



*Faculty of Medicine  
Suez Canal University*

*Surgery Department  
Program Specification, MSc*

---

*Program Title:*

Master Degree of General  
Surgery

*Code:*

***GSGS***



*Faculty of Medicine  
Suez Canal University*

*Surgery Department  
Program Specification, MSc*

## **Program Specification**

### A- Basic Information

1- Program Title: **MSc of General Surgery**

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

3- Department (s): **General Surgery Department**

4- Coordinator: **Dr. Ahmed Gomaa**

5- External Evaluator(s): **Prof. Hemeida Al Sayed, Zagazig University.**

6- **Last date of program specifications approval:** the bylaws of the MSc program in General Surgery 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 Aims:**

The overall aims of the program are to develop a surgeon who can:

- 1- Actively acquire personal and professional communication skills with patients and other colleagues in non-surgical departments to give the patient the best possible medical care
- 2- Detect and interpret patient's history and physical findings accurately and objectively, to put priorities in diagnosis and to plan the management of the patient considering priorities of management and other concomitant medical conditions.
- 3- Evaluate and choose in a priority and cost-effective manner to diagnose and evaluate the patient.
- 4- Perform the basic surgical procedures which is common and affecting the risky population groups, and in the same time mastering the surgical assistance in the major, or highly specialized operations.
- 5- Respect the rules and steps of surgical safety, risks and disinfection, in the same time be able to implement these standards.
- 6- Understand the value of surgical specialty and understands the basic surgical skills for every surgical specialty and when to consult seniors or staff of other specialty.
- 7- Know and respect without being embarrassed when to stop and refer to or consult other colleagues in the proper time and manner.



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

### **A- Knowledge and Understanding**

On successful completion of the program, the candidate will be able:

- a1. Demonstrate a knowledge base in the basic and clinical sciences necessary for effective surgical practice.
- a2. Recognize the anatomical and pathophysiological basis of the different surgical problems.
- a3. Describe the clinical presentations of the common surgical problems.
- a4. Recognize the scientific bases of up-to date laboratory, radiological, endoscopic, and other related investigations which may be needed for patients presented with suspected surgical manifestations.
- a5. Identify the basis for medico-legal and ethical aspects related to the care of surgical patients and related to surgical research.
- a6. Recognize the basis and principles of quality assurance in surgery practice.
- a7. Demonstrate basic knowledge of the principles of clinical research methodology and biostatistics that enable them to design experiments, analyze data, and review literature critically.

### **B- Intellectual skills**

On successful completion of the program, the candidate will be able:

- b1. Integrate all relevant information and resources to acquire and evaluate evidence-based information.
- b2. Apply knowledge for proper clinical history taking for the common surgical symptoms and develop the ability to formulate professional provisional diagnosis based on concrete information of the differential diagnosis of every one of these symptoms.
- b3. Implement the scientific background information needed for the management of different surgical problems and identify the important patient personal variations in scientific basis to plan the management on individual basis.
- b4. Analyze the basic academic information needed to medical conditions presented with surgically



- recognizable manifestations, and to suspect and identify medically related surgical conditions.
- b5. Recognize the various levels of evidence in medicine and translate them into evidence-based practice.
  - b6. Critically assess the scientific literature and conduct a scientific research
  - b7. Plan to improve performance related to surgery.

**C- Professional/practical skills**

On successful completion of the program, the candidate will be able:

- c.1 Apply general and local patient examination including specific systematic examination.
- c.2 Show compassion, be understanding and respectful of patients, their families, and the staff and physicians caring for them with respect to their personal differences.
- c.3 Demonstrate positive work habits, including punctuality, dependability, and professional appearance.
- c.4 Maintain principles of confidentiality with all information transmitted both during and outside of a patient encounter.
- c.5 Perform and evaluate all surgical maneuvers and operative procedures required in the course specifications
- c.6 Design and conduct a study that follow a standardized methodological parameter.
- c.7 Write an articulate, legible, and comprehensive yet concise consultation note.
- c.8 Provide a clear and informative report, including a precise diagnosis whenever possible, a differential diagnosis when appropriate, and recommended follow-up or additional studies as appropriate.
- c.9 Obtain informed consent skillfully.
- c.10 Assess risk in professional practices.
- c.11 Make professional decision in relation to different professional sequences

**D- General & Transferable skills**

On successful completion of the program, the candidate will be able:

- d.1 Use multiple sources, including information technology, to optimize lifelong learning and support patient care decisions.
- d.2 Develop personally effective strategies for the identification and remediation of gaps in medical



knowledge needed for effective practice.

