

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 Anesthesia3

Course No. (08 02 827)

2024

Template for Course Specification

I. Course Identification and General Information:				
1	Course Title:	Clinical Anesthesia³		
2	Course Code & Number:	08 02 827		
3	Credit Hours:	Credit Hours	Theory Hours Lecture Field	Lab. Hours
		2	2 --	--
4	Study Level/ Semester at which this Course is offered:	Level3\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 Fahmy AL-Absi		
	Date of Approval:	2024-1446 ^{Ah}		

II. Course Description:

Course Description: This is the third in a series of six clinical practicum courses. In this practicum,

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students combine intermediate didactic knowledge and psychomotor skills in assessment, planning, and implementation/delivery of perioperative anesthesia care under close supervised monitoring and mentoring by licensed/certified anesthesia providers in MSA member hospitals throughout the Twin Cities. Students complete a minimum of 240 hours of supervised practicum as a student nurse anesthetist. Competence Statement: Knows the principles and practice of nurse anesthesia care well enough to assess, plan, and implement an anesthetic care plan, at an intermediate level, under close supervision of a licensed/certified anesthesia provider.

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	Determine ischemic heart diseases through ECG interpretation	A1	Demonstrate the concepts and principles of anesthesia and different basic and humanities courses and its applications in anesthesia practice
a2	Setting of ventilator modes for various respiratory diseases	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	. maintain a complete medical record for an anesthetic case.	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	Assess and carry out an anesthesia care plan	B2	Synthesize knowledge derived from, medical, anesthesia, basic sciences and humanities courses into the practice of anesthesia
b2	Develop the process of an anesthetic induction.	B3	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

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			pressure monitoring
C. Professional and Practical Skills: Upon successful completion of the course, students will be able to:			
c1	Compilation of data related to blood disorders •	C1	Administer a range of assessment techniques, procedures and management appropriate to patient condition and maintain fluid therapy and blood transfusion.
c2	Collection of electrolyte disturbance data in various renal diseases.	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

(A) Alignment of Course Intended Learning Outcomes (Knowledge and Understanding) to

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Teaching Strategies and Assessment Methods:			
Course Intended Learning Outcomes		Teaching Strategies	Assessment Strategies
a1	Determine ischemic heart diseases through ECG interpretation	- 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	Setting of ventilator modes for various respiratory diseases	- Interactive lecture - Seminars and student presentations - Brain storming, role-play and simulation - Small group for discussing	- Assignments - Quizzes - Mid-term Exam - Final exam - Presentations
A3	. maintain a complete medical record for an anesthetic case.	- 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	Assess and carry out an anesthesia care plan	- Interactive lecture - Brain storming - Role-play & simulation - Small group discussions - Seminars and student presentations	- Assignments - Quizzes - Mid-term Exam - Final exam
b2	Develop the process of an anesthetic induction.	- Interactive lecture - Brain storming	- Assignments - Quizzes

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		- Role-play & simulation - Small group discussions - Seminars and student presentations	- 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	Compilation of data related to blood disorders	- Active learning, - Small group learning. - Learning tasks and activities	- Assignments - Quizzes - Mid-term Exam - Final exam
c2	Collection of electrolyte disturbance data in various renal diseases.	- 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 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	Classroom discussions,	- Presentations - Case Studies

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emergency care setting.	- Problems solving - Case study analysis	Learning activities
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IV. Course Contents:

A. Theoretical Aspect:

No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours	Learning Outcomes (CLOs)
1		Develop and conduct a preanesthetic assessment.	1	2	a1, d2
2		Formulate an anesthesia care plan.	1	2	a1, b1
3		Complete a room set-up for an anesthetic case.	1	2	a1, b1, c1, d1
4		Maintain a complete medical record for an anesthetic case.	3	6	a1, c1, d1
5		Develop the process of an anesthetic induction.	1	2	a1, b1, c1, d1
		Develop the process of anesthetic management.	1	2	
6		Develop the process of anesthetic emergence.	2	4	a2, b2, c2, d2
7		Develop post-anesthesia care handoff to recovery room personnel.	3	6	a2, c2, d2

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8		Demonstrate professional and personal responsibility in all clinical interactions.	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

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- 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

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

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Total	100	100%	
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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

Anesthesia and co-existing diseases. Roberta l.hines,.6th edition.

