

Republic of Yemen

Ministry of Higher Education & Scientific Research

21 SEPTEMBER UNIVERSITY of MEDICALS & APPLIEED

SCIENCES



Program **A**nesthesia **T**echnician

Course Specification of Clinical Anesthesiology

Course No. (08 02 824)

2024

Template for Course Specification

I. Course Identification and General Information:				
1	Course Title:	Clinical Anesthesiology		
2	Course Code & Number:	08 02 824		
3	Credit Hours:	Credit Hours	Theory Hours	
			Lecture	Field
		6		2
				4
4	Study Level/ Semester at which this Course is offered:	Level2\1term		
5	Pre –Requisite (if any):	None		
6	Co –Requisite (if any):	None		
7	Program (s) in which the Course is Offered:	Bachelor of Anesthesia Technician		
8	Language of Teaching the Course:	English		
9	Study System:	Semester Based System		
10	Mode of Delivery:	Full Time		
11	Location of Teaching the Course:	Faculty of Medical Applied Science		
12	Prepared by:	Associate Prof. MORSAL AL NAGAR		
	Date of Approval:	2024-1446 ^{Ah}		

Prepared by:	Reviewed by:	Head of the Department:	Quality Unit:	Dean
Dr MORSAL AL NAGAR	Dr. abdulala thabet	Dr.Fares Mahdi	Dr.Fadl Shujaa Aldeen	Dr. Abdulsalam Dallak

II. Course Description:

. this course Students explore the application of anesthesia in specific practice areas and contexts. General, regional, and specialty areas of anesthesia are considered with specific reference to obesity, neonatal and geriatric anesthesia, cardiac pathology, cardiovascular disease, endocrine diseases, thoracic surgery, neuromuscular disease, neurosurgery, trauma, and crisis management. Students analyze cases, develop anesthetic plans and evaluate considerations for specific patient subsets.

III. Course Intended Learning Outcomes (CILOs) : (مخرجات تعلم المقرر)

A. Knowledge and Understanding: Upon successful completion of the course, students will be able to:

a1	Develop an anesthesia plan and predict the benefits associated with a thorough preoperative assessment.	A1	Demonstrate the concepts and principles of anesthesia and different basic and humanities courses and its applications in anesthesia practice
a2	Describe Bariatric anaesthetics considerations in terms of Obstructive Sleep Apnea, airway, ventilation, positioning	A4	Describe normal and abnormal human behaviors, structure and function of human body and identify the basics of intensive care, medical emergencies that the anesthetist and high dependency care units and how to manage patients at risk.
a3	Describe general patient positioning, evaluating impacts and possible risks	A3	Recognize the full details about the basic physics and its applications in anesthesia, the equipment's and apparatus in anesthesia and critical care unit.

B. Intellectual Skills: Upon successful completion of the course, students will be able to:

b1	Identify anesthetic considerations of Cardiac disease in the surgical patient population and the implications of anti-coagulation	B2	integrate assessment data to formulate anesthesia diagnosis.
b2	Analyze anesthetic considerations for Endocrine disease.	B3	synthesize knowledge derived from, medical, anesthesia, basic sciences and humanities courses into the practice of anesthesia

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B3	Determine anesthetic management for patients with Renal dysfunction in terms of pharmacology, fluid management, laboratory data and electrolytes	B2	Interpret the basic normal anatomical structures on radiographs, C.T. scans and magnetic resonance images and readings of the standard monitors attached to the patient as well as additional monitors as central venous pressure monitoring.
C. Professional and Practical Skills: Upon successful completion of the course, students will be able to:			
c1	Identify geriatric anesthetic techniques, comparing regional and general, and describing pharmacology and causes of delirium	C1	Administer a range of assessment techniques, procedures and management appropriate to patient condition and maintain fluid therapy and blood transfusion.
c2	- Evaluate anesthetic considerations for trauma patients. - Compare spinal, epidural and peripheral nerve blocks (PNB) and describe regional methods	C2	Perform an approach to the assessment of risk and need for consultation for an anesthetics, identify appropriate laboratory investigations, pre-medications and fasting guidelines and Set up anesthesia machine and its connections and demonstrate appropriate application and interpretation of commonly used monitors in anesthesia preoperatively
C3	Develop and describe anesthesia plans for the obstetric and pediatric patient	C3	Apply the skills necessary for maintaining a patent airway, manual ventilation, intubation and mechanical ventilation. and Perform the proper technique of anesthesia (general, regional or local anesthesia)
D. Transferable Skills: Upon successful completion of the course, students will be able to:			
d1	Communicate with the patient and his family effectively in professional manner using the principles of communication techniques	D1	Communicate effectively with individuals and groups and members of the health team in order to promote effective interpersonal relationships and teamwork
d2	Discuss the legal and ethical issues that arise in the emergency care setting.	D2	Demonstrate professional, ethical, moral, legal, and spiritual concepts into one's practice within a global environment

