



**Jordan University of Science and Technology**  
**Faculty of Applied Medical Sciences**  
**Anesthesia Technology Department**

ANET324 Preparation For General Surgery Lab - JNQF Level: 7

Second Semester 2023-2024

**Course Catalog**

1 Credit Hours. This course focusses on the specialized considerations and preparations necessary for anesthesia administration in the context of general surgery. Students will explore the principles, techniques, and challenges associated with anesthetic management specific to general surgical procedures. The course encompasses a comprehensive overview of key topics essential for safe and effective anesthesia delivery in the operating room setting. Through a combination of didactic lectures, interactive workshops, case discussions, and simulation exercises, students will develop proficiency in critical aspects of anesthetic preparation for general surgery.

**Teaching Method:** On Campus

**Text Book**

<b>Title</b>	Morgan and Mikhail's Clinical Anesthesiology
<b>Author(s)</b>	Butterworth, John, et al.
<b>Edition</b>	6th Edition
<b>Short Name</b>	1
<b>Other Information</b>	

**Instructor**

<b>Name</b>	<b>Dr. Maram Alakhras</b>
<b>Office Location</b>	-
<b>Office Hours</b>	Sun : 12:00 - 13:30 Mon : 11:00 - 12:30 Tue : 13:00 - 14:30 Wed : 11:00 - 12:30
<b>Email</b>	mmalakhras@just.edu.jo

**Class Schedule & Room**

Section 2:  
Lecture Time: Sun : 10:30 - 12:30  
Room: LAB

Section 3:  
Lecture Time: Sun : 12:30 - 14:30  
Room: LAB

Section 4:  
Lecture Time: Tue : 08:30 - 10:30  
Room: LAB

Section 5:  
Lecture Time: Tue : 10:30 - 12:30  
Room: LAB

Section 6:  
Lecture Time: Tue : 12:30 - 14:30  
Room: LAB

Section 7:  
Lecture Time: Thu : 08:30 - 10:30  
Room: LAB

Section 8:  
Lecture Time: Thu : 10:30 - 12:30  
Room: LAB

Section 9:  
Lecture Time: Thu : 12:30 - 14:30  
Room: LAB

### Prerequisites

Line Number	Course Name	Prerequisite Type
1173330	ANET333 Anesthesia Equipment And Supplies li Lab	Prerequisite / Study

### Tentative List of Topics Covered

Weeks	Topic	References
Weeks 1, 2, 3	Preoperative Assessment: Students will practice comprehensive preoperative patient assessment techniques, including history taking, physical examination, and evaluation of relevant medical records and diagnostic tests. Emphasis will be placed on identifying and stratifying patients' risk factors and optimizing their medical status for surgery.	From <b>1</b>
Weeks 4, 5, 6	Airway Management: Hands-on training in airway management techniques, including bag-mask ventilation, endotracheal intubation, and insertion of supraglottic airway devices. Participants will learn to assess airway anatomy, select appropriate airway management devices, and troubleshoot common airway-related challenges.	From <b>1</b>

Weeks 7, 8, 9	Intravenous Access and Drug Administration: Training in intravenous cannulation techniques, fluid administration, and drug preparation and administration. Students will practice calculating and administering anesthetic medications, including induction agents, neuromuscular blockers, and adjunctive drugs, while adhering to appropriate safety protocols.	From 1
Weeks 9, 10	Monitoring and Equipment Familiarization: Hands-on experience with anesthesia monitoring equipment, including pulse oximeters, capnography monitors, blood pressure cuffs, and electrocardiography machines. Participants will learn to interpret monitoring data, recognize abnormal findings, and troubleshoot equipment malfunctions.	
Week 11	Crisis Management Scenarios: Simulation-based training in managing common perioperative emergencies encountered in general surgery, such as hypotension, hypoxemia, airway obstruction, and malignant hyperthermia. Participants will practice rapid assessment, decision-making, and implementation of appropriate interventions to stabilize simulated patients.	From 1
Weeks 12, 13	Interprofessional Communication: Opportunities for interprofessional collaboration and communication with surgical team members, nursing staff, and other healthcare providers involved in perioperative care. Students will practice effective communication strategies for conveying critical information and coordinating patient care.	From 1
Week 14	Final Exams	

Mapping of Course Outcomes to Program Outcomes and NQF Outcomes	Course Outcome Weight (Out of 100%)	Assessment method
Develop proficiency in basic surgical skills essential for general surgery practice, including knot tying, suturing, tissue handling, and instrument manipulation, through hands-on practice in a simulated surgical environment. [1PLO 1] [1L7S2]	25%	Mid-term Exam
Gain a comprehensive understanding of relevant surgical anatomy pertaining to common general surgery procedures, such as abdominal, thoracic, and vascular anatomy, through cadaveric dissection and anatomical models. [1PLO 1] [1L7K1]	25%	Mid-term Exam
Familiarize oneself with a wide range of surgical instruments, equipment, and technology utilized in general surgery procedures, including laparoscopic instruments, energy devices, and surgical staplers, through interactive demonstrations and guided practice sessions. [1PLO 5] [1L7C4]	25%	Final Exam
Demonstrate adherence to strict aseptic techniques and surgical safety protocols to minimize the risk of surgical site infections and ensure patient safety during surgical procedures, including proper gowning, gloving, draping, and handling of surgical instruments and supplies. [1PLO 2] [1L7S3]	25%	Final Exam

Relationship to Program Student Outcomes (Out of 100%)					
PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6
50	25			25	

Relationship to NQF Outcomes (Out of 100%)			
L7K1	L7S2	L7S3	L7C4
25	25	25	25

Evaluation	
Assessment Tool	Weight
Mid-term Exam	50%
Final Exam	50%

Policy	
Code of Conduct and Academic Integrity Guidelines	<p>Statement on Professionalism: Professional behavior is expected of students at all times. Attitude and professional behavior are a minimum criterion for passing this class. Examples of unprofessional behavior include but are not limited to: missing classes, tardiness, lack of attention for a speaker, talking to others during lecture, leaving a lecture prior to its completion without prior authorization of the instructor, working on other class material during class, and sleeping during class.</p> <p>Cheating: University regulations will be applied on cases of cheating and/or plagiarism</p> <p>Cell phone: The use of cellular phone is prohibited in class rooms and during exams. The cellular phone must be switched off in class rooms and during exams.</p> <p>Attendance: No points will be count for points attendance of this class, however attending the lectures will greatly enhance your grade. The student is responsible for any information discussed in lecture sessions. It is imperative to attend all classes!</p> <p>Absences: University regulations will be applied. Students are not allowed to be absent for more than 20% of lectures for any reason or excuse. If a student exceeds the absence limit, he or she will not be allowed to sit for future course exams. (Please review university regulation for more details)</p> <p>Make-up Exam: is entitled for students who miss the exam with accepted legal or medical excuse endorsed by the instructor within 24 hours after the scheduled exam (Please review university regulation for more details)</p> <p>Feedback: Concerns, complaints, questions, and/or feedback are appreciated and will be important for the instructor. You can contact your instructor using the e-mail or during office hours.</p>

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