

Program Anesthesia Technician

Course Specification of Medical Surgery

Course No. (01.02.846)

2024

II. Course Description
The Surgical Course provides a comprehensive education in surgical principles, techniques, and patient management across a variety of surgical disciplines. Designed for medical students, surgical residents, and practicing surgeons, the course emphasizes both theoretical knowledge and practical skills essential for effective surgical practice

IV. Course Content:					
A – Theoretical Aspect:					
Order	Units/Topics List	Sub Topics List	Number of Weeks	Contact hours	Learning Outcomes
	1. Introduction to Surgical Medicine	- Overview of surgery as a specialty - History and evolution of surgical practices - The role of the surgeon and the surgical team	1	2	a2.a1
1	Basic Surgical Principles	Surgical instruments and their uses. Aseptic techniques and infection control. Anesthesia and pain management.	1	2	a1, b1, c1,
2	. Surgical Techniques	- Fundamental surgical skills: - Suturing techniques - Incision and closure methods - Tissue handling and ligation - Minimally invasive surgical techniques (e.g., laparoscopy, robotic surgery)	2	4	a2, b2, c1, c2, d1, d2
3	preoperative and	Anesthesia basics:	2	4	a1, c1, c2,

	Postoperative Care	Types of anesthesia (local, general, regional) Pre-anesthetic evaluation ▪ Postoperative management: Monitoring and pain management Identification and management of complications			d1, d2
4	5. Common Surgical Conditions and Procedures	▪ General surgery: Appendicitis, cholecystitis, hernias ▪ Cardiothoracic surgery: Coronary artery bypass grafting (CABG), valve repairs ▪ Orthopedic surgery: Fracture management, joint replacement ▪ Neurosurgery: Craniotomy for tumors, spinal surgery ▪ Urology: Nephrectomy, prostatectomy ▪ Obstetrics and gynecology: Cesarean section, hysterectomy	3	6	a3, c1, c2, d1, d2
5	6. Surgical Complications and Emergencies	Common • postoperative complications	2	4	a1, a2, c1, c2, d1, d2

		(infections, hemorrhage, thromboembolism) Emergency situations (trauma, acute abdomen) Strategies for prevention and management of complications			
6	Midterm exam	Midterm exam	1	2	a1, a2, a3, b2, b3, c1, c2, c1, d2
7	Ethics and Professionalism in Surgery	Informed consent and patient autonomy Ethical dilemmas in surgical practice Professionalism and communication with patients and families	2	4	a2, a3, b3, c1, c2, d1, d2
8	. Surgical Research and Evidence-Based Practice	Introduction to surgical literature and research methodologies Incorporating evidence-based medicine into clinical practice Quality improvement and patient safety initiatives in surgery	1	2	a3, b3, d1, d2
12	Final exam	Final exam	1	2	a1, a2, b1, b2, b3, c1,

					c2, d1, d2
	Number of Weeks /and Units Per Semester	16	32		

V. Teaching strategies of the course

1. Lecture – Discussion
2. Demonstration
3. Student assignment
4. Role Plays
5. Brainstorming
6. Case study
7. Field work

V. Assessments strategies of the course

Assess role plays with the check-list on communication
Assess communication techniques by rating scale
Assess performance with rating scale