

Republic of Yemen

Ministry of Higher Education & Scientific Research

21 SEPTEMBER UNIVERSITY of MEDICALS & APPLIED
SCIENCES



Faculty of Medicine

Bachelor Program of Medicine and Surgery

Course Specification

Anesthesia

Course Code. (A21P424)

2023



T4: This Template is Developed and Approved by CAQA-Yemen, 2023

Prepared by:	Reviewed by:	Head of department	Quality Unit:	Dean of Medicine Faculty	Center of Development and Quality Assurance Dean
Dr. abdulrakib alhanani	Dr. Adnan Al-athori	Dr. Adnan Al-athori	Dr. Fadhl Shujaa Al-deen	Dr. Salwa Al-Ghomeri	

I. General Information:

1.	Course Title:	Anesthesia				
2.	Course Code:	A21P424				
3.	Credit Hours:	Credit Hours	Theory ContactHours		Practical ContactHours	
			Lecture	Tutorial/ Seminar	Lab	Clinical
		3	2	--		3
4.	Level/ Semester at which this Course is offered:	5 th Level / second Semester				
5.	Pre –Requisite (if any):	All systems				
6.	Co –Requisite (if any):	None				
7.	Program (s) in which the Course is Offered:	Bachelor of medicine and surgery				
8.	Language of Teaching the Course:	English				
9.	Location of Teaching the Course:	Faculty of medicine				
10.	Prepared by:	Dr. Abdulrakib Al-hanani -				
١١	Date and Number of Approval by Council:	2023				

II. Course Description:

This course contributes to provide medical students with knowledge background of anesthetic services and patient evaluation and type of anesthetic medication and anesthetic complications.

Prepared by:	Reviewed by:	Head of department	Quality Unit:	Dean of Medicine Faculty	Center of Development and Quality Assurance Dean
Dr. abdulrakib alhanani	Dr. Adnan Al-athori	Dr. Adnan Al-athori	Dr. Fadhl Shujaa Al-deen	Dr. Salwa Al-Ghomeri	

III. Course Intended Learning Outcomes (CILOs) : Upon successful completion of the course, students will be able to:		Referenced PILOs		
A. Knowledge and Understanding:		I,P or M/A		
a1	Mention method for assessment and documenting a preanesthetic assessment and evaluation of the patient, including requesting consultations and diagnostic studies;	M	A3	
a2	Recognize the various type of anesthesia and pharmacological action	M		
a3	Describe the type of anesthesia medications and it complications	M		
B. Intellectual Skills:				
b1	Construct medical role with various type of trauma and it anesthetics medication	A	B1	
b2	Analyze elements of an ECG rhythm strip: ventricular and atrial rate, ventricular and atrial rhythm, and arterial blood gases .	A	B2	
C. Professional and Practical Skills:				
c1	Show uses of cardiac monitor (ECG), reparatory devices.	P	C1	
c2	Capable to perform airway management	P	C2	
c3	Demonstrate the medical interventions of a patient who has emergency trauma.	P	C3	
D. Transferable Skills:				
d1	Use the clinical process as a framework of care for patients require anesthesia	I	D1	
d2	Recognize the applicability of the Code of Ethics	I	D3	
I= Introduced, P=Practiced or M/A= Mastered/Advanced				

Prepared by:	Reviewed by:	Head of department	Quality Unit:	Dean of Medicine Faculty	Center of Development and Quality Assurance Dean
Dr. abdulrakib alhanani	Dr. Adnan Al-athori	Dr. Adnan Al-athori	Dr. Fadhl Shujaa Al-deen	Dr. Salwa Al-Ghomeri	

(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	<ul style="list-style-type: none"> Lectures Discussions 	<ul style="list-style-type: none"> Written exam
a2		
a3		
(B) Alignment of Course Intended Learning Outcomes (Intellectual Skills) to Teaching Strategies and Assessment Methods:		
Course Intended Learning Outcomes	Teaching Strategies	Assessment Strategies
b1	<ul style="list-style-type: none"> Lectures Discussions Video clips Clinical Training 	<ul style="list-style-type: none"> Written exam Clinical Exam
b2		
(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	<ul style="list-style-type: none"> Lectures Clinical Training Discussions Video clips 	<ul style="list-style-type: none"> Clinical Exam
c2		
c3		
(D) Alignment of Course Intended Learning Outcomes (Transferable Skills) to Teaching Strategies and Assessment Methods:		
Course Intended Learning Outcomes	Teaching Strategies	Assessment Strategies
d1	<ul style="list-style-type: none"> Case Study 	<ul style="list-style-type: none"> Clinical Exam

