Ministry of Higher Education and Scientific Research Scientific Supervision and Scientific Evaluation Apparatus Directorate of Quality Assurance and Academic Accreditation Accreditation Department



Academic Program and Course Description Guide

Anesthesia Techniques Department 2025-2024

Academic Program Description Form

University Name: Al-Furat Al-Awsat Technical University Faculty/Institute: College of Health and Medical Techniques

Scientific Department: Anesthesia Techniques

Academic or Professional Program Name: Anesthesia Techniques Final

Certificate Name: Anesthesia Techniques Academic System: Course and Yearly Description Preparation Date: 27/9/2024

File Completion Date: 27/9/2024

Signature

Head of Department Name:

Dr. Ameer Abood Karim

Date:

Signature Asist. Prof

Dr.Raad Ajam Saile

Scientific Associate Name:

Enas

Date:

The file is checked by:

Department of Quality Assurance and University Performance

Director of the Quality Assurance and University Performance Department:

Date:

Signature:

Approval of the Dean

Pro.Dr. Angham Jasim Mohmmed

Introduction:

The educational program is a well-planned set of courses that include procedures and experiences arranged in the form of an academic syllabus. Its main goal is to improve and build graduates' skills so they are ready for the job market. The program is reviewed and evaluated every year through internal or external audit procedures and programs like the External Examiner Program.

The academic program description is a short summary of the main features of the program and its courses. It shows what skills students are working to develop based on the program's goals. This description is very important because it is the main part of getting the program accredited, and it is written by the teaching staff together under the supervision conscientific committees in the scientific departments.

This guide, in its second version, includes a description of the academic program after updating the subjects and paragraphs of the previous guide in light of the updates and developments of the educational system in Iraq, which included the description of the academic program in its traditional form (annual, quarterly), as well as the adoption of the academic program description circulated according to the letter of the Department of Studies T 3/2906 on 3/5/2023 regarding the programs that adopt the Bologna Process as the basis for their work.

In this regard, we can only emphasize the importance of writing an academic programs and course description to ensure the proper functioning of the educational process.

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Concepts and terminology:

Academic Program Description: The academic program description provides a brief summary of its vision, mission and objectives, including an accurate description of the targeted learning outcomes according to specific learning strategies.

<u>Course Description</u>: Provides a brief summary of the most important characteristics of the course and the learning outcomes expected of the students to achieve, proving whether the have made the most of the available learning opportunities. It is derived from the program description.

Program Vision: An ambitious picture for the future of the academic program to be sophisticated, inspiring, stimulating, realistic and applicable.

<u>Program Mission:</u> Briefly outlines the objectives and activities necessary to achieve then and defines the program's development paths and directions.

<u>Program Objectives:</u> They are statements that describe what the academic program inter to achieve within a specific period of time and are measurable and observable.

<u>Curriculum Structure:</u> All courses / subjects included in the academic program according to the approved learning system (quarterly, annual, Bologna Process) whether it is a requirement (ministry, university, college and scientific department) with the number of credit hours.

Learning Outcomes: A compatible set of knowledge, skills and values acquired by students after the successful completion of the academic program and must determine the learning outcomes of each course in a way that achieves the objectives of the program. **Tapphing and learning strategies:** They are the strategies used by the faculty members.

<u>Teaching and learning strategies:</u> They are the strategies used by the faculty members to develop students' teaching and learning, and they are plans that are followed to reach the learning goals. They describe all classroom and extra-curricular activities to achieve the learning outcomes of the program.

1. Program Vision

To be a leading academic department in anesthesia techniques, distinguished in education, scientific research, and community service, and contributing effectively to the development of the health care system locally and regionally.

2. Program Mission

The Department of Anesthesia Techniques is dedicated to preparing highly competent and ethically responsible graduates equipped with scientific knowledge, practical skills, and critical thinking abilities in the field of anesthesia and intensive care. The department strives to enhance scientific research, support innovation, and engage in community-oriented activities to achieve sustainable health development.

3. Program Objectives

The department seeks to achieve the following goals:-

- 1. Prepare qualified anesthesia technologists capable of applying modern scientific knowledge and advanced practical techniques in anesthesia and intensive care.
- 2. Promote continuous professional development through updating curricula to align with advances in medical and technological sciences.
- 3. Encourage scientific research and innovation to support community health needs and contribute to sustainable development.
- 4. Enhance teamwork and ethical practice by fostering collaboration with medical teams and ensuring respect and compassion in patient care.
- 5. Develop critical decision-making skills for recognizing and managing emergencies and perioperative situations effectively.
- 6. Strengthen clinical training and recovery care competence to prepare graduates for professional performance in operating and recovery rooms.
- 7. Establish graduate-level programs to advance the education and expertise of anesthesia technologists, providing opportunities for specialized training and research. This will enable the department to cultivate a new generation of experts capable of addressing complex clinical challenges and contributing to the development of the field at both national and international levels.

