



Quality Assurance Unit



**Tanta University
Faculty of Medicine**

**Department of Tropical medicine and
Infectious Diseases**

Course Specifications

**Tropical medicine and Infectious Diseases
Fifth Year**

2018-2019

Tropical medicine and Infectious Diseases Fifth Year Course specifications
University: Tanta Faculty: Medicine Department: Tropical medicine and infectious diseases

1- Administrative Information

- **Course title: Tropical medicine and infectious diseases.**
- **Code: TMED.05:01**
- **Department offering the course: Tropical medicine and infectious diseases department.**
- **Program (s) on which this course is given: M.B.B.Ch**
- **Academic year/ Level : Fifth year of M.B.B.Ch**
- **Semester in which the course is given: All the academic year.**
- **Date of approval by department council: 8/7 /2018**
- **Date of approval by faculty council: 25 / 7/2018**
- **Taught hours : In one week**
 - **Lectures: 12 hours / week**
 - **Tutorial: 3 hours given as 30 minutes a day over 6 days.**
 - **Practical: 18 hours. Given as 3hrs daily for 6 days (1 and a quarter hours daily for the clinical round and 1 hour forty five minutes for the case discussion).**
 - **Total: 33 hours.**

2 – Overall Course Aims

Our course aims to:

- **Allow the student to acquire basic scientific knowledge essential to practice medicine at the primary level of health, dealing with health problems commonly met with in clinical practice with proper awareness of the social and community contexts of health care.**
- **Prepare a physician capable of diagnosing, managing, controlling and preventing infectious diseases and diseases endemic in Egypt and the surrounding region.**
- **Prepare a physician suited to working within primary health care settings and following the ministry of health and population policies, regulations and protocols.**
- **Enable the student to acquire basic clinical skills including: history taking, physical; particularly abdominal examination, interpretation of diagnostic investigations and sharing in laying treatment plans.**
- **Enable the student to acquire basic hygiene and infection control principles.**
- **Enable the student to acquire, address, and demonstrate positive attitudes that will help him/her achieve long life continuous medical education, and share in community health education.**

3- Intended learning outcomes (ILOs):

a) Knowledge and understanding:

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

- a1** Describe the causes, pathogenesis, clinical picture, investigations, treatment and prognosis of pyrexia of unknown origin and concepts of infection control.
- a2** Describe the causes, pathogenesis, clinical picture, investigations, treatment and prognosis of malaria.
- a3** Describe the causes, pathogenesis, clinical picture, investigations, treatment and prognosis of Schistosomiasis and its sequelae (hepatic fibrosis, portal hypertension, cancer bladder).
- a4** Describe the causes, pathogenesis, clinical picture, investigations, treatment and prognosis of HIV and opportunistic infections.
- a5** Describe the causes, pathogenesis, clinical picture, investigations, treatment and prognosis of infectious diarrhea and dysentery.
- a6** Describe the causes, pathogenesis, clinical picture, investigations, treatment and prognosis of CNS infections.
- a7** Describe the causes, pathogenesis, clinical picture, investigations, treatment and prognosis of infectious causes of jaundice.
- a8** Describe the causes, pathogenesis, clinical picture, investigations, treatment and prognosis of Typhoid fever and brucellosis.
- a9** Describe the causes, pathogenesis, clinical picture, investigations, treatment and prognosis of viral hepatitis and its sequelae (Cirrhosis, liver failure, HCC, end stage liver disease, ascites, SBP, hepatorenal syndrome and hepatic encephalopathy).
- a10** Describe the causes, pathogenesis, clinical picture, investigations, treatment and prognosis of helminthic infections.
- a11** Describe the causes, pathogenesis, clinical picture, investigations, treatment and prognosis of protozoal infections.
- a12** Describe the causes, pathogenesis, clinical picture, investigations, treatment and prognosis of viral hemorrhagic fevers.
- a13** Describe the causes, pathogenesis, clinical picture, investigations, treatment and prognosis of heat disorders.
- a14** Identify the early manifestations of diseases that necessitate isolation and community related precautions.
- a15** State traveling related diseases and necessary vaccinations.
- a16** List the appropriate sterilization and disinfection modalities to avoid nosocomial as well as community acquired infections.
- a17** Illustrate epidemiology and methods of control and mass treatment in endemic diseases.