Prepared by:	Reviewed by:	Head of department	Quality Unit:	Dean of Medicine Faculty	Center of Development and Quality Assurance Dean
Dr. abdulrakib alhanani	Dr. Adnan Al-athori	Dr. Adnan Al-athori	Dr. Fadhl Shujaa Al-deen	Dr. Salwa Al-Ghomeri	

	of care for patients who require anesthetic intervention	<ul style="list-style-type: none"> Clinical Training 	<ul style="list-style-type: none"> Oral Discussions
d2	Recognize the applicability of the Code of Ethics		

IV. Course Contents:

A. Theoretical Aspect:

No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
1.	Introduction To Anesthesia	<ul style="list-style-type: none"> History Legal Concepts 	1	2	a1,a2
2.	Preanesthetic Assessment And Evaluation Of The Patient,	<ul style="list-style-type: none"> preanesthetic assessment and evaluation of the patient, ECG Preparation of the Patient 	2	4	a1,a3
3.	Fluid Balance	1. Fluids, Electrolytes, and Blood Component Therapy	1	2	a1,a3
2.	Intraoperative Management	<ul style="list-style-type: none"> Positioning for Anesthesia and Surgery Airway Management 	2	4	a1,b1
3.	Mid-Term Theoretical Exam		1	2	a1, a2,a3, b1
4.	Intravenous Induction Agents	<ul style="list-style-type: none"> Nonbarbiturate intravenous anesthetics Benzodiazepines 	3	6	a3,b2
5.	Local Anesthetics	<ul style="list-style-type: none"> Low potency, short duration of action procaine Intermediate potency, duration mepivacaine High potency, long duration tetracaine 	1	2	a1,a3
6.	Inhalation Anesthetics	<ul style="list-style-type: none"> Nitrous Oxide Isoflurane 	1	2	a1,a3

Prepared by:	Reviewed by:	Head of department	Quality Unit:	Dean of Medicine Faculty	Center of Development and Quality Assurance Dean
Dr. abdulrakib alhanani	Dr. Adnan Al-athori	Dr. Adnan Al-athori	Dr. Fadhl Shujaa Al-deen	Dr. Salwa Al-Ghomeri	

No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
9	Neuromuscular Blocking Agents, Reversal Agents, And Their Monitoring	<ul style="list-style-type: none"> history Neuromuscular Blocking Agents: Onset, and Duration Monitoring of neuromuscular blockade Anesthetic complication 	2	4	a3,b3
	Final Theoretical Exam	...	1	2	a1, a2,a3, b1,b2
Number of Weeks /and Units Per Semester			15	30	

B. Practical Aspect (Clinical) (Case Study):

No.	Tasks/ Experiments	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
1	Patient assessment <i>student sheets</i>	3	9	b1
2	Patient monitoring	2	6	c1,b2
3	Therapeutic devices	4	12	c2,c3
4	Endotracheal intubation	5	15	c3,d1,d2
5	Clinical Exam	1	3	b1,b2,c1,c2,c3,d1,d2
Number of Weeks /and Units Per Semester		15	45	

C. Tutorial Aspect (if any):

No.	Tutorial	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
1	NA			
Number of Weeks /and Units Per Semester				

Prepared by:	Reviewed by:	Head of department	Quality Unit:	Dean of Medicine Faculty	Center of Development and Quality Assurance Dean
Dr. abdulrakib alhanani	Dr. Adnan Al-athori	Dr. Adnan Al-athori	Dr. Fadhl Shujaa Al-deen	Dr. Salwa Al-Ghomeri	

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	Oral Discussions	5 th , 12 th	10	10%	d1,d2
2	Mid-Term Theoretical Exam	7 th	10	10%	a1, a2,a3, b1,b2
3	Final Clinical Exam	15 th	30	30%	b1,b2,c1,c2,c3,d1, d2
4	Final Theoretical Exam	16 th	50	50%	a1, a2,a3, b1,b2
Total			100	100%	

IX. Learning Resources:

1- Required Textbook(s):

1. Amballur D. John (2018) .Recent Advances in Anesthesiology Bentham Science Publishers
2. Gregory Rose 2017 Anesthesia For Non-Anesthesiologists By Nova Science Publishers

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

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:

Prepared by:	Reviewed by:	Head of department	Quality Unit:	Dean of Medicine Faculty	Center of Development and Quality Assurance Dean
Dr. abdulrakib alhanani	Dr. Adnan Al-athori	Dr. Adnan Al-athori	Dr. Fadhl Shujaa Al-deen	Dr. Salwa Al-Ghomeri	

	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.