4. Program Accreditation

Does the program have program accreditation? And from which agency?

NO

5. Other external influences

Is there a sponsor for the program?

 ${\bf Laboratories - Hospitals - Library - Internet}$

| 6 .Program | n Structure | | | |
|--------------|-------------|--------------|------------|----------|
| Program | Number of | Credit hours | Percentage | Reviews* |
| Structure | Courses | | | |
| Institution | 45 | 180 | 100% | |
| Requirements | | | | |
| College | | | | |
| Requirements | | | | |
| Department | 45 | 180 | 100% | |
| Requirements | | | | |
| Summer | 2 | Satisfied | 100% | |
| Training | | | | |
| Other | | | | |
| | | | | |

^{*} This can include notes whether the course is basic or optional.

| 7. Program Description | | | | | | | | | |
|---------------------------|-------------|-------------------------------|-------------|-----------|--|--|--|--|--|
| Year/Level | Course Code | Course Name | Credit | Hours | | | | | |
| | | | theoretical | Practical | | | | | |
| The first/first | AT111 | medical physics (1) | 2 | 4 | | | | | |
| The first/first course | AT112 | anatomy (1) | 2 | 4 | | | | | |
| The first/first course | AT113 | General physiology (1) | 2 | 4 | | | | | |
| The first/first course | AT114 | general chemistry)1) | 2 | 4 | | | | | |
| The first/first course | AT115 | Biology | 2 | 4 | | | | | |
| The first/first course | AT116 | English | 1 | 2 | | | | | |
| The first/first course | AT117 | computer principles (1) | 3 | - | | | | | |

| The first/first course | AT118 | Human rights and democracy | 2 | - |
|-------------------------|-------|-----------------------------------|---|---|
| First/second course | AT121 | medical physics (2) | 2 | 4 |
| First/second course | AT122 | anatomy (2) | 2 | 4 |
| First/second course | AT123 | General physiology (2) | 2 | 4 |
| First/second course | AT124 | Biochemistry | 2 | 4 |
| First/second course | AT125 | Microbiology | 2 | 4 |
| First/second course | AT126 | computer principles (2) | 1 | 2 |
| First/second course | AT127 | Arabic | 2 | - |
| The second/first course | AT211 | Foundations of anesthesia1 | 2 | 4 |
| The second/first course | AT212 | Basics of anesthesia devices1 | 2 | 4 |
| The second/first course | AT213 | Applied physiology1 | 2 | 4 |
| The second/first course | AT214 | Foundations of internal medicine1 | 1 | 4 |
| The second/first course | AT215 | Fundamentals of surgery1 | 2 | 4 |
| The second/first course | AT216 | Pharmacokinetics1 | 2 | 2 |
| The second/first course | AT217 | Medical terms | 2 | - |

| The | | | 2 | - |
|-------------------------|-----------------|---------------------------|---|---|
| second/first | AT218 | | | |
| course | | Baath Party crimes | | |
| The | | | 2 | 4 |
| second/second | AT221 | Foundations of | | |
| course | | anesthesia2 | | |
| The | | Basics of | 2 | 4 |
| second/second | AT222 | anesthesia | | |
| course | | devices2 | | |
| The | | | 2 | 4 |
| second/second | AT223 | Applied | | |
| course | | physiology2 | | |
| The | | | 1 | 4 |
| second/second | AT224 | Foundations of | | |
| course | | internal medicine2 | | |
| The | | | 2 | 4 |
| second/second | AT225 | Fundamentals of | | |
| course | | surgery2 | | |
| The | | | 2 | 2 |
| second/second | AT226 | | | |
| course | | Pharmacokinetics2 | | |
| The | | | 1 | 2 |
| second/second | AT227 | | | |
| course | | Statistics | | |
| The | 4 23.6 0 | | | |
| second/second course | AT228 | Arabic | 2 | 0 |
| Third/first | A 770 1 1 | | 3 | 5 |
| course | AT311 | Anesthesia1 | | |
| Third/first | A 7734 5 | Intensive care | 2 | 5 |
| course | AT312 | basics1 | | |
| Third/first | A 777.0.1.0 | Anesthesia device | 2 | 5 |
| course | AT313 | techniques1 | | |
| Third/first | | Internal | 2 | 3 |
| course | AT314 | Medicine1 | | |
| Third first | . — - : – | | 1 | 3 |
| course | AT315 | Surgery1 | | |
| Third/ first | . — - | Computer | 1 | 2 |
| course | AT316 | applications1 | _ | |
| COMEDO | | иррисшины | | |

