



Faculty of Medicine
Suez Canal University

General Surgery Department
Program Specification, M.D.

Program Title:

MD of General Surgery

Code:
GSGS



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Program Specification

A- Basic Information

1- Program Title: **MD 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 MD 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: 180 CP**



(B) Professional information

(1) Program Aims:

The overall aims of the Program are that the student can:

- 1- Communicate with different styles of personalities and properly deal with the patients, colleagues and seniors his work setting and in all circumstances of work according to the standards approved by health evaluation and accreditation associations, national and international.
- 2- Analyze patient's history and physical findings accurately and objectively, reach a provisional diagnosis and plan management of the condition considering all aspects of the patient as well as bearing in mind the possibilities of rare conditions.
- 3- Properly choose the diagnostic and treatment modalities in proper priority and cost-effective manner and interpret their results in coordinate way to give the best chance for curing and/or improving the quality of life of these patients.
- 4- Perform advanced surgical procedures particularly those which are common and affecting the risky population groups, in addition to mastering the principles and basis of other procedures of rare, risky and highly specialized operations based on mature understanding and integration of the related basic knowledge and techniques.
- 5- Apply rules and steps of surgical and patient safety, risks and disinfection, and push other team personnel to respect and implement them in all occasions.
- 6- Respect surgical specialties and master the basics of every other surgical specialty to implement them properly when needed.
- 7- Know the professional limitations and the necessity of continuous upgrading and updating through different modalities of Continuous Medical Education.
- 8- Understand the role of research in clinical decision making, basis of sound decision making as well as dealing with all forms and sources of data including computer skills and critical appraisal.



(2) Intended Learning Outcomes (ILOs):

A- Knowledge and Understanding

Candidates must demonstrate knowledge of established and evolving biomedical, clinical, epidemiological and social behavioral sciences, as well as the application of this knowledge to patient care. On successful completion of the program, the candidate will be able:

- a.1 Develop and maintain up-to date knowledge in the basic and clinical sciences necessary for effective surgical consultations in other departments.
- a.2 Demonstrate 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.
- a.3 Identify the basic updated academic information needed to medical conditions presented with surgically recognizable manifestations, and to suspect and identify medically related surgical conditions.
- a.4 Describe the scientific bases of needed laboratory, radiological, endoscopic, and other related investigations which may be needed for patients presented with suspected surgical manifestations, and properly interpret the results of them.
- a.5 Recognize and appreciate the basis for medico-legal and ethical aspects related to the care of surgical patients and related to surgical research and its reflection on environment.
- a.6 Demonstrate knowledge of the principles of clinical research design, implementation, and interpretation.
- a.7 Demonstrate advances knowledge of biostatistics.
- a.8 Provide the major goals of an effective quality assurance program:
 - Evidenced of accountability for services rendered and compliances with standards of practice.
 - A defined mechanism to identify, measures and resolves, clinical issues related to practice.
 - A defined mechanism of evaluating quality indicators, collecting data, developing corrective action and assessing outcomes.

B- Intellectual skills

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



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- b1.** Apply 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.
- b2.** Recognize and suspect uncommon and rare presentations of common surgical problems and develop high index of suspicion for uncommon and rare surgical diseases.
- b3.** Demonstrate proficiency in evaluating and presenting findings from appropriate peer-reviewed journals and conduct a scientific research.
- b4.** Critically appraise research designs relevant to healthcare and write scientific papers
- b5.** Assess risk in professional practices
- b6.** Plan to improve performance related to surgery
- b7.** Make professional decision in relation to different professional sequences
- b8.** Apply and use modern, best evidence in making decisions about the care of individual patients

C- Professional/practical skills

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

- c.1 Apply all the steps and points of general and local patient examination including specific systematic examination.
- c.2 Provide direct communication and surgical consultations to patients outside the surgical department with proper interpretation and effective needed intervention when needed in collaboration with the referring physician or appropriate clinical personnel caring for the patient and document this communication in an appropriate fashion.
- c.3 Interact with others without discriminating on the basis of religious, ethnic, sexual, or educational differences and demonstrate understanding and respectful for them.
- c.4 Demonstrate positive work attitude, including dependability, leadership and professional appearance.
- c.5 Demonstrate a responsiveness to the needs of patients and society that supersedes self-interest.
- c.6 Introduce principles of confidentiality with all information transmitted both during and outside of a patient encounter.
- c.7 Demonstrate knowledge of regulatory issues pertaining to the use of human subjects in research.
- c.8 Perform common and standardized surgical maneuvers and operative procedures.



c.9 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 analyses in the local setting.

D- General & Transferable skills

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

- d. 1 Write an articulate, legible, and comprehensive yet concise consultation notes. 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.
- d. 2 Conduct both individual consultations and presentations at multidisciplinary conferences that are focused, clear, and concise.
- d. 3 Choose effective modes of communication (listening, nonverbal, explanatory, questioning) and mechanisms of communication (face-to-face, telephone, e-mail, written), as appropriate.
- d. 4 Demonstrate skills in obtaining informed consent, including effective communication to patients about procedures, alternative approaches, and possible complications of surgical patient care.
- d. 5 Demonstrate skills in educating colleagues and other healthcare professionals through scientific meetings.
- d. 6 Manage time effectively.
- d. 7 Understand of the principles one must follow when educating other practicing surgeons through publications or seminars on new testing and therapeutic strategies, research discoveries, and other cutting-edge professional knowledge.
- d. 8 Grasp the essential self-evaluation and lifelong learning skills.
- d. 9 Work effectively within team and lead a team effectively.
- d. 10 Evaluate the performance of self, peers, and subordinates.
- d. 11 Use technology and master computer skills

(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

(4) Program structure and contents:



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, 2016.

Program structure:

MD Program Credit points (CP) structure:

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).

*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 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. A course in Surgical Anatomy planned and held in the Anatomy Department. It includes 6 CP.
 - d. A course in Applied Physiology planned and held in the physiology Department. It includes 6 CP.
 - e. A course in Surgical Pathology planned and held in the pathology department. It includes 6 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 General Surgery, planned and held in the Surgery Department. This part lasts for 2 years ending by written, oral and practical exams.

5) Program Courses



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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		
GSSO 51	Surgical Anatomy	6	1	3 hours	90	30	
GSSO 52	Applied Physiology	6	1	3 hours	90	30	
GSSO 53	Surgical Pathology	6	1	2 hours	90	30	
E	Two Elective courses*	2+2	1+1	1 +1 hour	40+40		
Total		30 credit points			600 marks**		

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.



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 54	Advanced Course in General Surgery	30	3	3 hours 3 hours 1.5 hours	225+ 225+ 90+	180	540	540
	Practical and clinical training in General surgery	60						
	***Scientific activities	10 (not included in the total marks)						
Total		90 credit points			1800**marks			

(6) Program Admission Requirements

- The program accepts candidates with Masters in General Surgery 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

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

8) Weighting of Assessments

Type of exam

First part (30 credit points= 600 mark)

- Written exam 510
- Oral exam 90
- **Total** 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	
• Total		1800

(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 MD approved by the Supreme Council of Universities. The program is considered complete with the accomplishment of 2 summative assessment (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% of total practical and oral exam for each subject
Passing level 60% of total written exam for each subject
- **Thesis/Assay**
Passing discussion is required for MD 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: / /