

Anesthesia equipment techniques					
Course Code					
Semester/year					
quarterly					
Date this description was prepared					
Available forms of attendance					
My presence					
(Number of study hours (total)/number of units (total)					
9\7					
(Name of the course administrator (if more than one name is mentioned					
Name : Lecturer .Dr. Hashemi-Rasoul Faiq Rasul Al + .Asst. lecture . Ali Abdel Zahra . Emali:- ali789alhassnawy@gmail.com					
objectives Course					
Objectives of the study subject			Introducing the students to the components, questions, benefits, harms, and accompanying problems technique of inserting anesthesia devices with the		
Teaching and learning strategies					
The strategy			Explaining the objectives, informing the student of the lecture before delivering it, using the discussion method, and determining the student's material by conducting the daily exam understanding of the		
Course structure					
Evaluation method	Learning method	Name of the unit or topic	Required learning outcomes	hours	the week
Exam	theoretical and practical lecture	Oxygen devices, oxygen percentage, and their uses ,flow speed	Giving knowledge devices Oxygen	7	1
Exam	theoretical and practical lecture	Division, types, characteristics, components, and use of each type of respirators	Knowledge of respiratory devices	7	2
Exam	theoretical and practical lecture	Types, components, uses, and techniques for using oxygen masks and respiratory devices	Knowledge of oxygen respiratory mask and devices	7	3
Exam	theoretical and practical lecture	Types, components and uses conduit And the technique of using devices Breathing Above the larynx	Device identification Airway above the larynx	7	4
Exam	theoretical and practical lecture	Types, components, uses and technique of using an endotracheal tube	Identifying the endotracheal tube	7	5
Exam	theoretical and practical lecture	Types, components, uses and technique of using the laryngoscope	knowledge laryngoscope	7	6
Exam	theoretical and practical lecture	Types, components, uses and techniques for using manual rescue devices	Knowledge of manual rescue devices	7	7
Exam	theoretical and practical lecture	Types, components, uses, and technique of using a respirator	Knowledge of the respirator	7	8
Course evaluation					
Daily, quarterly and monthly exams					
Learning and teaching resources					
(Required textbooks (methodology, if any			devices Basics and principles of anesthesia		
(Main references (sources			Sheikh's book for medical devices-Bahaa Al		
Recommended supporting books and references (...scientific journals, reports)			British Medical Journal		
references, Internet sites Electronic			medicineHealth		

Course description form

Course Name					
Foundations of surgery					
Course Code					
Semester/year					
quarterly					
Date this description was prepared					
2024-20-2					
Available forms of attendance					
(units (total Number of study hours (total)/number of					
5\4					
(Name of the course administrator (if more than one name is mentioned					
Name : Lecturer .Dr. Ahmed Dhia Hassan + Lecturer .Din-Anfal Dhia Al					
Emali:- anfal_abualhub@yahoo.com					
objectives Course					
Objectives of the study subject	To familiarize students with general surgery subjects in terms :Objectives of the course dealing with a of dealing with symptoms of trauma, burns, and plastic surgery, as well as treat them surgically, patient who has been exposed to accidents and injuries, how to avoiding wound infections after surgery, and avoiding serious complications, as these accidents include head and spine injuries, and how to deal with each injury. The organs of the body and curriculum also includes various resection operations for various prevention before, during and after the surgical operation, including the thyroid gland and its complications, the pituitary gland and its complications, and the adrenal gland, as problems, blood poisoning, failure well as diseases and blood problems such as clotting of the respiratory and digestive systems, uterine operations, abortion, cesarean section, and organ transfers from one patient to another				
Teaching and learning strategies					
The strategy giving clinical cases with seminars conducted by female students Lectures and					
Course structure					
Evaluation method	Learning method	Name of the unit or topic	Required learning outcomes	hours	the week
Daily exam	theoretical and practical lecture	General review of the gastrointestinal tract GIT and surgical techniques	Study of general review of the gastrointestinal tract GIT and surgical techniques	4	1
Daily exam	theoretical and practical lecture	salivary glands	Study of the salivary glands	4	2
Daily exam	theoretical and practical lecture	Tongue and oral cavity	of the tongue Study and oral cavity	4	3
Daily exam	theoretical and practical lecture	esophagus	the Study of esophagus	4	4
Theoretical exam	theoretical and practical lecture	Stomach and duodenum	stomach Study of the and duodenum	4	5
Daily exam	theoretical and practical lecture	Liver	study Liver	4	6
Daily exam	theoretical and practical lecture	Gallbladder and bile ducts	the Study of gallbladder and bile ducts	4	7
Daily exam	theoretical and practical lecture	Spleen and pancreas	Study of the spleen and pancreas	4	8
Daily exam	theoretical and practical lecture	Small and large intestine	Study of the small and large intestine	4	9
Daily exam	theoretical and practical lecture	Intestinal obstruction and fistula	intestinal Study of obstruction and fistula	4	10

