



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

ANET351 Clinical Training I - JNQF Level: 7

First Semester 2023-2024

Course Catalog

3 Credit Hours. This course emphasizes the enhancement of patient management skills, fostering independence in basic task performance, and introducing advanced techniques. Through practical training, students have the opportunity to visit the Operations Department, gaining insight into anesthesia, operating, and recovery rooms, as well as their respective components. They learn hands-on skills in handling anesthesia devices and tools, including cleaning and sterilization procedures. From the patient's arrival to the preparation of the operating room for surgery and their departure from the operations department, students are taught how to effectively manage patient care throughout the process. By the end of the course, students are expected to demonstrate proficiency in basic clinical competencies with minimal assistance and attempt advanced competencies with regular guidance from clinical instructors.

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. Eihab Khasawneh
Office Location	-
Office Hours	Sun : 10:30 - 12:00 Mon : 11:00 - 12:30 Tue : 10:30 - 12:00 Thu : 10:30 - 12:30
Email	eakhasawneh1@just.edu.jo

Class Schedule & Room

Section 1:
Lecture Time: Sun : 08:30 - 14:30
Room: HOSPITAL

Section 2:
Lecture Time: Tue : 08:30 - 14:30
Room: HOSPITAL

Section 3:
Lecture Time: Thu : 08:30 - 14:30
Room: HOSPITAL

Prerequisites

Line Number	Course Name	Prerequisite Type
1172320	ANET232 Anesthesia Equipment And Supplies I	Prerequisite / Study
1172160	ANET216 Investigation Procedure And Techniques Lab	Prerequisite / Study

Tentative List of Topics Covered

Weeks	Topic	References
Weeks 1, 2, 3	Operating Room Experience: Participants will rotate through operating room (OR) assignments, observing and assisting in a diverse range of surgical procedures across different specialties, including general surgery, orthopedics, obstetrics and gynecology, urology, and otolaryngology. Emphasis will be placed on learning anesthesia induction and emergence protocols, intraoperative monitoring techniques, and patient positioning.	From 1
Weeks 4, 5, 6	Preoperative Assessment: Participants will learn comprehensive preoperative assessment skills, including patient history taking, physical examination, and review of pertinent medical records and diagnostic tests. They will develop proficiency in identifying and stratifying patients' preoperative risk factors, optimizing medical conditions, and formulating individualized anesthesia care plans.	From 1
Weeks 7, 8, 9	Anesthesia Equipment and Monitoring: Hands-on training in the setup, calibration, and operation of anesthesia equipment and monitoring devices commonly used in clinical practice, including anesthesia machines, ventilators, pulse oximeters, capnography monitors, and non-invasive blood pressure monitors. Participants will practice proper equipment handling, troubleshooting, and adherence to safety protocols.	From 1
Weeks 10, 11	Airway Management: Practical instruction and simulation exercises focused on airway assessment, endotracheal intubation, mask ventilation, and insertion of supraglottic airway devices. Participants will learn various airway management techniques and devices, as well as strategies for managing difficult airways and preventing aspiration.	From 1
Weeks 12, 13	Pharmacology and Medication Administration: Education on anesthesia pharmacology, including the mechanisms of action, dosing regimens, and side effects of common anesthetic agents and adjunct medications. Participants will practice drug calculations, intravenous catheter insertion, medication administration, and monitoring for adverse reactions.	From 1
Week 14	Intraoperative Anesthesia Management: Supervised patient care responsibilities during the intraoperative phase, including anesthesia induction, maintenance, and emergence. Participants will learn to monitor vital signs, adjust anesthetic depth, manage intraoperative complications, and collaborate effectively with surgical team members.	From 1

Week 15	Postoperative Care and Recovery: Exposure to post-anesthesia care unit (PACU) and postoperative recovery protocols, including assessment of airway patency, pain management, hemodynamic stability, and emergence from anesthesia. Participants will learn to manage postoperative complications, provide postoperative instructions, and facilitate patient discharge.	From 1
Week 16	Final Exam	

Mapping of Course Outcomes to Program Outcomes and NQF Outcomes	Course Outcome Weight (Out of 100%)	Assessment method
Develop patient management skills through practical training and exposure to real-world clinical settings. [1PLO 3] [1L7S3]	25%	First exam
Foster independence in performing basic tasks related to anesthesia management and patient care. [1PLO 6] [1L7C4]	25%	Second exam, Case discussion
Equip students with the knowledge and skills to effectively manage patient care from admission to discharge in the operations department. [1PLO 2] [1L7K1]	25%	Final exam
Develop proficiency in performing basic clinical competencies independently, with minimal assistance from instructors. [1PLO 4] [1L7C2]	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%)			
L7K1	L7S3	L7C2	L7C4
25	25	25	25

Evaluation	
Assessment Tool	Weight
First exam	25%
Second exam	10%
Case discussion	15%
Final exam	50%

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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