- d.3 Use surgical patients' preoperative, intraoperative and postoperative problems and clinical inquiries to identify process improvements to increase patient safety.
- d.4 Know how to establish continuing competency assessment for surgeons and surgical assistants and specify educational needs.
- d.5 Use proficiency programs to improve surgical practices.
- d.6 Communicate effectively with patients, peers, superiors and the members of the healthcare team.
- d.7 Write scientific background for a research problem
- d.8 State regulations and outcomes for evaluation of others
- d.9 Work effectively within a team and manage time effectively

### **(3) Academic standards:**

#### **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)

### **(4) Program structure and contents:**

**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, 2016.

#### **Program structure:**

MSc Program Credit points (CP) structure:

No. of credit Points: the MSc 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).

*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 and Biostatistics 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 Forensic medicine department. It includes 2 CP.
  - c. An elective course has 2 CP.
  - d. A course in Surgical Anatomy and embryology planned and held in the Anatomy Department. It includes 3 CP.
  - e. A course in Surgical Pathology planned and held in the Pathology Department. It includes 2 CP.
  - f. A course in Histology planned and held in the Histology Department. It includes 2 CP.
  - g. A course in Microbiology planned and held in the Microbiology Department. It includes 3 CP.
  - h. A course in pharmacology planned and held in the Pharmacology Department. It includes 3 CP.
  - i. A course in Biochemistry planned and held in the Biochemistry Department. It includes 3 CP.
  - j. A course in Physiology planned and held in the Physiology Department. It includes 3 CP.
  - k. A course in Public Health and statistics planned and held in the Public health and community medicine Department. It includes 3 CP.
- 2- **MSc 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 6 months from the date of the faculty council approval on the thesis protocol and passing first part.
- 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 General Surgery, planned and held in the Surgery Department. This part ended by written, oral and practical exams.



*Faculty of Medicine  
Suez Canal University*

*Surgery Department  
Program Specification, MSc*

### 5 - Program Courses

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 and biostatistics	4	1	2 hours	80		
RE	Research ethics	2	1	1 hour	40		
GSGS 01	Surgical Anatomy and embryology	3	1	1 hour	45	15	
GSGS 02	Histology	2	1	1 hour	30	10	
GSGS 03	Surgical Pathology	2	1	1 hour	30	10	
GSGS 04	Microbiology	3	1	1 hour	45	15	
GSGS 05	Pharmacology	3	1	1 hour	45	15	
GSGS 06	Biochemistry	3			45	15	
GSGS 07	Physiology	3			45	15	
GSGS 08	Public health and Statistics	3			45	15	
E	Elective course*	2	1	1 hour	40		
<b>Total</b>		<b>30 credit points</b>			<b>600 marks**</b>		





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			
GSGS 09	• Course in General and specialized Surgery	15	2	3 hours 3 hours	165+ 165+	110	330	330
	• Practical and clinical training in General and specialized Surgery	40						
	***Scientific activities	5 (not included in the total marks)						
<b>Total</b>		<b>55 credit points</b>			<b>1100**marks</b>			

**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

- The program accepts candidates with MBChB degree or equivalent degree who finished one year as intern.
- 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

<b>Written (MEQ)</b>	to assess the cognitive domain.
<b>MCQs</b>	to assess the cognitive domain
<b>Oral Viva Cards</b>	to assess higher cognitive and attitude domains.
<b>Observations</b>	to assess practical and presentation skills.
<b>Portfolio</b>	to assess the cognitive, psychomotor and the affective domains.

### **Weighting of Assessments**

<b>Type of exam</b>	
<b>First part (30 credit points= 600 mark)</b>	
• Written exam	490
• Oral exam	110
• <b>Total</b>	<b>600</b>
<b>Second part (60 credit points including 5 credit points not included in the total marks =1100 mark)</b>	
• Oral exam	110
• Practical exam	330
• Written exam	330
• Portfolio	330
• <b>Total</b>	<b>1100</b>

## (7) Regulations for Progression and Program Completion

- The regulations for program completion follow the general regulations for the Faculty of Medicine, Suez Canal University for MSc 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 50% of total marks of written exam for each subject  
Passing level 60% total of practical and oral exam for each subject
  - **Thesis/Assay**  
Passing discussion is required for MSc degree

**(8) Evaluation of Program's intended learning outcomes (ILOs):**

Evaluator	Tool	Sample
1- Postgraduate students	questionnaires	Random sample
2- Stakeholders	questionnaires	
3-External Evaluator(s) (External Examiner(s))	External audit of the program specifications	

**Head of Surgery department:  
Prof. Dr. Mohamed Abd El Moaty**  
Date: / /