b) Intellectual skills

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

- b1** Summarize patient's data in a standard sheet and introduce it as a short oral presentation followed by discussion.
- b2** Interpret the most important symptoms and signs of endemic and infectious diseases to get the most feasible diagnosis, and mention needed investigations.
- b3** Differentiate between common clinical situations using appropriate problem solving skills and relevant ethical principles.
- b4** Point out the most appropriate and cost effective diagnostic laboratory investigations for common infections to reach the proper final diagnosis within a short time.
- b5** Classify factors that place individuals at risk for disease, to determine strategies for appropriate response.

c) Professional & practical skills

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

- c1** Construct a proper history, perform adequate clinical examination for a patient with general as well as gastro intestinal related symptoms, and identify deviations from normal in abdominal examination.
- c2** Draw a possible diagnosis from the physical signs related to the studied course such as jaundice, pallor, clubbing, edema, rash, fever, ascites and organomegaly.
- c3** Formulate a management plan for common diseases.
- c4** Write safe prescriptions of different types of drugs based on patient's weight, age and health condition.

d) General transferable skills, professional attitude and communication skills

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

- d1** Allay patient anxiety and get his/her confidence, and respond effectively to his/her emotional and psychological concerns.
- d2** Explain to the patient and/or his relatives the nature of the disease, the diagnostic and therapeutic options and recommend life style modifications
- d3** Respect patients' rights involving them or their caretakers in management decision
- d4** Understand and respect the different cultural beliefs and values in the community they serve.
- d5** Adopt the principles of life- long learning.
- d6** Present information clearly.
- d7** Communicate ideas and arguments effectively.
- d8** Effectively manage time and resources.
- d9** Consider the resources of biomedical information including the available electronic facilities to update his /her knowledge and to manage and utilize information.
- d10** Follow rules of medical ethics.
- d11** Maintain a professional image in manner, dress, speech and interpersonal relationships that is consistent with the accepted contemporary medical profession standards.

4- Topics (Contents of the course)

Topic	No. of hrs.		
	Lectures	Practical/Small groups	Total
1. Pyrexia of unknown origin and concepts of infection control	1h	1 hour	2h
2. Malaria	1h		1h
3. Schistosomiasis and its sequelae (hepatic fibrosis, portal hypertension, cancer bladder....}	1h	1 hour	2h
4.HIV and opportunistic infections	1h		1h
5. Infectious diarrhea and dysentery	1h		1h
6. CNS infections	1h		1h
7. Infectious causes of jaundice	1h	4 hours	5h
8.Typhoid fever and Brucellosis	1h		1h
9. Viral hepatitis and its sequelae 1 (cirrhosis, liver failure and HCC, end stage liver disease.....)	1h	4 hours	5h
10. Viral hepatitis and its sequelae 2 (ascites, SBP, hepatorenal syndrome, hepatic encephalopathy.....)	1h	3 hours	4h
11. Helminthic infections (Fascioliasis, heterophy heterophy, taenia saginata and solium, hydatid disease, entrobium vermicularis, trichinella spiralis, filariasis)	1h	1 hour	2h
12. Protozoal infections Proto (Amoebiasis, giardiasis, leishmaniasis, toxoplasmosis)	1h	1 hour	2h
13. Viral hemorrhagic fevers and heat disorders.		2 hours	2h
14. Clinical sheet, physical examination and research		4 hours	4h
Total	12 hrs	21 hrs	33 hrs

