



Faculty of Medicine
Suez Canal University

Internal Medicine Department
Program Specification MSc.

PROGRAM SPECIFICATIONS

Program Title:

**Master Degree
of Gastroenterology and
Hepatology**

Code:
IMGH



Program Specification

A- Basic Information

1-Program Title: master degree of gastroenterology

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 Master 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:** 120 CP

B- Professional Information

1- Program Aim

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

- 1.1. Provide students with adequate knowledge and skills in research methodology that enable them to design experiments, analyze data, and review literature critically
- 1.2. Identify and justify the basic components of the research framework, relevant to the tackled research problem.
- 1.3. Provide students with adequate knowledge and skills in research ethics that enable them to design researches with high ethical consideration.
- 1.4. Appropriately deal with the patient regarding history taking and physical examination.
- 1.5. Understand etiology and pathogenesis of the common endocrine disorders.
- 1.6. Study the effect of endocrine diseases on other systems and the effects of other systems on endocrine system.
- 1.7. Provide the students with the essential knowledge of genetics, bacteriology, virology and mycology and its applications in the field of endocrinology.
- 1.8. Choose the investigations needed for each endocrine case.
- 1.9. Individualize the optimum plan of management.
- 1.10. Acquire skills in case presentation and discussion
- 1.11. Develop appropriate skills to carry out research.
- 1.12. Ethically behave as a researcher



- 1.13. 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:

- a1. Demonstrate basic knowledge of research ethics
- a2. Demonstrate basic knowledge of biostatistics
- a3. Demonstrate essential knowledge of biochemical, genetics, bacteriology, virology and mycology and its applications in the field of GIT and endocrinology.
- a4. Demonstrate basic anatomical, physiological, histological and pathological knowledge in the field of GIT and endocrinology
- a5. Identify and discuss the common medical problems presenting to Gastroenterologists and Hepatologists - in primary health care setting, hospital and community sittings - their diagnosis, prevention and treatment.
- a6. Identify Gastrointestinal (GI) and Hepatological diseases in terms of mental, functional and physical processes
- a7. Distinguish the clinical manifestations and differential diagnosis of common GI and Hepatological disorders with an emphasis on the incidence of the different manifestations and their relative importance in establishing diagnosis, and the early manifestations of serious diseases (e.g. malignancy, emergencies, liver diseases ...etc).
- a8. Demonstrate basic knowledge necessary to enable candidates to share in research activities.
- a9. Demonstrate basic knowledge for the laboratory tests used in his field.

b- Intellectual Skills

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

- b1. Apply the basic statistical and ethical requirements for the completion of research thesis
- b2. Implement the appropriate research methodology
- b3. Apply problem solving skills in different profession situations.
- b4. Practice continuous self evaluation skills to plan for his professional development.
- b5. Interpret and analyze data using up to date knowledge in the field.
- b6. Apply medical guidelines in the diagnosis, differential diagnosis and plan for treatment of GIT and liver diseases
- b7. Integrate basic and laboratory information with the clinical findings to reach diagnosis
- b8. Assess and manage GIT and Liver diseases using modern techniques and investigations to decrease risk of complications
- b9. Practice critical thinking and problem solving



- b10. Formulate a research hypothesis based on evidence and apply the appropriate methods to assess the validity of this hypothesis
- b11. Criticize the scientific literature in GIT that help him to improve his profession.
- b12. 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: Apply the required clinical examination of GIT and Hepatology patients to reach provisional diagnosis
- c.2 Diagnose and treat patients with main gastrointestinal pathologies
- c.3: Elicit and confirm diagnosis of gastrointestinal emergencies
- c.4: Perform Emergency plan of management for gastrointestinal emergencies
- c.5: Assess and diagnose patient presented with a major gastrointestinal symptom or sign and treat them
- c.6 Write a medical report

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 Use different resources, efficient Information and Communication Technology (ICT) to get knowledge
- d.8 Practice continuous and self learning skills.

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 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 degree Program Credit points (CP) structure:

Total needed credit points for getting MD 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. 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 4 CP.
 - b. A course 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. The specialized courses in **Applied Pathology** planned and held in the Pathology Department of the Faculty of Medicine, Suez Canal University. It includes 3 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 4 CP.
 - e. The specialized courses in **Anatomy** planned and held in the Anatomy Department of the Faculty of Medicine, Suez Canal University. It includes 3 CP.
 - f. A course in **Clinical Immunology and Microbiology** planned and held in the Microbiology Department of the Faculty of Medicine, Suez Canal University. This part includes 3 CP.
 - g. A course in **Clinical and Chemical Pathology** planned and held in the clinical Pathology Department of the Faculty of Medicine, Suez Canal University. This part includes 3 CP.
 - h. A course in **Clinical Pharmacology** planned and held in the Pharmacology Department of the Faculty of Medicine, Suez Canal University. This part includes 4 CP.
 - i. **Histology** course planned and held in the histology Department of the Faculty of Medicine, Suez Canal University 2 CP.
 - j. **Clinical Biochemistry** planned and held in the biochemistry Department of the Faculty of Medicine, Suez Canal University 3 CP.
- 2- **Master thesis:** 30 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 6 month from the date of the faculty council approval on the thesis protocol.
- 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 gastroenterology, 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 degree program is 120 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 Msc

| 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 & Biostatistics | 4 | 1 | 2 hours | 80 | | |
| RE | Research Ethics | 2 | 1 | 1 hour | 40 | | |
| IMGH01 | Applied physiology | 3 | 1 | 1 hour | 45 | 15 | |
| IMGH02 | Applied Anatomy | 3 | | | 45 | 15 | |
| IMGH03 | Histology | 2 | | | 30 | 10 | |
| IMGH04 | Clinical Biochemistry | 3 | 1 | 1 hour | 45 | 15 | |
| IMGH05 | Clinical pharmacology | 3 | 1 | 1 hour | 45 | 15 | |
| IMGH06 | Clinical Immunology & Microbiology | 3 | 1 | 1 hour | 45 | 15 | |
| IMGH07 | Applied pathology | 3 | 1 | 1 hour | 45 | 15 | |
| IMGH08 | Clinical and chemical pathology | 2 | 1 | 1 hour | 30 | 10 | |
| E | Elective Course* | 2 | 1 | 1 hour | 40 | | |
| Total | | 30 credit points | | | 600 marks** | | |

*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.

| | | |
|-----|------------------------------|--------------------------------|
| 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) |

**every credit point equal 20 marks



5.2- Level/Year of Program: Second part of MSc program

| 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 | | | |
| IMGH09 | Theoretical in gastroenterology and hepatology and Internal Medicine | 15 | 2 | 3 hours For each paper | 165 for each paper | 110 | 330 | 330 |
| | Practical training in gastroenterology and hepatology | 40 | | | | | | |
| | ***Scientific activities | 5 | | | | | | |
| Total | | 60 credit points | | | **1100 score | | | |

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

****every credit point equal 20 marks**

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

5.3- 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 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. 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 Master degree 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 (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

Total marks for master degree 1700

| Type of exam | |
|--|-------------|
| First part (30 credit points= 600 mark) | |
| • Written exam | 490 |
| • Oral exam | 110 |
| • <u>Total</u> | 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 |
| <u>Total</u> | 1100 |

Total of the Master degree 1700



9- Regulations for Progression and Program Completion

The regulations for program completion follow the regulations of Master degree of medical education 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 | 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