| Third/ Second | AT321 | Anesthesia2 | 3 | 5 |
|---------------|-------------|-------------------|---|---|
| course | | Allesulesiaz | | 3 |
| Third/ Second | AT322 | Intensive care | | _ |
| course | A1322 | basics 2 | 2 | 5 |
| Third/ Second | A T 2 2 2 | Anesthesia device | | |
| course | AT323 | techniques2 | 2 | 5 |
| Third/ Second | A TD22.4 | Internal | | |
| course | AT324 | Medicine2 | 2 | 3 |
| Third/ Second | A (T) 2.2.5 | | | |
| course | AT325 | Surgery2 | 1 | 3 |
| Third/ Second | A TD226 | Computer | | |
| course | AT326 | applications2 | 1 | 2 |
| Fourth/annual | AT401 | Anesthesia3 | 2 | 4 |
| Fourth/annual | A T 402 | Anesthesia device | 4 | 2 |
| | AT402 | techniques3 | | |
| Fourth/annual | A TT 402 | Intensive care | 2 | 4 |
| | AT403 | techniques2 | | |
| Fourth/annual | A T7404 | Surgical internal | 1 | 4 |
| | AT404 | medicine | | |
| Fourth/annual | AT405 | Nursing | 1 | 4 |
| Fourth/annual | AT406 | English language | 1 | - |

8. Expected learning outcomes of the program

Knowledge

- 1 Graduation of scientific in cadres specialty
- the
- 2- Operates and maintains the medical equipment used in the intensive care room and the intensive care room
- 3 Enabling students to obtain knowledge, intellectual understanding, and skills to identify anesthesia devices and methods of maintaining them.
- 4- The student learns the skills required to deal with different cases in anesthesia and intensive care
- The student is able to contribute to resuscitation and intervention cases as necessary.

- 1- The student learned how to prepare the medications and solutions required for anesthesia
- 2- That the student knows the basics of the required sciences
- 3- That the student understand the required scientific details

| | Skills | |
|---|--|--|
| 1- The student should use the tools correctly | 1- The student must bring the necessary materials | |
| 2- That the student | 2- That the student performs the appropriate procedures for the situations | |
| applies what he has | he faces | |
| learned in practice | | |

| 1- Good knowledge of the | 1- Good knowledge of medical terminology |
|----------------------------|---|
| principles | 2- Good knowledge of the English language |
| of | |
| anesthesiology and related | |
| sciences | |
| 2- Technical ability in | |
| his field of work and | |
| monitoring the patient's | |
| vital signs | |
| during anesthesia. | |
| Ethics | |
| 1- Working as a team | 1- Commitment to the ethics of the university institution |
| 2- That the student | 2- Receiving information and cognitive receptivity |
| recognizes the importance | |
| of the academic subjects. | |

9. Teaching and Learning Strategies

1-Classroom education through theoretical and practical lectures 2-

Learning through hospitals

3-Preparing scientific reports and research

10. Evaluation methods

- 1. Daily exams
- 2. Homework.
- 3. Semester and final exams

.11 Teaching staff

Faculty members

| | ı | faculty members | | | |
|--|--------------------------|---------------------|--|------------|----------|
| Names | Speci | ialization | Requirements Private Task art) I that found(| s The Auth | ority |
| | Gene | eral flour | | angel | lecturer |
| Dr. Amir Aboud Karim | medical technologies | | | / | |
| Prof. Dr. Ali Hassan Khader | to drug | to drug | | | / |
| Asst. Prof. Dr. Ahmed Adnan Abdul Hussein | chemistry | Biochemistry | | / | |
| Asst. Prof. Dr. Ahmed Jassim Mohammed | chemistry | Clinical | | / | |
| Asst. Prof. Dr. Zahraa Hamid Awda | Biology | Microscopic biology | | | |
| Dr. Basem Mohammed Jabbar | Anesthesiologist | Anesthesiologist | | | / |
| Dr. Ahmed Mekki | Anesthesiologist | Anesthesiologist | | | / |
| Dr.Sajjad Muhammad . Maher | Anesthesiologist | Anesthesiologist | | | / |
| Dr. Baha Hussein Mahmoud | Anesthesia Board | Anesthesiologist | | | / |
| r. Muntadhar Riad Lafta | Biology | Microscopic biology | | / | |
| Dr. Anmar Hamid Balwa | chemist ry | Clinical Chemistry | | / | |
| As.LAhmed Rahi Abdel . | Anesth esiologi st | Anesthesiologist | | / | |
| Dr. Abu Talib Hashim Ahmed | law | law | | / | |
| As.LEnaam Mahdi . Dawood | Physiology | Physiology | | / | |
| As.LHadeel Thaer . Ahmed | Biology | Biology | | | |