5-Teaching and learning methods

- 5.1 Illustrated lectures (to implement knowledge and professional skills)
- 5.2 Clinical rounds and small groups (to implement intellectual skills)
- 5.3 Practical clinical techniques (to implement intellectual skills)
- 5.4 Tutorial.
- 5.5 Attendance with guidance.
- 5.6 Assignment (essay) (to implement general and professional skills and self- learning)
- 5.7 Case presentation (to implement self- learning, intellectual and professional skills)
- 5.8 Self- directed learning and assessment: This is by student research and presentation of topics as well as case presentations and assignments prepared by the students.
- 5.9 E learning: An electronic copy of the course notes is available online

6- Student Assessment

It is to be noted that only end of round assessment (10 marks) is written here as other assessment schedules covering the rest of ILOs are included in internal medicine exams which are shared by the internal medicine department

a) Methods used

1. OSCE to assess 3b.2, 3c.1, 3c.2, 3d.1, 3d.6, and 3d.8.
2. Problem solving to assess 3b.2, 3b.3, 3b.4, 3c.2
3. Assignment to assess 3a.1, 3a.2, 3a.3, 3a.4, 3a.5, 3b.3, 3d.5, 3d.6, 3d.8., 3d.9
4. Research and self-directed learning to assess 3d.5, 3d.6, 3d.7, 3d.8, 3d.9
5. Log book

b) - Assessment schedule

Assessment	Week
1. End of round assessment (OSCE and problem solving)	At the end of the clinical round
2. Final exam (Written and final practical exam)	At the end of the academic year
3. Assignment	At the end of the clinical round.
4. Research an self -directed learning	At the end of the clinical round.

c) - Weighing of assessments

Exam	Marks	% of Total
End of round assessment (OSCE)	8	80%
Final term examination		
Other types of assessment: Assignment Self- learning	2	20 %
Total	10	100%

d) Attendance criteria:

- Practical attendance: The minimal attendance in practical and tutorial classes is 75%.
- Log book

e) Grading System

Examination	Topic	Description	Marks
End of round assessment	OSCE	OSCE: Multiple stations in which the student is assessed according to a check list on performance of clinical skills taught during the course.	4 marks
	Problem solving	Clinical problems are given to the student to solve	3 marks
	Attitude	Attitude towards patients, peers and staff.	1 mark
	Assignment	Essay on specified topics	1 mark
	Self- learning	Research and presentation to peers and a member of staff	1 mark
Final Examination	Written examination		35 marks
	Oral exam	Included within the internal medicine exam	
	Clinical exam		

7- List of references

7.1 Department e book

Available for free download on the department face book page.

<https://www.facebook.com/TantaTropicalMedicine>

Registration number: 14773/2016

ISBN: 978 977 904 076 9

7.2- Course notes

- Handout of the lectures
- Approved national books

7.3- Text books

- **Michael Glynn, William M Drake; (2012):** Hutchison's clinical methods 23rd ed. Saunders, 2012.
- **Brian Walker, Nicki R Colledge, Stuart Ralston, Ian Penman; (2014):** Davidson's principles and practice of medicine 22st ed. Churchill Livingstone Elsevier 2014.
- **Kumar P and Clark M; (2017):** Kumar and Clark Clinical Medicine 9th ed. (eds) Elsevier, 2017.

7.4 Recommended books

- **Beeching N and Gill G; (2014):** Lecture notes on Tropical Medicine 7th ed. Wiley Blackwell 2014.
- **Japp AG, Robertson C and Hennessey I; (2013):** Macleod’s clinical diagnosis. Churchill Livingstone, Elsevier, 2013.

7.5 Periodicals and web sites

- **Web site:** www.tanta.edu.eg/faculties/medicine/departments/tropical
- www.nlm.ncbi.gov
- www.gastrojournal.org
- Royal society of tropical medicine and hygiene
- CDs in electronic library

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

We verify that the above course and the analysis of students and external evaluator opinions are accurate.

Course coordinators:

Name: Ferial El-Kalla Signature:..... Date:

Name: Abdelrahman Kobtan Signature:..... Date.....

