Course description form

Teacher's: Theoretical parts Asst. prof. Dr. Hassan Abdullah Athbi

Practical parts Dr. Noor Dehyaa Hassan

Course Name: Applied Physiology

Course Description

This course description provides a summary necessary to understand the characteristics of the course and the learning outcomes the student is expected to achieve, demonstrating whether he or she has made the most of the learning opportunities available.

1-Educational institution	Al Zahraa University of women College of health Techninology
2-Scientific Department/Center	Anesthesia department
3-Course name/code	
4-Available attendance forms	Lectures
5-Semester/year	First Semester 2025-2024
6-Number of study hours (total)	Official working hours
7-Date this description was prepared	30-11-2024
8-Course objectives	-Identifying the functions of different body systems.
	- Describe the mechanism of operation of the various body

systems and the sequence of physiological events accompanying them.

- To distinguish between normal and abnormal functions of different body systems
- Expanding knowledge through periodicals, medical books and the Internet

9-Course outcomes and teaching, learning and evaluation methods

A- Cognitive objectives Students learned the physiology of the body and its working mechanism from the theoretical side and learned about physiological tests from the practical side

B - The skills objectives of the course

Methods of dealing with laboratory animals and scientific equipment - How to use chemical and physical materials - Developing students' cognitive skills and deepening the spirit of research and discovery - Acquiring human clinical examination skills

C- Emotional and value goals make Learning the basics of human physiology and its various vocabulary. - Deepening the student's self-confidence - Creating a creative professor who loves the teaching profession - Developing students' experimental skills and deepening the spirit of cooperation, teamwork and exploration - Stimulating and bringing out the energy within female students - Stimulating the feeling of the importance of learning among female students

D - Transferable general and qualifying

The student should cooperate with his colleagues and professors in an atmosphere

of friendliness and understanding

- -2 To work with his peers as a team
- -3 To interact with them on scientific trips and learning methods
- 4- Use interactive explanation by using the smart interactive whiteboard

Teaching and learning methods explain the aims and objective of lecture give some clinical problems and encourage for seminar presentation by students

Evaluation methods by different examination in same lecture and in monthly time

10- Structure of the course /Theoretical syllabus

The Week	Hours	Required learning outcomes	Name of the unit/topic	Teaching method	Evaluation method
1 st	2	Electrical components and activity of the heart	Electrical components and activity of the heart	Theoretical lectures	Daily exam
2 nd	2	The cardiac action potential in ventricular muscle and pace maker tissues	The cardiac action potential in ventricular muscle and pace maker tissues	Theoretical lecture	Daily exam
3 rd	2	Contractile cardiomyocytes and excitation – contraction coupling	Contractile cardiomyocytes and excitation – contraction coupling	Theoretical lectures	Daily exam
4 th	2	ECG and arrhythmia	ECG and arrhythmia	Theoretical lectures	Daily exam

5 th	2	Cardiac cycle	Cardiac cycle	theoretical lecture	Daily exam
6 th	2	Heart sound and waveform generated during cardiac cycle	Heart sound and waveform generated during cardiac cycle	theoretical lecture	Daily exam
7 th		The left ventricle pressure volume loop	The left ventricle pressure volume loop		
8 th	2	Cardiac innervations and control of heart rate	Cardiac innervations and control of heart rate	Theoretical lecture	Daily exam
9 th	2	Cardiac reflexes	Cardiac reflexes	Theoretical Lecture	Daily exam
10 th	2	Systemic circulation	Systemic circulation	Theoretical Lecture	Daily exam
11 th	2	Blood pressure regulation	Blood pressure regulation	Theoretical Lecture	Daily exam
12 th	2	Physiology of microcirculation (starling law of	Physiology of microcirculation (starling law of	Theoretical	Daily exam

		capillary)	capillary)	Lecture	
13 th	2	Venous circulation and venous return	Venous circulation and venous return	Theoretical Lecture	Daily exam
14th	2	Coronary circulation	Coronary circulation	Theoretical Lecture	Daily exam
15 th	2	Spirometry and lung volumes	Spirometry and lung volumes	Theoretical Lecture	Daily exam

Structure of the course /practical syllabus

The Week	Hours	Required learning outcomes	Name of the unit/topic	Teaching method	Evaluation method
1 st	2	Electrical components and activity of the heart	Electrical components and activity of the heart	Practical lectures	Daily exam
2 nd	2	The cardiac action potential in ventricular muscle and pace maker tissues	The cardiac action potential in ventricular muscle and pace maker tissues	Practical lectures	Daily exam

3 rd	2	Contractile cardiomyocytes and excitation – contraction coupling	Contractile cardiomyocytes and excitation – contraction coupling	Practical lectures	Daily exam Daily exam
4 th	2	ECG and arrhythmia	ECG and arrhythmia	Practical lectures	Daily exam
5 th	2	Cardiac cycle	Cardiac cycle	Practical lectures	Daily exam
6 th	2	Heart sound and waveform generated during cardiac cycle	Heart sound and waveform generated during cardiac cycle	Practical lectures	Daily exam
7 th	2	The left ventricle pressure volume loop	The left ventricle pressure volume loop	Practical lectures	Daily exam
8 th	2	Cardiac innervations and control of heart rate	Cardiac innervations and control of heart rate	Practical lectures	Daily exam
9 th	2	Cardiac reflexes	Cardiac reflexes	Practical lectures	Daily exam

10 th	2	Systemic circulation	Systemic circulation	Practical lectures	Daily exam
11 th	2	Blood pressure regulation	Blood pressure regulation	Practical lectures	Daily exam
12 th	2	Physiology of microcirculation (starling law of capillary)	Physiology of microcirculation (starling law of capillary)	Practical lectures	Daily exam
13 th	2	Venous circulation and venous return	Venous circulation and venous return	Practical lectures	Daily exam
14 th	2	Coronary circulation	Coronary circulation	Practical lectures	Daily exam
15 th	2	Spirometry and lung volumes.	Spirometry and lung volumes	Practical lectures	Daily exam

10- Infrastructures

A-Required prescribed books	Medical physiology and general physiology book
1-Main references (sources)	 Sembulingam, K., and Sembulingam, P. (2019). Essential of medical physiology. Eighth Edition. Jaypee Brothers Medical Publishers (P) Ltd. India. Miller, R. D., & Eriksson, L. I. (2020). Miller's Anesthesia (9th ed.). Elsevier. A comprehensive guide covering anesthesia techniques, including apneic oxygenation.
2-Recommended books and references (scientific journals, reports,)	Barash, P. G., Cullen, B. F., & Stoelting, R. K. (2021). Clinical Anesthesia (9 th ed.). Wolters Kluwer.Discusses airway management, oxygenation strategies, and complications like diffusion hypoxia.
B - Electronic references,Internet sites	Free full, science direct, pub med

11- Course development plan

Changing some of the vocabulary of the subject according to the global updates used in developing general physiology. Using deductive questions and questions whose answers require deep or outside-the-box thinking to motivate students to know the extent of their capabilities and mental abilities in deducing and arriving at conclusions. Also, using the research lecture method instead of the theoretical lecture, and identifying the extent to which female students can access the largest number of information about the subject, become familiar with it, and discuss research within the class, in order to create a generation .aware of scientific research and its development

^{*}Department: Anesthesia Techniques

*Al Zahraa university for women

Dr.Siba yaseen

*Ministry of Higher Education and Scientific Research

College of Health and Medical Technologies

Practical anesthesia training is a critical component of medical education, enabling students to apply theoretical knowledge to real-world clinical scenarios. This report outlines the practical aspects of anesthesia administration as per the curriculum of *Basic of Anesthesia (2)*, focusing on key procedural skills, emergency management, and intraoperative protocols

Endotracheal Intubation & Rapid Sequence Anesthesia .1

:Endotracheal intubation is a foundational skill for securing a patient's airway during surgery. Students practice .Technique**: Proper positioning, laryngoscope handling, and tube placement** -

Rapid Sequence Induction**: Administering sedatives (e.g., propofol) and neuromuscular blockers (e.g., ** - .succinylcholine) to minimize aspiration risk

Complication Management**: Addressing laryngospasm (e.g., positive pressure ventilation, muscle ** - relaxants) and hypoxia (e.g., oxygenation, re-intubation)