Theoretical exam	theoretical and practical lecture	Appendix and peritoneum	Study of the appendix and peritoneum	4	11
Daily exam	theoretical and practical lecture	Rectum and anus	Study of the rectum and anus	4	12
Daily exam	theoretical and practical lecture	Abdominal wall and hernia	Study of the abdominal wall and hernia	4	13
	theoretical and practical lecture	the breast	Breast study		14
Daily exam	theoretical and practical lecture	Urology, surgical anatomy and congenital anomalies	of the urinary tract, surgical anatomy and congenital malformations	4	15
Daily exam	theoretical and practical lecture	kidneys, ureters, bladder and urethra Trauma to the	Study of trauma affecting the kidneys, ureters, bladder and urethra	4	16
Daily exam	theoretical and practical lecture	Enlarged kidney pelvis and urinary stones	Study of renal pelvic dilatation and urinary stones	4	17
Daily exam	theoretical and practical lecture	Urinary tract infection	Study of urinary tract infection	4	18
Daily exam	theoretical and practical lecture	Urination disorders	Study of urination disorders	4	19
Daily exam	theoretical and practical lecture	Urinary tract tumors	Study of urinary tract tumors	4	20
Daily exam	theoretical and practical lecture	The male genitourinary system: the prostate, testicles, and penis	Study of the male genitourinary system, prostate, testicles and penis	4	21
Daily exam	theoretical and practical lecture	Thoracic surgery respiratory pathophysiology general review	Thoracic surgery study respiratory pathophysiology general review	4	22
Daily exam	theoretical and practical lecture	Chest trauma, rib fractures and flail chest	Study of chest trauma, rib fractures and flail chest	4	23
Daily exam	theoretical and practical lecture	Pneumothorax	Study of pneumothorax	4	24
Daily exam	theoretical and practical lecture	Pleural effusion empyema	Study of pleural effusion empyema	4	25
Daily exam	theoretical and practical lecture	Chest tube management and treatment	Chest tube study, and management treatment	4	26
Daily exam	theoretical and practical lecture	Lung tumors	Lung tumors studies	4	27
Daily exam	and theoretical practical lecture	Types of chest operations	Study the types of chest operations	4	28
Daily exam	theoretical and practical lecture	Congenital heart disease and heart disease acquired	Study of congenital heart disease and acquired heart disease	4	29
Daily exam	theoretical and practical lecture	CPR	Cardiac resuscitation study	4	30
Course evaluation					
Daily, quarterly and monthly exams					
Learning and teaching resources					

(Required textbooks (methodology, if any sources) Main references	.(The prescribed and approved book of surgery (Schwartz Brunner Schwartz, Brunner
Recommended supporting books and references (...scientific journals, reports)	Curriculum book for general surgery, curriculum book for internal medicine British Journal of General Surgery
Electronic references, Internet sites	Stanford health care website. General Surgery Types ,medicine Health