Head of Tropical Medicine Department:

Name: Fathia Assal Signature Date.....

Head of quality assurance unit:

Name: Signature..... Date.....

Name of course Tropical medicine and infectious disease

Code of course TMED 05.01

University: Tanta University
Faculty: Medicine
Department: Tropical Medicine and Infectious diseases

Distribution of ILOs to topics:

Topics of the course	Day Study	Knowledge & Understanding	Intellectual Skills	Professional Skills	General transferable skills
Tropical Medicine an overview	First day				
Pyrexia of unknown origin	First day	3a.1/ 3a.13/ 3a.14/3a.15/3a.16	3b.4, 3b.5	3c.3,3c.4	3d.5
Concepts of infection control	First day	3a.1/3a.13/ 3a.14/3a.15/3a.16	3b.2, 3b.3, 3b.5	3c.3,3c.4	3d.5
Malaria	First day	3a.2/3a.13/ 3a.14/3a.15/3a.16	3b.2, 3b.4, 3b.5	3c.3, 3c.4	3d.5
Schistosomiasis and its sequelae (hepatic fibrosis, portal hypertension, cancer bladder...)	Second day	3a. 3/3a.13/ 3a.14/3a.16	3b.2, 3b.3	3c.3, 3c.4	3d.5
HIV and opportunistic infections	Second day	3a.4/3a.13/ 3a.14/3a.15/3a.16	3b.2, 3b.3	3c.3, 3c.4	3d.5
Infectious diarrhea and dysentery	Third day	3a.5/3a.13/ 3a.14/3a.15/3a.16	3b.2, 3b.3	3c.3, 3c.4	3d.5
CNS infections	Third day	3a.6/3a.13/ 3a.14/3a.15/3a.16	3b.2, 3b.3, 3b.4, 3b.5	3c.3, 3c.4	3d.5
Infectious causes of Jaundice	Fourth day	3a.7/3a.13/ 3a.14/3a.15/3a.16	3b.2, 3b.3	3c.3, 3c.4	3d.5
Typhoid fever and Brucellosis	Fourth day	3a.8/3a.13/ 3a.14/3a.15/3a.16	3b.2, 3b.3	3c.3, 3c.4	3d.5
Viral hepatitis and its sequelae 1 (cirrhosis, liver failure and HCC, end stage liver disease.....)	Fifth day	3a.9/3a.13/ 3a.14/3a.15/3a.16	3b.2, 3b.3	3c.3, 3c.4	3d.5
Viral hepatitis and its sequelae 2 (ascites, SBP, hepatorenal syndrome, hepatic encephalopathy)	Fifth day	3a.9/3a.13/ 3a.14/3a.15/3a.16	3b.2, 3b.3	3c.3, 3c.4	3d.5

Course Specifications of Tropical medicine and Infectious Diseases. Fifth Year, 2018-2019