Intraoperative Monitoring .2

:Students learn to use advanced monitoring tools to ensure patient safety

Vital Signs**: Continuous ECG, blood pressure (invasive/non-invasive), pulse oximetry, and capnography ** - .to track CO₂ levels

.Auscultation**: Monitoring breath and heart sounds via esophageal stethoscope** -

.Documentation**: Recording data in the **anesthetic record** to track trends and respond to abnormalities** -

Emergency Drug Management .3

:Familiarity with emergency medications is vital for crisis resolution

.Malignant Hyperthermia**: Immediate administration of dantrolene and cooling measures** -

.Bronchospasm**: Use of bronchodilators (e.g., salbutamol) and epinephrine** -

.Hypotension**: Vasopressors (e.g., ephedrine) and fluid resuscitation** -

CPR in the Operating Theater .4

:Students rehearse advanced cardiac life support (ACLS) protocols, including

.Chest compressions, defibrillation, and airway management -

.Coordination with the surgical team during intraoperative cardiac arrest -

Operating Theater Environment .7

:Students adapt to the OR workflow by

.Sterile Techniques**: Hand hygiene, gowning, and gloving** -

.Team Communication**: Clear roles during emergencies and routine procedures** -

The practical anesthesia curriculum equips students with essential skills to manage perioperative care safely. By mastering endotracheal intubation, crisis management, and patient monitoring, trainees build confidence to handle real clinical challenges. Integration of theoretical knowledge with hands-on practice ensures preparedness for collaborative, high-stakes environments like the operating theater

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Course description form

المقرر	1. اسم ا			
medie	cine			
لمقرر	2. رمز ا			
ل / السنة	3. الفصل			
2025-2024 second sta	age			
إعداد هذا الوصف	4. تاریخ			
2024/11	1/21			
الحضور المتاحة	5. أشكال			
دوام رسمي				
الساعات الدراسية (الكلي)/ عدد الوحدات (الكلي)	6. عدد ا			
unit 4 /	hr 6			
مسؤول المقرر الدراسي (اذا اكثر من اسم يذكر)	7. اسم ه			
Ghada Ali Huss	sein			
Email ali.drghada@gmail.co	om			
المقرر	8. اهداف			
• تعريف الطالبة بكافة الإمراض المزمنة التي تصيب اعضاء الجسم والدم				
تعريف الطالبة في نهاية السنة على تمييز علامات الاعراض التي تصيب.				
.Respiratory system -1	اهداف المادة			
.GIT system -2	الدراسية			
.GU system -3				
.Liver disease -4				
Endocrine disorder -5				

بيات التعليم والتعلم	9. استراتيج
المحاضرات النظرية	
اثارة الأسئلة واستنباط الاجوبة منها داخل المحاضرة	
• إرشاد الطالبات إلى بعض المواقع الالكترونية للإفادة منها	الاستراتيجية
• ارشاد الطالبات الى اهم وأفضل الطرق لتحسين فهم الامراض المزمنة والاستفادة من الخبراء	
السابقة.	

				المقرر	10. بنیا
طريقة التقييم	طريقة التعلم	اسم الوحدة او الموضوع	مخرجات التعلم المطلوبة	الساعات	الأسبوع
اسئلة عامة / امتحانات يومية / امتحانات فصلية	Theory & clinical	Causes ,clinical feature	Students be able to understand infectious diseases	6	1 st
اسئلة عامة / امتحانات يومية / امتحانات فصلية	Theory & clinical	Diagnosis and treatment	Students be able to understand infectious diseases	6	2 nd

اسئلة					
عامة / امتحانات يومية / امتحانات فصلية	Theory & clinical	Causes ,clinical feature Diagnosis and treatment	Students be able to understand respiratory diseases	6	3 rd
اسئلة عامة / امتحانات يومية / امتحانات فصلية	Theory & clinical	Causes ,clinical feature Diagnosis and treatment	Students be able to understand respiratory diseases	6	4 th
اسئلة عامة / امتحانات يومية / امتحانات فصلية	Theory & clinical	Causes ,clinical feature Diagnosis and treatment	Students be able to understand respiratory diseases	6	5 th
اسئلة عامة / امتحانات يومية / امتحانات فصلية	Theory & clinical	Causes ,clinical feature Diagnosis and treatment	Students be able to understand cardiovascular system	6	6 th
اسئلة عامة / امتحانات يومية / امتحانات فصلية	Theory & clinical	Causes ,clinical feature Diagnosis and treatment	Students be able to understand cardiovascular system	6	7 th
اسئلة عامة / امتحانات يومية /	Theory & clinical	Causes ,clinical feature	Students be able to understand ECG	6	8 th

امتحانات					
فصلية					
اسئلة عامة					
/ امتحانات	Theory				
، يومية /	&	Diagnosis and	Students be able to	6	9 th
امتحانات	clinical	treatment	understand AIDS		
فصلية					
اسئلة عامة					
/ امتحانات	Theory		Students be able to		
يومية /	&	Causes ,clinical	understand gastrointestinal	6	10 th
امتحانات	clinical	feature	system		
فصلية					
اسئلة عامة					
/ امتحانات	Theory	Diagnosis and	Students be able to		
يومية /	&	treatment	understand gastrointestinal system	6	11 th
امتحانات	clinical	treatment			
فصلية					
اسئلة عامة					
/ امتحانات	Theory	Causes ,clinical Students be able to			
يومية /	&	feature	understand liver diseases	6	12 th
امتحانات	clinical	ioataio			
فصلية					
اسئلة عامة					
/ امتحانات	Theory	Complication	Students be able to		
يومية /	&	Diagnosis and	understand liver diseases	6	13 th
امتحانات	clinical	treatment			
فصلية					
اسئلة عامة	Theory	Causes ,clinical	Students be able to	6	14 th
/ امتحانات	&	feature	understand kidney diseases		_

يومية /	clinical	Diagnosis and			
امتحانات		treatment			
فصلية					
اسئلة عامة					
/ امتحانات	Theory	Causes ,clinical	Students be able to		
يومية /	&	feature	understand kidney diseases	6	15 th
امتحانات	clinical	Diagnosis and	understand kidney diseases		
فصلية		treatment			
اسئلة عامة					
/ امتحانات	Theory	Causes ,clinical	Students be able to		
يومية /	&	feature	understand hematology	6	16 th
امتحانات	clinical	leature	understand hematology		
فصلية					
اسئلة عامة					
/ امتحانات	Theory	Diagnosis and	Students be able to		
يومية /	&	Diagnosis and treatment	understand hematology	6	17 th
امتحانات	clinical	treatment			
فصلية					
اسئلة عامة					
/ امتحانات	Theory	Causes ,clinical	Students be able to		
يومية /	&	feature	understand anemia	6	18 th
امتحانات	clinical	leature	understand aneima		
فصلية					
اسئلة عامة					
/ امتحانات	Theory	Diagnosis and	Students be able to		
يومية /	&	treatment	understand anemia	6	19 th
امتحانات	clinical	u callilent	unuci stanu anemia		
فصلية					
اسئلة عامة	Theory	Causes ,clinical	Students be able to	6	20 th

/ امتحانات	&	feature	understand endocrine gland		
يومية /	clinical				
امتحانات					
فصلية					
اسئلة عامة					
/ امتحانات	Theory	Diagnosis and	Students be able to		
يومية /	&	treatment	understand	6	21 st
امتحانات	clinical	treatment	hypothalamus,pituitary,thyriod		
فصلية					
اسئلة عامة					
/ امتحانات	Theory	Causes ,clinical	Students be able to		
يومية /	&	feature	understand	6	22 nd
امتحانات	clinical	reature	hypothalamus,pituitary,thyriod		
فصلية					
اسئلة عامة					
/ امتحانات	Theory	Diagnosis and	Students be able to		
يومية /	&	treatment	understand connective	6	23 rd
امتحانات	clinical	troutment	tissue and Rheumatology		
فصلية					
اسئلة عامة					
/ امتحانات	Theory	Causes ,clinical	Students be able to		
يومية /	&	feature	understand nervous	6	24 th
امتحانات	clinical	icataic	system		
فصلية					
اسئلة عامة					
/ امتحانات	Theory	Diagnosis and	Students be able to		
يومية /	&	treatment	understand nervous system	6	25 th
امتحانات	clinical	a sadirent	andorotana nervous system		
فصلية					

