



Faculty of Medicine
Suez Canal University



Internal Medicine Department
Program Specification- MSc internal medicine

PROGRAM SPECIFICATIONS

Program Title:

**Master Degree of Internal
Medicine**

Code:

IMIM



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Program Specification

A- Basic Information

1- Program Title: **Master Degree 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 master 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 specification revision approval: September **2019**

8- **Number of credit points for this degree: 120 CP**

B- Professional Information

1- Program Aim

The overall goals of the program are to develop an internist with the following characteristics:

- Familiar with the scientific knowledge essential for the practice of internal medicine according to the international standards.
- Have necessary skills for proper diagnosis and management of patients in the field of internal medicine including diagnostic, problem solving and decision making.
- Aware with the ethical principles related to the practice in this specialty.
- Can actively participate in community needs assessment and problems solving.
- Can maintain the learning abilities necessary for continuous medical education & for research abilities.

Intended Learning Outcomes (ILOs) of the program

a- Knowledge and Understanding:

By the end of the study of the program, the Graduate should be able to:

- a.1 Describe the structure, histology and function of internal body systems.
- a.2 List indications, pharmacokinetics and side effects of commonly used drugs in the field of internal medicine.
- a.3 Identify up-to-date diagnostic, microbiological and laboratory techniques necessary to establish diagnosis of internal medicine diseases.
- a.4 Discuss pathogenesis of the common gastrointestinal, endocrinological, hematological, neurological and renal diseases.
- a.5 Recognize the spectrum of clinical symptomatology related to different body systems.
- a.6 Appreciate the clinical spectrum of common medical conditions with multisystem affection.



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- a.7 Describe the concept of emergency management of acute medical disorders (acute abdomen, acute cardiac illness, coma).
- a.8 Recognize principles, methodologies, tools and ethics of scientific research.
- a.9 Provide students with adequate knowledge and skills in research methodology that enable them to design experiments, analyze data, and review literature critically
- a.10 Appreciate basic of ethics and medico legal aspects of professional practice, related to internal medicine
- a.11 Recognize basis and principles of quality assurance in professional practice related to the specialty
- a.12 Recognize exchangeable effect of internal medicine practice and its reflection on the environment

b- Intellectual Skills:

By the end of the study of the program, the Graduate should be able to:

- b.1 Formulate appropriate management plans for individual patients presenting with the most common medical disorders (cardiac, hepatic, GIT, hematological, neurological,).
- b.2 Select from different diagnostic alternatives to reach a final diagnosis.
- b.3 Make decisions regarding common clinical situations using appropriate problem solving skills.
- b.4 Interpret X-ray and CT films, blood gas, blood picture, bone marrow, liver and renal function reports covering the most important medical conditions.
- b.5 Show appropriate professional attitudes and behaviors in different practice situations in cardiology, hepatology, nephrology).
- b.6 Conduct research studies that add to knowledge.
- b.7 Formulate scientific papers in the area of internal medicine
- b.8 Assess risk in professional practices in the field of internal medicine.
- b.9 Plan to improve performance in the field of internal medicine.
- b.10 Make professional decision in relation to internal medicine practice

c- Professional and Practical Skills

By the end of the study of the program, the graduate should be able to:

- c1. Master the basic and modern professional skills in the area of internal medicine.
- c2. Conduct a proper general examination.
- c3. Identify normal and abnormal physical signs.
- c4. Interpret the significance and relevance of abnormal physical signs.
- c5. Conduct proper regional examination of the thorax and abdomen by inspection, palpation, percussion and auscultation to identify: surface anatomy of internal organs, normal physical signs and abnormal physical signs.
- c6. Integrate patient's symptomatology, historic data, abnormal physical signs and investigations into a comprehensive differential diagnosis in various body systems affection.
- c7. Write and evaluate medical reports.
- c8. Identify a clear priority plan in the patient's management.
- c9. Recognize the indications for consulting higher levels or reference to other disciplines.
- c10. Develop the clinical skills of eliciting abnormal physical signs in various systems examination.
- c11. Identify the appropriate supportive investigations relevant to a particular patient and adequately interpret the results.



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- c12. Identify adequate logistics for further patient investigations and management.
- c13. Become acquainted with special approach to the diagnosis of common medical conditions related to internal medicine.
- c14. Evaluate different methods and tools available related to specialty
- c15. Write a case summary and simple essay.

d- General and Transferable Skills

By the end of the study of the program, the Graduate should be able to:

- d.1 Gain capabilities and skills of communications with fellows.
- d.2 Communicate effectively with patients and their families.
- d.3 Deal perfectly with the computer.
- d.4 Use different sources for information and knowledge.
- d.5 Gain information through the internet.
- d.6 Gain skills of teaching and evaluation.
- d.7 Assess himself and identify personal learning needs.
- d.8 Prepare and present different topics using power point and data show.
- d.9 Work in a team work.
- d.10 Manage Scientific meetings according to the available time.