| As.LZeina Mohamed . chemistry Vital Hatem S.LZahraa Jalil Salman . chemistry Clinic As.LMays Kazim Alawi . Biology parasir | |
|---|-------------|
| Sizzani aa dani saman . Chemsery | cal / |
| As I Mays Kazim Alawi Biology narasi | |
| As.LMays Kazim Alawi . Biology parasit | tes / |
| Dr. Hussein Attia Saleh Arab Arab | b / |
| As.LRuqayya Saad Naji . Biology parasi | tes / |
| Dr. Hassanein Fadel Physiology Physiol Mohammed | logy / |
| s.LHaider Abdel Moneim Biology Techniq Mohammed | ques / |
| As.LMayada Mardan . Biology Abdel | |
| As.LElaf Subaih Jawad . chemistry Biochem | nistry / |
| Dr. Ghaith Fayez Faleh doctor to dru | ıg / |
| As.LAqil Muslim Adel . nursing nursing | ng / |
| uaa Alaa Hassan .Biology Biology Biolog | gy / |
| s.LSalam Razzaq Miftah . Biology Microscopic | e biology / |
| s.LOsama Qasim Abdul . Calculators Systems comput | |
| As.LMuzaffar Adnan . nursing nursing Yahya | ng / |
| As.LD. Khamail Arif . Biology Microscopic Mahdi | e biology / |
| As.LZahraa Hamza . chemistry chemis | stry / |
| Ruwa KareemAs.L Biology immun Sarhan | nity / |
| As.LSamara Karim Calculators Calcula | tors |
| Mr. Asaad Musayyib nursing nursing Musayyib | ng / |
| Tamim Yaqoub Ibrahim[surgery Anesthesic | Ŭ I |
| Or. Hamad Turki Noman Anesthesiologist Anesthesio | ologist / |
| Amir Jasb Jabbar Anesthesiologist Anesthesio | ologist / |
| Iuhammad Qasim Abdul Hassan JabbarAnesthesiologist AnesthesiologistAnesthesiologist | ologist / |

| Hussein Dr. Baha Mahmoud | Anesthesiologist (board) | Anesthesiologist | | / |
|-----------------------------|--------------------------|------------------|--|---|
| Hello Malik Karim Abdel | Anesthesiologist | Anesthesiologist | | / |
| Hanan Hamid Shaker | Anesthesiologist | Anesthesiologist | | / |

Professional Development

Mentoring new faculty members

Directing new faculty members to the necessity of working on developing the scientific curriculum, methods of delivering scientific lectures, and how to deliver the scientific material to the student.

Professional development of faculty members

Working to find development ideas and working to develop scientific laboratories and the practical aspect, since the students' specialization is a scientific specialization.

12. Acceptance Criterion

- 1. Average for secondary studies and central admission according to the regulations of the Ministry of Higher Education and Scientific Research
- 2. Interview the student and determine his personal and physical qualifications.
- 13. The most important sources of information about the **Program**
- 1- Textbooks prescribed by the Ministry of Higher Education and Scientific Research
- 2- External scientific sources
- 3- Use of libraries and the Internet

14. Program Development Plan

The department has many methodological and research plans in order to develop the department and the scientific environment, as the department presidency, the department council, and the scientific committee work to provide all requirements for the development of the department.

| | | | Pr | ogran | Skills | Outli | ne | | | | | | | | |
|----------------------|----------------|----------------|----------|-----------|------------------------------------|-------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| | | | | | Required program Learning outcomes | | | | | | | | | | |
| Year/Level | Course Code | Course Name | Basic or | | Kn | owled | ge | | | | Skills | | | | Ethics |
| | | | optional | A1 | A2 | A3 | A4 | B1 | B2 | В3 | B4 | C1 | C2 | C3 | C4 |
| 2024-2025 | AT111 | medical | Basic | V | V | V | 1 | V | $\sqrt{}$ | 1 | $\sqrt{}$ | V | √ | V | |
| The first | | physics (1) | | | | | | | | | | | | | |
| stage - The first | AT112 | | Basic | $\sqrt{}$ | V | V | √ | $\sqrt{}$ | $\sqrt{}$ | $\sqrt{}$ | $\sqrt{}$ | $\sqrt{}$ | | $\sqrt{}$ | $\sqrt{}$ |
| course | | anatomy (1) | | , | , | , | | | 1 | | 1 | | | | |
| | AT113 | Genera | Basic | V | V | V | √ | V | $\sqrt{}$ | √ | $\sqrt{}$ | | $\sqrt{}$ | √ | $\sqrt{}$ |
| | | physiolog | | | | | | | | | | | | | |
| | | y | | | | | | | | | | | | | |
| | | (1) | | | | | | | | | | | | | |
| | AT114 | general | Basic | V | V | V | $\sqrt{}$ | V | 1 | V | 1 | | 1 | 1 | |
| | | chemistry)1) | | | | | | | | | | | | | |
| | AT115 | | Basic | $\sqrt{}$ | | | | | $\sqrt{}$ |
| | | Biology | | , | | , | , | , | | | | | | ļ, l | |
| | AT116 | | Optional | V | V | V | V | V | | | | √ | $\sqrt{}$ | $\sqrt{}$ | |
| | | English | | , | , | , | , | , | , | | 1 | | | | |
| | AT117 | computer | Optional | V | V | V | √ | V | $\sqrt{}$ | V | $\sqrt{}$ | | | | |
| | | principles (1) | | | | | | | | | | | | Į | · |

