



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

ANET344 Intensive Care Lab - JNQF Level: 7

Second Semester 2023-2024

Course Catalog

1 Credit Hours. This course is designed to provide anesthesia technology students with the skills required to care competently and safely for critically ill patient. It focuses on having the students expand their knowledge base and master critical care psychomotor skills associated with assessment and provision of comprehensive critical care for patient with acute life threatening conditions and attitudes through reflection in and on action in clinical settings. It also focuses on the application of immediate rapid and accurate assessment and provision of quality critical care according to priorities. It enable the students to provide comprehensive quality care for critically ill patient with different body system alterations, with different types of invasive devices and with different types of machines encountered in critical care settings and to understand the critical care environment in which practice occurs in order to provide care for the critically ill patients in the different critical care settings. Critical thinking, clinical judgment, decision making and team work are emphasized in this course.

Teaching Method: On Campus

Text Book

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

Course References

Short name	Book name	Author(s)	Edition	Other Information
Ref #2	Morgan and Mikhail's Clinical Anesthesiology	David C. Mackey, John D. Wasnick, and John F. Butterworth	6th Edition	

Instructor

Name	Dr. Mahmoud Altawalbih
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Office Location	-
Office Hours	
Email	mhaltawalbih@just.edu.jo

Class Schedule & Room
<p>Section 1: Lecture Time: Sun : 08:30 - 10:30 Room: LAB</p> <p>Section 2: Lecture Time: Sun : 14:30 - 16:30 Room: LAB</p> <p>Section 4: Lecture Time: Tue : 08:30 - 10:30 Room: LAB</p> <p>Section 5: Lecture Time: Tue : 14:30 - 16:30 Room: LAB</p> <p>Section 7: Lecture Time: Thu : 08:30 - 10:30 Room: LAB</p> <p>Section 8: Lecture Time: Thu : 14:30 - 16:30 Room: LAB</p>

Prerequisites		
Line Number	Course Name	Prerequisite Type
1173410	ANET341 Medical Problems And Their Management	Prerequisite / Study
1173330	ANET333 Anesthesia Equipment And Supplies II Lab	Prerequisite / Study

Tentative List of Topics Covered		
Weeks	Topic	References
Weeks 1, 2	Guidelines for physical assessment, Collection of subjective & objective data; Physical examination techniques for critically ill patient	From Ref # 1 , From Ref #2
Weeks 3, 4	Cardiovascular assessment; ECG & Cardiac monitor; ECG tracing analysis; Central venous catheter & CVP measurement, Cardiac dysrhythmia, Basic life support; Cardiac catheterization, Discussion of reading assignment on most commonly used cardiovascular drugs, Cardioversion & defibrillation; Pacemaker; Emergency cart & Emergency drugs	From Ref # 1 , From Ref #2

Weeks 5, 6	Respiratory assessment; Artificial airways; Suctioning (Use of Ambu bag ,Percussion & vibration ,oxygen therapy & Inhalation therapy; Mechanical ventilation	From Ref # 1, From Ref #2
Weeks 7, 8	Drug dosage calculation; Advanced life support algorithms, Assessment of nervous system and other body systems	From Ref # 1, From Ref #2
Week 9	Nasogastric tube; Total parenteral nutrition; Gluco check; Urinary catheter	From Ref # 1, From Ref #2
Week 10	Exercises on patient's drugs & infusion calculation, Clinical practice on IV infusion pump, syringe pump	From Ref # 1, From Ref #2
Weeks 11, 12	case study on other neurological disorders, Application of assessment of nervous system/ trauma	From Ref # 1, From Ref #2
Weeks 13, 14	Discussion of reading assignment, case studies and simulations	From Ref # 1, From Ref #2

Mapping of Course Outcomes to Program Outcomes and NQF Outcomes	Course Outcome Weight (Out of 100%)	Assessment method
Demonstrate the ability to assess critically ill patients with the different invasive devices & machines [1PLO 2, 1PLO 3, 1PLO 4, 1PLO 5] [1L7K1, 1L7S1, 1L7S2, 1L7S3]	30%	
Provide comprehensive critical care for the critically ill patients with the different acute and life threatening conditions and their families. [1PLO 2, 1PLO 3, 1PLO 5, 1PLO 6] [1L7S2, 1L7S3, 1L7C2, 1L7C4]	40%	
Demonstrate understanding for the most common used critical care anesthesia procedures [1PLO 2, 1PLO 3, 1PLO 5] [1L7K1, 1L7S1, 1L7S2]	30%	

Relationship to Program Student Outcomes (Out of 100%)					
PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6
	27.5	27.5	7.5	27.5	10

Relationship to NQF Outcomes (Out of 100%)					
L7K1	L7S1	L7S2	L7S3	L7C2	L7C4
17.5	17.5	27.5	17.5	10	10

Evaluation	
Assessment Tool	Weight
Professionalism	10%
Lab evaluation	5%
? Critical care anesthesia clinical documents - Assessment of critically ill patient - Critical care records / report on other areas	15%
Monitoring, & anesthesia critical Care	10%
? Self learning activities - Written assignment & Discussion of reading assignment - Oral presentation of written assignment & patient case study	10%
Case studies discussions and clinical round	5%
Quizzes	5%
Miterm exam	20%
final Exam	20%

Policy

Academic conduct	<p>Statement on Professionalism</p> <p>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:</p> <p>missing classes, tardiness, lack of attention for a speaker, talking to others during the lecture, leaving a lecture before its completion without prior authorization of the instructor, working on other class material during class, and sleeping during class.</p> <p>Attendance:</p> <p>Class attendance is mandatory to develop scholarly discussion and argumentation skills. If you cannot attend class, you must submit appropriate documentation with an excused absence request. JUST policy requires the faculty member to assign ZERO (Grade: 35) if a student misses 10% of the classes that are not excused.</p> <p>Cheating:</p> <p>The standards of JUST policy will be applied:</p> <p>بالغش فتوقع عل?? العقوبات التال?ة مجتمعة المادة 7 : اذا ضبط الطالب أثناء الإمتحان أو الإختبار متلبساً: في ذلك الإمتحان أو الإختبار أ. اعتباره راسياً. ب. الغاء تسج?ل? في بق?ة المساقات المسجل ل? في ذلك الفصل. ?? فصل? من الجامعة لمدة فصل دراسي واحد و?و الفصل التالي للفصل الذي ضبط ف.</p> <p>Cell phone:</p> <p>The use of cellular phones is prohibited in classrooms and during exams. The cellular phone must be switched off in classrooms and during exams.</p> <p>?</p> <p>Make-up Exam:</p> <p>Make-up exams are 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:</p> <p>Communication of concerns, complaints, questions, and/or feedback are appreciated and are important for improving the students learning experience. Please use the professional channels to address any issue or concern (ie., e-mail)</p>
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Date Printed: 2024-03-23