اسئلة عامة / امتحانات يومية / امتحانات فصلية	Theory & clinical	Causes ,clinical feature Diagnosis and treatment	Students be able to understand nervous system	6	26 th
اسئلة عامة / امتحانات يومية / امتحانات فصلية	Theory & clinical	Causes ,clinical feature	Students be able to understand critical care medicine	6	27 th
اسئلة عامة / امتحانات يومية / امتحانات فصلية	Theory & clinical	Diagnosis and treatment	Students be able to understand critical care medicine	6	28 th
اسئلة عامة / امتحانات يومية / امتحانات فصلية	Theory & clinical	Causes ,clinical feature Diagnosis and treatment	Students be able to understand specific forms of organ failure	6	29 th
اسئلة عامة / امتحانات يومية / امتحانات فصلية	Theory & clinical	Causes ,clinical feature Diagnosis and treatment	Students be able to understand specific forms of organ failure	6	30 th

	11. تقييم المقرر			
,				
نق المهام المكلف بها الطالب مثل التحضير اليومي والامتحانات اليومية والشفوية	توزيع الدرجة من 100 على وا			
الخ	والشهرية والتحريرية والتقارير .			
12. مصادر التعلم والتدريس				
Oxford hand book of clinical medicine ,	الكتب المقررة المطلوبة			
	(المنهجية أن وجدت)			
Harrisons principle of internal medicine	المراجع الرئيسة (المصادر)			
	الكتب والمراجع الساندة التي			
مجلة Research Gate للبحوث العلمية	يوصى بها (المجلات العلمية،			
	التقارير)			
IVSL	المراجع الإلكترونية، مواقع			
IVOL	الانترنيت			

Course description form

Teacher's Name: Manar Mohammed Mahdi

Course Name: Internal Medicine

Course Description

Lectures in Internal Medicine Theortical and Practical

1-Educational institution	Al Zahraa University of women
	College of health Techninology
2-Scientific Department/Center	Anesthesia department

3-Course name/code	Internal medicine theortical and practical lectures
4-Available attendance forms	Lectures
5-Semester/year	Second Semester 2024-2025
6-Number of study hours (total)	18 hr
7-Date this description was prepared	14/3/2025
8-Course objectives	Understanding the medical diseases, diagnosis, treatment & complications.

9-Course outcomes and teaching, learning and evaluation methods

Understanding clinical features causes of diseases diagnosis with investigation and outline the management

- A- Cognitive objectives clinical problems solving
- B The skills objectives of the course understand the differintial diagnosis and how to deal with critical cases
- C- Emotional and value goals make the student awares of the

responsibility of his future job

D - Transferable general and qualifying skills (other skills related to employability and personal development) relation of medicine and anesthesia

Teaching and learning methods explain the aims and objective of lecture give some clinical problems and encourage for seminar presentation by students

Evaluation methods by different examination in same lecture and in monthly time

10- Structure of the course /Theoretical syllabus

The Week	Hours	Required learning outcomes	Name of the unit/topic	Teaching method	Evaluation method
1 st	2 hr	Hematology/ introduction / major manifestations/ investigations.	Hematological diseases.	Theortical and practical lectures	Questions & exams
2 nd	2 hr	Anemia: types, diagnosis, laboratory invetigations of anemia, hemolytic anemia	anemia	Theortical and practical lecture	Questions & exams
3 rd	2 hr	Diseases of the endocrine gland/introduction.	Endocrine system diseases	Theortical and practical	Questions & exams

				lectures	
4 th	2 hr	Hypothalamus/ pituitary/ thyroid/ pararthyroid/ adrenals/ gonads.	Endocrine system diseases	Practical and theortical lecture	Questions & exams
5 th	2 hr	Diseases of connective tissues and Rheumatology/introduction/major manifestations/investigations.	Connective tissues	Practical and theortical lecture	Questions & exams
6 th	2 hr	Diseases of the nervous system/introduction	Neurological diseases	Practical and theortical lecture	Questions & exams
7 th	2 hr	Major manifestations/ investigations.	Investigations of major disaeses	Theortical and practical lecture	Questions & exams
8 th	2 hr	Principles of critical care medicine major manifestations of critical illness/ shock/ sepsis.	Critical diseases	Theortical and practical lecture	Questions & exams

organ organ theortical failure(Multiple diseases and organ failure/ ARDS/DIC/ARF/ cases hepatic failure).	Questions & exams
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10- Infrastructur	10- Infrastructures				
A-Required prescribed books	Davidson Principles and practice of Medicine				
1-Main references (sources)	Harrison text book of Medicine				
2-Recommended books and references (scientific journals, reports,)	British medical journal BMJ Attendance to internal Medicine				
B - Electronic references, Internetsites	e medicine Health				

11- Course development plan

To enrolled the students in hospital practice more cases more practice

Course description form

Teacher's Name: Dr. Muataz Fouad Alagha

Course Name: Basic Anaesthetic Equipment 1 (Theoretical +

Practical) / Second Stage (2024-2025)

Course Description

The student should be able to identify the anesthesia instruments, devices, and tools used in anesthesia practice and how to operate them & use them correctly.

1-Educational institution	University of Alzahraa for Women
2-Scientific Department/Center	Anesthesia
3-Course name/code	Basic Anesthesia Equipment 1 (theoretical + practical)/ Second Stage
4-Available attendance forms	Attendance time
5-Semester/year	Semester system
6-Number of study hours (total)	6 hours per week
7-Date this description was prepared	Academic year 2024-2025
8-Course Objectives	Teaching the course aims to introduce the student to the basics of using and maintaining

anesthetic devices.

9-Course outcomes and teaching, learning and evaluation methods

A- Cognitive objectives:

At the end of the year, the student should be able to: -

- 1- Identify the basics of how anesthesia machines work
- 2- Deal with all patient monitoring devices
- 3- Operate and maintain anesthesia and monitoring equipment
- 4- Apply modern technologies used in anesthesia devices

B - The skills objectives of the course:

At the end of the year, the student should be able to:

- 1- Identify the sources of pollution in operating theaters and methods of treating them
- 2- Implement methods of disinfecting, sterilizing and maintaining some devices used in anesthesia.
- 3- know the applied protocols of health care provision, anticipated problems, and methods of using equipments and anesthetic techniques.
- 4- Prepare the operating room, and setting the fluid administration devices, anesthesia gas fumigation devices, gas pressure measuring devices, and flow measuring devices.

C- Emotional and value goals:

- 1- We aim to create a conscious, educated generation
- 2- Instilling in the students' hearts the love of belonging to the homeland and loyalty to it
 - 3- We aim to instill a spirit of cooperation among students.
- D Transferable general and qualifying skills (other skills related to employability and personal development):
 - 1-Creating a generation experienced in using advanced and modern devices and familiar with all their details
- 2-Preparing students through conducting seminars and their own researches.

Teaching and learning methods:

- 1- Asking questions about the lecture topic or from a previous lecture related to the same lecture topic
- 2- Practical application of handling and using of the equipments available in the laboratory.

