



PROGRAMME SPECIFICATION

Postgraduate Master Degree of General Surgery

Faculty of Medicine– Mansoura University

(A) Administrative information

(1) Programme Title & Code	Postgraduate Master Degree of General Surgery SUR 500
(2) Final award/degree	Master degree
(3) Department (s)	General Surgery Department
(4) Coordinator	Prof. Dr. Mosaad Morshed
(5) External evaluator (s)	Prof. Dr. Mahmoud Elkheshin Alexandria Faculty of Medicine
(6) Date of approval by the Department's council	27/5/2013
(7) Date of last approval of programme specification by Faculty council	8/6/2016

(B) Professional information

(1) Programme Aims.

The broad aims of the Programme are as follows: (either to be written in items or as a paragraph)

1. To provide our candidates with the required knowledge about basic medical subjects as anatomy, pathology, pharmacology, histology, biochemistry and their clinical applications in the field of general surgery.
2. To teach the candidate the epidemiology and pathophysiology of different surgical diseases.
3. To teach the candidates the essential and updated modalities in diagnosis and management of general surgical conditions,
4. To provide the candidates with updated information about fine surgical specialties as microvascular surgery bariatric surgery, trauma surgery, head and neck reconstruction.
5. To make the candidate comprehend the basics of stem cell therapy and its surgical relevance.
6. To provide the candidate with the essentials about biostatistics and how to use them in research.

(2) Intended Learning Outcomes (ILOs):

Intended learning outcomes (ILOs); Are four main categories: knowledge & understanding to be gained, intellectual qualities, professional/practical and transferable skills.

On successful completion of the programme, the candidate will be able to:

A- Knowledge and Understanding

A 1 To define the physiologic background of surgical conditions and how derangement occurs in various diseases.

A 2 To define the pathological features and recent trends in pathogenesis of different surgical conditions.

A 3 To underline the basic microbiological aspects of surgical infections.

A 4 To specify the normal histological and anatomical features of body organs and relate them with various surgical diseases.

A 5 To define the different aspects of biochemistry in relation to the laboratory investigations required in various surgical diseases.

A 6. To define the basic of drug metabolism, actions, adverse effects in relation to the daily surgical practice.

A7. To define the basic epidemiologic, pathologic, and clinical features of common surgical conditions.

A8. To define the list of differential diagnoses and recent guidelines in the management of various surgical conditions.

A9. To define updates in the field of bariatric, microvascular, trauma, stem cell, head and neck, cardiothoracic and neurosurgery.

A10. To underline the principles of statistics used in medical practice and basics of medical research.

A11. To work effectively in various health care delivery settings and coordinate patient care within the health care system relevant to their clinical specialty.

B- Intellectual skills

B1 To integrate basic biomedical science with clinical practice.

B2 To interpret clinical symptoms and signs of surgical diseases to reach proper diagnosis.

B3 To Interpret the various laboratory and radiologic findings to reach the proper diagnosis.

B4 To recognize the appropriate management strategies for common surgical problems following evidence based medicine in problem solving.

B5. To recognize predisposing factors for various surgical conditions and their possible complications.

B6 To Design guidelines for a control program for a particular surgical disease and surgical infections.

B7 To perform medical research about specified surgical problems.

B8 To design an initial course of management for stabilization of patients with critical conditions.

B9 To recognize the recent updates in bariatric, microvascular, cardiothoracic, neurosurgery, stem cell therapy and trauma management.

B10.To identify strengths, deficiencies, and limits in one's knowledge and expertise and set learning and improvement goals with predetermined appropriate learning activities.

B11. Realize the Decision making strategy based on recent guidelines.

C- Professional/practical skills

C1 Take focused history according to the patients' complaint and perform proper general and local examination to reach a proper diagnosis.

C2 explore the updates in the diagnostic tools for each disease and integrate data of history, examination and investigations to enlist the possible diagnoses for the patient.

C3. Patient's education and the ability to use IT and electronic databases for data registration.

C4 Construct a management plan for common surgical problems and protocols for urgent cases.

C5. Express compassion, integrity, and respect for others and show responsiveness to patient needs that supersedes self-interest whilst keeping full respect for patient privacy and autonomy.

C6. Write accurate and complete medical reports about patients' conditions.

C7. Self -evaluation on the patient care and continuous improvement of medical skills.

D- Communication & Transferable skills

D1 To Review the scientific literature on a research topic.

D2 To Work in a multidisciplinary care team to solve community surgical problems.

D3 To Able to react positively with the national campaigns which are conducted to manage difficult surgical diseases in our locality.

D4 To communicate with health authorities through different meetings and conferences national and international.

D5 Use evidence based medicine in the management decisions.

D6 Self-learning and acquiring new skills by watching and reading.

D7 Evaluate their work and that of the others using feedback mechanism.

D8 Time management, using electronic database for registration and organizing morbidity and mortality meetings.

(3) Academic standards.

Table of comparison between Academic standards for the programme , NARs and program ILOS are attached in [Appendix I](#).

(4) Curriculum structure and contents.

4.a- Duration of the programme 4 semesters

4.b- programme structure.

