



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

ANET322 Preparation For General Surgery - JNQF Level: 7

Second Semester 2023-2024

Course Catalog

3 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

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

Instructor

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

Class Schedule & Room

Section 3:

Lecture Time: Mon, Wed : 08:30 - 10:00

Room: SB19

Prerequisites

Line Number	Course Name	Prerequisite Type
1173410	ANET341 Medical Problems And Their Management	Prerequisite / Study
1173310	ANET331 Anesthesia Equipment And Supplies li	Prerequisite / Study

Tentative List of Topics Covered

Weeks	Topic	References
Weeks 1, 2	Anesthetic Pharmacology: In-depth understanding of anesthetic agents, their mechanisms of action, pharmacokinetics, and pharmacodynamics, with emphasis on agents commonly used in general surgery.	From 1
Weeks 3, 4	Patient Assessment: Comprehensive preoperative evaluation of patients, including medical history review, physical examination, assessment of comorbidities, and optimization of medical conditions.	From 1
Week 5	Anesthetic Techniques: Familiarization with various anesthetic techniques employed in general surgery, including general anesthesia, regional anesthesia, and monitored anesthesia care (MAC).	From 1
Weeks 6, 7	Intraoperative Monitoring: Utilization of appropriate monitoring modalities to ensure patient safety and optimal anesthesia depth during surgery, including hemodynamic monitoring, pulse oximetry, capnography, and neuromuscular monitoring.	From 1
Weeks 8, 9	Airway Management: Mastery of airway assessment, selection of airway management devices, and proficiency in airway manipulation techniques, including endotracheal intubation and supraglottic airway placement.	From 1
Weeks 10, 11, 12	Management of Perioperative Complications: Recognition, prevention, and management of common perioperative complications, such as hypotension, hypoxemia, airway obstruction, and malignant hyperthermia.	From 1
Weeks 13, 14, 15	Anesthetic Considerations for Specific Surgical Procedures: Tailoring anesthetic techniques and management strategies to the unique requirements of various general surgical procedures, including laparoscopic surgery, open abdominal surgery, and elective versus emergent cases.	From 1
Week 16	Final Exams	

Mapping of Course Outcomes to Program Outcomes and NQF Outcomes	Course Outcome Weight (Out of 100%)	Assessment method
Understand the fundamental principles of general surgery, including patient assessment, surgical anatomy, perioperative care, and surgical techniques across various surgical specialties. [1PLO 1] [1L7S1]	25%	Mid-term Exam

Demonstrate proficiency in basic surgical skills, including knot tying, suturing, tissue handling, and wound closure techniques, through hands-on practice and simulation exercises. [1PLO 2] [1L7S2]	25%	Mid-term Exam
Evaluate the indications, contraindications, risks, benefits, and alternatives of common general surgery procedures, such as appendectomy, cholecystectomy, hernia repair, and bowel resection. [1PLO 4] [1L7C4]	25%	Mid-term Exam, Final Exam
Develop effective communication and collaboration skills essential for interdisciplinary teamwork in the perioperative setting, including interaction with patients, families, surgical team members, and other healthcare professionals. [1PLO 6] [1L7C3]	25%	Final Exam

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

Relationship to NQF Outcomes (Out of 100%)			
L7S1	L7S2	L7C3	L7C4
25	25	25	25

Evaluation	
Assessment Tool	Weight
Mid-term Exam	60%
Final Exam	40%

Policy

<p>Code of Conduct and Academic Integrity Guidelines</p>	<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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