Evaluation methods:

- 1- Conducting periodic exams of students for every one or two new lectures
- 2- Surprising questions while explaining the lecture and recording this in the students' evaluation record
- 1- Conducting weekly, monthly and final exams

The Week	Hours	Required learning outcomes	Name of the unit/topic	Teaching method	Evaluation method
1 st	6	Learn about the details and design of operating theaters and their specifications	Operating room design and functioning	-Use the smart screen -Devices and equipment available in the classroom and laboratory	-Oral exam -Daily exams -Semester exams and the end of the course
2 nd 3 rd	12	Identifying the types of canola and feeding devices and how to best use them, as well as their types	Cannula and giving set and device for intravenous infusion	-Use the smart screen Devices and - equipment available in the classroom and laboratory	-Oral exam -Daily exams Semester - exams and the end of the course
4 rd	6	Get to know these fluid payment or calculation devices, as well as syringe devices and their electrical and mechanical features	Infusion equipment: patient control analgesia, filtration, aut transfusion	-Use the smart screen Devices and - equipment available in the classroom and laboratory	-Oral exam -Daily exams Semester - exams and the end of the course
5 th 6 th 7 th	18	Learn about the behavior of fluids under different conditions of motion and temperature. Learn about the motion and mixing of fluids, as well as the mechanics of static and moving fluids, learn about the types of gas laws and give examples of each law	Physical principles: behavior of molecules of solid and liquid, heat and temperature Physical principles: properties of gases, temperature, and flow of fluid through tubes and orifice	-Use the smart screen Devices and - equipment available in the classroom and laboratory	-Oral exam -Daily exams Semester - exams and the end of the course

8 th 9 th 10 th 11 th 12 th	30	Types of endotracheal tubes, the method of intubation, their parts, the benefits, reasons for using and disadvantages of each type, and identifying the special types.	Endotracheal tube (ordinary tube) laryngoscope, airway (oropharyngeal and nasopharyngeal), tracheostomy, facemask	-Use the smart screen Devices and - equipment available in the classroom and laboratory	-Oral exam -Daily exams Semester - exams and the end of the course
13 th 14 th 15 th	18	Components of the respiratory system, its mechanism of action and its parts, the breathing system without C02 absorption, an explanation and clasification of Mapelson types,.	Breathing system and their component, definition, classification, working principle	-Use the smart screen Devices and - equipment available in the classroom and laboratory	-Oral exam -Daily exams Semester - exams and the end of the course

10- Structure of the course /Theoretical syllabus

10- Infrastructures				
A-Required prescribed books				
1-Main references (sources)	1- Anesthesia equipment, principle and application, Jan Ehrenwerth, MD, 3rd edition			
	The MGH Textbook of Anesthetic Equipment, Warren S. Sandberg, MD, PhD 2nd edition			
2-Recommended books and references (scientific journals, reports,)	Relevant scientific journals			
B - Electronic references, Internetsites	All educational sites			

11- Course development plan

Increasing the number of study hours for the anesthesia devices course to train students on more device techniques

Course description form

Teacher's Name: Dr. Muataz Fouad Alagha

Course Name: Basic Anaesthetic Equipment 2 (Theoretical + Practical) / Second Stage (2024-2025)

Course Description

The student should be able to identify the anesthesia instruments, devices, and tools used in anesthesia practice and how to operate them & use them correctly.

1-Educational institution	University of Alzahraa for Women
2-Scientific Department/Center	Anesthesia
3-Course name/code	Basic Anesthesia Equipment 1 (theoretical + practical)/ Second Stage
4-Available attendance forms	Attendance time
5-Semester/year	Semester system
6-Number of study hours (total)	6 hours per week
7-Date this description was prepared	Academic year 2024-2025
8-Course Objectives	Teaching the course aims to introduce the student to the basics of using and maintaining anesthetic devices.

9-Course outcomes and teaching, learning and evaluation methods

A- Cognitive objectives:

At the end of the year, the student should be able to: -

- 5- Identify the basics of how anesthesia machines work
- 6- Deal with all patient monitoring devices
- 7- Operate and maintain anesthesia and monitoring equipment
- 8- Apply modern technologies used in anesthesia devices

B - The skills objectives of the course:

At the end of the year, the student should be able to:

- 5- Identify the sources of pollution in operating theaters and methods of treating them
- 6- Implement methods of disinfecting, sterilizing and maintaining some devices used in anesthesia.
- 7- know the applied protocols of health care provision, anticipated problems, and methods of using equipments and anesthetic techniques.
- 8- Prepare the operating room, and setting the fluid administration devices, anesthesia gas fumigation devices, gas pressure measuring devices, and flow measuring devices.

C- Emotional and value goals:

1- We aim to create a conscious, educated generation

- 2- Instilling in the students' hearts the love of belonging to the homeland and loyalty to it
 - 3- We aim to instill a spirit of cooperation among students.
- D Transferable general and qualifying skills (other skills related to employability and personal development):
 - 1-Creating a generation experienced in using advanced and modern devices and familiar with all their details
- 2-Preparing students through conducting seminars and their own esearches.

Teaching and learning methods:

- 1- Asking questions about the lecture topic or from a previous lecture related to the same lecture topic
- 2- Practical application of handling and using of the equipments available in the laboratory.

Evaluation methods:

- 1- Conducting periodic exams of students for every one or two new lectures
- 2- Surprising questions while explaining the lecture and recording this in the students' evaluation record
- 2- Conducting weekly, monthly and final exams

The Week	Hours	Required learning outcomes	Name of the unit/topic	Teaching method	Evaluation method
1 st 2 nd 3 rd 4 rd 5 th	30	Gases and their types, supplying medical gases, details of cylinders and their types, methods of storing them, and how to deal with them.	The supply of anesthetic gases, cylinders, oxygen concentrator Medical gas services, bulk storage, and supply of gases, piped medical vacuum, electrical supply distribution of pipework, terminal outlet flexible pipeline, test and check for medical gas pipeline	-Use the smart screen -Devices and equipment available in the classroom and laboratory	-Oral exam -Daily exams -Semester exams and the end of the course
6 th 7 th 8 th	18	Measurement of Pressure of Gases, Manipulation of High-Pressure Gases, Gas Volume Measurement, Gas Flow Measurement	Gas Measurement, Gas Volume Measurement, Gas Flow Measurement	-Use the smart screen Devices and - equipment available in the classroom and laboratory	-Oral exam -Daily exams Semester - exams and the end of the course
9 th 10 th 11 th	18	How to make a vaporizer and its old and modern types, identifying its internal parts, ways to fill the vaporizer, how to deal with it, and identifying the risks.	Vaporizer: law of vaporization, vaporizing system, type of vaporizer Factor affecting vaporizer performance, calibration of vaporizer, fillin of vaporizer	-Use the smart screen Devices and - equipment available in the classroom and laboratory	-Oral exam -Daily exams Semester - exams and the end of the course

10- Structure of the course /Theoretical syllabus

10- Infrastructures				
A-Required prescribed books				
1-Main references (sources)	2- Anesthesia equipment, principle and application, Jan Ehrenwerth, MD, 3rd edition			
	The MGH Textbook of Anesthetic Equipment, Warren S. Sandberg, MD, PhD 2nd edition			
2-Recommended books and references (scientific journals, reports,)	Relevant scientific journals			
B - Electronic references, Internetsites	All educational sites			

11- Course development plan

Increasing the number of study hours for the anesthesia devices course to train students on more device techniques

Course description form

Teacher's: Theoretical parts Asst. prof. Dr. Hassan Abdullah Athbi

Practical parts Dr. Noor Dehyaa Hassan

Course Name: Physiology

Course Description

This course description provides a summary necessary to understand the characteristics of the course and the learning outcomes the student is expected to achieve, demonstrating whether he or she has made the most of the learning opportunities available.

1-Educational institution	Al Zahraa University of women College of health Techninology
2-Scientific Department/Center	Anesthesia department
3-Course name/code	
4-Available attendance forms	Lectures
5-Semester/year	First Semester 2025-2024
6-Number of study hours (total)	Official working hours
7-Date this description was prepared	30-11-2024
8-Course objectives	-Identifying the functions of different body systems.
	- Describe the mechanism of operation of the various body systems and the sequence of

physiological events accompanying them.