Candidates should fulfill a total of 45 credit hours

●4.b.1. Number of credit hours:

First part: 5 hours .Second part: 18 hours Thesis:10 hours

●4.b.2: Teaching hours/week:

Lectures 75 hours. Clinical/lab: 300 hours

(5) Programme courses:

First part

a- Compulsory courses:

Course Title	Course Code	NO. of hours per week				Total teaching hours	Programme ILOs covered (REFERRING TO MATRIX)	
		Theoretical		Laboratory /practical	Field			Total
		Lectures	seminars					
Surgical Anatomy	SUR 501					5 hours		
Histology	SUR 502							
Physiology	SUR 503							
Biochemistry	SUR 504							
Clinical Pharmacology	SUR 505							
General Surgical Pathology	SUR 506							
Microbiology	SUR 507							

Second part

a- Compulsory courses :

Course Title	Course Code	NO. of hours per week (credit hours)				Total teaching hours	Programme ILOs covered (REFERRING TO MATRIX)	
		Theoretical		Laboratory /practical	Field			Total
		Lectures	seminars					
General Surgery	SUR 520					17 hours	75 h lectures 300 h clinical	
Elective courses								
Micro-Vascular surgery	SUR 520 MVS					1 hour		
Basic trauma management	SUR 520 BTM					1 hour		
ATLS	SUR 520 ATS					1 hour		
Bariatric surgery	SUR 520 BAS					1 hour		
Head and neck	SUR 520 HNR					1 hour		
Stem cell therapy	SUR 520 STT					1 hour		
Statistics research	SUR 520 SRM					1 hour		
Cardio-thoracic surgery	SUR 520 CTS					1 hour		
Neuro-surgery	SUR 520 NRS					1 hour		
Log book & other activities						2 hours		
Thesis						10 hours		

Programme–Courses ILOs Matrix

Programme ILOs are enlisted in the first row of the table (by their code number: a1, a2.....etc), then the course titles or codes are enlisted in first column, and an "x" mark is inserted where the respective course contributes to the achievement of the programme ILOs in question.

P.S. All courses` specifications are attached in [Appendix III](#).

Course Title/Code	a1	a2	a3	a4	a5	a6	a7	a8	a9	a10	a11	b1	b2b	b3	b4	b5	b6	B7	B8	B9	B10	B11	
Anatomy Sur 501				√								√											
Histology Sur 502				√								√											
Physiology Sur 503	√											√											
Biochemistry Sur 504					√							√											
Clinical Pharmacology Sur 505						√						√											
Surgical pathology sur 506		√										√				√							
Microbiology Sur 507												√					√						
General surgery Sur 520							√	√			√		√	√	√	√	√	√	√		√	√	
Micro- Vascular surgery Sur 520 MVS								√												√			

Basic trauma management SUR 520 BTM								√												√		
ATLS sur 520 ATS								√												√		
Bariatric surgery sur 520 BAS								√												√		
Head and neck sur 520 HNR								√												√		
Stem cell therapy sur 520 STT								√												√		
Statistics research sur 520 SRM									√													
Cardio-thoracic surgery sur 520 CTS								√												√		
Neuro-surgery sur 520 NRS								√												√		

(6) Programme admission requirements.

● **General requirements.**

POSTGRADUATE BY LAWS

● **Specific requirements (if applicable).**

(7) Regulations for progression and programme completion.

First part

Assessment Rules

1- Attendance Criteria.

Minimum acceptance attendance in each course is 75%

2- Log book should be fulfilled and signed by Head of the department

3- Assessment tool

First Part

Course	Theoretical	MCQ	Oral	Total
Anatomy	72	18	60	150
Histology	72	18	60	150
Physiology	48	12	40	100
Biochemistry	48	12	40	100
Clinical pharmacology	48	12	40	100
Pathology	72	18	60	150
Microbiology	72	18	60	150
		Total Marks		900

Second part

Course	Theoretical	MCQ	Oral	Clinical	Practical	Total
General Surgery	240 + 240	60 + 60	200	200	200	1200
Elective course	80	20	---	----	----	100
Total						1300

Assessment Rules

1- Attendance Criteria.

Minimum acceptance attendance in each course is 75%

2- Log book should be fulfilled and signed by Head of the department

3- Assessment tool

Classification of Final Result for the MSc/MD

To qualify for the award of the MSc/MD with distinction, candidates must achieve an overall average mark of a 75% or more, with a mark of at least 75% being achieved in each course. To qualify for the award of the MSc/MD, candidates must pass at least 60% of the final exam.

(8) Evaluation of Programme's intended learning outcomes (ILOs).

Evaluator	Tools*	Sample size
Internal evaluator (s)	1. Prof. Dr.: Adel Denewar 2. Prof. Dr. Nabil GadElhak 4. Prof.Dr. Mokhtar Farid	Mansoura Faculty of Medicine
External Evaluator (s)	Prof. Dr. Mahmoud Elkheshin	Alexandria Faculty of medicine

- TOOLS= QUESTIONNAIRE, INTERVIEW, WORKSHOP, COMMUNICATION, E_MAIL

We certify that all information required to deliver this programme is contained in the above specification and will be implemented. All course specification for this programme are in place.

Programme coordinator: Name: Prof. Dr. Mosaad Morshed Prof. of General Surgery, Mansoura Faculty of medicine. Mansoura	Signature & date:
Head of Department Prof. Dr. Nazem Shams Prof. & Head of general Surgery Department	
Dean:	Signature & date:

Name: Prof Dr. Elsaed Abdel-Hady	
Executive director of the quality assurance unit. Name: Prof Dr. Seham Gad El-Hak	Signature & date: