

Republic of Yemen

Ministry of Higher Education & Scientific Research

21 SEPTEMBER UNIVERSITY of MEDICALS & APPLIEED

SCIENCES



Program Anesthesia Technician

Course Specification of Practicum Seminar in Anesthesia Practices

Course No. (08 02 835)

2024

Prepared by:	Reviewed by:	Head of the Department:	Quality Unit:	Dean
Dr. Morsal.AL-Najir	Dr. Fahmi AL- abasi	Dr.Fares Mahdi	Dr.Fadl Shujaa Al-deen	Dr. Abdulsalam Dallak

Template for Course Specification

I. Course Identification and General Information:				
1	Course Title:	Practicum Seminar in Anesthesia Practices		
2	Course Code & Number:	08 02. 835		
3	Credit Hours:	Credit Hours	Theory Hours	
			Lecture	Field
		4	2	2
4	Study Level/ Semester at which this Course is offered:	Level4/2term		
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-absai		
13	Date of Approval:	2024-1446 ^{ah}		

Prepared by:	Reviewed by:	Head of the Department:	Quality Unit:	Dean
Dr. Morsal.AL-Najir	Dr. Fahmi AL- abasi	Dr.Fares Mahdi	Dr.Fadl Shujaa Al-deen	Dr. Abdulsalam Dallak

II. Course Description:

This course offers an in-depth exploration of practical seminars in anesthesia, focusing on both theoretical foundations and hands-on applications. Participants will engage in interactive sessions that cover essential topics such as pharmacology, anesthesia techniques, patient assessment, and management of anesthesia-related complications

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	Identify ethical and legal considerations in anesthesia practice, including informed consent, patient autonomy, and risk management.	A1	. Recognize the knowledge from nursing science, other sciences and disciplines to make judgments relative to the practice of nursing that is based on research findings and evidence.
a2	Recognize and manage potential intraoperative complications and emergencies related to anesthesia, demonstrating the ability to perform critical interventions when necessary.	A4	Synthesize theories and concepts from liberal education to build an understanding of the human experience into nursing practice
a3	Demonstrate effective communication and collaboration with surgical teams, nursing staff, and other healthcare professionals to ensure optimal patient care before, during, and after anesthesia.	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	Evaluate current literature and research to support evidence-based practices in anesthesia, integrating new findings into clinical decision-making.	B2	Value the ideal of lifelong learning to support excellence in nursing practice
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b2	Effectively assess patient medical history, physical examination findings, and relevant laboratory results to formulate an anesthesia plan tailored to individual patient needs.	B3	Utilize awareness, interest and contribute towards advancement of self and of the profession
C. Professional and Practical Skills: Upon successful completion of the course, students will be able to:			
c1	Develop proficiency in utilizing and interpreting patient monitoring equipment during anesthesia administration, including vital signs, invasive monitoring, and advanced monitoring technologies.	C1	Practice as a professional nurse to facilitate human need fulfillment of individuals, families, groups, communities and populations across the lifespan in a variety of healthcare settings
c2	Gain hands-on experience in the preparation and administration of anesthetic agents, adhering to safety protocols and identifying potential adverse reactions.	C2	Apply concepts and skills of leadership, management, quality improvement and patient safety in the delivery of high-quality therapeutic nursing interventions for individuals, families, groups, communities
C3	Reflect on personal learning and development throughout the course, setting goals for future learning and practice in the field of anesthesia.	C3	Apply concepts and skills of leadership, management, quality improvement and patient safety in the delivery of high-quality therapeutic nursing interventions for individuals, families, groups, communities
D. Transferable Skills: Upon successful completion of the course, students will be able to:			
d1	Adhere to ethical and professional standards in all clinical interactions and documentation.	D1	Communicate effectively with individuals and groups and members of the health team in order to promote effective interpersonal relationships and teamwork
d2	Communicate clearly and compassionately with patients, families, and healthcare team members.	D2	Demonstrate professional, ethical, moral, legal, and spiritual concepts into one's practice within a global environment

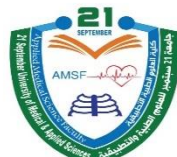
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Dr. Morsal.AL-Najir	Dr. Fahmi AL- abasi	Dr.Fares Mahdi	Dr.Fadl Shujaa Al-deen	Dr. Abdulsalam Dallak

(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	Identify ethical and legal considerations in anesthesia practice, including informed consent, patient autonomy, and risk management.	- 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	Recognize and manage potential intraoperative complications and emergencies related to anesthesia, demonstrating the ability to perform critical interventions when necessary.	- 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	Demonstrate effective communication and collaboration with surgical teams, nursing staff, and other healthcare professionals to ensure optimal patient care before, during, and after anesthesia.	- 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