- To distinguish between normal and abnormal functions of different body systems

- Expanding knowledge through periodicals, medical books and the Internet

9-Course outcomes and teaching, learning and evaluation methods

A- Cognitive objectives Students learned the physiology of the body and its working mechanism from the theoretical side and learned about physiological tests from the practical side

B - The skills objectives of the course

Methods of dealing with laboratory animals and scientific equipment - How to use chemical and physical materials - Developing students' cognitive skills and deepening the spirit of research and discovery - Acquiring human clinical examination skills

C- Emotional and value goals make Learning the basics of human physiology and its various vocabulary. - Deepening the student's self-confidence - Creating a creative professor who loves the teaching profession - Developing students' experimental skills and deepening the spirit of cooperation, teamwork and exploration - Stimulating and bringing out the energy within female students - Stimulating the feeling of the importance of learning among female students

D - Transferable general and qualifying

The student should cooperate with his colleagues and professors in an atmosphere of friendliness and understanding

- -2 To work with his peers as a team
- -3 To interact with them on scientific trips and learning methods
- 4- Use interactive explanation by using the smart interactive whiteboard

Teaching and learning methods explain the aims and objective of lecture give some clinical problems and encourage for seminar presentation by students

Evaluation methods by different examination in same lecture and in monthly time

10- Structure of the course /Theoretical syllabus

The Week	Hours	Required learning outcomes	Name of the unit/topic	Teaching method	Evaluation method
1 st	2	Electrical components and activity of the heart	Electrical components and activity of the heart	Theoretical lectures	Daily exam
2 nd	2	The cardiac action potential in ventricular muscle and pace maker tissues	The cardiac action potential in ventricular muscle and pace maker tissues	Theoretical lecture	Daily exam
3 rd	2	Contractile cardiomyocytes and excitation – contraction coupling	Contractile cardiomyocytes and excitation – contraction coupling	Theoretical lectures	Daily exam

4 th	2	ECG and arrhythmia	ECG and arrhythmia	Theoretical lectures	Daily exam
5 th	2	Cardiac cycle	Cardiac cycle	theoretical lecture	Daily exam
6 th	2	Heart sound and waveform generated during cardiac cycle	Heart sound and waveform generated during cardiac cycle	theoretical lecture	Daily exam
7 th		The left ventricle pressure volume loop	The left ventricle pressure volume loop		
8 th	2	Cardiac innervations and control of heart rate	Cardiac innervations and control of heart rate	Theoretical lecture	Daily exam
9 th	2	Cardiac reflexes	Cardiac reflexes	Theoretical Lecture	Daily exam
10 th	2	Systemic circulation	Systemic circulation	Theoretical Lecture	Daily exam
11 th	2	Blood pressure regulation	Blood pressure regulation	Theoretical Lecture	Daily exam

12 th	2	Physiology of microcirculation (starling law of capillary)	Physiology of microcirculation (starling law of capillary)	Theoretical Lecture	Daily exam
13 th	2	Venous circulation and venous return	Venous circulation and venous return	Theoretical Lecture	Daily exam
14th	2	Coronary circulation	Coronary circulation	Theoretical Lecture	Daily exam
15 th	2	Spirometry and lung volumes	Spirometry and lung volumes	Theoretical Lecture	Daily exam

Structure of the course /practical syllabus

The Week	Hours	Required learning outcomes	Name of the unit/topic	Teaching method	Evaluation method
1st	2	Electrical components and activity of the heart	Electrical components and activity of the heart	Practical lectures	Daily exam
2 nd	2	The cardiac action potential in ventricular	The cardiac action potential in ventricular	Practical	Daily

		muscle and pace maker tissues	muscle and pace maker tissues	lectures	exam
3 rd	2	Contractile cardiomyocytes and excitation – contraction coupling	Contractile cardiomyocytes and excitation – contraction coupling	Practical lectures	Daily exam Daily exam
4 th	2	ECG and arrhythmia	ECG and arrhythmia	Practical lectures	Daily exam
5 th	2	Cardiac cycle	Cardiac cycle	Practical lectures	Daily exam
6 th	2	Heart sound and waveform generated during cardiac cycle	Heart sound and waveform generated during cardiac cycle	Practical lectures	Daily exam
7 th	2	The left ventricle pressure volume loop	The left ventricle pressure volume loop	Practical lectures	Daily exam
8 th	2	Cardiac innervations and control of heart rate	Cardiac innervations and control of heart rate	Practical lectures	Daily exam
9 th	2	Cardiac reflexes	Cardiac reflexes	Practical	Daily

				lectures	exam
10 th	2	Systemic circulation	Systemic circulation	Practical lectures	Daily exam
11 th	2	Blood pressure regulation	Blood pressure regulation	Practical lectures	Daily exam
12 th	2	Physiology of microcirculation (starling law of capillary)	Physiology of microcirculation (starling law of capillary)	Practical lectures	Daily exam
13 th	2	Venous circulation and venous return	Venous circulation and venous return	Practical lectures	Daily exam
14 th	2	Coronary circulation	Coronary circulation	Practical lectures	Daily exam
15 th	2	Spirometry and lung volumes.	Spirometry and lung volumes	Practical lectures	Daily exam

10- Infrastructures					
A-Required prescribed books	Medical physiology and general physiology book				
1-Main references (sources)	GANINGHAM GYTUN , LIPPINCOT ,Vander				
2-Recommended books and references (scientific journals, reports,)	Scientific journals from the Internet, scientific reports and research from the Internet, new ideas and research that are presented in conferences and seminars and which are approved and published in later research.				
B - Electronic references,Internet sites	Free full, science direct, pub med				

Changing some of the vocabulary of the subject according to the global updates used in developing general physiology. Using deductive questions and questions whose answers require deep or outside-the-box thinking to motivate students to know the extent of their capabilities and mental abilities in deducing and arriving at conclusions. Also, using the research lecture method instead of the theoretical lecture, and identifying the extent to which female students can access the largest number of information about the subject, become familiar with it, and discuss research within the class, in order to create a generation .aware of scientific research and its development

Course description form

Teacher's: Theoretical parts Asst. prof. Dr. Hassan Abdullah Athbi

Practical parts Dr. Noor Dehyaa Hassan

Course Name: Applied Physiology

Course Description

This course description provides a summary necessary to understand the characteristics of the course and the learning outcomes the student is expected to achieve, demonstrating whether he or she has made the most of the learning opportunities available.

•	<i>U</i>
2-Scientific Department/Center	Anesthesia department
3-Course name/code	
4-Available attendance forms	Full attendance
5-Semester/year	Second Semester 2025-2024
6-Number of study hours (total)	Official working hours
7-Date this description was prepared	26-3-2025
8-Course objectives	By the end of this course, students will be able to understand lung mechanics, ventilation-perfusion relationships, oxygenation techniques, gas transport, systemic effects of hypoxia and hyperoxia, control of ventilation, non-respiratory lung functions, smoking effects, thermoregulation, heat loss during anesthesia, fluid and electrolyte balance, vomiting and dehydration, acid-base homeostasis, cerebral physiology, and

physiological differences between children and adults, with a focus on clinical and perioperative implications.

9-Course outcomes and teaching, learning and evaluation methods

A- Cognitive Objectives Students learned the physiology of the body and its working mechanism from the theoretical side and learned about physiological tests from the practical side

B - The skills objectives of the course

Methods of dealing with laboratory animals and scientific equipment - How to use chemical and physical materials - Developing students' cognitive skills and deepening the spirit of research and discovery - Acquiring human clinical examination skills

C- Emotional and value goals make Learning the basics of human physiology and its various vocabulary. - Deepening the student's self-confidence - Creating a creative professor who loves the teaching profession - Developing students' experimental skills and deepening the spirit of cooperation, teamwork and exploration - Stimulating and bringing out the energy within female students - Stimulating the feeling of the importance of learning among female students

D - Transferable general and qualifying

The student should cooperate with his colleagues and professors in an atmosphere of friendliness and understanding

- -2 To work with his peers as a team
- -3 To interact with them on scientific trips and learning methods
- 4- Use interactive explanation by using the smart interactive whiteboard

Teaching and learning methods explain the aims and objective of lecture give

some clinical problems and encourage for seminar presentation by students

Evaluation methods by different examination in same lecture and in monthly time

10- Structure of the course /Theoretical syllabus

Required learning outcomes	Name of the unit/topic	Teaching method	Evaluation method
ung nechanics(compliance,resistant)	Lung mechanics(compliance,resistant)	Theoretical lectures	Daily exam
entilation perfusion	ventilation perfusion	Theoretical lecture	Daily exam
reoxygenation,apnenic xygenation and diffusion ypoxia)	preoxygenation,apnenic oxygenation and diffusion hypoxia)	Theoretical lectures	Daily exam
ransport of gases(O2,CO2)	transport of gases(O2,CO2)	Theoretical lectures	Daily exam
ystemic effect of hypoxia and yperoxia	systemic effect of hypoxia and hyperoxia	theoretical lecture	Daily exam
ontrol of ventilation	control of ventilation	theoretical	Daily

		lecture	exam
on respiratory function of lung	non respiratory function of lung		
reoperative smoking and hysiological effects of cessation f smoking	preoperative smoking and physiological effects of cessation of smoking	Theoretical lecture	Daily exam
nermoregulatory response to revent hypothermia and yperthermia	thermoregulatory response to prevent hypothermia and hyperthermia	Theoretical Lecture	Daily exam
eat loss during anaesthesia	heat loss during anaesthesia	Theoretical Lecture	Daily exam
ody fluids and electrolytes	body fluids and electrolytes	Theoretical Lecture	Daily exam
omiting and dehydration	vomiting and dehydration	Theoretical Lecture	Daily exam
cid base balance	acid base balance	Theoretical Lecture	Daily exam
erebral physiology	cerebral physiology	Theoretical Lecture	Daily exam
hysiological differences etween child and adult in eneral	physiological differences between child and adult in general	Theoretical	Daily

