

Course Specification

Surgery

1. General information

Course Title	Surgery
Code No.	GS752
Department	Surgery
Teaching Hours	610hrs.
Language	English
Academic Year	Fourth and Fifth Year
Course Coordinator	Dr. Abubaker Gaddaffi
Date and Signature	September 2020

1.1 . Number of hours per week

4 th Year:	Lectures:5hrs. (4 months)	Clinical: 10hrs.(2 months)	Tutorial: 1 hr.
5 th Year:	Lectures:12hrs.(3 months)	Clinical: 10 hrs. (3 months)	Tutorial: 1hr.

2. Objectives of Course:

- Providing student with essential background on general and specialized areas in surgery.
- To be able to examine, investigate, and properly manage different surgical cases.
- Training student to manage and handle an urgent situation in a professional manners.
- Teaching main principles of pre and postoperative care.
- To provide the student with the principles of medical ethics
- Active participation in community needs assessment and problem identification
- Maintenance of learning abilities necessary for continuous medical education

3. Intending Learning Outcomes (ILOs):

a. Knowledge and Understanding:

On successful completion of the course, student will be able to:

a.1	Describe the surgical anatomy of important regions, organs and structures of the body
a.2	Describe the etiology, pathogenesis and pathology of common and serious surgical diseases.
a.3	Identify the clinical manifestations, complications and diagnosis of common and important disease such as urgent cases and malignant cases.
a.4	Define the methods of screening and early detection of malignant tumours.
a.5	State the etiology, pathogenesis and the clinical manifestations of the common urologic emergencies and disorders and how to manage them appropriately.
a.6	Identify chest trauma and the therapeutic planning and managements.
a.7	Know surgical management of thoracic infections (e.g., pulmonary T.B) and thoracic tumors.
a.8	Define the common orthopedic diseases and fractures and state managements and complications
a.9	Have a broad understanding of principles of cardiac surgery & surgical management of cardiac diseases
a.10	Attain good knowledge on common diseases of brain and nervous system and their complications and managements.
a.11	Describe the basic steps needed for the conduction of safe anesthesia
a.12	Outline the physiologic effects of pain and the principles of its management.
a.13	To have an idea about management of hypoxic and unconscious patient and how to perform a proper cardiopulmonary resuscitation.

b. Intellectual skills:

On successful completion of the course, student will be able to:

b.1	Interpret patient symptoms and physical findings properly to conclude a correct diagnosis and to suggest suitable managements.
b.2	Interpret the results of commonly used investigations accurately.
b.3	Analyze cases on anatomical, physiological, pathologic background, develop a list of differential diagnosis and suggested investigations
b.4	Recognize patients with serous surgical conditions and plan for an urgent significant intervention.
b.5	Scientifically criticize a literature and present a work in a professional way.

c. Practical and Professional Skills:

On successful completion of the course, student will be able to:

c.1	Take proper clinical history and perform good physical examination.
c.2	Perform a proper clinical assessment of the common clinical problems.
c.3	Outline management of patients with chronic surgical conditions requiring long-term follow-up, rehabilitation and pain relief.
c.4.	Apply the principles of sterile techniques and infection control guidelines
c.5	Perform basic technical procedure such a basic life support ,advanced life support ,air way management (mask ventilation & endotracheal intubation)
c.6	Manage properly severely injured and critically ill patients.
c.7	Perform different surgical producers such as: safe IV, IM and SC injections, insertion of IV cannula, insertion of urinary catheter, PR/PV examination, insertion of a nasogastric and Simple skin suturing
c.8	Use surgical instrument wisely, properly and keep them in clean and intact state.
c.9	Write a clear and useful prescription for common and important diseases.
c.10	Keep a clear and well documented patient records.
c.11	Be aware of the medicolegal aspects of the disease.

d. General and Transferable skills:

On successful completion of the course, student will be able to:

d.1	Reassure patients and relatives and build a confidential patient to doctor relationship.
d.2	React kindly and respectfully to the patients during history taking and clinical examination.
d.3	Communicate, consult and respect the role of other health-care providers
d.4	Respect patient rights mainly in regard to confidentiality and informed consent.

