



*Faculty of Medicine*  
*Suez Canal University*



*Internal Medicine Department*  
*Program Specification- MD internal medicine*

## ***PROGRAM SPECIFICATIONS***

*Program Title:*

**MD of Internal Medicine**

*Code:*

***IMIM***



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## **Program Specification**

### **A- Basic Information**

- 1- Program Title: **MD of Internal Medicine**
- 2- Program Type: **Single**  **Double**  **Multiple**
- 3- Department (s): **Internal Medicine Department**
- 4- Coordinator: **Prof. Hamdy Sliem**  
**Dr. Mona Mostafa**
- 5- External Evaluator(s) :
- 6- Specifications approval: The bylaws of the MD program in Internal medicine in the Faculty of Medicine, Suez Canal University were approved by the Supreme Council of Universities in 2016.
- 7- Date of program specification revision approval: **September 2019**
- 8- Number of credit points for this degree: **180 CP**

### **B- Professional Information**

#### **1- Program Aims**

The overall goals of the program are to develop an internist who is able to:

- Achieve satisfactory levels of basic knowledge and clinical skills in all aspects of internal medicine.
- Interact with community problems, respect ethical values according to community culture.
- Promote their medical standards through engaging in continuing medical education.
- Demonstrate the ability to critically evaluate their methods of clinical practice, integrate evidence-based medicine into patient care, show an understanding of research methods, and improve patient care practices.
- Understand health care delivery systems, provide effective and qualitative patient care within the system, and practice cost-effective medicine.
- Demonstrate the basics of scientific medical research.

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

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

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

- a.1 Recognize the basics of physiology, and applied pathology related to the practice of internal medicine.



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- a.2 Identify common clinical problems related to various modules in internal medicine:- (Endocrinology, Hematology, Nephrology, Rheumatology, immunology, Gastroenterology, hepatology, Neurology, chest, and infectious diseases)
- a.3 Describe different laboratory and imaging procedures to diagnose various clinical disorders related to various modules.
- a.4 Describe the differential diagnosis and management modalities for different medical clinical problems.
- a.5 Recognize the principles of different procedural skills that enable the candidate to diagnose various medical clinical disorders.
- a.6 Determine clinically optimal yet cost-effective testing and therapeutic strategies.
- a.7 Demonstrate the principles of clinical research design, implementation, and interpretation.
- a.8 Explain the various levels of evidence in medicine and their translation into evidence-based practice.
- a.9 Explain the regulatory issues pertaining to the use of human subjects in research.
- a.10 Recognize basis and principles of quality in professional practice related to the specialty
- a.11 Recognize basics of ethics and medicolegal aspects of professional practice, related to the Internal Medicine
- a.12 Recognize basis, methods and ethics of scientific researches and its different tools

**b- Intellectual Skills:**

- b1. Interpret and integrate basic science knowledge the student had studied to maximize their benefit in practicing his clinical work.
- b2. Analyze symptoms and signs for every case to construct a differential diagnosis for the common clinical presentations.
- b3. Tailor management plans for every patient with a sound knowledge of the appropriate treatments including health promotion, disease prevention and long term management plans.
- b4. Design an appropriate diagnostic plan for evaluation of common clinical complaints taking into consideration the nature of the clinical situation and the risks, benefits and costs to the patient.
- b5. Interpret the results of different investigations guided by the history and examination.
- b6. Design a study that can be used to validate methodologies and parameters of clinical utility for the implementation and continuing use of new evidence-based analysts in the local setting.
- b7. Critical appraisal and analysis of clinical research methodology and results.
- b8. Write scientific article according to the basics of scientific research.
- b9. Plan to improve performance related to specialty in innovative way
- b10. Make professional decision in relation to different professional sequences
- b11. Discuss on basis and evidence
- b12. Assess risk in professional internal medicine practice

**c- Professional and Practical Skills:**

- c1. Integrate symptoms and signs of common clinical disorders.
- c2. Practice the art of history taking.
- c3. Suspect the rare clinical disorders based on clinical and laboratory data.
- c4. Perform simple bed side clinical procedures.



