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

ANET333 Anesthesia Equipment And Supplies Ii Lab - JNQF Level: 7

First Semester 2023-2024

Course Catalog
1 Credit Hours. This course provides the essential skills for handling the equipment and supplies covered in theoretical sessions. Both classroom lectures and practical laboratory sessions are offered to equip students with cognitive, psychomotor, and affective learning experiences related to advanced instrumentation in anesthesia technology. Training occurs in a simulated real-life environment using high-fidelity mannequins to replicate realistic clinical settings.
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 - 10:30
Room: LAB

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 : 10:30 - 12:30
Room: LAB

Section 8:
Lecture Time: Thu : 12:30 - 14:30
Room: LAB

Section 9:
Lecture Time: Thu : 08:30 - 10:30
Room: LAB

Prerequisites		
Line Number	**Course Name**	**Prerequisite Type**
1172340	ANET234 Anesthesia Equipment And Supplies I Lab	Prerequisite / Study

Tentative List of Topics Covered		
Weeks	**Topic**	**References**
Weeks 1, 2	Anesthesia Machine Operation: Hands-on training in the operation and setup of anesthesia machines, including familiarization with gas delivery systems, vaporizers, ventilators, and scavenging systems. Participants will practice proper machine assembly, calibration, and testing procedures.	From **1**

Weeks 3, 4	Monitoring Device Utilization: Interactive demonstrations and practice sessions with physiological monitoring devices commonly used in anesthesia practice, such as pulse oximeters, capnography monitors, ECG machines, and non-invasive blood pressure monitors. Participants will learn to interpret monitoring data and recognize equipment alarms.	From **1**
Weeks 5, 6, 7	Airway Management Skills: Practical exercises focused on airway management techniques and devices, including endotracheal tubes, laryngeal mask airways (LMAs), oral airways, and video laryngoscopes. Participants will practice airway assessment, device selection, and insertion techniques on airway manikins.	From **1**
Weeks 8, 9	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.	From **1**
Weeks 10, 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, 14	Interprofessional Communication: Opportunities for interprofessional collaboration and communication with surgical team members, nursing staff, and other healthcare providers involved in perioperative care. Participants will practice effective communication strategies for conveying critical information and coordinating patient care.	From **1**
Week 15	Final Exams	

Mapping of Course Outcomes to Program Outcomes and NQF Outcomes	**Course Outcome Weight (Out of 100%)**	**Assessment method**
Develop proficiency in handling the equipment and supplies discussed in theoretical sessions pertaining to anesthesia technology. [1PLO 5] [1L7C4]	15%	Quizzes
Acquire cognitive understanding, psychomotor skills, and affective learning experiences related to advanced instrumentation in anesthesia technology. [1PLO 1] [1L7K1]	15%	First exam
Participate in classroom lectures to grasp theoretical concepts and practical laboratory sessions to apply learned skills effectively. [1PLO 3] [1L7S3]	15%	First exam, Second exam
Gain hands-on experience in a simulated real-life environment using high-fidelity mannequins, enhancing preparedness for clinical settings. [1PLO 4] [1L7S2]	15%	Second exam, Final exam
Demonstrate competency in utilizing advanced instrumentation in anesthesia technology, ensuring safe and effective patient care. [1PLO 6] [1L7S1]	10%	Final exam
Enhance critical thinking and problem-solving abilities through practical application and simulated scenarios. [1PLO 4] [1L7S1]	15%	Final exam
Develop effective communication and teamwork skills essential for collaborative practice in anesthesia technology settings. [1PLO 6] [1L7C3]	15%	Final exam

Relationship to Program Student Outcomes (Out of 100%)					
PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6
15		15	30	15	25

Relationship to NQF Outcomes (Out of 100%)					
L7K1	L7S1	L7S2	L7S3	L7C3	L7C4
15	25	15	15	15	15

Evaluation	
Assessment Tool	**Weight**
Quizzes	15%
First exam	25%
Second exam	10%
Final exam	50%

Policy	
Code of Conduct and Academic Integrity Guidelines	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. Cheating: University regulations will be applied on cases of cheating and/or plagiarism 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. 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! 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) 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) 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.

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