

Republic of Yemen

Ministry of Higher Education & Scientific Research

Council of Academic Accreditation & Quality Assurance of Higher
Education (CAQA)

21 September University of Medical and applied Sciences



Faculty of Medical Applied Science

Program Anesthesia Technician

Course Specification of

Applied pharmacology

Course Code. (02 01 827)

2024



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

Prepared by:	Reviewed by:	Head of the Department:	Quality Unit:	Dean
Dr. Ally Al-yahwi	Dr. abdulala thabet	Dr Fares Mahdi	Dr horia al sabri	Dr : Abdulsalam Dallak

I. Course Identification and General Information:

1	Course Title:	Applied pharmacology		
2	Course Code & Number:	02 01 827		
3	Credit Hours:	Credit Hours	Theory Hours	
			Lecture	Exercise
		2	2	
4	Study Level/ Semester at which this Course is offered:	Level.2 / 2 Semester		
5	Pre –Requisite (if any):	Basic Pharmacy		
6	Co –Requisite (if any):	no		
7	Program (s) in which the Course is Offered:	Bachelor of Anesthesia Technician		
8	Language of Teaching the Course:	English		
9	Study System:	Regular (semester)		
10	Mode of Delivery:	Full Time		
11	Location of Teaching the Course:	Faculty of Medical Applied Science		
12	Prepared by:	Dr. Ally Al-yahwi		
13	Date of Approval:	2024		

II. Course Description:

This course is designed to provide the students with the principles of pharmacology with a special emphasis on the treatment of patients in emergency condition. It will give an overview of pharmacology, including drugs that affect the gastrointestinal system, eye and ear, neoplastic diseases, reproductive, endocrine, immunologic and infectious disease and inflammation, anti-inflammatory & nonsteroidal anti-inflammatory drugs.

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

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a1	Identify medications used in emergency care that affect the gastrointestinal, eye and ear, and endocrine, including use, action, side effects, and emergency implications.	A1	Demonstrate the concepts and principles of anesthesia and different basic and humanities courses and its applications in anesthesia practice
a2	Outline drug actions and care considerations for a patient who is given drugs that affect reproductive, infections and immunologic system	A4	Demonstrate knowledge of the basic general pharmacodynamics and pharmacokinetics of drugs at all age groups and the pharmacology of all anaesthetic
B. Intellectual Skills: Upon successful completion of the course, students will be able to:			
b1	Demonstrate the pharmacologic effects of different drug classes	B1	integrate assessment data to formulate anesthesia diagnosis.
b2	Describe signs and symptoms of drug side effects in patients with different conditions	B2	Synthesize knowledge derived from, medical, anesthesia, basic sciences and humanities courses into the practice of anesthesia
C. Professional and Practical Skills: Upon successful completion of the course, students will be able to:			
c1	Collaborate with other health care professions to prescribe the suitable treatment for specific illnesses	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)
C2	Apply the knowledge of the basic principles & concepts of pharmacology to clinically relevant situations.	C4	Apply knowledge of drugs, administration techniques and regional anesthesia in the care of acute postoperative pain and chronic pain and Demonstrate an approach to common recovery room problems (eg. pain, nausea, hypotension, and hypertension).
D. Transferable Skills: Upon successful completion of the course, students will be able to:			
d1	Apply the principles of therapeutic communication with patient and families	D3	Achieve computer skills necessary to make of medical data bases and use the internet for communication and write scientific articles

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			according to the basics of scientific research
d2	Incorporate ethical and legal decisions in the providing of emergency drugs.	D2	Exhibit strong ethics and personal integrity inside and outside the operating room and in all professional pursuits

(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 medications used in emergency care that affect the gastrointestinal, eye and ear, and endocrine, including use, action, side effects, and emergency implications.	- 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	Outline drug actions and care considerations for a patient who is given drugs that affect reproductive, infections and immunologic system	- 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	Demonstrate the pharmacologic effects of different drug classes	- Interactive lecture - Brain storming - Role-play & simulation - Small group discussions - Seminars and student presentations	- Assignments - Quizzes - Mid-term Exam - Final exam
b2	Describe signs and symptoms of drug side effects in patients with different conditions	- Interactive lecture - Brain storming - Role-play & simulation - Small group discussions - Seminars and student presentations	- Assignments - Quizzes - Mid-term Exam - Final exam

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(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 Collaborate with other health care professions to prescribe the suitable treatment for specific illnesses	- Case-Based Learning - Clinical teaching & learning - Laboratory work - Role plays & simulation - Small group discussion - Seminar (Discussions) - Practice session - Problems solving	- Assignments - Practical/Clinical examination - Reports (Lab Reports.) - Lab work - Assessment of skills with checklist
c2 Apply the knowledge of the basic principles & concepts of pharmacology to clinically relevant situations.	- Case-Based Learning - Clinical teaching & learning - Laboratory work - Role plays & simulation - Small group discussion - Seminar (Discussions) - Practice session - Problems solving	- Assignments - Practical/Clinical examination - Reports (Lab Reports.) - Lab work - Assessment of skills with checklist

