



Faculty of Medicine
Suez Canal University

Internal Medicine Department
Program Specification M.D.

PROGRAM SPECIFICATIONS

Program Title:

**M.D. of Gastroenterology
and Hepatology**

Code:

IMGH



Program Specification

A- Basic Information

1- Program Title: **MD of Gastroenterology and Hepatology**

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

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

4- Coordinator: **Dr. Eman Fahmy**

5- External Evaluator(s):

6- **Last date of program specifications approval:** the bylaws of the MD program in Gastroenterology and Hepatology 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:** October 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 simple basic and advanced knowledge, comprehensive and concise lectures / tutorials concerning basics and updates in gastroenterology and Hepatology disorders and skills:

- 1.1. Providing students with the competencies required to design experiments, analyze data, and review literature critically
- 1.2. Using relevant quantitative and qualitative methodologies when writing-up the thesis and projects.
- 1.3. Appropriately deal with the patient regarding history taking and physical examination.
- 1.4. Understanding etiology and pathogenesis of the common gastrointestinal disorders.
- 1.5. Study the effect of gastrointestinal diseases on other systems and the effects of other systems on gastrointestinal system.
- 1.6. Choosing the investigations needed for each gastrointestinal case.
- 1.7. Individualize the optimum plan of management.
- 1.8. Acquiring skills in case presentation and discussion
- 1.9. Developing appropriate skills to carry out research.
- 1.10. Ethically behave as a researcher.
- 1.11. Identify and justify the basic components of the research framework, relevant to the tackled research problem.



2. Intended Learning Outcomes (ILOs) of the program

a- Knowledge and Understanding:

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

- a.1 Classify and recognize the broad spectrum of clinical disorders including inflammatory, infectious and neoplastic diseases in the field of gastroenterology and hepatology.
- a.2 Demonstrate advanced knowledge of the anatomical structure of GIT and hepatology organs
- a.3 Identify the physiological functions of different organs and cells in the GIT and liver
- a.4 Identify different drugs used in treatment of gastrointestinal and hepatological diseases and their drawbacks.
- a.5 Explain the causation, pathogenesis of various liver and gastrointestinal diseases
- a.6 Recognize the different approaches for diagnosis through noninvasive and invasive methods and medical management of various liver and gastrointestinal diseases
- a.7 Identify the different emergency situations in the field of gastroenterology and hepatology as life threatening GI bleeding, vascular events and hepatic coma.
- a.8 Demonstrate advanced knowledge of biostatistics, ethical considerations and tools required for scientific research
- a.9 Critically appraise research designs relevant to healthcare.
- a.10 Effectively code, categorize and analyze data generated through the application of one methodology.
- a.11 Identify medico legal aspects related to the specialty

b- Intellectual Skills

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

- b1. Design management plans for diagnosis, differential diagnosis and treatment of different GIT and liver diseases according to collected data, examinations and investigations
- b2. 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)
- b3. Apply problem solving skills in different profession situations using different information resources
- b4. Practice self-evaluation skills to plan for his professional development.



- b5. Interpret and analyze data.
- b6. Practice critical thinking and problem solving
- b7. Formulate a research hypothesis based on evidence and apply the appropriate methods to assess the validity of this hypothesis
- b8. Criticize the scientific literature in GIT.
- b9. Design a research article that can be submitted to a regional or international scientific journal.

c- Professional and Practical Skills

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

- c.1: Perform efficiently general and GIT examination
- c.2: Diagnose and treat patients with main gastrointestinal pathologies
- c.3: Elicit and confirm diagnosis of gastrointestinal emergencies
- c.4: Perform emergency management for gastrointestinal emergencies and assess the risk
- c.5 Use modern guidelines, technology and tools for diagnosis of GIT diseases
- c.6 Write comprehensive report about patients' conditions and consider the medico legal aspect of the specialty
- c.7 Perform a scientific research that is creative in the specialty
- c.8 Write a scientific paper related to the specialty

d- General and Transferable Skills

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

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

3- Academic Standards

3a - External References for Standards (Benchmarks)

- The standards of the National Authority of Quality Assurance and Accreditation in Education (NAQAAE).

3b - Comparison of Provision to External References

See attached table

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 7th, 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 :
 - 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 the elective which has not been selected in the Master Degree.
 - c) The specialized courses in **Applied Pathology** planned and held in the Pathology Department of the Faculty of Medicine, Suez Canal University. It includes 5 CP.
 - d) The specialized courses in **Applied Physiology** planned and held in the Physiology Department of the Faculty of Medicine, Suez Canal University. It includes 5 CP.
 - e) The specialized courses in Applied **Anatomy** planned and held in the Anatomy Department of the Faculty of Medicine, Suez Canal University. It includes 4 CP.
 - f) A course in Applied Pharmacology planned and held in the Pharmacology Department of the Faculty of Medicine, Suez Canal University. This part includes 4 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 2 years from the date of the faculty council approval on the thesis protocol.

- 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 Gastroenterology and hepatology, planned and held in the Internal Medicine Department.

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.ProgramCourses: 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		
IMGH51	Applied Pathology	5	1	3 hours	75	25	
IMGH52	Applied Physiology	5	1	3 hours	75	25	
IMGH53	Applied Pharmacology	4	1	3 hours	60	20	
IMGH54	Applied Anatomy	4	1	3 hours	60	20	
E	Two Elective courses*	2+2	1+1	1 hour+1 hour	40+40		
Total		30 credit points			600 marks**		

*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):
Second part of MD program (100 CP)



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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			
IMBD5 5	Advanced Course in Gastroenterology and hepatology	60	3	3 hours 3 hours 1.5 hours	225+ 225+ 90	180	540	540
	Practical training in Advances of Gastroenterology and hepatology	30						
	**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 od second part

**Scientific activities are not included in the total marks

5.3 Thesis: A faculty senior & junior supervisor from the stuff 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 stuff 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 master in Gastroenterology 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 examination for assessment of knowledge and intellectual skills

7.2: Structured Oral examination for assessment of knowledge and intellectual skills

7.3: OSCE examination for assessment of practical and communication skills

7.4: MCQ examination for assessment of ILOs number knowledge and intellectual skills

7.5: portfolio for activities for assessment of: mainly for assessment of practical & transferable skills which are accepted through attending different conferences, thesis discussions, seminars, workshops, attending scientific lectures as well as self-learning.

7.6: The supervisor requires certain assignments: meetings and case presentations that are evaluated and signed by the supervisors in the log book (without marks).

7.7: Meetings: the candidate should prepare and present at least one seminar in a topic related to the course and determined by the supervisors in front of the department staff (without marks).

8- Weighting of Assessments

Type of exam	
First part (30 credit points= 600 mark)	
• Written exam	510
• Oral and practical exam	90
• <u>Total</u>	600
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
<u>Total</u>	1800



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 60% 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

9- 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	
5- Other		

Coordinator

Dr. Eman Fahmy

Supervisor

Prof. Khalil Ali Khalil

Head of Internal Medicine Department

Prof. Dr. Mahmoud El-Prince