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(A) Alignment of Course Intended Learning Outcomes (Knowledge and Understanding) to Teaching Strategies and Assessment Methods:

Course Intended Learning Outcomes		Teaching Strategies	Assessment Strategies
a1	Develop an anesthesia plan and predict the benefits associated with a thorough preoperative assessment.	- Interactive lecture - Seminars and student presentations - Brain storming, role-play and simulation - Small group for discussing	- Assignments - Quizzes - Mid-term Exam - Final exam - Presentations
a2	Describe Bariatric anesthetics considerations in terms of Obstructive Sleep Apnea, airway, ventilation, positioning	- Interactive lecture - Seminars and student presentations - Brain storming, role-play and simulation - Small group for discussing	- Assignments - Quizzes - Mid-term Exam - Final exam - Presentations
	Describe general patient positioning, evaluating impacts and possible risks	- Interactive lecture - Seminars and student presentations - Brain storming, role-play and simulation - Small group for discussing	- Assignments - Quizzes - Mid-term Exam - Final exam - Presentations

(B) Alignment of Course Intended Learning Outcomes (Intellectual Skills) to Teaching Strategies and Assessment Methods:

Course Intended Learning Outcomes		Teaching Strategies	Assessment Strategies
b1	Analyze anesthetic considerations for Endocrine disease.	- Interactive lecture - Brain storming - Role-play & simulation - Small group discussions - Seminars and student	- Assignments - Quizzes - Mid-term Exam - Final exam

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Dr MORSAL AL NAGAR	Dr. abdulala thabet	Dr.Fares Mahdi	Dr.Fadl Shujaa Aldeen	Dr. Abdulsalam Dallak

		presentations	
b2	Determine anesthetic management for patients with Renal dysfunction in terms of pharmacology, fluid management, laboratory data and electrolytes	- Interactive lecture - Brain storming - Role-play & simulation - Small group discussions - Seminars and student presentations	- Assignments - Quizzes - Mid-term Exam - Final exam
(C) Alignment of Course Intended Learning Outcomes (Professional and Practical Skills) to Teaching Strategies and Assessment Methods:			
	Course Intended Learning Outcomes	Teaching Strategies	Assessment Strategies
c1	Identify geriatric anesthetic techniques, comparing regional and general, and describing pharmacology and causes of delirium	- Active learning, - Small group learning. - Learning tasks and activities	- Assignments - Quizzes - Mid-term Exam - Final exam
c2	- Evaluate anesthetic considerations for trauma patients. - Compare spinal, epidural and peripheral nerve blocks (PNB) and describe regional methods	- Active learning, - Small group learning. - Learning tasks and activities	- Assignments - Quizzes - Mid-term Exam - Final exam
C3	Develop and describe anesthesia plans for the obstetric and pediatric patient	- Active learning, - Small group learning. - Learning tasks and activities	- Assignments - Quizzes - Mid-term Exam - Final exam
(D) Alignment of Course Intended Learning Outcomes (Transferable Skills) to Teaching			

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Dr MORSAL AL NAGAR	Dr. abdulala thabet	Dr.Fares Mahdi	Dr.Fadl Shujaa A deen	Dr. Abdulsalam Dallak

Strategies and Assessment Methods:			
Course Intended Learning Outcomes		Teaching Strategies	Assessment Strategies
d1	Communicate with the patient and his family effectively in professional manner using the principles of communication techniques	- Classroom discussions, - Problems solving - Case study analysis	- Presentations - Case Studies - Learning activities
d2	Discuss the legal and ethical issues that arise in the emergency care setting.	- Classroom discussions, - Problems solving - Case study analysis	- Presentations - Case Studies - Learning activities

IV. Course Contents:					
A. Theoretical Aspect:					
No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours	Learning Outcomes (CLOs)
1	Module 1	Intro to Clinical Anesthesia	1	2	a1, d2
2	Module 2	Obesity and Positioning	1	2	a1, b1
3	Module: 3	Pediatric & Geriatric Anesthesia	1	2	a1, b1, c1, d1
4	Module:4	Neonatal and Obstetric Anesthesia	3	6	a1, c1, d1
5	Module 5	Cardiac and Peripheral Vascular Anesthesia	1	2	a1, b1, c1, d1
		Mad exam	1	2	
6	Module 6	Endocrine Diseases	2	4	a2, b2, c2, d2

