



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

ANET104 Introduction To Anesthesia Technology - JNQF Level: 7

Second Semester 2021-2022

**Course Catalog**

2 Credit Hours. This course aims to familiarize students with the field of Anesthesia Technology, covering professional standards, competencies, and terminology. Students will learn about the layout of operating rooms and associated support systems, as well as the importance of teamwork among healthcare professionals. Additionally, the course provides insight into understanding the various needs of surgical patients, including physical, psychological, social, and spiritual aspects.

**Teaching Method:** Blended

**Text Book**

<b>Title</b>	The Anesthesia Technologist's Manual
<b>Author(s)</b>	By Emily Guimaraes , Matthew Davis , Jeffrey R. Kirsch MD , Glenn Woodworth MD
<b>Edition</b>	2nd Edition
<b>Short Name</b>	1
<b>Other Information</b>	

**Course References**

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

**Instructor**

Name	Dr. Eihab Khasawneh
Office Location	-
Office Hours	Sun : 08:30 - 09:30 Mon : 14:30 - 16:00 Tue : 08:30 - 10:30 Thu : 08:30 - 10:30

Email	eakhasawneh1@just.edu.jo
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<b>Class Schedule &amp; Room</b>
<p>Section 1: Lecture Time: Mon : 08:30 - 09:30 Room: SCIENCE HALL1</p> <p>Section 2: Lecture Time: Wed : 08:30 - 09:30 Room: M2203</p>

<b>Tentative List of Topics Covered</b>		
<b>Weeks</b>	<b>Topic</b>	<b>References</b>
Week 1	Syllabus review. Course overview. Introduction to Anesthesia Technology.	From 1
Week 2	The History of Anesthesia	From 1
Week 3	INHALATION ANESTHESIA LOCAL & REGIONAL ANESTHESIA	From 1
Week 4	INTRAVENOUS ANESTHESIA : Induction Agents , Neuromuscular Blocking Agents , Opioids	From 1
Week 5	EVOLUTION OF THE SPECIALTY : British Origins , American Origins	From 1
Week 6	The Scope of Anesthesia	From 1
Week 7	Safety Culture	From 1
Week 8	Medical Gas Systems	From 1
Week 9	SOURCES OF MEDICAL GASES: Oxygen , Nitrous Oxide , Medical Air , Nitrogen , Vacuum , Carbon Dioxide	From 1
Week 10	Mid Term Exam	
Week 11	DELIVERY OF MEDICAL GASES	From 1
Week 12	Environmental Factors in the Operating Room: TEMPERATURE , HUMIDITY , VENTILATION .	From 1
Week 13	Environmental Factors in the Operating Room: NOISE , IONIZING RADIATION	From 1
Week 14	Electrical Safety : THE RISK OF ELECTROCUTION PROTECTION FROM ELECTRICAL SHOCK	From 1

Week 15	Electrical Safety : SURGICAL DIATHERMY	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 professional requirements and competencies necessary for Anesthesia Technologists. [1PLO 1] [1L7S1]	25%	
Familiarize oneself with the design of operating rooms and the accompanying support systems. [1PLO 2] [1L7S2]	25%	
Recognize the roles of each member within the healthcare team and grasp the concept of teamwork in the context of anesthesia technology. [1PLO 6] [1L7C3]	25%	
Develop knowledge and insight into addressing the diverse needs of surgical patients, including their physical, psychological, social, and spiritual aspects. [1PLO4] [1L7S3]	25%	

Relationship to Program Student Outcomes (Out of 100%)					
PLO 1	PLO 2	PLO 3	PLO4	PLO 5	PLO 6
25	25		25		25

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

Evaluation	
Assessment Tool	Weight
Assignment	10%
Midterm exam	40%
Final exam	50%

Policy
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<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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