical exams at the end of each course/semester should be passed with a grade of at least C -
		Logbook
Total		1250/ 100%

8- List of references

8.1 Course notes:

- Handouts of journal clubs and seminars

8.2 Textbooks:

- Spec, A., Escota, G., Chrisler, C., Davies, B. (2020) *Comprehensive review of infectious diseases*. Elsevier.
- Ryan, E., Hill, D., Solomon T., Aronson, N., Endy, T. (2020): *Hunter's Tropical Medicine and Emerging Infectious Diseases*. 10th ed. Elsevier.
- Farrar, J. (2014): *Manson's tropical diseases*. 23rd ed. Saunders/ Elsevier.
- Kasper, L., Fauci, A.S. (2010): *Harrison's infectious diseases*. McGraw-Hill.
- Papadakis, M., McPhee, S., Rabow, M., McQuaid, K., Ghandi, M. (2024): *CURRENT Medical Diagnosis and Treatment 2024*. 63rd ed. Mc Graw Hill Lange.

8.3 Recommended books:

- Beeching, N., Gill, G. (2014): Tropical medicine lecture notes. 7th ed. Wiley-Blackwell
- Macleod, J. G., Japp, A. G., Robertson, C., Hennessey, I. A. M., & Elsevier (Amsterdam). (2013). *Macleod's clinical diagnosis*. Edinburgh: Churchill Livingstone/Elsevier.
- Douglas, G., Nicol, F. and Robertson, C. (2013): *Macleod's clinical examination* 13th edition. Edinburgh: Churchill Livingstone, Elsevier.
- Glynn, M., and Drake, M.D. (2012): *Hutchison's clinical methods: An Integrated Approach to Clinical Practice*. 23rd ed. Edinburgh: Saunders.

8.4 Periodicals and web sites:

- Department Web site:

www.tanta.edu.eg/faculties/medicine/departments/tropical

- www.nlm.ncbi.gov
- Royal society of tropical medicine and hygiene <https://rstmh.org/>
- WHO infectious diseases site: https://www.who.int/topics/infectious_diseases/en/
- CDC infection control site: <https://www.cdc.gov/infectioncontrol/index.html>
- Clinical care options/ Hepatitis <https://clinicaloptions.com>
- Clinical care options/ HIV <https://clinicaloptions.com>
- Clinical care options/ Infectious diseases <https://clinicaloptions.com>
- Medscape/ Infectious diseases: <https://www.medscape.com/infectiousdiseases>
- Medscape/ HIV: <https://www.medscape.com/hiv>
- Uptodate: <https://www.uptodate.com>

- CDs in the electronic library

9-Other resources/ facilities required for teaching and learning to achieve the above ILOs

The department has regular daily lists for abdominopelvic ultrasonography, and upper and lower gastrointestinal endoscopy.

Daily clinics at the unit for control of viral hepatitis.

Weekly HIV clinic.

Outpatient clinics

Inpatient wards.

Free Internet access for international databases is available for all doctorate students through the faculty postgraduate library

The essential textbooks for this course are available either at the department or faculty library

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Topics	No of hours/ semester			
	Lectures 5 cr. (75 h)	Clinical training 3 cr. (90 h)	Scientific activities 1 cr. (60 h)	Elective course 1 cr.
<ul style="list-style-type: none"> ❖ Clinical approach to a case of fever ❖ CNS infections ❖ Respiratory tract infections ❖ Cardiovascular infections ❖ Gastrointestinal tract infections ❖ Blood infections ❖ Genitourinary infections ❖ Skin and soft tissue infections ❖ Systemic infections <ul style="list-style-type: none"> • Malaria • Tuberculosis • Enteric fever • Brucellosis • HIV • Viral hemorrhagic fevers ❖ Filariasis ❖ Deep fungal infections ❖ Anti-microbial medications <ul style="list-style-type: none"> • Anti-viral medications • Anti-bacterial medications • Anti-Fungal medications • Anti-Protozoal medications • Anti-helminthic medications 	Each lecture 1 ½ teaching hours (50 lecture)	-Clinical sheet 10 sessions x1 hours each (10 teaching hours) * Clinical training (Endoscopy, ultrasonography) (20 teaching hours) *Bedside teaching 1.5 hours twice /week for 10 weeks (30 teaching hours) *Case presentation and attendance two hours /week (20 teaching hours) -Clinical case discussion 5 sessions x 2 hours each (10	- Journal club 1 hour/week - Attendance of seminars 2 hours/ week - Attendance of theses dissertations - Attendance of department scientific meetings and scientific days. * Incision academy courses 1hour/week (10 hr *Attendance of conferences - Participatio	

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<ul style="list-style-type: none"> ❖ Biological and immune therapy ❖ Health care associated infections and prevention: <ul style="list-style-type: none"> • Catheter associated UTI • Surgical site infections • Central line blood stream infection • Hospital acquired pneumonia • Ventilator associated pneumonia • Multiple drug resistant {MDR} infection ❖ Immunization and vaccination ❖ Venoms and poisons 		teaching hours)	n in workshops and training courses	
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10-We certify that all the information required to deliver this course 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.....