4. Course Contents:

Academic Subject	Total Hours (610)	Lectures	Clinical	Tutorials
General surgery	120	60	50	10
Plastic & burns	18	10	6	2
Chest & Cardiovascular surgery	42	20	18	4
Head and neck surgery	26	12	12	2
Endocrine surgery	22	10	10	2
Breast surgery	22	10	10	2
GIT and abdominal surgery	120	60	50	10
Pediatric surgery	20	10	8	2
Neurosurgery	24	10	10	4
Urology	42	20	18	4
Orthopedics	56	30	20	6
Ear, Nose & Throat	40	20	16	4
Anaesthesia	18	10	6	2
Diagnostic radiology & Images	20	10	8	2
Postoperative and miscellaneous	10	4	4	2
Rehabilitation & Physiotherapy	10	4	4	2

5. Teaching and Learning Methods :

- Formal Lectures
- Tutorials and case-based discussion
- Assignment
- Clinical sessions:
 - Surgical rounds (small- group teaching, practice of clinical skills, video demonstration of basic operative procedures).
 - Students are divided into groups attending ER,OR and outpatient clinic.

6. Evaluation Methods

Evaluation Method		Date	Marks 300	%	ILOs Assessed
1	Mid-year Exam	End of the course (4 th year)	45	15%	Knowledge, understanding and intellectual skills
2	Final Exam	December	255	85%	
	▪ Written		80		Knowledge, understanding and intellectual skills
	▪ Clinical		100		knowledge, understanding and intellectual skills Practical and professional skills General and transferable skills
	▪ Oral		75		Knowledge, understanding and intellectual skills Professional, general and transferable skills

7. Evaluation Schedule:

Evaluation	Date
Mid-term written exam	End of the course (4 th year)
Final written exam: - Paper one: MCQs - Paper two: clinical cases	December
Practical exam: - short and long clinical cases - surgical instruments and pathological jars Students are examined by external and internal doctors	December
Oral exam: conducted by external examiners	December

8. References:

Reference Title	Publisher	Edition	Author	Place
Course Handout			Department Staff	Library
Bailey & Love's Short Practice of Surgery	CRC Press	27 th 2018	Norman S. Williams P. Ronan, O'Connell Andrew McCaskie	
Browse's Introduction to the Symptoms & Signs of Surgical Disease	CRC Press	5 th 2014	James A. Gossage, et al.	

9. Required Facilities:

Required Facilities	Comments
Lecture halls	In hospital
Training center	Models, simulators
Library	Textbooks, journals, internet, video conference

Course Coordinator: Dr. Abubaker Gaddaffi

Signature:

Programme Coordinator: Dr. Hussain Amaigil

Signature:

Head of Department: Dr. Abubaker Gaddaffi

Signature:

Date: September 2020

Course ILOs Mapping Matrix – Surgery

Topic	Knowledge and Understanding a													Intellectual Skills b					Practical and Professional Skills c											General and Transferable Skills d			
	1	2	3	4	5	6	7	8	9	10	11	12	13	1	2	3	4	5	1	2	3	4	5	6	7	8	9	10	11	1	2	3	4
General surgery	x	x	x	x								x	x	x	x	x	x		x	x	x	x		x	x	x	x	x	x	x	x	x	x
Plastic & burns	x	x												x	x		x	x	x	x	x	x		x	x	x	x	x	x	x	x	x	x
Chest & Cardiovascular surgery	x	x				x	x		x				x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Head and neck surgery	x	x	x											x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Endocrine surgery	x	x	x											x	x	x	x	x	x	x	x	x		x	x	x	x	x	x	x	x	x	x
Breast surgery	x	x	x											x	x	x	x	x	x	x	x	x		x	x	x	x	x	x	x	x	x	x
GIT and abdominal surgery	x	x	x											x	x	x	x	x	x	x	x	x		x	x	x	x	x	x	x	x	x	x
Pediatric surgery	x	x	x											x	x	x	x	x	x	x	x	x		x	x	x	x	x	x	x	x	x	x
Neurosurgery	x	x	x								x								x	x	x	x		x	x	x	x	x	x	x	x	x	x
Urology	x	x	x		x									x	x	x	x	x	x	x	x	x		x	x	x	x	x	x	x	x	x	x
Orthopedics	x	x	x					x											x	x	x	x		x	x	x	x	x	x	x	x	x	x
Ear, Nose & Throat	x	x	x											x	x	x	x	x	x	x	x	x		x	x	x	x	x	x	x	x	x	x
Anaesthesia	x	x	x								x		x						x	x	x	x		x	x	x	x	x	x	x	x	x	x
Diagnostic radiology & Images	x	x	x										x	x	x	x	x	x	x	x	x	x		x	x	x	x	x	x	x	x	x	x
Postoperative and miscellaneous	x	x	x										x						x	x	x	x		x	x	x	x	x	x	x	x	x	x
Rehabilitation & Physiotherapy	x	x	x										x	x	x	x	x	x	x	x	x	x		x	x	x	x	x	x	x	x	x	x