

Program **Anesthesia Technician**

Course Specification of Problem Solving and decision Making in anesthesiology

Course No. (08 02 825)

2024

II. Course Description:

Course Overview : This course is designed to equip anesthesiology students and professionals with critical problem-solving and decision-making skills essential for effective practice in diverse clinical settings. Utilizing case studies, simulations, and interactive discussions, participants will learn to identify challenges, evaluate options, and implement solutions in real-time anesthetic management.

IV. Course Contents:

A. Theoretical Aspect:

No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours	Learning Outcomes (CLOs)
1	Introduction to Problem Solving in Anesthesia	Theoretical foundations and importance of effective problem solving in anesthesiology.	1	2	a1, d2
2	Patient Assessment and Risk Stratification	Techniques for evaluating patient history, comorbidities, and individual risk factors.	1	2	a1, b1
3	Data Analysis and Interpretation	Understanding vital signs, laboratory results, and clinical data to inform decision-making.	1	2	a1, b1, c1, d1
4	Identifying Anesthesia-Related Complications	Recognizing and categorizing potential intraoperative and postoperative complications.	3	6	a1, c1, d1
5		• exam	1	2	a1, b1, c1, d1
	Decision-Making	Frameworks for making informed decisions, including	1	2	

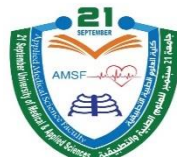
	Strategies	the use of algorithms and protocols.			
6	Crisis Scenarios and Simulation Training	Interactive simulations addressing common emergencies (e.g., difficult airway, hemodynamic instability).	2	4	a2, b2, c2, d2
7	Ethics in Decision Making	Exploring ethical dilemmas and considerations in anesthesia practice.	3	6	a2, c2, d2
8	Continuous Quality Improvement	Assessing outcomes and reflecting on decision-making processes to enhance future practice.	2	4	a2, c2, d2.C3
	Final term exam	Final term exam	1	2	a2, b2, c2, d2
Number of Weeks /and Units Per Semester			16	32	

B. Case Studies and Practical Aspect:

No.	Tasks/ Experiments	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
1	None			
Number of Weeks /and Units Per Semester				

C. Tutorial Aspect:

No.	Tutorial	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
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1	None			
Number of Weeks /and Units Per Semester				

V. Teaching Strategies of the Course:

- Interactive lecture
- Seminars and student presentations
- Brain storming
- Role-play and simulation
- Small group discussion
- Learning tasks and activities
- Problems solving
- Case study analysis

VI. Assessment Methods of the Course:

- Assignments
- Quizzes
- Mid-term exam
- Final term exam

Total	10	
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