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

Course Intended Learning Outcomes	Teaching Strategies	Assessment Strategies
d1 Apply the principles of therapeutic communication with patient and families	- Classroom discussions, - Problems solving - Case study analysis	- Presentations - Case Studies - Learning activities
d2 Incorporate ethical and legal decisions in the providing of emergency drugs.	- Classroom discussions, - Problems solving - Case study analysis	- Presentations - Case Studies - Learning activities

IV. Course Contents:

A. Theoretical Aspect:

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No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours	Learning Outcomes (CLOs)
1	Drugs that affect the gastrointestinal system	▪ Drugs that affect the stomach ○ Antacids ○ Antiflatulents ○ Digestants ○ Emetics and antiemetics ○ Proton pump inhibitors ○ Cytoprotective agents ○ H2-receptor antagonists ○ Proton pump inhibitors ▪ Drugs that affect the lower gastrointestinal tract ○ Laxatives – Antidiarrheal drugs	2	4	a1, b1, c1, d1
2	Drugs that affect the eye and ear	▪ Drugs that affect the eye ○ Antiglaucoma agents ○ Mydriatic and cycloplegic agents ○ Anti-infective/anti-inflammatory agents ○ Topical anesthetic agents ▪ drugs that affect the ear	2	4	a1, b1, c1, d1
3	Drugs that affect the endocrine system	Drugs that affect the endocrine system ▪ Drugs that affect the pituitary gland ▪ Drugs that affect the thyroid and parathyroid glands ▪ Drugs that affect the adrenal cortex ▪ Drugs that affect the pancreas – Hormones of the pancreas	2	4	a1, b1, c1, d1
4	Midterm exam	– Midterm exam	1	2	a1, b1, c1, d1
5	Drugs that affect the reproductive system	▪ The female reproductive system ○ Female sex hormones ○ Oral contraceptives ○ Ovulatory stimulants and infertility drugs ▪ The male reproductive system ▪ Drugs that affect sexual behavior ○ Drugs that impair libido and sexual gratification ○ Drugs that enhance libido and sexual gratification	2	4	a2, b2, c2, d2

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6	Drugs used in neoplastic diseases	✓ Antineoplastic agents	1	2	b2, c2, d2
7	Drugs used in infectious disease	▪ Antibiotics ○ Penicillins ○ Cephalosporins ○ Macrolide antibiotics ○ Tetracyclines ○ Fluoroquinolones ▪ Antifungal and antiviral drugs ○ Antifungal drugs ○ Antiviral drugs ○ Protease inhibitors ▪ Other antimicrobial drugs and antiparasitic drugs	3	6	a2, b2, c2, d2
8	Anti-inflammatory & nonsteroidal anti-inflammatory drugs	▪ Anti-inflammatory & nonsteroidal anti-inflammatory drugs ○ Inflammation ○ Analgesic-antipyretic drugs – Nonsteroidal anti-inflammatory drugs	1	2	b2, c2, d2
9	Drugs that affect the immunologic system	▪ Drugs used to treat the immune system ○ Immunosuppressants ○ Immunomodulating agents – Serums and vaccines	1	2	a2, b2, c2, d2
10	Final exam	– Final theoretical written 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				

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C. Tutorial Aspect:

No.	Tutorial	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
1	None			
Number of Weeks /and Units Per Semester		15	30	

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
- inal term exam

VII. Assignments:

No.	Assignments	Week Due	Mark	Aligned CILOs (symbols)
1	Assignment 1: Regulation of body fluid	W5	5	a1, b1
2	Assignment 2: Type of joints	W11	5	a2, b2,
Total			10	
VII. Assignments:				

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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	Assignments	W5,11	5	10%	a1, b1, a2, b2
2	Quizzes 1 & 2	W3, 9	5	10%	a1, a2
3	Mid-Term Theoretical Exam	W7	20	20%	a1, b1, c1, d1
4	Final Theoretical Exam	W16	70	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.

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

- Robert J. Kizior R., and Hodgson K., (2019). Saunders Nursing Drug Handbook. 27th Ed. Saunders Nursing Drug Handbook, St. Louis, Missouri
- Watkins C., (2018). Pharmacology clear & simple : a guide to drug classifications and dosage calculations. 3rd Ed. Davis Company

2- Essential References:

- Burchum J., and Rosenthal L., (2019).Lehne's Pharmacology for Nursing Care. 10th Ed., Elsevier Inc. St. Louis, Missouri
- Bryant B., & Knights K., (2015). Pharmacology for health professionals. 4th Edition; Elsevier Australia.

