



*Faculty of Medicine*  
*Suez Canal University*

*Internal Medicine Department*  
*Program Specification M.D.*

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## ***PROGRAM SPECIFICATIONS***

*Program Title:*

**M.D. of Endocrinology**

*Code:*

***IMEN***



## Program Specification

### A- Basic Information

1- Program Title: **MD of Endocrinology**

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

3- Department (s): **Internal Medicine Department**

4- Coordinator: **Dr. Ahmed M. Mossad**

5- External Evaluator(s):

6- **Last date of program specifications approval:** the bylaws of the MD program of Endocrinology 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:** 2019.

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

### B- Professional Information

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

This program is designed to provide candidates with advanced knowledge, comprehensive and concise lectures / tutorials concerning updates in endocrinology disorders and skills that allow them to:

- 1.1. Discuss etiology and pathogenesis of the common endocrine disorders.
- 1.2. Recognize the effects of endocrine diseases on other systems and the effects of other systems on endocrine system.
- 1.3. Provide the students with the essential knowledge of applied physiology and pathology in the field of endocrinology.
- 1.4. Individualize the optimum plan of management.
- 1.5. Acquire skills in case presentation and discussion
- 1.6. Develop appropriate skills to carry out research.
- 1.7. Ethically behave as a researcher
- 1.8. Identify and justify the basic components of the research framework, relevant to the tackled research problem.

#### **2. Intended Learning Outcomes (ILOs) of the program**

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

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

- a1. Discuss calcium metabolism with parathyroid hormone on physiological basis
- a2. Discuss pathogenesis and hormonal basis of pituitary mass disorders
- a3. Discuss different types of diabetes concerning the pathophysiological basis, clinical picture, possible complications and plan of management



- a4. Identify the hormonal and physiological basis of congenital adrenal hyperplasia
- a5. Discuss the replacement therapy of post-hypophysectomy
- a6. Discuss the hormonal basis of SIADH and Diabetes Insipidus
- a7. List the short and long term complication of steroid therapy
- a8. Discuss the clinical approach for patient with thyroid nodule
- a9. Describe diagnosis and treatment of patient with virilism
- a10. Identify basic and medicolegal aspects and ethics of professional practice and scientific research and its reflection on environment.
- a11. Demonstrate advances knowledge of biostatistics and critically appraise research designs relevant to healthcare.
- a12. Recognize basis and principles of quality in professional practice related to endocrinology

***b- Intellectual Skills***

- b1. Interpret and analyze data and apply problem solving skills in different profession situations.
- b2. Integrate the results of history, physical and laboratory test findings into a meaningful diagnostic formulation
- b3. Practice critical thinking and problem solving
- b4. Formulate a research hypothesis based on evidence and apply the appropriate methods to assess the validity of this hypothesis
- b5. Design a research article that can be submitted to a regional or international scientific journal.
- b6. Demonstrate insight into research and scientific method
- b7. Perform scientific research adding new information and write scientific research
- b8. Assess risk in professional practices
- b9. Make professional decisions in relation to different professional sequences

***c- Professional and Practical Skills***

- c.1 Conduct an emergency plan of management for common and rare endocrinal emergencies
- c.2 Perform all skills in courses specifications
- c.3 Write and evaluate medical reports
- c.4 Evaluate different methods and tools available related to endocrinology
- c.5 Maintain and improve his standards of knowledge and training by critical self-education.

***d- General and Transferable Skills***

- d1. 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.
- d2. Effectively utilize a range of information sources including information technology/health informatics.
- d3. Educate and evaluate performance of peers
- d4. Critically evaluate their personal performance both as an individual and within a team.



- d5. Demonstrate capacity for self-learning and independent thinking and to utilize problem solving skills.
- d6. Use different resources to obtain knowledge and information.
- d7. Demonstrate skills in working collegiately and effectively with others as a member of a team.
- d8. Conduct both individual consultations and presentations at multidisciplinary conferences that are focused, clear, and concise.

### **3- Academic Standards**

#### **3a - External References for Standards (Benchmarks)**

- The generic Academic Reference Standards (ARS) of NAQAAE for Postgraduate

#### **3b -Comparison of Provision to External References**

### **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. The specialized courses in **Pathology** planned and held in the Pathology Department of the Faculty of Medicine, Suez Canal University. It includes 9 CP.
  - c. The specialized courses in **Physiology** planned and held in the Physiology Department of the Faculty of Medicine, Suez Canal University. It includes 9 CP.
  - d. Two electives each one has 2 CP. The students should select one elective which has not been selected in the Master Degree.
    - Evidence Based medicine (Community Department)
    - Scientific Writing (Medical Education Department)
    - Quality in Medical Education (Medical Education Department)
    - Infection Control (Microbiology Department)
    - Critical Appraisal (Community Department)
    - Communication Skills (Medical Education Department)



- 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 2 years from the date of the faculty council approval on the thesis protocol.
- 1- **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 Endocrinology, planned and held in the Internal Medicine Department. This part lasts for 2 years ending by written and practical exams.

**3bi-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		
BR	Research methodology and biostatistics	8	1	3 hours	160		
IMEN 51	Applied Pathology	9	1	3 hours	135	45	
IMEN 52	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	Duration	Marks			
IMEN 53	Advanced Course in Endocrinology and internal medicine	60	3	3 hours 3 hours 1.5 hours	225+ 225+ 90	180	540	540
	Practical training in Advances of Endocrinology	30						
	***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 of 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.



### **Program Admission Requirements**

- The program accepts candidates with MSc in Endocrinology 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**

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

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

Evaluator	Tool	Sample
1- Postgraduate students	questionnaires	
2- Alumni(N/A since this is the first time to implement the program)	N/A	N/A
3- Stakeholders	questionnaires	
4-External Evaluator(s) (External Examiner(s))	External audit of the program specifications	

*Head of Internal Medicine Department*

*Prof. Dr. Mahmoud El-Prince*