3- Academic Standards

3a - External References for Standards (Benchmarks)

- The standards of the National Authority of Quality Assurance and Accreditation in Education (NAQAAE). Academic Reference Standards for postgraduates. Website: 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 2 academic years and maximum 5 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 7th, 2016.

4b- Program structure:

Master Program Credit points (CP) structure:

Total needed credit points for getting master degree 120 CP

The program consists of **First part 30 CP, Thesis 30 CP, and Second part 60 CP**

1. The first part of the program: 30 CP, its duration (15 weeks) for one academic semester. It includes
 - 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 4 CP.
 - b. A courses in Research ethics planned and held in the Forensic and Toxicology Department of the Faculty of Medicine, Suez Canal University. This part includes 2 CP.
 - c. One elective course, the students should select one elective among six courses. This part includes 2 CP.



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d. The specialized courses in (applied anatomy, histology, applied physiology, clinical pharmacology, applied pathology, microbiology and clinical immunology, clinical pathology), planned and held in the (human anatomy and embryology, histology, physiology, pharmacology, pathology, microbiology and clinical immunology, clinical pathology) departments. They include 22 CP.

2. Master thesis: 30 CP, not included in the total marks for master degree, the candidate has the right to register the thesis protocol after 6 months from the degree registration. The thesis defense is allowed after 6 months 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: 60 CP, its duration (45 weeks) for 3 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 1.5 years ending by written and practical exams.

4bi- No. of hours per week: 2 CP / week which equivalent 50 hours/ week, including lectures, tutorials, self-learning and hands-on training.

4bii- No. of credit Points: the Master program is 120 Credit Points

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: 1st part MSc

a. Compulsory

Courses			Assessment				
Code No.	Course Title	No. of Credit points	Written Exam			Oral exam	Practical or clinical Exam
			No of Papers	Durati on	Marks		
RB	Research methodology and Biostatistics	4	1	2 hours	80		
RE	Research Ethics	2	1	1 hour	40		
IMIM01	Anatomy	3	1	1	45	15	
IMIM02	Histology	2	1	1	30	10	
IMIM03	Physiology	4	1	2	60	20	
IMIM04	Pharmacology	3	1	1	54	15	
IMIM05	Pathology	4	1	2	60	20	
IMIM06	Microbiology & immunology	4	1	2	60	20	
IMIM07	Clinical pathology	2	1	1	30	10	
E	Elective Course*	2	1	1 hour	40		
Total		30 credit points			600 marks		



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

One elective course has 2 CP. The students should select one elective in first part of 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 Programme: 2nd part MSc

a. Compulsory

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			
IMIM08	Scientific and theoretical Course in Internal medicine	15	2	3 hours For each paper	165 for each paper	110	330	330
	Practical training in Internal medicine	40						
	***Scientific activities	5 (not included in the total mark)						
Total		60 credit points			1100 score			

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



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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. 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.

N.B. **Thesis represents 30 credit points not included in the total mark for master degree.**

6-Program Admission Requirements

- The program accepts candidates with Bachelor degree in Medicine and Surgery with minimum good grade & very good.
- 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.
- 7.3 **Observations** to assess practical and presentation skills.
- 7.4 **Portfolio** to assess the cognitive, psychomotor and the affective domains.

8- Weighting of Assessments

Total marks for master degree 1700

Type of exam

First part (30 credit points= 600 mark)

- Written exam 490
- Oral exam 110
- **Total** **600**

Second part (60 credit points including 5 credit points not included in the total marks =1100 mark)

- Oral exam 110
- Practical exam 330
- Written exam 330
- Portfolio 330



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Total

1100

9- Regulations for Progression and Program Completion

The regulations for program completion follow the regulations of Master degree of **Internal Medicine** in the Faculty of Medicine, Suez Canal University approved by the Supreme Council of Universities.

First part

Passing level 60% of total marks of the exam

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% is prerequisite for MSc degree

Thesis/Assay

Passing thesis defense is prerequisite for getting MSc. Degree

10- Evaluation of Program Intended Learning Outcomes (ILOs)

Evaluator	Tool	Sample
1- Postgraduate students	Needs assessment questionnaires	Random sample of participants
2- Alumni	Self-administered questionnaires	Comprehensive sample
3- Stakeholders	Self-administered questionnaires	Random sample
4- External Evaluator(s) (External Examiner(s))	External audit of the program specifications	
5- Other		

Head of Internal Medicine Department

Prof. Mahmoud El prince

Date: September 2019