



COURSE SPECIFICATION

Faculty of Medicine- Mansoura University

(A) Administrative information

(1) Programme offering the course.	General Surgery
(2) Department offering the programme.	General Surgery Department
(3) Department responsible for teaching the course.	General Surgery Department
(4) Part of the programme.	2 nd part - MD
(5) External evaluator(s)	Prof. Dr. Hamed Rashad Benha 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	9/8/2016
(8) Course title.	General Surgery course (MD)
(9) Course code.	SUR 620
(10) Total teaching hours.	345

(B) Professional information

(1) Course Aims.

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

To make the candidate

1. Aware of the basic anatomic and pathologic aspects of different surgical conditions.
2. Oriented with the basic principles of general Surgery and its specialties.
3. Comprehended with the epidemiology, racial and gender distribution of each surgical disease as an essential prerequisite for the development of effective control programs.
4. Familiar with the pathogenic potential, pathogenesis, clinical picture and complications of surgical problems.
5. Informed about the atypical presentation of different surgical diseases.
6. Taught about options of management both for Urgent and Cold cases.
7. Comprehended to the general surgical outlines of control on complicated surgical problems and their impact on better health, welfare and productivity of human being.
8. Highly skilled in performing systematic examination to reach proper diagnosis
9. Professionally practicing skills in general surgery and its specialties.
10. Capable to manage the majority of elective and urgent surgical conditions according to the evidence based guidelines.

(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 course, the candidate will be able to.

A- Knowledge and Understanding

A 1 to recognize the epidemiology of various surgical problems

A 2 to explain the pathogenesis if benign and malignant diseases.

A 3 to realize how to deal with urgent cases safely & how to avoid its complications.

A 4 to specify different options for management of most common surgical diseases.

A 5 to recognize new lines of treatment and their indications.

A6. To recognize the basics of surgical infections and their control strategies.

A7. To define basics of ethics, medico legal aspects of health problems, Malpractice and common medical errors.

A8. To recognize the operative steps and complications of various surgical procedures.

A9. To recognize the concepts of perioperative management and patient optimization policies.

B- Intellectual skills

B1. To integrate the skills of history taking and clinical examination in finding a proper diagnosis

B2. To know which investigations are required in a cost effective manner.

B3. To interpret the data of laboratory and radiologic investigations to reach the proper diagnosis.

B4. To evaluate the different available drugs and choose the best treatment for specific case.

B5. To Design guidelines for a control program for a particular surgical disease.

B6. To Apply skills of minimally invasive and open surgery in the management of different conditions.

C- Professional/practical skills

C 1. To Identify surgical problems, different options to deal with.

C2. To Know certain presentations of surgical diseases in some specialties as:

Orthopedics, Neurosurgery, Plastic surgery & how to manage it

C3. To Apply the principles of diagnosis, treatment and control of surgical diseases in different specialties.

C4. To Apply the proper scientific measures of infection control among immunocompromized patients in different surgical departments and in the hospital in general.

D- Communication & Transferable skills

D1. To Review the scientific literature on a research topic.

D2To Work in a multidisciplinary care team to solve community surgical problems.

D3To Able to react positively with the national campaigns which are conducted to manage difficult surgical diseases in our locality.

D4Communicate ideas and arguments effectively.

D5 Analyze and use numerical data including the use of simple statistical tests.

D6 Present information in written and oral forms in a clear fashion.

(3) Course content.

Subjects	Lecture	Seminars	Laboratory	Field	Total Teaching Hours
Module I. General Surgery: Wound healing Surgical nutrition	6	70			
Homeostasis : Body changes in trauma & surgery. Disorders of surgical bleeding. Surgical infection &Antibiotics. Shock	10				
Abdominal wall Inguino scrotal swellings	6				
Surgery of nerves	4				
Organ Transplantation Face, Lips and palate	8				
Liver cysts and infection Hepatic cell carcinoma Surgery of Biliary System	8				

Surgery of Pancreas	10				
Surgery of portal hypertension					
Jaw swelling , mouth & tongue	8				
Surgery of Salivary glands					
Postoperative complications	4				
Burn and principles of plastic surgery	10				
Surgery of the neck					
Surgery of the Breast	6				
Arterial Disorders	12				
Venous Disorders					
Lymphedema					
Surgery of lymphatic system					
Skin Ulcers	2				
Surgery of thyroid gland	8				
Parathyroid glands					
Small intestinal disorders	6				
Appendix					
Colorectal surgery	8				
Pelvi-abdominal Swelling	6				
Retroperitoneal Tumors					
Surgery of esophagus	10				
Stomach and Duodenum					
Immunosuppression	2				
Surgery and viral diseases	4				
Amputation	2				
<u>Endocrine Surgery</u>					
1. Surgery of Endocrine lesions of the pancreas					
2. Adrenal gland surgery					
3. Thyroid & parathyroid minimally invasive surgery	15				
<u>Module 2.</u>					
<u>Emergency Surgery</u>					
1) Multi-specialized approach in E.R.					

