

Republic of Yemen

Ministry of Higher Education & Scientific Research

21 SEPTEMBER UNIVERSITY for 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.

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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				

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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	<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

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	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

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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				

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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:

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	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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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

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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:

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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.
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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
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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

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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

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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%
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4	Final Theoretical Exam	16 th	50	50%

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

IX. Learning Resources:

1- Required Textbook(s):

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

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7	Other policies: The University official regulations in force will be strictly observed and students shall comply

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

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