Suez Canal University.

Faculty of Medicine.

Programme Specification

A- Basic Information

1- Programme Title: **Diploma Endemic and Infectious Diseases**
2- Programme Type: Single ☐ Double ☐ Multiple ☐

3- Department (s): **Unit of Endemic and Infectious Diseases, Internal Medicine Department**
4- Coordinator: Head of the Unit of Endemic and Infectious Diseases.

5- External Evaluator(s):
Professor. Afaf Masoud Prof. Tropical Medicine Ain Shams University
Professor. Mohamed Reda Al-Wakeel Prof. Tropical Medicine Cairo University
Professor. Mohamed Khairy el-Naggar Prof. Tropical Medicine Ain Shams University

6- Last date of programme specifications approval:

B- Professional Information

1- Programme Aims

The overall goals of the program are to develop a specialist in endemic and infectious diseases with the following characteristics:
1. Should have a fundamental understanding of the basic microbiology of bacteria, fungi, viruses, and parasites. In addition the specialist should have a good understanding of the clinical syndromes which are associated with various infections, including community and hospital acquired infections, infection in immunocompromised individuals and health care workers and other profession related infections.
2. Should have a thorough understanding of commonly used antimicrobials and anti-parasitic drugs, their toxicity and development of resistance and their clinical indications.
3. Should have a fundamental understanding of the common infectious hazards for travelers to tropical and subtropical areas and providing methods for prevention including chemoprophylaxis and vaccination.
4. Should have a fundamental understanding of the common causes of fever of unknown origin (due to infectious and non infectious diseases) and capable of communicating with other clinicians of different specialties to diagnose and manage such cases.
5. Should have a fundamental understanding of the common endemic diseases in the community whether related to chronic infections (HBV, HCV and schistosomiasis

and other parasitic diseases) and their complications (including the gastrointestinal and hepatobiliary diseases) and non infectious diseases (including malignancy, nutritional deficiency and environmental hazards).

2- **Intended Learning Outcomes (ILOs)**

a- Knowledge and Understanding:

a1- Develop and maintain a knowledge base in the basic and clinical sciences necessary for effective consultation in endemic and infectious diseases.

a2- Demonstrate sufficient knowledge to determine clinically optimal yet cost-effective preventive, diagnostic and therapeutic strategies, including the common communicable and non communicable diseases endemic in the community.

a3- Recognize the unique aspects of infectious and endemic diseases as modified by patients' community, age and other population characteristics

a4- Demonstrate awareness and understanding of guidelines for diagnosis, management of the common communicable and non communicable diseases endemic in the community circulated by the local health authorities, World Health Organization and other organizations and institutes specialized in tropical medicine and infectious diseases.

a5- Demonstrate awareness and understanding of skills necessary for diagnosis of common diseases endemic in the community (as imaging by ultrasonography, gastrointestinal endoscopy) or intervention (as diagnosis and eradication of oesophageal varices, ablation of hepatocellular carcinoma, aspiration of hepatic cystic lesions or liver biopsy).

a6- Demonstrate awareness and understanding of skills and disciplines necessary for infection control in the health care centers and have the ability to share in the infection control team.

a7- Be able to provide counseling and preventive measures after accidental exposure to infection of the health care workers from a patient with viral hepatitis.

A8- Be able to communicate with the local health authorities and population so as to study the disease dynamics, provide knowledge, health education and preventive measures for common endemic diseases in the community.

b- Practice-Based Learning and Improvement

b1- Demonstrate knowledge of evidence-based medicine and apply its principles in practice.

B2- Use multiple sources, including information technology, to optimize lifelong learning and support patient care decisions.

B3- Develop personally effective strategies for the identification and upgrading of medical knowledge needed for effective practice including the new guidelines for diagnosis and management of common endemic diseases and the changing pattern of infectious diseases worldwide.

B4- Able to have updated knowledge through attending conferences and workshops organized by the specialized departments, institutes and organizations in the field of endemic and infectious diseases.

c- Intellectual Skills

c1- Problem solving skills.

c2- Self learning skills.

c3- Self evaluation skills.

d- Interpersonal and Communication Skills

d1- Demonstrate the ability to. provide a clear and informative report, including a precise diagnosis whenever possible, a differential diagnosis when appropriate, and recommended follow-up or additional studies as appropriate.

d2- Demonstrate the ability to provide direct communication to the referring physician or appropriate clinical personnel when interpretation of a laboratory assay reveals an urgent, critical, or unexpected finding and document this communication in an appropriate fashion.

d3- Conduct individual consultations.

d4- Choose effective modes of communication (listening, nonverbal, explanatory, questioning) and mechanisms of communication (face-to-face, telephone, e-mail, written), as appropriate.