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7	Module 7	• Renal and Hepatic Diseases	3	6	a2, c2, d2
8	Module 8	• Anesthesia for Thoracic Surger	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)
1	None			
Number of Weeks /and Units Per Semester				

C. Tutorial Aspect:				
No.	Tutorial	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
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	

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- Learning tasks and activities
- Problems solving
- Case study analysis

VI. Assessment Methods of the Course:

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

VII. Assignments:

No.	Assignments	Week Due	Mark	Aligned CILOs (symbols)
1	Assignment 1: common abbreviations	W5	5	a1, b1
2	Assignment 2: drug classification	W11	5	a2, b2,
Total			10	

VIII. Schedule of Assessment Tasks for Students During the Semester:

No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment	Aligned Course Learning Outcomes
1	Assignments	W5,11	10	10%	a1, b1, a2, b2
2	Quizzes 1 & 2	W3, 9	10	10%	a1, a2
3	Mid-Term Theoretical Exam	W7	20	20%	a1, b1, c1, d1
4	Final Theoretical Exam	W16	60	60%	a2, b2, c2, d2
Total			100	100%	

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Dr MORSAL AL NAGAR	Dr. abdulala thabet	Dr.Fares Mahdi	Dr.Fadl Shujaa Aldeen	Dr. Abdulsalam Dallak

IX. Learning Resources:

- *Written in the following order:* Author, Year of publication, **Title**, Edition, Place of publication, Publisher.

1- Required Textbook(s) (maximum two): مثال example

- 1 - Gaba, D., Fish, K., Howard, S., & Burden, A. (2015). Crisis Management in Anesthesiology (2th ed). Elsevier Saunders.
Type: Textbook. ISBN: 9780443065378
- Butterworth, J., Mackey, D., & Wasnick, J. (2020). Morgan & Mikhail's Clinical Anesthesiology Cases. McGraw-Hill, Lange.
Type: Textbook. ISBN: 978-0-07-183612-8
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- 2- Essential References:
- Butterworth, J., Mackey, D., & Wasnick, J. (2022). Morgan & Mikhail's Clinical Anesthesiology (7th ed). McGraw-Hill, Lange.
Type: Textbook. ISBN: 9781260473797
- This is a companion course to ANES 4011 and/or 4021, therefore, the textbook listed below would have been provided in ANES 4011. If students did not take ANES 4011 and do not already own this textbook, they will need to purchase it. To do so, contact student@tru.ca or phone 1.800.663.9711 (toll free in Canada) or 250.852.7000 (local & international)
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3- Electronic Materials and Web Sites etc.:

Websites: <https://www.tru.ca/distance/courses/anes4031.html>

1.

X. Course Policies: (Based on the Uniform Students' By law (2007) تترك كما هي)

1

Class Attendance:

Class Attendance is mandatory. A student is considered absent and shall be banned from taking the

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Dr MORSAL AL NAGAR	Dr. Abdulala thabet	Dr.Fares Mahdi	Dr.Fadi Shujaa Aldeen	Dr. Abdulsalam Dallak

	final exam if his/her absence exceeds 25% of total classes.
2	Tardiness: A student will be considered late if he/she is not in class after 10 minutes of the start time of class.
3	Exam Attendance/Punctuality: No student shall be allowed to the exam hall after 30 minutes of the start time, and shall not leave the hall before half of the exam time has passed.
4	Assignments & Projects: Assignments and projects must be submitted on time. Students who delay their assignments or projects shall lose the mark allocated for the same.
5	Cheating: Cheating is an act of fraud that results in the cancelation of the student's exam or assignment. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' Bylaw (2007) shall apply.
6	Forgery and Impersonation: Forgery/Impersonation is an act of fraud that results in the cancelation of the student's exam, assignment or project. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' Bylaw (2007) shall apply.
7	Other policies: The University official regulations in force will be strictly observed and students shall comply with all rules and regulations of the examination set by the Department, Faculty and University Administration.