Course description form

Course Name

Anesthesia					
Course Code					
Semester/year					
Semester					
Date this description was prepared					
2024-2-20					
Available forms of attendance					
(Number of study hours (total)/number of units (total					
11\ 8					
(Name of the course administrator (if more than one name is mentioned					
Name : Lecturer .Dr. Hashemi-Rasoul Faiq Rasul Al.+ Lecturer .Dr. Maysaa Ali Raghieb Emali : Maysaa.raghieb@alzahraa.edu.iq					
objectives Course					
Objectives of the study subject		Introducing the students to the mechanism of evaluating patients and preparing them before operations, and introducing them to the medications used before and during anesthesia, along .types of anesthesia and details of the medications used with knowing the			
Teaching and learning strategies					
The strategy		Lecture style and giving clinical cases with parts of seminars by students			
Course structure					
Evaluation method	Learning method	Name of the unit or topic	learning Required outcomes	hours	the week
Daily exam	Theoretical lecture	Medical history, including examination and tests	Know the patient's assessment before the operation	8	1 st
Daily exam	Theoretical lecture	Preparing patients, planning anesthesia, and preventing side effects	Knowledge of working connectivity with Anesthesia	8	2 nd
Daily exam	Theoretical lecture	Medications before, during and after anesthesia	Knowledge of general anesthesia	8	4 rd
Daily exam	Theoretical lecture	Action, effect, uses, and side effects of intravenous anesthetics	Knowledge of anesthesia medications Intravenous	8	5 th
A theoretical exam	Theoretical lecture	Action, effect, uses and side effects of inhaled anesthetics	Knowledge of inhaled anesthetics	8	6 th
Theoretical exam	Theoretical lecture	Types and techniques of regional anesthesia	Knowledge of regional anesthesia	8	6 th
Theoretical exam	Theoretical lecture	Physiological changes and mechanism children of anesthesia in	Knowledge of pediatric anesthesia	8	7 th
Theoretical exam	Theoretical lecture	Physiological changes and mechanism of anesthesia in pregnant women	Knowledge of anesthesia for pregnant women	8	7 th
Course evaluation					
exams Daily, quarterly and monthly					
Learning and teaching resources					
(Required textbooks (methodology, if any		Oxford anesthesia			
(Main references (sources		Morcan anesthesia			
Recommended supporting books and references (...scientific journals, reports)		British Medical Journal			
Electronic references, Internet sites		Emedicine Health			

Course description form

Course Name					
Principles of computers					
Course Code					
Semester/year					
Semester					
Date this description was prepared					
2024-2-22					
Available forms of attendance					
(study hours (total)/number of units (total Number of					
4/3					
(Name of the course administrator (if more than one name is mentioned					
Name :Asst. .Lecturer. Muhammad Ghazi Khassaf . Emali: mohammed.alshami@alzahraa.edu.iq					
objectives Course					
Objectives of the study subject		with knowledge in managing and using various computer Providing the student .applications			
Teaching and learning strategies					
The strategy		The theoretical and explanation method is by presenting the material on the diagrams and pictures, in order program, including PowerPoint, in the form of to attract the student's attention and help him not feel bored. The practical method is to apply what was presented on the calculator and conduct daily and .monthly exams			
Course structure					
Evaluation method	Learning method	Name of the unit or topic	Required learning outcomes	hours	the week
Daily participation and monthly exams	Theoretical and practical lecture	The statistical programSPSS the , concept of the program, its operation, steps of data analysis		3	1
Daily participation and monthly exams	Theoretical and practical lecture	Identify the components of the main screen, enter data, save and retrieve data		3	2
Daily participation and monthly exams	Theoretical and practical lecture	Sorting and altering data, determining the statistical procedure, how to insert variable or case, merging files, and a analysis		3	3
Daily participation and monthly exams	Theoretical and practical lecture	Identify the statistical summary of the given data and benefit from the data it provides in exploring data or reports .rows for columns or		3	4
Daily participation and monthly exams	Theoretical and practical lecture	Comparing means, comparing variables Conduct some nonparametric tests such aschi square		3	5
Daily participation and monthly exams	Theoretical and practical lecture	Quality control panel applications		3	6
Daily participation and monthly exams	Theoretical and practical lecture	Dealing with charts		3	7
Daily participation and monthly exams	Theoretical and practical lecture	orders Dealing with: Summarize (cross tabs), custom tables (Basic tables), Anuva Models (one - way), non-paramedic methods (one sample, two sample, independent, two samples related,		3	8