| | AT118 | Human rights | Optional | √ | V | √ | √ | | | | | V | 1 | $\sqrt{}$ | $\sqrt{}$ |
|-----------------|-------|---------------------|----------|-----------|----------|---|-----------|---|----------|---|---|---|---|-----------|-----------|
| | | and | | | | | | | | | | | | | |
| | | democracy | | | | | | | | | | | | | |
| 2024-2025 | AT121 | medical | Basic | √ | √ | √ | √ | √ | √ | √ | V | V | 1 | 1 | |
| The first stage | | physics (2) | | | | | | | | | | | | | |
| The second | AT122 | | Basic | V | V | √ | √ | V | V | V | V | | √ | | |
| course | | anatomy (2) | | | | | | | | | | | | | |
| | AT123 | Genera | Basic | V | V | V | √ | √ | √ | √ | V | V | 1 | | |
| | | 1 | | | | | | | | | | | | | |
| | | physiolog | | | | | | | | | | | | | |
| | | y | | | | | | | | | | | | | |
| | | (2) | | | | , | , | | | , | | , | | | |
| | AT124 | Biochemistry | Basic | $\sqrt{}$ | V | V | $\sqrt{}$ | √ | V | V | | V | V | | V |
| - | AT125 | Microbiology | | V | V | V | V | V | V | V | V | V | V | V | |
| | AT126 | computer | Optional | V | V | √ | √ | √ | √ | V | V | | √ | | √ |
| | | principles (2) | | | | | | | | | | | | | |
| | AT127 | Arabic | Optional | V | V | V | V | | V | V | V | V | V | V | V |
| 2024-2025 | AT21 | Foundations of | Basic | V | V | V | 1 | 1 | V | V | V | V | V | V | V |
| | 01 | anesthesia1 | | | | | | | | | | | | | |

| The second stage The first | AT21 2 | Basics of anesthesia devices1 | Basic | V | V | V | V | V | V | V | V | V | V | V | |
|----------------------------------|------------|---|----------|-----------|----------|---|-----------|-----------|---|-----------|---|-------|---|-----------|-----------|
| course | AT213 | Applied physiology1 | Basic | $\sqrt{}$ | √ | √ | $\sqrt{}$ | $\sqrt{}$ | √ | $\sqrt{}$ | V | √ | V | $\sqrt{}$ | $\sqrt{}$ |
| | AT21 4 | Foundation s of internal medicine1 | Basic | V | V | V | V | V | V | V | V | V | V | V | V |
| | AT21 5 | Fundamental s of surgery1 | Basic | V | V | V | V | V | V | V | V | V | V | V | √ |
| | AT21 6 | Pharmacokin etics1 | Basic | V | √ | V | V | V | V | 1 | 1 | V | 1 | V | V |
| | AT21 7 | Medical terms | Basic | V | V | V | V | V | V | 1 | V | V | V | V | $\sqrt{}$ |
| | AT21 8 | Baath Party crimes | Optional | V | √ | V | V | V | V | V | 1 | V | 1 | V | √ |
| 2024-2025 The second phase | AT22 01 | Foundations of anesthesia2 | Basic | V | , | V | V | V | V | V | V | V | V | V | V |
| The second course | AT22 2 | Basics of anesthesia devices2 | Basic | V | V | V | √ | V | V | √ | V | V | V | V | √ , |