e- Professional and Practical Skills

e1- Demonstrate compassion: be understanding and respectful of patients, their families, and the staff and physicians caring for them.

e2- Interact with others without discriminating on the basis of religious, ethnic, sexual, or educational differences.

e3- Demonstrate positive work habits, including punctuality, dependability, and professional appearance.

e4- Demonstrate a responsiveness to the needs of patients and society that supersedes self-interest.

e5- Demonstrate principles of confidentiality with all information transmitted both during and outside of a patient encounter.

e6- Demonstrate knowledge of regulatory issues pertaining to the use of human subjects in research.

e7- Perform most of the diagnostic and therapeutic skills required in the course specifications

f- General and Transferable Skills

f1- Team work

f2- Managerial skills

f3- Presentation skills

f4- Evaluation skills (subordinates, peers & program)

f5- Computer skills

3- **Academic Standards**

4- Curriculum Structure and Contents

4.a- Programme duration: 2 academic years

4.b- Programme structure

4.b.i- No. of hours per week: Lectures 4 Clinical/skills 14 total: 22

5- Programme Courses

5.3- Level/Year of Programme: 1st part Diploma

a. Compulsory: التفاصيل فى الأقسام المعنية

Code No.	Course Title	No. of Units	No. of hours /week			Programme ILOs Covered (By No.)
			Lect.	Lab.	Tuto	
	General Medicine	?	?	?		
	Bacteriology	?	?	?		
	Pathology					
	Clinical pathology					
	Parasitology	?	?	?		

5.2 Level/Year of Programme: second part MSc

a. Compulsory

Code No.	Course Title	No. of Units	No. of hours /week			Programme ILOs Covered (By No.)
			Lect.	Clinical	Tuto	
CP2.2.1	Endemic and infectious diseases	?	?	?	?	

8- Evaluation of Programme Intended Learning Outcomes

Evaluator	Tool	Sample
1- Senior students	Questionnaires	

2- Alumni	**Questionnaires**	
3- Stakeholders (Employers)	**Interviews**	
4-External Evaluator(s) (External Examiner(s)	**Attending exam. (using checklist and/or rating scale)**	
5- Other		

Annex 1

Attach Course Specifications

Curriculum for Diploma Degree of Endemic and Infectious Diseases
Theoretical course: 6 units in 110 hours
Practical and clinical course; 80 hours
Total 190 hours over 32 weeks.

[I] Infectious Diseases: (34 hours) 1. **Introduction to infectious diseases (one hour)** 2. **Bacterial diseases (one hour)** 3. **Viral diseases (one hour)** 4. **Rickettsial diseases (one hour)** 5. **Spirochetosis (one hour)** 6. **Fungal diseases (one hour)** 7. **Zoonosis (one hour)** 8. **Enterica and chronic salmonellosis (one hour)** 9. **Food poisoning and botulism (one hour)** 10. **CNS infections (one hour)** 11. **Cholera and shigellosis (one hour)** 12. **Brucellosis (one hour)** 13. **Diphtheria and tetanus (one hour)** 14. **Streptococcal infections and related postinfectious illnesses (one hour)** 15. **Plague and tularaemia (one hour)**		

16. **Leprosy (one hour)**
17. **Relapsing fever (one hour)**
18. **Sexually transmitted diseases (one hour)**
19. **Tuberculosis. (one hour)**
20. **Antibiotics (Two hours)**
21. **Nosocomial infections (one hour)**
22. **Exanthematous diseases (one hour)**
23. **Mononucleosis syndromes (one hour)**
24. **Haemorrhgic fevers and slow viruses (one hour)**
25. **Polio and Rabies (one hour)**
26. **Influenza viruses (one hour)**
27. **Hepatotrophic viruses and hepatitis (Two hours)**
28. **AIDS (Two hour)**
29. **Vaccination for infective diseases (one hour)**
30. **Emerging infections (one hour)**
31. **Infection and malignancy (one hour)**
32. **Infection and autoimmunity (one hour).**

[II] Helminthic Diseases: (7 hours)

1. **Introduction to parasitic diseases (one hour).**
2. **Schistosomiasis: (two hours)**
    a. **Clinical picture**
    b. **Ectopic bilharziasis**
    c. **Diagnosis & differential diagnosis**
    d. **Management**
3. **Liver flukes and Fascioliasis (one hour)**
4. **Filariasis & other nematodes ((one hour)**
5. **Hydatid disease and other cestodes (one hour)**
6. **Antihelminthic therapy (one hour)**

[III] Protozoal Diseases: (5hours)