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b1	Evaluate current literature and research to support evidence-based practices in anesthesia, integrating new findings into clinical decision-making.	- Interactive lecture - Brain storming - Role-play & simulation - Small group discussions - Seminars and student presentations	- Assignments - Quizzes - Mid-term Exam - Final exam
b2	Effectively assess patient medical history, physical examination findings, and relevant laboratory results to formulate an anesthesia plan tailored to individual patient needs.	- 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	Develop proficiency in utilizing and interpreting patient monitoring equipment during anesthesia administration, including vital signs, invasive monitoring, and advanced monitoring technologies.	- Active learning, - Small group learning. - Learning tasks and activities	- Assignments - Quizzes - Mid-term Exam - Final exam
c2	Gain hands-on experience in the preparation and administration of anesthetic agents, adhering to safety protocols and identifying potential adverse reactions.	- Active learning, - Small group learning. - Learning tasks and activities	- Assignments - Quizzes - Mid-term Exam - Final exam
C3	Reflect on personal learning and development throughout	- Active learning, - Small group learning.	- Assignments - Quizzes

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	the course, setting goals for future learning and practice in the field of anesthesia.	Learning tasks and activities	- 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	Adhere to ethical and professional standards in all clinical interactions and documentation.	- Classroom discussions, - Problems solving - Case study analysis	- Presentations - Case Studies - Learning activities
d2	Communicate clearly and compassionately with patients, families, and healthcare team members.	- Classroom discussions, - Problems solving - Case study analysis	- Presentations - Case Studies - Learning activities

IV. Course Contents:

A. Theoretical Aspect:

No.		Sub Topics List	Number of Weeks	Contact Hours	Learning Outcomes (CLOs)
1	Introduction to Anesthesia	Introduction to Anesthesia: Overview of anesthesia types (general, regional, local) and their indications.	1	2	a1, d2
2	Pharmacology of Anesthetics	Pharmacology of Anesthetics: Study of anesthetic agents, their mechanisms of action, side effects, and contraindications.	1	2	a1, b1

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		Patient Assessment: Techniques for evaluating patient health status, including medical history, physical examination, and anesthetic risk assessment.			
3	Preoperative Considerations: Guidelines for pre-anesthesia	Preoperative Considerations: Guidelines for pre-anesthesia consultations, informed consent, and risk management. Monitoring Techniques: Instruction on monitoring vital signs, oxygenation, ventilation, and other important parameters during anesthesia.	1	2	a1, b1, c1, d1
4	Induction and Maintenance of	Induction and Maintenance of Anesthesia: Hands-on training on how to safely induce and maintain anesthesia in various surgical settings.	1	1	a1, c1, d1
5	Regional Anesthesia Techniques	Regional Anesthesia Techniques: Practical sessions on nerve blocks and epidural anesthesia, including ultrasound techniques where applicable.	1	2	a1, b1, c1, d1
6		exam	1	2	
7	Post-Anesthesia Care:	1. Post-Anesthesia Care: Management of patients in the recovery phase, including pain management and monitoring for complications. 2. Emergency Situations: Simulation of critical scenarios (e.g., airway management, cardiac arrest)	1	2	a2, b2, c2, d2

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		and appropriate responses.			
8	Ethics and Professionalism	Ethics and Professionalism: Discussions on ethical considerations, communication with patients, and interprofessional collaboration in anesthesia care.	1	2	a2, c2, d2
9		Current Trends and Research in Anesthesia: Exploration of advancements in anesthesia techniques, safety protocols, and ongoing research	1	2	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	: Regional Anesthesia Techniques	4	7	C1.c2.c3
	Preoperative Considerations: Guidelines for pre-anesthesia	3	7	C1.c3.c2
Number of Weeks /and Units Per Semester		7	14	

C. Tutorial Aspect:				
No.	Tutorial	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
1	None			

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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

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:

Prepared by:	Reviewed by:	Head of the Department:	Quality Unit:	Dean
Dr. Morsal.AL-Najir	Dr. Fahmi AL- abasi	Dr.Fares Mahdi	Dr.Fadl Shujaa Al-deen	Dr. Abdulsalam Dallak



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%	

Written in the following order: Author, Year of publication, Title, Edition, Place of publication, Publisher.
• Anesthesiology: A Comprehensive Review by Neeraj D. Khemani and others ○ A thorough review resource containing questions and answers for board preparation. • Morgan and Mikhail's Clinical Anesthesiology by John F. Butterworth IV, David C. Mackey, and James D. Wasnick ○ An authoritative text covering the fundamental principles and practice of anesthesiology. • Clinical Anesthesia by Paul G. Barash, Bruce F. Cullen, and Robert K. Stoelting ○ This book offers an integrated approach to anesthesia practices and techniques.