| | AT22 | Applied physiology2 | Basic | V | V | √ | √ | V | V | V | V | V | √ | V | √ . |
|--------------------------|---------------|-------------------------------------|----------|----------|----------|----------|---|---|---|----------|---|---|----------|-----------|-----|
| | AT22 4 | Foundation s of internal | Basic | V | V | V | √ | V | V | V | V | V | V | V | V |
| | AT22 5 | medicine2 Fundamental s of surgery2 | Basic | V | V | V | √ | V | V | √ | V | V | V | V | V |
| | AT22 6 | Pharmacokin etics2 | Basic | V | V | V | 1 | V | V | V | V | V | V | V | V |
| | AT22 7 | Statistics | optional | 1 | V | 1 | V | V | V | V | V | | V | | |
| | MU05322 08 | Arabic | optional | 1 | V | 1 | V | V | | | 1 | V | V | V | V |
| 2024-2025 third stage | AT311 | Anesthesia1 | Basic | 1 | V | 1 | V | V | V | V | V | V | V | $\sqrt{}$ | V |
| (First course) | AT312 | Intensive care techniques1 | Basic | V | V | V | 1 | V | V | √ | V | V | V | V | V |
| | AT313 | Anesthesia device techniques1 | Basic | V | V | V | 1 | V | 1 | 1 | V | | 1 | 1 | |
| | AT314 | Internal Medicine1 | Basic | V | V | V | V | V | V | V | V | V | V | V | √ |

| | AT31 | | Basic | V | V | V | V | V | V | V | V | √ | V | V | V |
|--------------------|-------------|--------------------|----------|---|-----------|---|---|---|---|---|-----------|-----------|-----------|--------------|-----------|
| | 5 | Surgery1 | | | | | | | | | | | | | |
| | MU05331 | computer | Optional | V | V | V | V | √ | √ | V | $\sqrt{}$ | | | V | V |
| | 06 | applications1 | | | | | | | | | | | | | |
| 2024-2025 | AT32 | | Basic | V | | | | V | | | | $\sqrt{}$ | $\sqrt{}$ | $\sqrt{}$ | $\sqrt{}$ |
| third stage | 01 | Anesthesia2 | | | | | , | | | , | | | , | , | |
| | AT32 | Intensive | Basic | | V | | √ | V | √ | √ | V | V | $\sqrt{}$ | $\sqrt{}$ | $\sqrt{}$ |
| (second course) | 02 | care technique2 | | | | | | | | | | | | | |
| | AT32 | Anesthesia | Basic | V | V | V | | V | V | | $\sqrt{}$ | √ | $\sqrt{}$ | $\sqrt{}$ | V |
| | 03 | device | | | | | | | | | | | | | |
| | | techniques2 | | , | | | , | | | | | , | | , | |
| | AT32 | Internal | Basic | V | V | | V | V | √ | | $\sqrt{}$ | √ | V | $\sqrt{}$ | V |
| | 04 | Medicine2 | | | , | | | | | | | | | | |
| | AT32 | | Basic | | V | √ | √ | V | √ | √ | V | $\sqrt{}$ | √ | $\sqrt{}$ | $\sqrt{}$ |
| | 05 | Surgery2 | | | | | | | | | | | | | |
| | AT32 | computer | Optional | | | V | | | V | | | | | \checkmark | $\sqrt{}$ |
| | 06 | applications2 | | | | | | | | | | | | | |
| 2024-2025 | AT40 | | Basic | V | V | V | √ | V | V | 1 | V | | 1 | 1 | V |
| The fourth | 01 | Anesthesia3 | | | | | | | | | | | | | |
| stage | AT40 | Anesthesia | Basic | V | $\sqrt{}$ | V | | | | ~ | $\sqrt{}$ | √ | $\sqrt{}$ | \checkmark | |
| | A 140 02 | device | | | | | | | | | | | | | |
| | 02 | techniques3 | | | | | | | | | | | | | |

| annual | AT40 | Intensive | Basic | 1 | V | √ | 1 | 1 | √ | √ | V | V | V | V | √ , |
|--------|-------------|-------------|--------|---|---|---|---|---|---|---|---|-----------|---|---|-----------|
| | 03 | care | | | | | | | | | | | | | |
| | | techniques2 | | | | | | | | | | | | | |
| | A T/10 | Surgic | Basic | V | V | | √ | √ | √ | V | V | $\sqrt{}$ | √ | √ | $\sqrt{}$ |
| | AT40 | al | | | | | | | | | | | | | |
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| Evaluation method | Learning method | Strations, ,Theory, prac Open .ssion methoddime Name of the unit or topic | Required learning outcomes | ork Methods d discu-three Course structu watches | Strategy ire • week |
| Evaluation method Theoretical tests in -person practical tests in | Learning | Name of the unit or topic Introduction to biology, the cells, prokaryotic and eukaryotic cells, animal and plant cells | etical laboratory wasional models, an Required learning | ork Methods d discu-three Course structu | Strategy ire • week |
| Evaluation method Theoretical tests in -person practical | Learning method Lecture Practical application in the | Name of the unit or topic Introduction to biology, the cells, prokaryotic and eukaryotic cells, | Required learning outcomes | ork Methods d discu-three Course structu watches | Strategy ire • |