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- c5. Offer an accurate medical diagnosis after the interpretation of investigations.
- c6. Offer proper medical treatment for various medical problems .
- c7. Manage medical emergencies properly.
- c8. Perform different diagnostic procedures to reach the diagnosis.
- c9. Evaluate different methods and tools available related to specialty
- c10. Interact with others without discriminating on the basis of religious, ethnic, sexual, or educational differences.
- c11. Demonstrate principles of confidentiality with all information transmitted both during and outside of a patient encounter.
- c12. Write and evaluate professional medical reports
- c13. Use technology to serve professional practice
- c14. Plan to develop professional practice and improve performance of others

**d- General and Transferable Skills:**

- d.1 Provide effective team working and leadership skills.
- d.2 Manage time and other resources to the benefit of their patients and Colleagues.
- d.3 Acquire basic administrative skills in management and leadership.
- d.4 Communicate with other health care providers.
- d.5 Achieve Computer skills necessary to make use of medical data bases and use the internet for communication.
- d.6 Educate and evaluate performance of others
- d.7 Master self evaluation and lifelong learning
- d.8 Patron scientific meetings and manage time effectively

**3- Academic Standards**

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

- The standards of the National Authority of Quality Assurance and Accreditation in Education (NAQAAE). Website: [www.naqaae.org](http://www.naqaae.org)

**3b - Comparison of Provision to External References (attached)**

**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**



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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. Two specialized courses in applied pathology and applied physiology, planned and held in the pathology and physiology departments. It includes 9 CP each.
  
- 3- **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 6 months from the date of the faculty council approval on the thesis protocol and passing the first part exam.
  
- 4- **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 internal Medicine, 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	Duratio n	Marks		
IMIM51	Pathology	9	1	3	135	45	
IMIM52	Physiology	9	1	3	135	45	
RB	Research methodology and Biostatistics	8	1	3 hours	160		
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.



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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			
IMIM53	Scientific and theoretical Course in internal medicine	30	3	3 hours + 3 hours	225	180	540	540
	Practical training in internal medicine	60		1.5 hour (for case)	90			
	***Scientific activities	10 (not included in the total marks)						
Total		100 credit points			1800 marks			

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



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- The program accepts candidates with Masters in internal Medicine 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 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**



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- Passing discussion is required for MD degree

**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		





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Benchmark	Program ILOs Covered (By No.)
<b>2.1: Knowledge and understanding</b>	
<b>By the end of the postgraduate MD program the candidate should be able to know and understand the following:</b>	
2.1.01 Theories, basic and specific knowledge related to his specialty as well as basic sciences related to practice in his field	a1 – a6
2.1.02 basis, methods and ethics of scientific researches and its different tools	a7, a12
2.1.03 Basic of ethics and medico legal aspects of professional practice, related to the specialty	a11
2.1.04: basis and principles of quality in professional practice related to the specialty	a10
2.1.05 Related information concerned with the effects of professional practice on the environment and methods of environmental maintenance and development	a8
<b>2.2- Intellectual Skills</b>	
<b>By the end of the postgraduate MD program the candidate should be able to:</b>	
2.2.01 Analyze and evaluate knowledge to solve problems related to his specialty	b1, b2
2.2.02 solve specific problems with available data	b3
2.2.03 Perform scientific research adding new information	b6
2.2.04 Writing scientific papers	b8
2.2.05 Risk assessment in professional practices	b12
2.2.06 Plan to improve performance related to specialty	b9
2.2.07 professional decision making in relation to different professional sequences	b10
2.2.08 Be innovative and creative	b9
2.2.09 discuss on basis and evidence	b11
<b>2.3- Practical and Clinical Skills</b>	
<b>By the end of the postgraduate MD program the candidate should be able to:</b>	
2.3.01 Demonstrate essential practical skills related to his specialty	c1 to c8
2.3.02 Write and evaluate professional reports	c12
2.3.03 Evaluate different methods and tools available related to specialty	c8, c9
2.3.04 Use technology to serve professional practice	c13
2.3.05 plan to develop professional practice and improve performance of others	c14
<b>2.4 General and transferable skills</b>	
<b>By the end of the postgraduate MD program the candidate should be able to</b>	
2.4.01 Communicate ideas and arguments effectively	d4
2.4.02 Use information technology to serve in the development of professional practice	d5
2.4.03 Educate and evaluate performance of others	d6
2.4.04 self evaluation and lifelong learning	d7
2.4.05 Use different resources to obtain knowledge and information.	d2
2.4.06 Work effectively within team and lead a team effectively	d1
2.4.07 Patron scientific meetings and manage time effectively	d8

*Head of Internal Medicine Department*  
*Prof. Mahmoud El prince*