1. **Amoebiasis (one hour)**

2. **Malaria & Babesiosis (two hours)** 3. **Toxoplasmosis (one hour)** 4. **Leishmaniasis (one hour)** **<u>[IV] Hepatic Disorders</u>: (12 hours)** 1. **Laboratory diagnosis of liver diseases (one hour)** 2. **Imaging in liver disease (including radiological and endoscopic) (one hour)** 3. **Acute hepatitis (one hour)** 4. **Chronic hepatitis (one hour).** 5. **Natural history of chronic liver disease (one hour)** 6. **Portal Hypertension (one hour)** 7. **Liver cell failure (one hour)** 8. **Jaundice & Biliary diseases (one hour)** 9. **Ascites (one hour)** 10. **Hepatic tumours (one hour)** 11. **Metabolic liver diseases (one hour)** 12. **Liver transplantation (One hour)** **<u>[V] Gastro-intestinal Disorders</u>: 7 hours** 1. **Peptic ulcer disease and *Helicobacter pylori* (one hour)** 2. **Haematemesis & melena (one hour)** 3. **Chronic diarrhoea (one hour)** 4. **Inflammatory bowel disease (one hour)** 5. **Functional disorders: Irritable bowel syndrome and Gastroesophageal reflux (two hours)** 6. **Malabsorption (one hour)** **<u>[VI] Nutritional Disorders</u>: Two hours** 1. **Nutritional deficiency and famine (two hour)** **<u>[VII] Miscellaneous</u>: 11 hours** 1. **Heat and other physical disorders (one hour)** 2. **Insect and snake bites (one hour)** 3. **Animal bite (one hour)** 4. **Emergencies in the tropics (one hour)** 5. **Malignancy in the tropics (one hour)** 6. **Lymphadenopathy (one hour)** 7. **Anaemias in the tropics (one hour)**		

8. **Skin manifestations in the tropics (one hour)** 9. **Eye manifestations in the tropics (one hour)** 10. **Neurological manifestations in the tropics (one hour)** 11. **Endocrinal diseases in the tropics (one hour).**		

Clinical case presentation: 11 hours

<u>[I] Infectious Diseases</u>: 1. **Fever of unknown origin (F.U.O)** 2. **fever and febrile abdominal illnesses (Familial Mediterranean)** 3. **Food poisoning and botulism** 4. **Acute diarrhea** 5. **Chronic diarrhea** 6. **Nosocomial infections (one hour)** 7. **AIDS (one hour)** 8. **Hepatic focal lesions and fever** 9. **Febrile illnesses with eosinophilia** 10. **Mononucleosis syndrome** 11. **Myiasis (one hour)**		

Seminars 20 topic (20 hours)

[I] Infectious Diseases: 1. **Fever of unknown origin (F.U.O) (one hour)** 2. **Approach to diagnosis of non infectious causes of FUO (one hour)** 3. **Approach to diagnosis of Streptococcal infections and poststreptococcal related illnesses (one hour)** 4. **Approach to diagnosis of Chronic diarrhea and malabsorption (one hour)** 5. **Approach to diagnosis of Fever with increased intracranial tension (one hour)** 6. **Approach to diagnosis of Health care workers related infections (one hour)** 7. **Approach to diagnosis of nosocomial infections (one hour)** 8. **Approach to diagnosis of sexually transmitted diseases (one hour)** 9. **Approach to diagnosis of Mononucleosis syndromes (one hour)** 10. **AIDS (one hour)** 11. **Approach to prevent and diagnose infection in travelers (one hour)** 12. **Approach to diagnosis of acute and chronic liver disease (one hour)** 13. **Natural History of cirrhosis (one hour)** 14. **Approach to diagnosis of variceal and non variceal gastrointestinal bleeding (one hour)** 15. **Approach to diagnosis of jaundice & Biliary disorders (one hour)** 16. **Approach to diagnosis and management of ascites (one hour)** 17. **Liver transplantation: infectious complications (one hour)** 18. **Guidelines for diagnosis and treatment of chronic**	**26 hours**	

hepatitis B and C (one hour) **19. Infections in the immuno-compromised patients and ICU (one hour)** **20. Infection control: a multidiscipline responsibility (one hour).**		

Total lectures (79 hours) , clinical case presentations (11 hours and seminars (20 hours)=110
Clinical and practical training:
a) Clinical rounds: once weekly (64 hours, two hours weekly for 32 weeks)
b) Training and observation for diagnostic and therapeutic modalities in the unit of endoscopy and ultrasonography: 16 hours

- **Diagnostic endoscopy 10 cases**
- **Endoscopic intervention 5 cases**
- **Diagnostic ultrasonography 10 cases**
- **Ultrasonographic interventions 5 cases**

Total 190 hours

Total	Lectures	Case study and seminars	Clinical Rounds	Endoscopy and Ultrasonography
190	79 hours	31 hours	64 hours	16 hours
6 hour/week	2.5	1	2	0.5 hour (an hour every other week