



*Faculty of Medicine  
Suez Canal University*

*Infectious and Endemic Diseases Department  
Program Specification- MD*

---

***PROGRAM SPECIFICATIONS***

*Program Title:*

**MD of Endemic diseases**

*Code:*

***IMED***



## Program Specification

### A- Basic Information

1- Program Title: **MD of endemic diseases**

2- Program Type: **Single**   Double  Multiple

3- Department (s): **Infectious and Endemic Diseases Department**

4- Coordinator: **Prof. Adel Ahmed Hassan**

5- External Evaluator(s): Prof. Professor. Mohamed Kamal shaker, Prof. and head of Tropical Medicine department Ain Shams University  
Professor. Ebrahim Hegazy Prof. Tropical Medicine Zagazig University

6- Last date of program specifications approval: **the bylaws of the MD program in Endemic Diseases in the Faculty of Medicine, Suez Canal University were approved by the Supreme Council of Universities on 2016**

7- Date of program specification revision approval: **December 2016**

8- Number of credit points for this degree: **180 CP**

### B- Professional Information

#### **1- Program Aim:**

**The aim of this program is to build the competencies of a consultant to:**

1. Apply all the knowledge he gained to develop and implement new approaches to overcome the epidemics, endemic diseases in his community.
2. Achieve high level of research activity and methodology.
3. Apply systematic analysis in his practice, to be a good educational source in his university or community.
4. Have perfect professional skills and using technology in professional practice, have communication skills, team work concept, take decisions, and manage informations, management of the available resources.
5. Oriented with community and environmental development, always takes the moral standards and the professional ethics as a base in his practical life.
6. Accept feedback, continuously improves his abilities by self-education.
7. Provide students with the competencies required to design experiments, analyze data, and review literature critically
8. Use relevant quantitative and qualitative methodologies when writing-up the thesis and projects.



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

### **a- Knowledge and Understanding:**

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

- a1. Demonstrate updated 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.
- a2. Recognize the unique aspects of infectious and endemic diseases as modified by patients' community, age and other population characteristics
- a3. Discuss the types of viral, bacterial, parasitic and fungal infections .
- a4. Recognize 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. Discuss common gastrointestinal disorders as acute and chronic infectious diarrhea, H. pylori infection and inflammatory bowel diseases.
- a6. Discuss the epidemiological studies targeting a specific endemic disease in the community.
- a7. Use of the previous physiological knowledge, in the topics relevant to Endemic diseases, with special emphasis on the clinical relevance of these topics.
- a8. Describe thyroid gland function, endocrine function of pancreas, glucose homeostasis.
- a9. Discuss the basic the physiology of the kidney functions.
- a10. Describe the mechanisms of digestion and absorption, regulatory mechanisms of gastrointestinal function.
- a11. Identify general pathology as regarding inflammation and repair.
- a12. Discuss Pathology of esophagitis, gastritis and IBD.
- a13. Demonstrate advances knowledge of biostatistics
- a14. Critically appraise research designs relevant to healthcare.
- a15. Effectively analyze data generated through the application of one methodology.
- a16. Demonstrate basic knowledge of research ethics
- a17. Discuss the updated quality measures of infection control.

### **b- Intellectual Skills:**

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

- b1. Apply different lines of critical care medicine and solve the problem with available data .
- b2. Properly interpret x-ray , CT, and ECG recording of clinical scenarios.



- b3. Evaluate a professional medical report related to endemic and infectious diseases.
- b4. Develop case diagnosis and management plan on evidence base medicine.
- b5. Evaluate medical methods and recent technological tools used in his specialty and share in its development and progress .
- b6. Plane to develop his career and improve the others performance through learning them
- b7. Analyze medical -information in endemic and infectious diseases to elicit new conclusions or hypothesis.
- b8. Design a plan for management of each disease and make differential diagnosis for it.
- b9. Write scientific papers
- b10. Demonstrate insight into research and scientific method through:
  - critical appreciation of methodology;
  - formulating research questions that are pertinent to medicine;
  - choice and application of appropriate quantitative and qualitative methodologies;
  - collecting, analyzing and interpreting data;
  - Analyzing and using numerical data (Use simple statistical methods)