Prepared by:	Reviewed by:	Head of department	Quality Unit:	Dean of Medicine Faculty	Center of Development and Quality Assurance Dean
Dr. abdulrakib alhanani	Dr. Adnan Al-athori	Dr. Adnan Al-athori	Dr. Fadhl Shujaa Al-deen	Dr. Salwa Al-Ghomeri	

Faculty of Medicine

Bachelor Program of Medicine and Surgery

Course Plan (Syllabus) of

Anesthesia

Course Code (A21P424)

I. Information about Faculty Member Responsible for the Course:							
Name of Faculty Member:		Office Hours					
Location & Telephone No.:	----						
E-mail:	--@--.	SAT	SUN	MON	TUE	WED	THU

2023

Prepared by:	Reviewed by:	Head of department	Quality Unit:	Dean of Medicine Faculty	Center of Development and Quality Assurance Dean
Dr. abdulrakib alhanani	Dr. Adnan Al-athori	Dr. Adnan Al-athori	Dr. Fadhl Shujaa Al-deen	Dr. Salwa Al-Ghomeri	

II. Course Identification and General Information:

Course Title:	Anesthesia				
Course Code:	A21P424				
Credit Hours:	Credit Hours	Theory Contact Hours		Practical Contact Hours	Clinical
		Lecture	Tutorial/Seminar	Lab	
	3	2	--		3
Level/ Semester at which this Course is offered:	5th Level / second Semester				
Pre –Requisite (if any):	All systems				
Co –Requisite (if any):	None				
Program (s) in which the Course is Offered:	Bachelor of medicine and surgery				
Language of Teaching the Course:	English				
Location of Teaching the Course:	Faculty of medicine				
Prepared by:	Dr. Abdulrakib Al-hanani -				
١١ Date and Number of Approval by Council:	2023				

III. Course Description:

This course contributes to provide medical students with knowledge background of anesthetic services and patient evaluation and type of anesthetic medication and anesthetic complications.

IV. Course Intended Learning Outcomes (CILOs) :

Upon successful completion of the Course, student will be able to:

Prepared by:	Reviewed by:	Head of department	Quality Unit:	Dean of Medicine Faculty	Center of Development and Quality Assurance Dean
Dr. abdulrakib alhanani	Dr. Adnan Al-athori	Dr. Adnan Al-athori	Dr. Fadhl Shujaa Al-deen	Dr. Salwa Al-Ghomeri	

A. Knowledge and Understanding:	
a1	Mention method for assessment and documenting a preanesthetic assessment and evaluation of the patient, including requesting consultations and diagnostic studies;
a2	Recognize the various type of anesthesia and pharmacological action
a3	Describe the type of anesthesia medications and it complications
B. Intellectual Skills:	
b1	Construct medical role with various type of trauma and it anesthetics medication
b2	Analyze elements of an ECG rhythm strip: ventricular and atrial rate, ventricular and atrial rhythm, and arterial blood gases .
C. Professional and Practical Skills:	
c1	Show uses of cardiac monitor (ECG), reparatory devices.
c2	Capable to perform airway management
c3	Demonstrate the medical interventions of a patient who has emergency trauma.
D. Transferable Skills:	
d1	Use the clinical process as a framework of care for patients require anesthesia
d2	Recognize the applicability of the Code of Ethics

IV. Course Contents:				
A. Theoretical Aspect:				
No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours
1.	Introduction To Anesthesia	<ul style="list-style-type: none"> History Legal Concepts 	1	2
2.	Preanesthetic Assessment And Evaluation Of The Patient,	<ul style="list-style-type: none"> preanesthetic assessment and evaluation of the patient, ECG Preparation of the Patient 	2	4
3.	Fluid Balance	7. Fluids, Electrolytes, and Blood Component Therapy	1	2