Topics of the course	Day Study	Knowledge & Understanding	Intellectual Skills	Professional Skills	General transferable skills
Helminthic infections (Fascioliasis, heterophys heterophys, taenia saginata and solium, hydatid disease, entrobius vermicularis, trichinella spiralis, filariasis)	Sixth day	3a.10/3a.13/ 3a.14/3a.15/3a.16	3b.2, 3b.3	3c.3, 3c.4	3d.5
Protozoal infections (Amoebiasis, giardiasis, leishmaniasis, toxoplasmosis)	Sixth day	3a.11/3a.13/ 3a.14/3a.15/3a.16	3b.2, 3b.3	3c.3, 3c.4	3d.5
Clinical Sheet	First day of round		3b.1, 3b.2, 3b.3	3c.1, 3c.2	3d.1, 3d.2, 3d.3, 3d.4, 3d.5, 3d.6, 3d.7, 3d.8, 3d.10, 3d.11
Fevers	Second day of round	3a.1/3a.13/ 3a.14/3a.15/3a.16	3b.1, 3b.2, 3b.3, 3b.4, 3b.5	3c.1, 3c.2, 3c.3, 3c.4	3d.1, 3d.2, 3d.3, 3d.4, 3d.5, 3d.6, 3d.7, 3d.8, 3d.10, 3d.11
Schistosomiasis and its sequelae	Third day of round	3a.3/3a.13/ 3a.14/3a.15/3a.16	3b.1, 3b.2, 3b.3, 3b.5	3c.1, 3c.2, 3c.3, 3c.4,	3d.1, 3d.2, 3d.3, 3d.4, 3d.5, 3d.6, 3d.7, 3d.8, 3d.10, 3d.11
Viral hepatitis and infectious jaundice	Fourth day of round	3a. 7/ 3a.9/3a.13/ 3a.14/3a.15/3a.16	3b.1, 3b.2, 3b.3, 3b.4, 3b.5	3c.1, 3c.2, 3c.3, 3c.4	3d.1, 3d.2, 3d.3, 3d.4, 3d.5, 3d.6, 3d.7, 3d.8, 3d.10, 3d.11
Chronic viral hepatitis and it's sequelae	Fifth day of round	3a.9/3a.13/ 3a.14/3a.15/3a.16	3b.1, 3b.2, 3b.3, 3b.5	3c.1, 3c.2, 3c.3, 3c.4	3d.1, 3d.2, 3d.3, 3d.4, 3d.5, 3d.6, 3d.7, 3d.8, 3d.10, 3d.11
Viral hemorrhagic fevers and heat disorders	Sixth day of round	3a.12/3a.13/ 3a.14/3a.15/3a.16	3b.2, 3b.3	3c.3, 3c.4	3d.5

Course coordinators :

Prof/ Ferial El-Kalla

Ass. Prof/ Abdelrahman Kobtan

Head of the Tropical Medicine department

Prof/ Fathia Assal

Course Specifications of Tropical medicine and Infectious Diseases. Fifth Year, 2018-2019

Matrix of the course ILO,s with the Program ILO,s																		
Course ILOS	program ILO	knowledge & understanding								Intellectual skills	Professional & practical skills	General , transferable, Professional Attitude and communication skills						
		A7	A9	A10	A11	A12	A15	A17	A18									
knowledge & understanding	a.1.	A7	A9	A10	A11	A12	A15	A17	A18									
	a.2.	A7	A9	A10	A11	A12	A15	A17	A18									
	a.3.	A7	A9	A10	A11	A12	A15	A17	A18									
	a.4.	a7	A9	A10	A11	A12	A15	A17	A18									
	a.5.	A7	A9	A10	A11	A12	A15	A17	A18									
	a.6.	a7	A9	A10	A11	A12	A15	A17	A18									
	a.7.	a7	A9	A10	A11	A12	A15	A17	A18									
	a.8.	a7	A9	A10	A11	A12	A15	A17	A18									
	a.9.	a7	A9	A10	A11	A12	A15	A17	A18									
	a.10.	a7	A9	A10	A11	A12	A15	A17	A18									
	a.11.	a7	A9	A10	A11	A12	A15	A17	A18									
	a.12.	a7	A9	A10	A11	A12	A15	A17	A18									
	a.13.	A3	A17	A18														
	a.14.	A8	A17	A18														
	a.15.	A10	A17	A18														
	a.16.	A17	A18															
	a.17.	A17	A18															
Intellectual skills	b.1.									b1								
	b.2.									b2	b5							
	b.3.									b6								
	b.4.									b2								
	b.5.									b	8							
Professional & practical skills	c.1.										c2	c3						
	c.2.										c4							
	c.3.										c6							
	c.4.										c4							
General , transferable, Professional Attitude and communication skills	d.1.														d1			
	d.2.														d8	d9		
	d.3.														d2			
	d.4.														d3			
	d.5.														d12			
	d.6.														d14			
	d.7.														d8			