		several samples independent, several sample related).			
Daily participation and monthly exams	Theoretical and practical lecture	Human body encyclopedia program with its details		3	9
Daily participation and monthly exams	Theoretical and practical lecture	Identify the vocabulary of the human body and benefit from the presentation methods it provides		3	10
Daily participation and monthly exams	Theoretical and practical lecture	<p>s Body the modern version that runs , under theWindows environment the :</p> <p>,concept of the program</p> <p>Its operation and features, main screen components, and how to deal with tools and menus options it provides and how to get The .the exact details</p> <p>Discussing the presentations and - explanations that the program provides for various human body systems, such asthe skeletal ,.....Etc .Nervous, Muscles</p> <p>Benefiting from the sound or - pronunciation of some of the vocabulary it provides in addition to learning about</p> <p>.Real action movies that exist</p> <p>How to access the precise details - provided through the database and search index</p> <p>.For that</p> <p>Addressing community health by - choosingFitness & Health which , deals with various types</p> <p>Food, weight loss, food calories, ,weight, first aid</p> <p>.Drugs and others</p> <p>Identifying the causes of deaths, - births, fetal stages, sexual diseases and methods of prevention</p> <p>One of them is by choosingLiving . l options such as educational Usefu - lessonsor quick tests that provide a tool</p> <p>An easy and quick test for a person to know his academic level in the subjects presented .the program</p>		3	11
evaluation Course					
Daily, quarterly and monthly exams					
Learning and teaching resources					
(Required textbooks (methodology, if any		-			
(Main references (sources		-			
Recommended supporting books and references (....scientific journals, reports)		-			
references, Internet sites Electronic		-			

Course description form

Course Name

Foundations of intensive care	
:Course Code	
Semester/year	
Semester	
Date this description was prepared	
2024-2-20	
Available forms of attendance	
(total)/number of units (total) Number of study hours	
9\7	
(Name of the course administrator (if more than one name is mentioned	
Name: Asst .Lecturer. Yasiri-Alaa Abdel Majeed Al Email: alaa.abdulmajeed@alzahraa.edu.iq	
objectives Course	
Objectives of the study subject	<ol style="list-style-type: none"> 1 Teaching the subject aims to provide students with knowledge about the basics of using intensive care devices and maintaining them in intensive care units. 2 At the end of the year, the student should be able to maintain the devices. 3 installing the devices-installing and re-Dismantling, re. 4 .How to manage and resuscitate critical cases 5 Training on electrocardiogram examination 6 Knowing what trauma is and how to deal with it
giesTeaching and learning strate	
The strategy	Anaging 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 reports-Assigning the student to some group activities and duties and writing self
Course structure	

Evaluation method	Teaching method	Name of the unit/topic	Required learning outcomes	hours	the week
General questions and discussion	Theoretical practical	Principles of IC U	Principles of intensive care science	7	1 st
eneral questions and discussion	Theoretical practical	Principles of IC U	Principles of intensive care science	7	2nd
eneral questions and discussion	Theoretical practical	Practical management	Practical measure	7	3rd
General questions, discussion, and daily exam	Theoretical practical	Practical management	Practical measure	7	4th
general questions And discuss	Theoretical practical	Artificial ventilation	of artificial ventilation Basics	7	5 th
General questions, discussion, and daily exam	Theoretical practical	Artificial ventilation	Basics of artificial ventilation	7	6 th
general questions And discuss	Theoretical practical	Clinical monitoring	monitoring Clinical	7	7 th
General questions, discussion and daily exam	Theoretical practical	Clinical monitoring	Clinical monitoring	7	8 th
general	Theoretical	Cardio pulmonary resuscitation.	Cardiopulmonary resuscitation	7	9 th

questions And discuss	practical				
general questions And discuss	Theoretical practical	Cardio pulmonary resuscitation	Cardiopulmonary resuscitation	7	10 th
general questions And discuss	Theoretical practical	Hypoxia and O2 therapy	Lack of oxygen and its treatment	7	11 th
general questions And discuss	Theoretical practical	Hypoxia and O2 therapy	Lack of oxygen and its treatment	7	12 th
general questions And discuss	Theoretical practical	Special complications DVT, Pneumothorax stress ulcer, ARDS.	Complications in the care unit intensive	7	13 th
general questions And discuss	Theoretical practical	Special complications DVT, Pneumothorax stress ulcer, ARDS.	Complications in the intensive care unit	7	14 th
general questions And discuss	Theoretical practical	CNS: Glasco coma scale, head injury.	Scale of the degree of consciousness and brain injury	7	15 th