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• Basics of Anesthesia by Ronald D. Miller and Manuel P. Pardo ◦ A simplified approach to anesthesia, focusing on essential principles and techniques. • Anesthesia Secrets by Laura L. P. E. McGowan and Michael J. E. McGowan ◦ A quick reference guide that uses a question-and-answer format to cover key concepts in anesthesia.
• Fundamentals of Anesthesia by Lionel E. Richman ◦ This text provides a clear understanding of anesthesia principles and practices. • Anesthesia for the High-Risk Patient by Steven D. Wexner and others ◦ Focuses on anesthesia management for patients with complex medical needs. • Chestnut's Obstetric Anesthesia: Principles and Practice by David H. Chestnut ◦ A key resource for anesthetic practice in obstetrics. • A Practical Approach to Anesthesia by K. H. W. H. M. Rasooly ◦ Offers pragmatic approaches and guidelines for various anesthesia scenarios. • Anesthesia Drugs Handbook by Kristine D. K. Kietzman ◦ A user-friendly reference for understanding the pharmacology of anesthetic agents
◦ Web site
•

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.

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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 Practicum Seminar in Anesthesia Practices

code. (08 02 835)

Prepared by:	Reviewed by:	Head of the Department:	Quality Unit:	Dean
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2024

Template for Course Syllabus

i. معلومات عن أستاذ المقرر Information about Faculty Member Responsible for the Course						
الاسم Name		Dr. Morsal.AL-Najir		الساعات المكتبية (أسبوعياً) Office Hours		(3 / أسبوعياً)
المكان ورقم الهاتف Location & Telephone No.		777665495		السبت SAT	الأحد SUN	الاثنين MON
البريد الإلكتروني E-mail				الثلاثاء TUE	الأربعاء WED	الخميس THU
I. Course Identification and General Information:						
1	Course Title:		Practicum Seminer in Anesthesia Practices			
2	Course Code & Number:		08 02 835			
3	Credit Hours:		Credit Hours	Theory Hours		Lab. Hours
				Lecture	Field	
			2	2	--	--
4	Study Level/ Semester at which this Course is offered:		Level4\2term1			
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			

Prepared by:	Reviewed by:	Head of the Department:	Quality Unit:	Dean
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11	location of teaching the course:	faculty of medical applied science
12	prepared by:	dr. Morsal.AL-Najir
13	date of approval:	2024-1446 ^{ah}

ii. course description:

This course offers an in-depth exploration of practical seminars in anesthesia, focusing on both theoretical foundations and hands-on applications. Participants will engage in interactive sessions that cover essential topics such as pharmacology, anesthesia techniques, patient assessment, and management of anesthesia-related complications.

course intended learning outcomes (ciolos)

a1	Identify ethical and legal considerations in anesthesia practice, including informed consent, patient autonomy, and risk management.
a2	Recognize and manage potential intraoperative complications and emergencies related to anesthesia, demonstrating the ability to perform critical interventions when necessary.
a3	Demonstrate effective communication and collaboration with surgical teams, nursing staff, and other healthcare professionals to ensure optimal patient care before, during, and after anesthesia.
b1	Evaluate current literature and research to support evidence-based practices in anesthesia, integrating new findings into clinical decision-making.
b2	Effectively assess patient medical history, physical examination findings, and relevant laboratory results to formulate an anesthesia plan tailored to individual patient needs.
c1	Develop proficiency in utilizing and interpreting patient monitoring equipment during anesthesia administration, including vital signs, invasive monitoring, and advanced monitoring technologies.
c2	Gain hands-on experience in the preparation and administration of anesthetic agents,

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	adhering to safety protocols and identifying potential adverse reactions.
C3	Reflect on personal learning and development throughout the course, setting goals for future learning and practice in the field of anesthesia.
d1	Adhere to ethical and professional standards in all clinical interactions and documentation.
d2	Communicate clearly and compassionately with patients, families, and healthcare team members.

