

Program **Anesthesia Technician**

Course Specification of Clinical Anesthesia2

Course No. (08 02 826)

2024

II. Course Description:

Students are exposed to a wide range of anesthesia cases and experiences. Students develop an understanding of clinical anesthesiology and demonstrate their clinical skills through their choice of anesthetic agents, managing airways, starting routine IVs, arterial line insertion, patient monitoring and operation of anesthetic machines

IV. Course Contents:

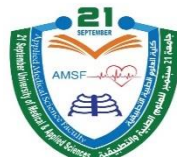
A. Theoretical Aspect:

No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours	Learning Outcomes (CLOs)
1	Module 1	- Clinical Skills Procedures .	1	2	a1, d2
2	Module 2	- Anesthesia Equipment - Use of bag and mask - Insertion of oral airways - Intubation of normal patients (grades I and II) - Insertion of LMAs (laryngeal mask airways) - Use and adjustment of O.R. ventilators - Use of adjunct airway equipment .	1	2	a1, b1
3	Module: 3	- Patient Assessments - Set up equipment for monitoring - Assist with insertion of CVP and Swan-Ganz catheters - Demonstrate skills in the maintenance, testing, operation and troubleshooting techniques o .	1	2	a1, b1, c1, d1
4	Module:4	- Anesthetic machines - Anesthetic vaporizers - Anesthetic ventilators - Anesthetic circuits - Anesthetic gas monitors - Cardiac monitors	2	4	a1, c1, d1
5	Module 5	- Regional Anesthesia . - o Non-invasive monitors	1	2	a1, b1, c1, d1

		(BP, pulse oximetry ECG) ○ Autologous blood transfusion equipment ○ Trace gas monitoring • Demonstrate an understanding of which drugs are commonly used in the practice of anesthesia, as well as the pharmacodynamics and pharmacokinetics of each of those • Assist with peripheral nerve blocks with and without ultrasound. • Demonstrate an understanding of the anesthetic considerations and the clinical management required for many types of anesthetic cases •			
		• Pediatric Considerations	1	2	
6	Module 6	• Clinical Management	2	4	a2, b2, c2, d2
7	Module 7	• Renal and Hepatic Diseases	3	6	a2, c2, d2
8	Module 8	• Anesthesia for Thoracic Surgery	3	6	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)
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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