General questions and discussion	Theoretical practical	CNS: Glasco coma scale, head injury.	Scale of the degree of consciousness and brain injury	7	1 st
General questions and discussion	Theoretical practical	Indication of intubations. Ventilation & Extubation	Indications for intubation and artificial ventilation	7	2 nd
General questions and discussion	Theoretical practical	Emergency drugs	Emergency medications	7	3 rd
General questions and discussion	Theoretical practical	Emergency drugs	Emergency medications	7	4 th
General questions and discussion	Theoretical practical	Blood & blood transfusion.	Transfusion	7	5 th
General questions and discussion	Theoretical practical	Blood & blood transfusion.	Transfusion	7	6 th
General questions and discussion	Theoretical practical	IVF & water & electrolyte balance.	Parenteral nutrients and electrolyte disturbance	7	7 th
General questions and discussion	Theoretical practical	IVF & water & electrolyte balance.	Parenteral nutrients and electrolyte disturbance	7	8 th
General questions and discussion	Theoretical practical	Nutrition	nutrition	7	9 th
General questions and discussion	Theoretical practical	Nutrition	nutrition	7	10 th
General questions and discussion	Theoretical practical	Delayed recovery.	Delayed awakening	7	11 th
General questions and discussion	Theoretical practical	Delayed recovery.	Delayed awakening	7	12 th
General questions and	Theoretical practical	Mode of ventilation	Artificial ventilation patterns	7	13 th

discussion					
General questions and discussion	Theoretical practical	Mode of ventilation	Artificial ventilation patterns	7	14 th
General questions and discussion	Theoretical practical	Special complications	Complications in the intensive care unit	7	15 th

Course evaluation	
Submitting periodic reports .Participation in the classroom Weekly exams .Monthly and final exams	
Learning and teaching resources	
(Required textbooks (methodology, if any	Marinos the ICU BOOK
(Main references (sources	ICU protocol
Recommended supporting books and references (scientific (...journals, reports	Resources related to modern refocus care techniques from the Internet or other modern books
Electronic references, Internet sites	<u>Google Scholar, PubMed</u>

Course description form

Course Name	
English	
Course Code	
Semester/year	
Semester	
Date this description was prepared	
2024-20-2	
forms of attendance Available	
(Number of study hours (total)/number of units (total)	
2\1	
(Name of the course administrator (if more than one name is mentioned	
Name : Asst. Lecturer. Niran Mohmad fadial	
objectives Course	
Objectives of the study subject	understand and memorize medical terminology and scientific and ,Make the student able to absorb .linguistic concepts to be conversant in his field of specialization in the English language .sThe student learns some important linguistic rules in the educational, professional and social field
Teaching and learning strategies	
The strategy	Using some important grammatical phrases to form some class discussions within the studentsspecialization
Course structure	

Evaluation method	Learning method	Name of the unit or topic	Required learning outcomes	hours	the week
Daily participation and monthly exams	Use the screen- An explanatory video of some medical terminology	Medical terminology	Some medical terminology	1	1 st
Compose - some sentences in a row Monthly - exams	Screen use - Some exercises -	Auxiliary verb, do, be, have. This is with practice in work	auxiliary verbs	1	2nd
Daily and monthly exam	the screen to solve Use-specific exercises-topic	Present/Past/Present perfect, Questions and negatives, short answers	Past, present and present perfect tense	1	3rd
Daily and monthly exams	Screen use Methodological references	Modal verbs (1): - have (got) to, can. Be allowed to , obligation a permission, giving opinion,	Standard verbs	1	4 th -5 th
Class questions and daily and monthly exams	Screen use Methodological references	Phrasal verbs	Phrasal verbs	1	6 th
class Raising questions Daily and monthly exams	Screen use Methodological references	Future form, going to and will, Questions with like, verb pattern	Future tense	1	7 th -8 th
Daily testing Monthly exams	Use the screen to display slides Methodological references	Present passive, Past Simple and Past Perfect	The active voice and the passive	1	9 th -10 th

			voice		
Use brainstorming Monthly testing	Screen use Methodological references supported by examples	Present Perfect Simple	Present perfect simple	1	11 th
some Write sentences Daily and monthly testing	Use the screen to display PowerPoint Methodological references	Present Perfect Continuous	Present perfect continuous	1	12 th
ass Raising cl questions Monthly exams	Use the screen to show the differences Methodological references are supported by external sources	Simple versus Continuous, Questions and answers	The present perfect simple and continuous	1	13 th -14 th
Daily and monthly tests	Screen use Methodological references	Modal verbs must, could, might, can't, probability, Character adjectives, Agreeing and disagreeing	Actions should, should for possibility	1	15 th -16 th
Use brainstorming Raising questions Monthly exam	Use the screen to display the material Methodological references Show an explanatory video	Verbs and nouns that go together	Verbs and nouns together	1	17 th -18 th
Raise questions with examples Monthly exam	Screen use Methodological references	Time expressions, Compound nouns, Expressing Quantity, Indirect questions	Description of time, compound nouns, indirect question	1	19 th -20 th -21 th
Daily oral and monthly exam	Screen use Methodological references Show an explanatory video	Base and strong adjectives, Making suggestions, Time clauses	Source and strong adjectives	1	22 th - 23 th
Form some sentences Monthly exam	Screen use Methodological references	Present/Past/Present perfect, Questions and negatives, short answers	Present and past tense and how to formulate questions	1	24 th - 25 th