Prepared by:	Reviewed by:	Head of department	Quality Unit:	Dean of Medicine Faculty	Center of Development and Quality Assurance Dean
Dr. abdulrakib alhanani	Dr. Adnan Al-athori	Dr. Adnan Al-athori	Dr. Fadhl Shujaa Al-deen	Dr. Salwa Al-Ghomeri	

No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours
4.	Intraoperative Management	<ul style="list-style-type: none"> Positioning for Anesthesia and Surgery Airway Management 	2	4
5.	Mid-Term Theoretical Exam		1	2
6.	Intravenous Induction Agents	<ul style="list-style-type: none"> Nonbarbiturate intravenous anesthetics Benzodiazepines 	3	6
7.	Local Anesthetics	<ul style="list-style-type: none"> Low potency, short duration of action procaine Intermediate potency, duration mepivacaine High potency, long duration tetracaine 	1	2
8.	Inhalation Anesthetics	<ul style="list-style-type: none"> Nitrous Oxide Isoflurane 	1	2
9	Neuromuscular Blocking Agents, Reversal Agents, And Their Monitoring	<ul style="list-style-type: none"> history Neuromuscular Blocking Agents: Onset, and Duration Monitoring of neuromuscular blockade Anesthetic complication 	2	4
	Final Theoretical Exam	...	1	2
Number of Weeks /and Units Per Semester			15	30

Prepared by:	Reviewed by:	Head of department	Quality Unit:	Dean of Medicine Faculty	Center of Development and Quality Assurance Dean
Dr. abdulrakib alhanani	Dr. Adnan Al-athori	Dr. Adnan Al-athori	Dr. Fadhl Shujaa Al-deen	Dr. Salwa Al-Ghomeri	

B. Practical Aspect (Clinical) (Case Study):

No.	Tasks/ Experiments	Number of Weeks	Contact Hours
1	Patient assessment <i>student sheets</i>	3	9
2	Patient monitoring	2	6
3	Therapeutic devices	4	12
4	Endotracheal intubation	5	15
5	Clinical Exam	1	3
Number of Weeks /and Units Per Semester		15	45

C. Tutorial Aspect (if any):

No.	Tutorial	Number of Weeks	Contact Hours
1	NA		
Number of Weeks /and Units Per Semester			

VI. Teaching Strategies of the Course:

خطأ! لم يتم العثور على مصدر المرجع.

VII. Assessment Methods of the Course:

خطأ! لم يتم العثور على مصدر المرجع.

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

No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment
1	Oral Discussions	5 th , 12 th	10	10%
2	Mid-Term Theoretical Exam	7 th	10	10%
3	Final Clinical Exam	15 th	30	30%
4	Final Theoretical Exam	16 th	50	50%

Prepared by:	Reviewed by:	Head of department	Quality Unit:	Dean of Medicine Faculty	Center of Development and Quality Assurance Dean
Dr. abdulrakib alhanani	Dr. Adnan Al-athori	Dr. Adnan Al-athori	Dr. Fadhl Shujaa Al-deen	Dr. Salwa Al-Ghomeri	

No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment
Total			100	100%

IX. Learning Resources:

1- Required Textbook(s):

1. Amballur D. John (2018) .Recent Advances in Anesthesiology Bentham Science Publishers
2. Gregory Rose 2017 Anesthesia For Non-Anesthesiologists By Nova Science Publishers

XI. Course Policies: (Based on the Uniform Students' Bylaw (2007))

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

Prepared by:	Reviewed by:	Head of department	Quality Unit:	Dean of Medicine Faculty	Center of Development and Quality Assurance Dean
Dr. abdulrakib alhanani	Dr. Adnan Al-athori	Dr. Adnan Al-athori	Dr. Fadhl Shujaa Al-deen	Dr. Salwa Al-Ghomeri	

with all rules and regulations of the examination set by the Department, Faculty and University Administration.

Prepared by:	Reviewed by:	Head of department	Quality Unit:	Dean of Medicine Faculty	Center of Development and Quality Assurance Dean
Dr. abdulrakib alhanani	Dr. Adnan Al-athori	Dr. Adnan Al-athori	Dr. Fadhl Shujaa Al-deen	Dr. Salwa Al-Ghomeri	