**c- Professional and Practical Skills:**

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

- c.1 Perform good clinical examination ,data interpretation including basic science.
- c.2 Perfectly perform basic and recent professional medical skills in the specialty including abdominal paracentesis, liver biopsy, abdominal ultrasound examination and diagnostic gastrointestinal endoscopy.
- c.3 Write a professional medical report related to endemic and infectious diseases, reflecting case diagnosis and management plan, respecting medico legal aspects and construct infection control plan.
- c.4 Perform a research /grand project with implementation and reporting skills.
- c.5 Perform all the diagnostic and therapeutic skills required in the course specifications.
- c.6 Conduct both individual consultations and presentations at multidisciplinary conferences that are focused, clear, and concise.
- c.7 Choose effective modes of communication (listening, nonverbal, explanatory, questioning) and mechanisms of communication (face-to-face, telephone, e-mail, written), as appropriate.
- c.8 Demonstrate skills in obtaining informed consent, including effective communication to patients about sharing in research studies or procedures, alternative approaches, and possible complications of diagnostic or therapeutic activities, such as invasive procedures done during gastrointestinal endoscopy (including ERCP) or imaging by ultrasonography.
- c.9 Demonstrate skills in educating colleagues and other healthcare professionals whether clinical skills (in the in-patient and out-patient), diagnostic or therapeutic skills (in the unit of



- endoscopy and ultrasonography) or laboratory skills including, increase their awareness through publications and seminars on new testing and therapeutic strategies, research discoveries, and other cutting-edge professional knowledge.
- c.10 Construct plans for diagnosis and management of endemic diseases.
  - c.11 Use evidence-based medicine and apply its principles in practice.
  - c.12 Use multiple sources for the identification and upgrading of medical knowledge needed for effective practice including the new guidelines for diagnosis and management of common infectious disease as parasitic infection and endemic diseases and the changing pattern of infectious diseases worldwide.
  - c.13 Use clinical problems to highlight infectious diseases of high priority (in the community and the other health care settings) so as to direct research and provide physicians and health care workers with evidence-based data and apply its principles in practice, improve awareness and increase community and patient safety.
  - c.14 Use of updated guidelines in American and European societies to manage viral hepatitis as HCV and HBV management
  - c.15 Manage a case of gastrointestinal infections like H pylori and acute infectious diarrhea .
  - c.16 Provide consultation and counseling for infectious problems in critically ill patients including immunocompromised patients, recipients of organ transplant, patients in the intensive care as well as travelers from endemic areas.
  - c.17 Provide counseling and preventive measures after accidental exposure to infection of the health care workers from a patient with viral hepatitis.
  - c.18 Demonstrate the necessary skills 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).
  - c.19 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.
  - c.20 Use technology to serve professional practice

**a- General and Transferable Skills:**

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

- d.1 Practice presentation skills
- d.2 Participate in a multidisciplinary case management conference or discussion
- d.3 Evaluate subordinates, peers & program
- d.4 Argue different ideas effectively
- d.5 Manage time and resources and set priorities;
- d.6 Practice effective teaching and mentor to others
- d.7 Practice working effectively within a team.
- d.8 Practice efficient Information and Communication Technology (ICT) skills
- d.9 Practice continuous self-learning skills.



### **3- Academic Standards**

- 3a External References for Standards (Benchmarks)  
Generic Academic Reference Standards (ARS) for post graduate programs
- 3b Comparison of Provision to External References  
See attached files

### **4- Curriculum Structure and Contents**

**4a- Program duration:** The program lasts for a minimum of 3 academic years and maximum 7 years, as specified in the internal bylaws for postgraduate studies based on credit points system in the Faculty of Medicine, Suez Canal University approved on February 7<sup>th</sup>, 2016.

#### **4b- Program structure:**

**MD Program Credit points (CP) structure:**

**Total needed credit points for getting MD degree 180 CP**

The program consists of **First part 30 CP, Thesis 50 CP, and Second part 100 CP**

1. **The first part of the program:** 30 CP, its duration (15 weeks) for one academic semester. The first part comprises the following:
  - a. A course in Research Methodology planned and held in the Community Medicine Department of the Faculty of Medicine, Suez Canal University. This part includes 8 CP.
  - b. Two electives each one has 2 CP. The students should select one elective which has not been selected in the Master Degree.
  - c. A course of applied pathology , planned and held in the pathology Department. It includes 9 CP.
  - d. A course of physiology , planned in the physiology department . It includes 9 CP.
- 2- **MD thesis:** 50 CP, no scores for thesis. The candidate has the right to register his/her thesis protocol after 6 months from the degree registration. The first time for thesis defense after two years from the date of the faculty council approval on the thesis protocol and passing the first part exam.
- 3- **The second part of the program:** 100 CP, its duration (75 weeks ) for 5 consecutive academic semesters. The second part comprises the specialized courses in endemic, planned and held in the infectious and endemic Department. This part lasts for 2 years ending by written and practical exams.

**4bi- No. of credit Points:** the MD program is 180 credit Point system.

Every credit point include 25 working hour (30% = 7 hours for face to face learning activities, and 70% =18 hours for self-learning activities).