Course evaluation	
Daily, quarterly and monthly exams	
Learning and teaching resources	
(any Required textbooks (methodology, if	Headway Plus/Upper Intermediate New Student Book
(Main references (sources	Headway Plus/Upper Intermediate New Key Words Book
Recommended supporting books and references (...scientific journals, reports)	-
Electronic references, Internet sites	-

Course description form

Course Name					
Internal medicine					
Course Code					
Semester/year					
Semester					
Date this description was prepared					
2024-20-2					
Available forms of attendance					
My presence					
(Number of study hours (total)/number of units (total)					
7\5					
(more than one name is mentioned Name of the course administrator (if					
Lecture. Hussein Aziz Nasser . Dr Emali:-					
objectives Course					
Objectives of the study subject		Introducing the students to internal diseases related to the symptoms of jaundice, with a study ,infectious ulcers, kidney disease, and acute and chronic kidney failure of heart diseases, such as coronary heart failure, high heart pressure, and heart failure, with a study of heart rhythm differences, then a study of respiratory system es diseases with a study of respiratory system failure, then a study of diabet performance and a study of its syndrome. Action and effect of electrolytes			
Teaching and learning strategies					
The strategy		Lecture style and giving clinical cases with seminal parts taught by female students			
structure Course -1					
Evaluation method	Learning method	Name of the unit or topic	Required learning outcomes	hours	the week
Daily exam	A theoretical and practical lecture	Jaundice causes	Know the causes of jaundice	5	1 st
Daily exam	A theoretical and practical lecture	Types of jaundice diagnosis	Knowing the types of diagnosis jaundice	5	2 nd
Daily exam	A theoretical and practical lecture	Kidney failure causes diagnosis	Knowing the kidney function	5	4 rd
Daily exam	theoretical A and practical lecture	Chronic kidney failure	Knowing kidney failure	5	5 th
Daily exam	A theoretical and practical lecture	Coronary heart failure causes symptoms diagnosis	Identifying coronary heart failure	5	6 th
Daily exam	A theoretical and practical lecture	causes, :High blood pressure symptoms, complications	Study of high blood pressure the blood	5	7 th
Course evaluation					
Daily, quarterly and monthly exams					
Learning and teaching resources -2					
(methodology, if any) Required textbooks			Dave son principles and application in internal medicine		
(Main references (sources			Harrison's book on internal medicine		
Recommended supporting books and references (...scientific journals, reports)			Curriculum book for internal medicine		
references, Internet sites Electronic			British Medical Journal medicineHealth		

Course description form

Course Name					
Anesthesia equipment techniques					
Course Code					
Semester/year					
Semester					
Date this description was prepared					
2024-22-2					
Available forms of attendance					
(total)/number of units (total) Number of study hours					
8\6					
(Name of the course administrator (if more than one name is mentioned					
Name :- Lecturer .dr. Muhannad Ali Fadel + Lecturer.dr.Ali Abdel Zahra email :- ali789alihassnawy@gmali.com					
objectives Course					
Objectives of the study subject		should be able to know the medical devices used for anesthesia the The student tools used, and how to operate them and use them correctly			
Teaching and learning strategies					
The strategy		lecture related to Asking questions about the lecture topic or from a previous the same lecture topic Practical application of the equipment available in the laboratory			
Course structure					
Evaluation method	Learning method	Name of the unit or topic	Required learning outcomes	hours	the week
Oral exam Daily exams Tide exams End of the course	Use the smart - screen equipment and - tools Available in the hall Study and laboratory	Physiological monitoring, percentage of inhaled oxygen, carbon dioxide concentration and anesthetic gases	Learn how devices work to monitor oxygen saturation, carbon dioxide concentration, inhaled gas concentrations, and inhaled oxygen .concentration	6	1st + 2nd
Oral exam Daily exams Tide exams End of the course	Use the smart - screen equipment and - tools Available in the hall Study and laboratory	Measuring respiratory volume, measuring the concentration of gases in the blood	Knowing how respiratory volume measuring devices work, knowing how to draw, read, and how to make a blood gas measuring device	6	3rd + 4 th
Oral exam Daily exams Tide exams End of the course	Use the smart - screen equipment and- tools Available in the hall Study and laboratory	Information devices and information preservation	Knowledge of the operating systems of information collection devices, along with knowledge of the importance of collecting and preserving patient medical information	6	5th + 6th
Oral exam Daily exams Tide exams End of the course	Use the smart - screen equipment and - tools Available in the hall Study and laboratory	Contamination of with operating rooms anesthetic gas emissions Measuring the level of pollution Ways to prevent pollution	Knowing the severity of pollution in the operating room, ways to reduce it and the risks resulting from it	6	7th + 8th