	Lecture	exam	

Structure of the course /practical syllabus

Required learning outcomes	Name of the unit/topic	Teaching method	Evaluation method
Lung mechanics(compliance,resistant)	Lung mechanics(compliance,resistant)	Practical lectures	Daily exam
ventilation perfusion	ventilation perfusion	Practical lectures	Daily exam
preoxygenation,apnenic oxygenation and diffusion hypoxia)	preoxygenation,apnenic oxygenation and diffusion hypoxia)	Practical lectures	Daily exam Daily exam
transport of gases(O2,CO2)	transport of gases(O2,CO2)	Practical lectures	Daily exam
systemic effect of hypoxia and hyperoxia	systemic effect of hypoxia and hyperoxia	Practical lectures	Daily exam
control of ventilation	control of ventilation	Practical lectures	Daily exam
non respiratory function of lung	non respiratory function of lung	Practical lectures	Daily exam

preoperative smoking and physiological effects of cessation of smoking	preoperative smoking and physiological effects of cessation of smoking	Practical lectures	Daily exam
thermoregulatory response to prevent hypothermia and hyperthermia	thermoregulatory response to prevent hypothermia and hyperthermia	Practical lectures	Daily exam
heat loss during anaesthesia	heat loss during anaesthesia	Practical lectures	Daily exam
body fluids and electrolytes	body fluids and electrolytes	Practical lectures	Daily exam
vomiting and dehydration	vomiting and dehydration	Practical lectures	Daily exam
acid base balance	acid base balance	Practical lectures	Daily exam
cerebral physiology	cerebral physiology	Practical lectures	Daily exam
physiological differences between child and adult in general	physiological differences between child and adult in general	Practical lectures	Daily exam

10- Infrastructures				
A-Required prescribed books	Medical physiology and general physiology book			

1-Main references (sources) 2-Recommended books and references (scientific journals, reports,)	 Sembulingam, K., and Sembulingam, P. (2019). Essential of medical physiology. Eighth Edition. Jaypee Brothers Medical Publishers (P) Ltd. India. Miller, R. D., & Eriksson, L. I. (2020). Miller's Anesthesia (9th ed.). Elsevier. A comprehensive guide covering anesthesia techniques, including apneic oxygenation. Barash, P. G., Cullen, B. F., & Stoelting, R. K. (2021). Clinical Anesthesia (9th ed.). Wolters Kluwer.Discusses airway management, oxygenation strategies, and complications like diffusion hypoxia.
B - Electronic references,Internet sites	Free full, science direct, pub med

Changing some of the vocabulary of the subject according to the global updates used in developing general physiology. Using deductive questions and questions whose answers require deep or outside-the-box thinking to motivate students to know the extent of their capabilities and mental abilities in deducing and arriving at conclusions. Also, using the research lecture method instead of the theoretical lecture, and identifying the extent to which female students can access the largest number of information about the subject, become familiar with it, and discuss research within the class, in order to create a generation aware of scientific research and its development

Course description form

Teacher's Name Huda fadhel hassan

Course Name anesthesia

Course Description

This academic program description provides a brief summary of the most important characteristics of the program and the learning outcomes expected of the student to achieve, proving whether he or she has made the most of the available opportunities.

1-Educational institution	Al zahraa university
2-Scientific Department/Center	Anesthesia department
3-Course name/code	Basics of anesthesia
4-Available attendance forms	Attendance(study court, lab, skill lab)
5-Semester/year	2 nd stage
6-Number of study hours	120 hrs theory
(total)	120 hrs clinical
7-Date this description was prepared	2024/9/15
8-Course objectives	The study of this article aims to:
	a) Know basic information
	about anesthesiology
	b) The ability to assess the
	patient's condition before the

- operation and the radiological and laboratory tests necessary for the pathological condition
- c) Knowledge of narcotic drugs and drugs used in the different stages of anesthesia
 - d) Know the stages of anesthesia and the procedures necessary for each stage
 - e) The ability to deal with expected and sudden complications that may occur during or after the operation
- f) Study the necessary medical devices in the different stages of anesthesia
 - g) Learn about the different types of anesthesia for patients and the ability to to choose the right type as needed

- 9-Course outcomes and teaching, learning and evaluation methods
- A- Cognitive objectives Study the history of anesthesia, its stages of development and the scope of action of anesthesia

Study how to evaluate the patient's condition before the operation and the successive stages of anesthesia

Study of the drugs used before the operation

Study of drugs used for anesthesia (inhalational, intravenous anesthestics drugs and neuromuscular blocking agents)

B - The skills objectives of the course How to use and apply an oxygen mask for the patient

How to place an IV catheter

How to place a tracheal tube and use a device (laryngoscope)

How to operate and use the anesthesia machine

C- Emotional and value goals The ability to deal with the psychological state of the patient before the operation and reassure him

The ability to communicate positively with the patient and his family

D - Transferable general and qualifying skills (other skills related to employability and personal development)

Teaching and learning methods 1) Theoretical debates

- 2) Skill Lab
- 3) Panel Discussions
- 4) Interactive learning such as brainstorming
- 5) Watch photos and explainer videos

Evaluation methods 1) Formative assessment tests at the end of the week to get immediate feedback to measure the student's progress in learning.

- 2) The midterm exam is at the middle of the semester
- 3) Summative assessment at the end of the study unit
- 4) Practical testing

10- Structure of the course /Theoretical syllabus

The	Hours	Required learning	Name of the	Teaching	Evaluation
Week		outcomes	unit/topic	method	method
1 st	8	Know the history of anesthesia and the scope of use of anesthesia	History of anesthesia and introduction + scope of anesthesiology.	Theoretical + interactive lectures	Written + oral evaluation
2 nd	8	Know how to choose an anesthesia technique	Choice of anesthetic technique	Theoretical + interactive lectures	Written + oral evaluation
3 rd	8	Things to focus on during the patient's visit before the operation	Preanaesthetic visit and assessment	Theoretical + interactive lectures	Written + oral evaluation

4 th	8	Know the medications that must be given before starting anesthesia	Premedication aims and therapeutic management	Theoretical + interactive lectures	Written + oral evaluation
5 th	8	Knowledge of general pharmacology with precise details of the handling of drugs with the body	General pharmacology	Theoretical + interactive lectures	Written + oral evaluation
6 th	8	To have a detailed knowledge about inhalational anesthesia and how to deliver to patient	Inhalational anaesthetic agents	Theoretical + interactive lectures	Written + oral evaluation
7 th	8		Inhalational anesthetic agents	Theoretical + interactive lectures	

8 th	8		Inhalational anesthetic agents		
9 th	8	Know detailed information on how to use anesthesia with intravenous drugs and their complications	Intravenous anesthetic	Theoretical + interactive lectures	Written + oral evaluation
10 th	8		Intravenous anesthetic		Written + oral evaluation
11 th	8	Know the subtleties of muscle relaxants, how to give them and their complications	Muscle relaxant	Theoretical + interactive lectures	Written + oral evaluation

12 th	8	Muscle relaxant	

10- Infrastructur	10- Infrastructures				
A-Required prescribed books	fundamental of anesthesia textbook				
1-Main references (sources)	Clinical anesthesia morgan				
2-Recommended books and references (scientific journals, reports,)	Clinical anesthesia barash				
B - Electronic references, Internetsites	Pubmed.com				

Introducing new methods in education, such as problem-based education, education in the form of panel discussions, and how to

form scientific research.