| tests in | laboratory | | | | |
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| Theoretical tests in - person practical tests in laboratories | Lecture Practical application in the laboratory | Cell division: Amitosis, Mitosis and Meiosis | Understanding the lecture | -2 Theoretical My work -2 | 3.9 |
| Theoretical tests in -person practical tests in laboratories | Lecture Practical application in the laboratory | Nucleic acid: DNA and RNA, DNA Replication | Understanding the lecture | Theoretical My work -2 | 7-8 |
| Theoretical tests in -person practical tests in laboratories | Lecture Practical application in the laboratory | Protein biosynthesis | Understanding the lecture | -2 eticalTheor My work -2 | 9 |
| Theoretical tests in -person practical tests in laboratories | Lecture Practical application in the laboratory | Human body tissues: Epithelial tissues | Understanding the lecture | -2 Theoretical My work -2 | 10-11 |
| Theoretical tests in -person practical tests in laboratories | Lecture Practical application e in th laboratory | Muscular and Nervous tissues | Understanding the lecture | -2 Theoretical My work -2 | 12-13 |
| Theoretical tests in -person cal practi tests in laboratories | Lecture Practical application in the laboratory | Connective tissues: Bone and cartilage | Understanding the lecture | -2 Theoretical My work -2 | 14 |
| Theoretical tests in -person practical tests in aboratories | Lecture Practical application in the laboratory | Blood (RBC and WBC) and lymph | Understanding the lecture | -2 Theoretical My work -2 | 15 |

Course Evaluation

the audience Participation Peer evaluation Weekly reports

Learning and teaching resources

| 1- Human Biology. 12th ed., Sylvia et al., 2012 2- Review Of Medical Microbiology And Immunology. by Warren Levinson. 1- Essential of Cell Biology. 3rd ed., Albert Barry et al.,2010. | (Main references (sources |
|--|--|
| - Nature -Science - E. book and websites | Recommended supporting books and (references (scientific journals, reports |
| Medical website | Electronic references, websites |

Course Description Form

Form Course Description

| Course name | |
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| Anatom | |
| Course code | |
| Atu_chm AT11 | |
| semester/year | |
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| Available attendance forms | |
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| objectives Course | |
| s organs Course objective | oducing the student to the body's organs |

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each organ Identify the parts that make up.
tinguish the tissues that make up each
organ

ntify the specialized functions of organs and

tissues

Teaching and learning strategies

Strategy

ures, visual and video ,Theory, practical laboratory, hospital Methods dimensional models, and open discussion method-eedemonstrations, thr

Course structure . Evaluation Learning Name of the unit or Required watches week method method topic learning outcomes Theoretical ectureL Introduction. Understanding tests in person Practical the lecture Theoretical Anatomical terms. practical application My -2 tests in in the work laboratories laboratory Theoretical Lecture and Body cavities and Understanding tests in person practical the lecture Theoretical its organs. practical application My -2 tests in in the work laboratories laboratory Theoretical Lecture Superficial Understanding . tests in person Practical the lecture Theoretical anatomy of human practical application My -2 body. tests in in the work laboratories laboratory Theoretical Lecture Human body Understanding tests in person Practical the lecture Theoretical tissues; types and practical application My -2 characteristics. tests in in the work laboratories laboratory Theoretical Lecture Skin anatomy and Understanding tests in person Practical turethe lec Theoretical its functions skin practical application My -2 color. tests in in the work laboratories laboratory Theoretical Lecture General skeletal Understanding Practical tests in person the lecture Theoretical stricture (Skull, practical application My -2 limbs). tests in in the work laboratories laboratory Theoretical Lecture Vertebral column Understanding -2 .

| tests in person practical - tests in laboratorics | e in th | stricture, numbers and its function. | the lecture | Theoretical My -2 work | |
|---|---|---|------------------------------|------------------------------------|---|
| Theoretical tests in person practical - tests in laboratories | Lecture Practical application in the laboratory | Diaphragm and abdominal wall muscles. | Understanding the lecture | Theoretical My -2 work | |
| Theoretical tests in person practical - tests in laboratories | Lecture Practical application in the laboratory | Anatomy of heart, wall, valve and its function | Understanding the lecture | Theoretical My -2 work | • |
| Theoretical tests in person practical - tests in laboratories | Lecture Practical application in the laboratory | Structure of blood vessels wall arteries, veins and capillaries. | Understanding the lecture | -2 Theoretical My -2 work | • |
| Theoretical tests in person practical - tests in laboratories | Lecture Practical application in the laboratory | Lymphatic system – lymph glands | Understanding e lectureth | Theoretical My -2 work | • |
| Theoretical tests in person practical - tests in laboratories | ectureL Practical application in the laboratory | Respiratory system – upper respiratory tract. | Understanding the lecture | Theoretical My -2 work | • |
| Theoretical tests in person practical - tests in laboratories | Lecture Practical application in the laboratory | Respiratory system- lover respiratory tract. | Understanding the lecture | Theoretical My -2 work | |
| Theoretical tests in person practical - tests in rieslaborato | Lecture Practical application in the laboratory | Alveoli-lungs- pleural activity. | Understanding the lecture | -2 Theoretical My -2 work | • |
| Theoretical ests in person practical - tests in laboratories | Lecture Practical application in the laboratory | Revision | Understanding the lecture | -2 Theoretical My -2 work | • |