		Decontamination devices			
exam Oral Daily exams Tide exams End of the course	Use the smart - screen equipment and - tools Available in the hall Study and laboratory	Fluid extraction device Its components, examination and maintenance	Knowing the parts and how the fluid extraction device works and its maintenance	6	9th + 10th
Oral exam Daily exams Tide exams and End of the course	Use the smart - screen equipment and - tools in the hall Available Study and laboratory	Cleaning, deinfection and sterilization of medical devices	Knowledge of cleaning, deinfection, and sterilization methods for medical devices	6	11th + 12th
Oral exam Daily exams Tide exams End of the course	Use the smart - screen equipment and - tools Available in the hall Study and laboratory	Checking and maintaining the respirator	Inspecting, maintaining and maintaining the anesthesia administration device	6	13+14
Oral exam Daily exams Tide exams End of the course	Use the smart - screen equipment and - tools Available in the hall Study and laboratory	Electrical risks and their prevention and accidents electrical resulting from current sources	Knowing how electric current works, its dangers, and preventing electrical hazards	6	15 + 16
Oral exam Daily exams Tide exams End of the course	Use the smart - screen equipment and - tools Available in the hall Study and laboratory	electric ironing The device and accidents resulting from its use	Knowing how the electric ironing device works and the risks resulting from it	6	17+18
Oral exam Daily exams Tide exams End of the course	Use the smart - screen equipment and - tools Available in the hall Study and laboratory	Defibrillator device Pacemaker	Knowing how defibrillators and pacemakers work and how they interact with surgical operations	6	19+20
Oral exam Daily exams Tide exams End of the course	Use the smart - screen equipment and - tools Available in the hall Study and laboratory	Laser How the laser works Laser components Prevention and safety of laser radiation	Know the basics of devices how laser work and their components	6	21+22
Oral exam Daily exams Tide exams End of the course	Use the smart - screen equipment and - tools Available in the hall Study and laboratory	Devices used during an MRI Other devices include a Foley catheter to collect peripheral urine and a nerve stimulator	Knowing the basics of how the devices used during MRI work, knowing how the urine collection device works, and the peripheral nerve stimulator device	6	23+24
Oral exam Daily exams Tide exams End of the course	Use the smart - screen equipment and - tools Available in the hall Study and	Electronic components in the artificial respirator, electronic control of breathing systems and accidents resulting from them	Knowledge of the electronic systems in the artificial respirator and their accidents	6	25+26

	laboratory				
exam Oral Daily exams Tide exams End of the course	Use the smart - screen equipment and - tools Available in the hall Study and laboratory	Risks resulting from anesthesia devices and ways to prevent their occurrence	Know the potential risks of medical devices and prevent them	6	27+28
Oral exam- Daily exams- Tide exams - of the course End	Use the smart - screen equipment and - tools Available in the hall Study and laboratory	Maintaining devices	Knowing how to maintain and maintain different devices	6	29+30
Course evaluation					
Conducting periodic exams for students for each lecture Surprising questions while explaining the lecture and recording this in the students' evaluation record Daily and household duties and seminars quarterly and final exams ,Conducting daily					
Learning and teaching resources					
(Required textbooks (methodology, if any		Anesthesia equipment, principle and application, Jan Ehrenwerth, 3rd editio			
(Main references (sources		The MGH Textbook of Anesthetic Equipment, Warren S. Sandt MD, PhD 2nd edition			
Recommended supporting books and references (...scientific journals, reports)		Related journals			
Electronic references, Internet sites		<u>Pumped, google schooler</u>			