

## Planning and Quality Assurance Affairs

Form (A)

### Course Specifications

#### General Information

Course name	General surgery I (Junior)
Course number	MDCN4102
Faculty	
Department	
Course type	Major Needs
Course level	4
Credit hours (theoretical)	10
Credit hours (practical)	0
Course Prerequisites	

#### Course Objectives

1	- Knowledge acquisition: The course aims to provide students with a comprehensive understanding of the principles, theories, and concepts related to General Surgery.
2	- Diagnostic skills: Students are taught how to evaluate patients with surgical conditions, interpret diagnostic tests and imaging studies, and arrive at a proper diagnosis. They learn to identify surgical emergencies and develop the ability to prioritize and manage patients accordingly.
3	- Surgical skills development: Students acquire hands-on experience and technical skills necessary for performing common surgical procedures. This includes learning aseptic techniques, suturing, knot tying, and using surgical instruments. They may also have opportunities to observe or assist in surgeries performed by experienced surgeons.
4	- Patient management: The course aims to train students in managing pre-operative, intra-operative, and post-operative care of surgical patients.

#### Intended Learning Outcomes

Knowledge and Understanding	* Demonstrate knowledge and understanding of the anatomical structures, physiological functions, and pathophysiological processes relevant to General Surgery.
Intellectual Skills	* Apply principles of evidence-based medicine to evaluate and diagnose surgical conditions, and formulate appropriate management plans.
Professional Skills	* Develop proficiency in performing basic surgical procedures, including wound closure, suturing techniques, and minor surgical interventions.
General Skill	* Acquire skills in pre-operative assessment, including patient history-taking, physical examination, and ordering and interpreting relevant investigations.

## Course Contents

- 1 - Introduction to General Surgery: includes overview of the field of General Surgery, history-taking, physical examination, and ordering and interpreting relevant investigations.
- 2 - Surgical Lectures: Didactic lectures covering essential topics in General Surgery, including specific surgical conditions, principles of surgical management, and surgical techniques.
- 3 - Surgical Skills Workshops: which includes hands-on training to develop and improve surgical skills, and simulation-based training using surgical models or virtual reality platforms to practice basic and advanced surgical procedures.
- 4 - Clinical rotations in surgical departments or surgical specialty services, providing opportunities for direct patient care, observation of surgeries, and participation in patient management.

## Teaching and Learning Methods

- 1 - Lectures: Didactic lectures delivered by experienced surgeons or faculty members provide an overview of the theoretical concepts, principles, and surgical techniques relevant to General Surgery.
- 2 - Clinical Rotations: Clinical rotations allow students to gain firsthand experience by observing surgeries, participating in patient care, and assisting in surgical procedures under supervision.
- 3 - Simulation-based Learning: Simulation-based learning uses realistic virtual or physical environments to replicate surgical scenarios
- 4 - Case-based discussions to analyze and discuss surgical cases, including pre-operative evaluation, surgical decision-making, and post-operative management
- 5 - Moring Rounds: participation in surgical grand rounds, where interesting or challenging surgical cases are presented and discussed by faculty and students

## Students Assessment

<u>Assessment Method</u>	<u>TIME</u>	<u>MARKS</u>
Theoretical multiple-choice question (MCQ) exams	2 Hours	50
OSCE (Objective Structured Clinical Examination) static stations	45 minutes	20
OSCE (Objective Structured Clinical Examination) dynamic stations	45 minutes	20
Clinical rotations attendance		10

## Books and References

Essential books	Bailey & Loves Short Practice of Surgery, 27th Edition Browns Introduction to the Symptoms & Signs of Surgical Disease
Recommended books	Schwartzs Principles of Surgery Surgical Recall

## Knowledge and Skills Matrix

Main Course Contents	Study Week	Knowledge and Understanding	Intellectual Skills	Professional Skills	General Skill
Introduction to General Surgery, Lectures, Surgical Skills Workshops, and Clinical rotations	8 Weeks	Demonstrate knowledge and understanding of the anatomical structures, physiological functions, and pathophysiological processes relevant to General Surgery	Apply principles of evidence-based medicine to evaluate and diagnose surgical conditions, and formulate appropriate management plans	Develop proficiency in performing basic surgical procedures, including wound closure, suturing techniques, and minor surgical interventions.	Acquire skills in pre-operative assessment, including patient history-taking, physical examination, and ordering and interpreting relevant investigations