IV. Course Contents:					
A. Theoretical Aspect:					
No.		Sub Topics List	Number of Weeks	Contact Hours	Learning Outcomes (CLOs)
1	Introduction to Anesthesia	Introduction to Anesthesia: Overview of anesthesia types (general, regional, local) and their indications.	1	2	a1, d2
2	Pharmacology of Anesthetics	Pharmacology of Anesthetics: Study of anesthetic agents, their mechanisms of action, side effects, and contraindications. Patient Assessment: Techniques for evaluating patient health status, including medical history, physical examination, and anesthetic risk assessment.			
3		Preoperative Considerations: Guidelines for pre-anesthesia consultations, informed consent, and risk management.	1	2	a1, b1, c1, d1

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		Monitoring Techniques: Instruction on monitoring vital signs, oxygenation, ventilation, and other important parameters during anesthesia.			
4	Induction and Maintenance of	Induction and Maintenance of Anesthesia: Hands-on training on how to safely induce and maintain anesthesia in various surgical settings.	1	2	a1, c1, d1
5	Regional Anesthesia Techniques	Regional Anesthesia Techniques: Practical sessions on nerve blocks and epidural anesthesia, including ultrasound techniques where applicable.			
6		exam	1	2	
7	Post-Anesthesia Care:	Post-Anesthesia Care: Management of patients in the recovery phase, including pain management and monitoring for complications. Emergency Situations: Simulation of critical scenarios (e.g., airway management, cardiac arrest) and appropriate responses.	1	2	a2, b2, c2, d2
8	Ethics and Professionalism	Ethics and Professionalism: Discussions on ethical considerations, communication with patients, and interprofessional collaboration in anesthesia care.	1	2	a2, c2, d2
9		Current Trends and Research in Anesthesia: Exploration of advancements in anesthesia			

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		techniques, safety protocols, and ongoing research			
	Final term exam	Final term exam	1	2	a2, b2, c2, d2
Number of Weeks /and Units Per Semester			7	14	

C. Tutorial Aspect:

No.	Tutorial	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
1	Introduction to Anesthesia	1	2	a1, c1, d1
2	Pharmacology of Anesthetics	1	2	C1.c2.c3
3	Induction and Maintenance of	1	2	C1.c2.c3
4	: Regional Anesthesia Techniques	1	2	C1.c2.c3
6	Post-Anesthesia Care:	2	4	C1.c2.c3
7	Ethics and Professionalism	1	2	C1.c2.c3
Number of Weeks /and Units Per Semester		7	14	

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:

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Dr. Morsal.AL-Najir	Dr. Fahmi AL- abasi	Dr.Fares Mahdi	Dr.Fadl Shujaa Al-deen	Dr. Abdulsalam Dallak

- 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

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4	Final Theoretical Exam	W16	60	60%	a2, b2, c2, d2
Total			100	100%	

IX. Learning Resources:

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

- **Anesthesiology: A Comprehensive Review** by Neeraj D. Khemani and others
 - A thorough review resource containing questions and answers for board preparation.
- **Morgan and Mikhail's Clinical Anesthesiology** by John F. Butterworth IV, David C. Mackey, and James D. Wasnick
 - An authoritative text covering the fundamental principles and practice of anesthesiology.
- **Clinical Anesthesia** by Paul G. Barash, Bruce F. Cullen, and Robert K. Stoelting
 - This book offers an integrated approach to anesthesia practices and techniques.
- **Basics of Anesthesia** by Ronald D. Miller and Manuel P. Pardo
 - A simplified approach to anesthesia, focusing on essential principles and techniques.
- **Anesthesia Secrets** by Laura L. P. E. McGowan and Michael J. E. McGowan

A quick reference guide that uses a question-and-answer format to cover key concepts in anesthesia.

- **Fundamentals of Anesthesia** by Lionel E. Richman
 - This text provides a clear understanding of anesthesia principles and practices.
- **Anesthesia for the High-Risk Patient** by Steven D. Wexner and others
 - Focuses on anesthesia management for patients with complex medical needs.
- **Chestnut's Obstetric Anesthesia: Principles and Practice** by David H. Chestnut
 - A key resource for anesthetic practice in obstetrics.

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- **A Practical Approach to Anesthesia** by K. H. W. H. M. Rasooly
 - Offers pragmatic approaches and guidelines for various anesthesia scenarios.
- **Anesthesia Drugs Handbook** by Kristine D. K. Kietzman
A user-friendly reference for understanding the pharmacology of anesthetic agents

Web site

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.

Prepared by:	Reviewed by:	Head of the Department:	Quality Unit:	Dean
Dr. Morsal.AL-Najir	Dr. Fahmi AL- abasi	Dr.Fares Mahdi	Dr.Fadl Shujaa Al-deen	Dr. Abdulsalam Dallak



Prepared by:	Reviewed by:	Head of the Department:	Quality Unit:	Dean
Dr. Morsal.AL-Najir	Dr. Fahmi AL- abasi	Dr.Fares Mahdi	Dr.Fadl Shujaa Al-deen	Dr. Abdulsalam Dallak