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- 2) Diagnosis by imaging
- 3) Liver Surgery
 - a) Biliary tract evaluation
 - b) Liver parenchymal suture
 - c) Atypical resection of liver
 - d) Liver Packing
- 4) Emergency thoracotomy
 - a. Thoracotomy and suture of intercostals vessels
 - b. Pulmonary parenchymal repair/resection
 - c. Treatment of pericardial tamponade
 - d. Heart edge suture
- 5) Indications for Transplantation in liver trauma
- 6) Abdominal Surgery
 - a. Abdominal lesion recogniti
 - b. Abdominal aorta vascular clamping
- 7) Pancreas and Duodenal Surgery
- 8) Damage Control Surgery
- 9) Spleen Surgery
 - a. Spleen vascular exploration and control
 - b. Splenic parenchymal suture
 - c. Spleen partial resection
 - d. Splenectomy
- 10) Renal exploration and vascular control
 - a) Kidney parenchymal suture
 - b) Partial kidney resection
 - c) Nephrectomy
- 11) Complex pelvic trauma
- 12) Face trauma
- 13) Polytrauma Resuscitation treatment
- 14) Risk Management in the operating room
- 15) Hollow organ surgery
- 16) Neck surgery
- 17) Compartmental Abdominal syndrome

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Surgical Oncology

1. Basics in Oncology
2. Perioperative management of malignant lesions
3. Surgical rules in management of malignancy
4. Esophageal carcinoma
5. Cancer of the stomach
6. Cancer of the Pancreas
7. Cancer of the colon & Rectum
8. Breast cancer
9. Cancer of the Prostate
10. Non-Prostate tumors Genito-urinary cancer
11. Soft tissue sarcomas
12. Lymphomas
13. Pediatric malignancies
14. AIDS-Related malignancies
15. Cancer in the Elderly
16. Oncological Emergencies
17. Pain management
18. Nutrition and malignancy
19. Rehabilitation of the cancer patient
20. Quality of life in Oncology

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Module 3:

Plastic Surgery

- A. Basic Techniques
 - a. Wound Care
 - b. Free skin grafts
 - c. Flaps
- B. Surgical applications
 - a) Hypertrophic scars & Keloids
 - b) Radiation injury
 - c) Pressure sore management
 - d) Hand Surgery
 - e) Limb trauma
 - f) Maxillofacial injuries.

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Breast surgery

- 1) Breast assessment
- 2) Benign conditions
- 3) Breast cancer.

Pediatric surgery

- 1) Intussusceptions
- 2) Child with vomiting
- 3) Constipation
- 4) Abdominal wall conditions
- 5) Child with groin conditions
- 6) Urological conditions
- 7) Head and neck swellings
- 8) Abdominal Trauma

Colorectal Surgery

- (1) Anorectal investigations
- (2) Colonoscopy and flexible sigmoidoscopy
- (3) Inherited bowel cancer
- (4) Colonic cancer
- (5) Rectal cancer
- (6) Adjuvant therapy for colorectal cancer
- (7) Anal cancer
- (8) Diverticular disease
- (9) Ulcerative colitis
- (10) Crohn's disease
- (11) Incontinence
- (12) Functional problems and their surgical management
- (13) Sexually transmitted diseases and the anorectum
- (14) Laparoscopic surgery and enhanced recovery programs
- (15) Intestinal failure

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Module 4.

Vascular Surgery

- 1) Arterial Disorders
- 2) Venous Disorders
- 3) Lymphatic Disorders
- 4) Coronary disease in peripheral vascular patients
- 5) The painful lower extremity

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<p>6) The swollen leg</p> <p>7) The ulcerated leg</p> <p>8) Femoro-popliteal-Distal bypass</p> <p>9) Balloon Angioplasty</p> <p>10)Carotid body tumor</p> <p>11)Carotid endarterectomy</p> <p>12)Ischemic abdominal pain</p> <p>13)Aortic syndrome</p> <p>14)Complications of arterial surgery</p> <p><u>Transplantation</u></p> <p>1) Access for dialysis</p> <p>2) Organ retrieval</p> <p>3) Pancreatic transplantation</p> <p>4) Liver transplantation</p>					
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(4) Teaching methods:

4.1.lectures

4.2. Seminars and clinical teaching

(5) Assessment methods:

5.1.written exam for assessment of (knowledge)

Assessment schedule.

Final exam:

Percentage of each Assessment to the total mark.

- Written exam: 2 papers (90 marks for each), Commentary exam. 60 marks
- MCQ exam: 60 marks.
- Clinical exam: 100 marks
- Practical exam. 100 marks
- Oral exam. 100 marks

Other assessment without marks: logbook

(6) References of the course.

6.1. Hand books: *Bailey & Love's*-SHORT PRACTICE OF SURGERY

6.2: Text books..

- 1) **ESSENTIAL SURGICAL PRACTICE** [A .Cuschieri]
- 2) **Schwartz Manual Surgery**
- 3) **CURRENT SURGICAL** Diagnosis & Treatment
- 4) **Sabiston Text Book of Surgery**
- 5) **CURRENT THERAPY of Trauma and Surgical Critical Care.**
- 6) **Surgery of THE ANUS, RECTUM & COLON**

6.3: Journals:

1. Recent Advanced In Surgery.
2. Surgical Clinics of North America.

6.1: Websites: www.rsmppress.co.uk.

6.2: Others: www.surgical.theclinics.com.

6.3: WWW.elsevier.com/permissions

(7) Facilities and resources mandatory for course completion.

- Lecture halls
- Operative theater
- Skill lab.

(8) Regulations for progression and programme completion.

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

To qualify for the award of the MSc 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.

(9) 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

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