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SCIENCES



Program Anesthesia Technician Course Specification of Clinical Anesthesiology Course No. (08 02 824)

2024

12

Prepared by:	Reviewed by:	Head of the Department:	Quality Unit:	Dean
Dr MORSAL AL NAGAR	Dr. abdulala thabet	Dr.Fares Mahdi	Dr.Fadl Shujaa Aldeen	Dr. Abdulsalam Dallak

Template for Course Syllabus

i. معلومات عن أستاذ المقرر Information about Faculty Member Responsible for the Course						
(3 أسابيع)		الساعات المكتبية (أسبوعياً) Office Hours			Dr MORSAL AL NAGAR	
الخميس THU	الأربعاء WED	الثلاثاء TUE	الاثنين MON	الأحد SUN	السبت SAT	الاسم Name
						المكان ورقم الهاتف Location & Telephone No.
						البريد الإلكتروني E-mail
I. Course Identification and General Information:						
1	Course Title:				Clinical Anesthesiology	
2	Course Code & Number:				08 02 824	
3	Credit Hours:				Credit Hours	Theory Hours Lecture Field
					6	2-- 4
4	Study Level/ Semester at which this Course is offered:				Level2\term1	
5	Pre –Requisite (if any):				None	
6	Co –Requisite (if any):				None	
7	Program (s) in which the Course is Offered:				Bachelor of Anesthesia Technician	
8	Language of Teaching the Course:				English	
9	Study System:				Semester Based System	
10	Mode of Delivery:				Full Time	
11	location of teaching the course:				faculty of medical applied science	

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12	prepared by:	Dr MORSAL AL NAGAR
13	date of approval:	2024-1446 ^{ah}

ii. course description:

this course covers the general study of students explore the application of anesthesia in specific practice areas and contexts. general, regional, and specialty areas of anesthesia are considered with specific reference to obesity, neonatal and geriatric anesthesia, cardiac pathology, cardiovascular disease, endocrine diseases, thoracic surgery, neuromuscular disease, neurosurgery, trauma, and crisis management. students analyze cases, develop anesthetic plans and evaluate considerations for specific patient subsets.

course intended learning outcomes (ciilos)

a1	Develop an anesthesia plan and predict the benefits associated with a thorough preoperative assessment.
a2	Describe Bariatric anesthetics considerations in terms of Obstructive Sleep Apnea, airway, ventilation, positioning
a3	Describe general patient positioning, evaluating impacts and possible risks
b1	Identify anesthetic considerations of Cardiac disease in the surgical patient population and the implications of anti-coagulation
b2	Analyze anesthetic considerations for Endocrine disease.
c1	Identify geriatric anesthetic techniques, comparing regional and general, and describing pharmacology and causes of delirium
c2	- Evaluate anesthetic considerations for trauma patients. - Compare spinal, epidural and peripheral nerve blocks (PNB) and describe regional methods
C3	Develop and describe anesthesia plans for the obstetric and pediatric patient
d1	Communicate with the patient and his family effectively in professional manner using the principles of communication techniques
d2	Discuss the legal and ethical issues that arise in the emergency care setting.

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IV. Course Contents:

A. practical Aspect:

No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
1	Module 1	▪ Intro to Clinical Anesthesia	1	2	a1, d2
2	Module 2	○ Obesity and Positioning	1	2	a1,a3. b1
3	Module: 3	• Pediatric & Geriatric Anesthesia	1	2	a1, b1, c1, d1
4	Module:4	• Neonatal and Obstetric Anesthesia	3	6	a1, c1, d1
5	Module 5	• Cardiac and Peripheral Vascular Anesthesia	1	2	a1, b1, c1, a3.d1
		• Mad exam	1	2	
6	Module 6	• Endocrine Diseases	2	4	a2, b2, c2, d2
7	Module 7	• Renal and Hepatic Diseases	3	6	a2, c2, d2
8	Module 8	• Anesthesia for Thoracic Surger	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)
1	▪ Intro to Clinical Anesthesia	2	4	

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	○ Obesity and Positioning	2	4	
	Pediatric & Geriatric Anesthesia	2	4	
	Neonatal and Obstetric Anesthesia	1	2	
	Cardiac and Peripheral Vascular Anesthesia	2	2	
	Endocrine Diseases	2	2	
	Renal and Hepatic Diseases	2	4	
	Anesthesia for Thoracic Surgery	1	2	
Number of Weeks /and Units Per Semester		12	24	

C. Tutorial Aspect:				
No.	Tutorial	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
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

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VI. Assessment Methods of the Course:

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

VII. Assignments:

No.	Assignments	Week Due	Mark	Aligned CILOs (symbols)
1	Assignment 1: common abbreviations	W5	5	a1, b1
2	Assignment 2: drug classification	W11	5	a2, b2,
Total			10	

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2	Quizzes 1 & 2	W3, 9	10	10%	a1, a2

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3	Mid-Term Theoretical Exam	W7	20	20%	a1, b1, c1, d1
4	Final Theoretical Exam	W16	60	60%	a2, b2, c2, d2
Total			100	100%	

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○
3- Electronic Materials and Web Sites etc.:
Websites: https://www.tru.ca/distance/courses/anes4031.html

X. Course Policies: (Based on the Uniform Students' By law (2007) تترك كما هي)	
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