## 5. Program Courses

### 5.1- Level/Year of Program: First part of MD (30 CP)

Courses			Assessment				
Code No.	Course Title	No. of Credit points	Written Exam			Oral exam	Practical or clinical Exam
			No of Papers	Duration	Marks		
RB	Research methodology and Biostatistics	8	1	3 hours	160		
IMED51	Applied pathology	9	1	3 hours	135	45	
IMED22	Applied physiology	9	1	3 hours	135	45	
E	Two Elective courses*	2+2	1+1	1 hour+1 hour	40+40		
<b>Total</b>		<b>30 credit points</b>			<b>600 marks</b>		

\*Student should select one course of the following as an elective course:

Two elective courses each one has 2 CP. The students should select two elective which has not been selected before in the Master Degree.

E01	Evidence Based medicine	(Community Department)
E02	Scientific Writing	(Medical Education Department)
E03	Quality in Medical Education	(Medical Education Department)
E04	Infection Control	(Microbiology Department)
E05	Critical Appraisal	(Community Department)
E06	Communication Skills	(Medical Education Department)



**5.2- Level/Year of Program: Second part of MD program (100 CP)**

Courses			Assessment					
Code No.	Course Title	No. of Credit points	Written Exam			Oral exam	Practical or clinical Exam	Continues assessment *(Portfolio)
			No of papers	Durati on	Marks			
IMED35	Scientific and theatrical Course in Endemic and Internal medicine	30	3	3 hours For two paper and 1.5 for third paper	225 for two paper and 90 for third paper	180	540	540
	Practical training in endemic and internal medicine	60						
	**Scientific activities	10 (not included in the total marks)						
<b>Total</b>		<b>100 credit points</b>			<b>1800 marks</b>			

\*Portfolio its scores distributed in the different parts of the portfolio and its total score included among total mark od second part

\*\*Scientific activities are not included in the total marks

**5.3 Thesis:** A faculty senior & junior supervisor from the staff members are nominated by the department council to prepare a proposal of the thesis protocol after the selection of a subject that is complementary to the research plans of the department. Data collection, methodologies, study question, time table, ethical considerations and budget are formulated by the candidate under guidance of his supervisors into a research project. The research protocol is then peer reviewed by two different staff members nominated by the Head of the department who share their ideas and comments with the supervisors to reach to the final form. The research protocol is discussed then openly in one of the department councils to be approved and diverted to the Faculty research committee where it is subjected to a critical appraisal to meet the research basic standards set by the committee. The final approvals of the research protocol are then issued by the committee of post graduate studies, the Faculty and University Council to be registered.

**6- Program Admission Requirements**

- The program accepts candidates with Masters in endemic diseases with a grade of GOOD at least.





- Registration for the program opens 2 times/year, according to the internal bylaws for postgraduate studies of the Faculty of Medicine, Suez Canal University.

### **7- Student Assessment Methods**

- 7.1 Written (MEQ) to assess the cognitive domain.
- 7.2 MCQs to assess the cognitive domain
- 7.3 Oral Viva Cards to assess higher cognitive and attitude domains.
- 7.4 Observations to assess practical and presentation skills.
- 7.5 Portfolio to assess the cognitive, psychomotor and the affective domains.

### **8- Weighting of Assessments**

Type of exam	
First part (30 credit points= 600 mark)	
• Written exam	510
• Oral exam	90
• <b>Total</b>	<b>600</b>
Second part (100 credit points including 10 credit points not included in the total marks =1800 mark)	
• Oral exam	180
• Practical exam	540
• Written exam	540
• Portfolio	540
<b>Total</b>	<b>1800</b>

### **9- Regulations for Progression and Program Completion**

- The regulations for program completion follow the general regulations for the Faculty of Medicine, Suez Canal University for MD approved by the Supreme Council of Universities. The program is considered complete with the accomplishment of 2 summative assessment (for the first and the second parts) and the defense of a thesis developed and submitted for the purpose of acquiring the degree.
- **First part**
- Passing level 60% of total marks of the exam and at least 50% passing level of the total written exam marks
- **Second part**
- Passing level 60% of total marks of the exam
- Passing level 60% total of practical and oral exam
- **Thesis/Assay**
- Passing discussion is required for MD degree



*Faculty of Medicine  
Suez Canal University*

*Infectious and Endemic Diseases Department  
Program Specification- MD*

**10- Evaluation of Program Intended Learning Outcomes (ILOs)**

Evaluator	Tool	Sample
1- Postgraduate students	Needs assessment questionnaires	Random sample of participants
2- Alumni (N/A since this is the first time to implement the program)	N/A	N/A
3- Stakeholders	Self-administered questionnaires DELPHI Focus groups	According to the method
4-External Evaluator(s) (External Examiner(s))	External audit of the program specifications	
5- Other		

*Head of Infectious and Endemic Diseases Department*

***Prof. Adel Ahmed Hassan***

*Date: December 2016*