Course description form

Teacher's Name: Yasir Adnan Mohammed Abd

Course Name: Basics of surgery

Course Description:

This course description provides short description for the important specifications of the course and the expected learning outcomes from the students

1-Educational institution	Alzahraa university for girls
2-Scientific Department/Center	Anesthesia technique
3-Course name/code	Basics of surgery
4-Available attendance forms	Attendance education
5-Semester/year	1st and 2nd trimester / 2nd year
6-Number of study hours (total)	120 hr
7-Date this description was prepared	18/3/2025

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8-Course	ohi	iectives
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Learning of students about the basic concepts of surgery including physiopathology and surgical complications

9-Course outcomes and teaching, learning and evaluation methods

- A- Cognitive objectives: logical assistance of the student to get the basic concept of surgery through.
- 1- study the basic concept of surgery
- 2- study the expected complications from trauma and surgical interventions
- 3- study the body response to trauma and surgical interventions
- 4- prepare the student about how to care surgical wounds
- 5- prepare the student about pre and postoperative care
- B The skills objectives of the course

Helping the student to get surgical skills including

- 1- training some surgical skills
- 2- writing scientific researches and reports
- 3- plenty of examples

C- Emotional and value goals

- 1- prepare the student to work inside the health institutions
- 2- study the physiology and body responses in understandable way
- D Transferable general and qualifying skills (other skills related to employability and personal development)
- 1- discussion of surgical cases and how to find suitable treatment to it
- 2- brainstorming questions

Teaching and learning methods

- 1- daily quiz
- 2- smart board
- 3- PowerPoint display
- 4- workshops

Evaluation methods

- 1- classroom participation
- 2- Reports presentation
- 3- monthly examination

10- Structure of the course /Theoretical syllabus

The Week	Hours	Name of the	Teaching	Evaluation	
		unit/topic	method	method	

1 st	4	Metabolic response to trauma	Theory + practical	Questioning +discussion +quiz
2 nd	4	Inflammation acute and chronic	Theory + practical	Questioning +discussion +quiz
3 rd	4	Shock types and pathophysiology	Theory + practical	Questioning +discussion +quiz
4 th	4	Wound tissue repair and scars	Theory + practical	Questioning +discussion +quiz
5 th	4	Surgical infections	Theory + practical	Questioning +discussion +quiz
6 th	4	Patient safety	Theory + practical	Questioning +discussion +quiz
7 th	4	Preoperative care and care in operations	Theory + practical	Questioning +discussion +quiz
8 th	4	Head injury, management of unconscious patient	Theory + practical	Questioning +discussion +quiz

9 th	4	Abscess, cellulitis, carbuncles	Theory + practical	Questioning +discussion +quiz
10 th	4	Gangrene types and causes	Theory + practical	Questioning +discussion +quiz
11 th	4	Fluid therapy	Theory + practical	Questioning +discussion +quiz
12 th	4	Nutritional support in surgery	Theory + practical	Questioning +discussion +quiz
13 th	4	Acid – base balance	Theory + practical	Questioning +discussion +quiz
14 th	4	Spinal and peripheral nerves injuries	Theory + practical	Questioning +discussion +quiz
15th	4	Principles of laparoscopic surgeries	Theory + practical	Questioning +discussion +quiz

10- Infrastructures				
A-Required prescribed books	Short practice of surgery , Sabiston's text book of surgery			
1-Main references (sources)	Fiona basic surgical technique, COURTNEY text book of surgery			
2-Recommended books and references (scientific journals, reports,)	Any resource dealing with surgery and its basics			
B - Electronic references, Internetsites	Uptodate, medicine net, pubmed, global surgery research			

Updating and changing in the study plan to be suitable for anesthesia technical students

Course description form

Teacher's Name: Assistant Lecturer: Maha Mohammed Kadhim Majeed Al-Toma.

Subject Name: Pharmacology

Course Description:

This course description provides a necessary summary of the most important characteristics of the course and the learning outcomes that the student is expected to achieve, demonstrating whether he has

1-Educational institution	Al-Zahraa University for Women
2-Scientific Department/Center	Anesthesiology Department
3-Subject name/code	Pharmacology
4-Available attendance forms	Attendance
5-Semester/year	The first and second academic courses / second academic year
6-Number of study hours (total)	120 hours
7-Date of preparation of this description	10/9/2024
8-Course objectives	1-Introducing the student to medications and focusing on the medications that used in anesthesia. 2-Distinguishing the medications that are used in spinal and general anesthesia. 3-How to use medications according to the affected part, age, gender and weight.

9-Course outcomes and teaching, learning and evaluation methods

A- Cognitive objectives:

Helping students acquire basic information about pharmaceuticals in a logical manner by:

- 1-Preparing the student and making him familiar with all types of medicines used in treating various diseases.
- 2- Study the basic principles of pharmacology and learn about drug groups in general and anesthetic drugs in particular.
- 3- Study the mechanism of action of different medicines
- 4- Study of pharmacokinetics
- 5- Study the side effects and drug interactions of various treatments

B - The skills objectives of the course:

It helps students to acquire appropriate skills in the field of pharmacology, including:

- 1- Training female students to prescribe appropriate medications for medical conditions.
- 2- Writing scientific research and reports.
- 3- Many examples

- C- Emotional and value goals:
- 1- Communicating chemical and biological ideas in a way that is understandable to the student.
- 2- Preparing students capable of working within various health and medical institutions.
- D-Transferable general and qualifying skills (other skills related to employability and personal development):
- 1- Discussing different medical conditions and finding appropriate treatment for them
- 2- Asking brainstorming questions through which the student can link the study materials together and link them to health reality.

Teaching and learning methods:

- 1-Managing the lecture in an applied manner linked to the reality of daily life to attract the student to the topic of the lesson without straying from the core of the topic so that the material is flexible and amenable to understanding and analysis.
- 2- Assigning the student to some group activities and duties and writing self-reports.

Evaluation methods:

- 1-Active participation in the classroom is evidence of the student's commitment and responsibility.
- 2-Commitment to the specified deadline for submitting assignments and research.
- 3- Monthly and final exams express commitment and cognitive and skill achievement.

10- Structure of the course /Theoretical + practical syllabus

Pharmacology 1(First Semester)

The Week	Hours	Required learning outcomes	Name of the unit/topic	Teaching method	Evaluation method
1 st	4	Principles of Drug Therapy	Principles of Drug Therapy	Theoretical+ Practical	General questions, discussion, and daily exam
2 nd	4	Cholinergic agonists and antagonists	Cholinergic agonists and antagonists	Theoretical+ Practical	General questions, discussion, and daily exam
3 rd	4	Adrenergic agonists and adrenergic antagonists	Adrenergic agonists and adrenergic antagonists	Theoretical+ Practical	General questions, discussion, and daily exam
4 th	4	Drugs affecting cardiovascular system: -Antihypertensive drugs -Anti-heart failure drugs	Drugs affecting cardiovascular system: -Antihypertensive drugs -Anti-heart failure drugs	Theoretical+ Practical	General questions, discussion, and daily exam
5 th	4	Drugs affecting cardiovascular system -AntiarrhythmicsAntianginal drugs	Drugs affecting cardiovascular system -AntiarrhythmicsAntianginal drugs-	Theoretical+ Practical	General questions, discussion, and daily exam
6 th	4	Diuretics	Diuretics	Theoretical+	General questions,

				Practical	discussion, and daily exam
7 th	4	Antihistamines	Antihistamines	Theoretical+ Practical	General questions, discussion, and daily exam
8 th	4	Drugs for Disorders of the Respiratory System	Drugs for Disorders of the Respiratory System	Theoretical+ Practical	General questions, discussion, and daily exam
9 th	4	Drugs for anemia	Drugs for anemia	Theoretical+ Practical	General questions, discussion, and daily exam
10 th	4	Drugs for anemia	Drugs for anemia	Theoretical+ Practical	General questions, discussion, and daily exam
11 th	4	Anticoagulants and Antiplatelet Agents	Anticoagulants and Antiplatelet Agents	Theoretical+ Practical	General questions, discussion, and daily exam
12 th	4	Skeletal muscle relaxants	Skeletal muscle relaxants	Theoretical+ Practical	General questions, discussion, and daily exam
13 th	4	Local anesthetics	Local anesthetics	Theoretical+ Practical	General questions, discussion, and daily

					exam
14 th	4	General anesthetics	General anesthetics	Theoretical+ Practical	General questions, discussion, and daily exam
15 th	4	General anesthetics	General anesthetics	Theoretical+ Practical	General questions, discussion, and daily exam