3- Electronic Materials and Web Sites etc.:

Websites:

2-

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

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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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Second Part of Course Specification

Program of **Anesthesia Technician**

Course Specification of Applied pharmacology

; **Course Code** (02 01 827)

2024

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Course Plan (Syllabus) of

Course. (02 01 827)

I. Information about Faculty Member Responsible for the Course:						
Name of Faculty Member:	Dr. Ally Al-yahwi					
Location & Telephone No.:	775957401					
E-mail:		SAT	SUN	MON	TUE	WED THU
Office Hours	2					

I. Course Identification and General Information:				
1	Course Title:	Applied pharmacology		
2	Course Code & Number:	02.03.417		
3	Credit Hours:	Credit Hours	Theory Hours Lecture Exercise	Lab. Hours
		2	2	
4	Study Level/ Semester at which this Course is offered:	Level.2 / 2 Semester		
5	Pre –Requisite (if any):	No		
6	Co –Requisite (if any):	No		
7	Program (s) in which the Course is Offered:	Bachelor of Anesthesia Technician		
8	Language of Teaching the Course:	English		
9	Study System:	Regular (semester)		
10	Mode of Delivery:	Full Time		
11	Location of Teaching the Course:	Faculty of Medical Applied Science		
12	Prepared by:	Dr. Ally Al-yahwi		
13	Date of Approval:	2024		

Prepared by:	Reviewed by:	Head of the Department:	Quality Unit:	Dean
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II. Course Description:

This course is designed to provide the students with the principles of pharmacology with a special emphasis on the treatment of patients in emergency condition. It will give an overview of pharmacology, including drugs that affect the gastrointestinal system, eye and ear, neoplastic diseases, reproductive, endocrine, immunologic and infectious disease and inflammation, anti-inflammatory & nonsteroidal anti-inflammatory drugs.

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 medications used in emergency care that affect the gastrointestinal, eye and ear, and endocrine, including use, action, side effects, and emergency implications. |
| a2 | Outline drug actions and care considerations for a patient who is given drugs that affect reproductive, infections and immunologic system |

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

- | | |
|----|--|
| b1 | Demonstrate the pharmacologic effects of different drug classes |
| b2 | Describe signs and symptoms of drug side effects in patients with different conditions |

C. Professional and Practical Skills: Upon successful completion of the course, students will be able to:

- | | |
|----|---|
| c1 | Collaborate with other health care professions to prescribe the suitable treatment for specific illnesses |
| c2 | Apply the knowledge of the basic principles & concepts of pharmacology to clinically relevant situations. |

D. Transferable Skills: Upon successful completion of the course, students will be able to:

- | | |
|----|--|
| d1 | Apply the principles of therapeutic communication with patient and families |
| d2 | Incorporate ethical and legal decisions in the providing of emergency drugs. |

IV. Course Contents:

A. Theoretical Aspect:

No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours
1	Drugs that affect the	▪ Drugs that affect the stomach	2	4

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	gastrointestinal system	○ Antacids ○ Antiflatulents ○ Digestants ○ Emetics and antiemetics ○ Proton pump inhibitors ○ Cytoprotective agents ○ H₂-receptor antagonists ○ Proton pump inhibitors ▪ Drugs that affect the lower gastrointestinal tract ○ Laxatives – Antidiarrheal drugs		
2	Drugs that affect the eye and ear	▪ Drugs that affect the eye ○ Antiglaucoma agents ○ Mydriatic and cycloplegic agents ○ Anti-infective/anti-inflammatory agents ○ Topical anesthetic agents ▪ drugs that affect the ear	2	4
3	Drugs that affect the endocrine system	Drugs that affect the endocrine system ▪ Drugs that affect the pituitary gland ▪ Drugs that affect the thyroid and parathyroid glands ▪ Drugs that affect the adrenal cortex ▪ Drugs that affect the pancreas ▪ Hormones of the pancreas	2	4
4	Midterm exam	– Midterm exam	1	2
5	Drugs that affect the reproductive system	▪ The female reproductive system ○ Female sex hormones ○ Oral contraceptives ○ Ovulatory stimulants and infertility drugs ▪ The male reproductive system ▪ Drugs that affect sexual behavior ○ Drugs that impair libido and sexual gratification ○ Drugs that enhance libido and sexual gratification	2	4
6	Drugs used in neoplastic diseases	– Antineoplastic agents	1	2
7	Drugs used in infectious disease	▪ Antibiotics ○ Penicillins ○ Cephalosporins ○ Macrolide antibiotics ○ Tetracyclines ○ Fluoroquinolones	3	6

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		- Antifungal and antiviral drugs - Antifungal drugs - Antiviral drugs - Protease inhibitors - Other antimicrobial drugs and antiparasitic drugs		
8	Mid-Term Theoretical Exam		1	2
9	Anti-inflammatory & nonsteroidal anti-inflammatory drugs	- Anti-inflammatory & nonsteroidal anti-inflammatory drugs - Inflammation - Analgesic-antipyretic drugs - Nonsteroidal anti-inflammatory drugs	1	2
10	Drugs that affect the immunologic system	- Drugs used to treat the immune system - Immunosuppressants - Immunomodulating agents - Serums and vaccines	1	2
11	Final exam	Final theoretical written exam	1	2
12	Final Theoretical Exam			
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				

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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
1	Assignment 1: Regulation of body fluid	W5	5
2	Assignment 2: Type of joints	W11	5
3			10
Total			

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

No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment
1	Assignments	W5,11	10	10%

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2	Quizzes 1 & 2	W3, 9	10	10%
3	Mid-Term Theoretical Exam	W7	20	20%
4	Final Theoretical Exam	W16	60	60%
Total			100	100%

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Websites:

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