- Evidence-based practice of anesthesiology.fleisher,.a,.lee,.3rd edition.
- Text book of anesthesia. Aitkenhead,.alan,.r,. 5th edition.
- Clinical anesthesiology. Morgan & mikhaïl's,. 5th edit.
- Apractice of anesthesiology.healy,.e,.j,.thomas,.7th edition.
- Fundamental of anesthesia. Smith,.tim,. Pinock,.colin,. Line,.ted,.johan ,.robert,.3rd edition
 - 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

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)

3- Electronic Materials and Web Sites etc.:

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

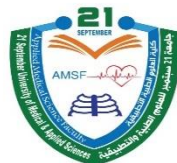
1.

Prepared by:	Reviewed by:	Head of the Department:	Quality Unit:	Dean
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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 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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Ministry of Higher Education & Scientific Research

21 SEPTEMBER UNIVERSITY of MEDICALS & APPLIED

SCIENCES



Program Anesthesia Technician Course Specification of Clinical Anesthesia3 Course No. (08 02 827)

Prepared by:	Reviewed by:	Head of the Department:	Quality Unit:	Dean
Dr. Fahmy AL-Absi	Dr. Adnan AL-thory	Dr.Fares Mahdi	Dr.Fadl Shujaa Al-deen	Dr. Abdulsalam Dallak

2024

Template for Course Syllabus

i. معلومات عن أستاذ المقرر Information about Faculty Member Responsible for the Course						
(3 / أسبوعيا)		الساعات المكتبية (أسبوعيا) Office Hours		Dr. Fahmy AL-Absi		الاسم Name
الخميس THU	الأربعاء WED	الثلاثاء TUE	الاثنين MON	الأحد SUN	السبت SAT	المكان ورقم الهاتف Location & Telephone No.
						البريد الإلكتروني E-mail
I. Course Identification and General Information:						
1	Course Title:			Clinical Anesthesia3		
2	Course Code & Number:			08 02 827		
3	Credit Hours:			Credit Hours	Theory Hours Lecture Field	Lab. Hours
				2	2 --	--
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		

Prepared by:	Reviewed by:	Head of the Department:	Quality Unit:	Dean
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10	Mode of Delivery:	Full Time
11	location of teaching the course:	faculty of medical applied science
12	prepared by:	dr. Fahmy AL-Absi
13	date of approval:	2024-1446 ^{ah}

ii. course description:

Course Description: This is the third in a series of six clinical practicum courses. In this practicum, students combine intermediate didactic knowledge and psychomotor skills in assessment, planning, and implementation/delivery of perioperative anesthesia care under close supervised monitoring and mentoring by licensed/certified anesthesia providers in MSA member hospitals throughout the Twin Cities. Students complete a minimum of 240 hours of supervised practicum as a student nurse anesthetist. Competence Statement: Knows the principles and practice of nurse anesthesia care well enough to assess, plan, and implement an anesthetic care plan, at an intermediate level, under close supervision of a licensed/certified anesthesia provider.

course intended learning outcomes (ciolos)

a1	• Determine ischemic heart diseases through ECG interpretation
a2	• Setting of ventilator modes for various respiratory diseases
a3	• maintain a complete medical record for an anesthetic case.
b1	• Assess and carry out an anesthesia care plan
b2	• Develop the process of an anesthetic induction
c1	Collection of electrolyte disturbance data in various renal diseases.
c2	• Collection of data relevant to liver abnormal biochemistry
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. Theoretical Aspect:

No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
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	3	6	a1, c1, d1

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5	Module 5	- Regional Anesthesia - Non-invasive monitors (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	1	2	a1, b1, c1, d1
		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 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	

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

VI. Assessment Methods of the Course:

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

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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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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

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- Evidence-based practice of anesthesiology.fleisher,.a,.lee,.3rd edition.
- Text book of anesthesia. Aitkenhead,.alan,.r,. 5th edition.
- Clinical anesthesiology. Morgan & mikhail's,. 5th edit.
- Apractice of anesthesiology.healy,.e,.j,.thomas,.7th edition.
- Fundamental of anesthesia. Smith,.tim,. Pinock,.colin,. Line,.ted,.johan ,.robert,.3rd edition
- 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.
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3- Electronic Materials and Web Sites etc.:

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

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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 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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