Pharmacology 2 (Second Semester)

The Week	Hours	Required learning outcomes	Name of the unit/topic	Teaching method	Evaluation method
1 st	4	Hypnotic and sedative drugs	Hypnotic and sedative drugs	Theoretical+ Practical	General questions, discussion, and daily exam
2 nd	4	Hypnotic and sedative drugs	Hypnotic and sedative drugs	Theoretical+ Practical	General questions, discussion, and daily exam
3 rd	4	Narcotic (Opioid) analgesics	Narcotic (Opioid) analgesics	Theoretical+ Practical	General questions, discussion, and daily exam
4 th	4	Analgesics, antipyretics and anti- inflammatory agents	Analgesics, antipyretics and anti- inflammatory agents	Theoretical+ Practical	General questions, discussion, and daily exam

	T	I	I	T	Т
5 th	4	Analgesic, antipyretic and anti- inflammatory agents	Analgesic, antipyretic and anti- inflammatory agents	Theoretical+ Practical	General questions, discussion, and daily exam
6 th	4	Gastrointestinal and Antiemetic Drugs	Gastrointestinal and Antiemetic Drugs	Theoretical+ Practical	General questions, discussion, and daily exam
7 th	4	Gastrointestinal and Antiemetic Drugs	Gastrointestinal and Antiemetic Drugs	Theoretical+ Practical	General questions, discussion, and daily exam
8 th	4	Drugs for Diabetes	Drugs for Diabetes	Theoretical+ Practical	General questions, discussion, and daily exam
9th	4	Adrenal hormones -Corticosteroid -Inhibitors of adrenocorticosteroids biosynthesis or function	Adrenal hormones -Corticosteroid -Inhibitors of adrenocorticosteroids biosynthesis or function	Theoretical+ Practical	General questions, discussion, and daily exam
10 th	4	Antimicrobial agents -Cell wall inhibitors -Protein synthesis. Inhibitors -Quinolones and Folic acid antagonists	Antimicrobial agents -Cell wall inhibitors -Protein synthesis. Inhibitors -Quinolones and Folic acid antagonists	Theoretical+ Practical	General questions, discussion, and daily exam
11 th	4	Antimicrobial agents -Cell wall inhibitors -Protein synthesis. Inhibitors - Quinolones and Folic acid antagonists	Antimicrobial agents -Cell wall inhibitors -Protein synthesis. Inhibitors - Quinolones and Folic acid antagonists	Theoretical+ Practical	General questions, discussion, and daily

					exam
12 th	4	-Antifungal drugs Antiviral drugs	-Antifungal drugs Antiviral drugs	Theoretical+ Practical	General questions, discussion, and daily exam
13 th	4	Anti-Epileptic drugs	Anti-Epileptic drugs	Theoretical+ Practical	General questions, discussion, and daily exam
14 th	4	Anti-Parkinson's drugs	Anti-Parkinson's drugs	Theoretical+ Practical	General questions, discussion, and daily exam
15 th	4	Clinical toxicology	Clinical toxicology	Theoretical+ Practical	General questions, discussion, and daily exam

11- Infrastructures				
A-Required prescribed books	Pharmacology; Lippincott Latest edition			

1-Main references (sources)	Pharmacology; Katzung Latest Edition
2-Recommended books and references (scientific journals, reports, etc.)	Sources related to new medicines from the Internet or other modern books
B - Electronic references,Internet sites	Google Scholar, PubMed

Making an adjustment to the study plan so that the curriculum is intended for female students in the Anesthesiology Department and linking general concepts in medications to the department's specialization.

Course description form

Teacher's Name: Dr. Nadia Nayyef Hussein

Course Name: Medical Terminology

Course Description

The student should be able to distinguish the prefixes, suffixes, roots, and word endings of terms Medical.

1-Educational institution	AL-Zahraa University for Women
2-Scientific Department/Center	Techniques Anesthesia Department
3-Course name/code	Medical Terminology
4-Available attendance forms	Official working hours
5-Semester/year	Semester (courses)
6-Number of study hours (total)	8 hours per week
7-Date this description was prepared	2024-2025
8-Course objectives	The student should be able to distinguish the prefixes, suffixes, roots, and word endings of terms
	Medical: The student will be familiar with medical terminology for each system of the human body

9-Course outcomes and teaching, learning and evaluation

methods A- Cognitive objectives 1-Theoretical application to practical laboratory material. 2-Statement of knowledge. B - The skills objectives of the course: 1-Conduct the oral and written evaluation. 2-Practical reports. C- Emotional and value goals: 1-Display data with graphics and pictures. 2-Using information from a variety of sources, including scientific fields. D - Transferable general and qualifying skills (other skills related to employability and personal development) 1-Presenting lectures with drawings and pictures related to the subject. 2- Using external sources. Teaching and learning methods: -Use scientific references. -Displaying slides for medical terminology on the screen.

-Using the smart board.

Evaluation methods:

- -Daily exam tests for female students.
- -Surprising questions during the discussion between recommendations.

10- Structure of the course /Theoretical syllabus

The Week	Hours	Required learning outcomes	Name of the unit/topic	Teaching method	Evaluation method
WCCK			uma topic	memod	memod
1 st	8	Introduction-structural	Fundamental –	Using the	Daily
		analysis- Basic rules	Fundamental	screen	and
		of medical word	Analysis –	Scientific	monthly
		Building	Instructions for	references	exams
		Dunding	the medical	references	
		Major suffixes-	word		
		suffixes denoting a	building		
		state or condition			
			Main suffixes-		
			Suffixes that		
			indicate a state		
			or condition		
2 nd	8	Major suffixes-	Main suffixes -	Using the	Daily
		suffixes denoting	suffixes that	screen	and
		medical actions	indicate	G : 1:C	monthly
		D C	medical	Scientific	exams
		Prefixes- prefixes of	procedures	references	
		No.& measures	Prefixes -		
			Prefixes of		

			numbers and scales		
3 rd	8	Prefixes- prefixes of color Prefixes- prefixes of direction & position	Demonstrates clues related to color, direction, and position	Using the screen Scientific references	Daily and monthly exams
4 th	8	Prefixes- prefixes of size, time & place Prefixes- prefixes of negation	Explains the prefixes related to size, place, and negation	Using the screen Scientific references	Daily and monthly exams
5 th	8	Prefixes- prefixes of type Roots	Explains gender-related prefixes and an explanation of the roots of medical words	Using the screen Scientific references	Daily and monthly exams
6 th	8	Word terminals Conditions	Word endings and different medical conditions	Using the screen Scientific references	Daily and monthly exams
7 th	8	The body as a whole Skin & its appendages	An explanation of the body's systems as a whole, along with the skin	Using the screen Scientific references	Daily and monthly exams

			system and its accessories		
8 th	8	Gastrointestinal Tract Respiratory system	An explanation of the digestive system, its appendages, the respiratory system, and the most important medical terms related to it	Using the screen Scientific references	Daily and monthly exams
9 th	8	Cardiovascular System Blood & lymphatic system	Illustration of the cardiovascular system and the lymphatic system	Using the screen Scientific references	Daily and monthly exams
10 th	8	Musculoskeletal system Urogenital system	The most important medical terms related to the musculoskeletal system And the genitourinary system	Using the screen Scientific references	Daily and monthly exams
11 th	8	system Endocrine	The endocrine system and its	Using the	Daily and

			most important medical terms	screen Scientific references	monthly exams
12 th	8	.system Nervous	The nervous system and its most important medical terms	Using the screen Scientific references	Daily and monthly exams
th 13	8	senses Special	Sense organs and its most important medical terms	Using the screen Scientific references	Daily and monthly exams
14 th	8	Oncology	Oncology and its common medical terminology	Using the screen Scientific references	Daily and monthly exams
15 th	8	Speciality related termes	The most important terms related to the specialty	Using the screen Scientific references	Daily and monthly exams

10- Infrastructures

A-Required prescribed books	Short Course of Medical terminology
1-Main references (sources)	
2-Recommended books and references (scientific journals, reports,)	
B - Electronic references, Internetsites	

Use different sources such as Medical Terminology Book

SEVENTH EDITION

AN ILLUSTRATED GUIDE It will widely benefit female students Portuguese... of