the audience Participation Peer evaluation sWeekly report

| | Learning and teaching resources • |
|---|---|
| Clinical anatomy. 11th ed., Richard. snell, 2014. | (Main references (sources |
| - Nature -Science - E. book and websites | Recommended supporting books and references (scientific journals, reports) |
| Medical website | websites ,Electronic references |

Course Description Form

| | | on rorm | Course Description | | |
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| ategyStr ture • week | Course struwatches -2 Theoretical My -2 | y, hospital Meth demonstrations, t Required learning outcomes Understanding | Pry, practical laborator open discussion method- Name of the unit or topic Definition of physiology; cell physiology; cell membrane components and | Learning method Lecture Practical application in the | ation Evalu method Theoretical tests in person practical - tests in |

| practical - tests in laboratories | application in the laboratory | characteristics. | | My -2 work | |
|--|---|--|------------------------------|------------------------------------|---|
| Theoretical tests in person practical - tests in laboratories | Lecture Practical application in the laboratory | Contraction mechanism, fatigue, muscular pain | Understanding the lecture | Theoretical My -2 work | |
| Theoretical tests in person practical - tests in laboratories | Lecture Practical application in the laboratory | Types of nerve cells, functions of nerve impulse, synapses and reflexes | Understanding the lecture | Theoretical My -2 work | |
| Theoretical tests in person practical - tests in laboratories | Lecture Practical application e in th laboratory | Action potential of nerve and muscle fiber. | Understanding the lecture | Theoretical My -2 work | • |
| Theoretical tests in person actical pr - tests in laboratories | Lecture Practical application in the laboratory | Blood; functions, component, plasma and serum | Understanding the lecture | Theoretical My -2 work | • |
| Theoretical tests in person practical - tests in laboratories | Lecture Practical application in the laboratory | Red blood cells, shape, origin, Hb structure and anemia | Understanding the lecture | Theoretical My -2 work | • |
| Theoretical tests in person practical - tests in laboratories | Lecture Practical application in the laboratory | WBCs, platelets; functions, origin, structure | Understanding the lecture | Theoretical My -2 work | • |
| Theoretical ests in person practical - tests in laboratories | Lecture Practical application in the laboratory | Blood clotting mechanism | Understanding turethe lec | Theoretical My -2 work | • |
| Theoretical lests in person practical - tests in laboratories | Lecture Practical application in the laboratory | Cardiovascular system, heart valve cycle, HR conductive system. | Understanding the lecture | Theoretical My -2 work | • |
| l Theoretica ests in person practical - tests in laboratories | Lecture Practical application in the laboratory | Heart sounds and murmurs, ECG | Understanding the lecture | -2 Theoretical My -2 work | • |
| Theoretical ests in person | Lecture Practical | Blood pressure | Understanding the lecture | -2 Theoretical | • |

| | My -2 work | | | | application in the laboratory | practical - tests in laboratories |
|--------------------------------------|------------------------------|------------------------------|---|---------------------------------|--|---|
| • | Theoretical My -2 orkw | Understanding the lecture | espiratory system, Pleura, Types of mechanism of respiration. | | Lecture Practical application in the laboratory | Theoretical tests in person practical - tests in laboratories |
| • | Theoretical My -2 work | Understanding rethe lectu | Oxygen Transport and exchange | | Lecture Practical application in the laboratory | Theoretical tests in person practical - tests in laboratories |
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| ly reports | | | | | | |
| ly reports | Wee teaching resou | Learning and | | | no (2012) T | Wint |
| ly reports | Wee | Learning and | 2th ed). ers., pp.1371- luction Book of /B Saunders | gy(und tro fex d), | 1435 AC(1996).Int inology in T | humano Philadelphia: Gyton a toEndoci MedicalPhysi |
| ly reports ces • sourcesM | Weel teaching resour | mmended support | 2th ed). ers., pp.1371- luction Book of /B Saunders 925 | gy(unc tro Γex d), | endocrinolog Elsevier/Sau 1435 AC(1996).Int rinology in To ology.(9 th ed | humano Philadelphia: Gyton a toEndoci MedicalPhysi Co.I |

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| objectives Course | | | f the five | l nhenomena o | tify the physical |
| Course objective | | | relate them nt observes v, the durin ce, human | he course and r mena the studer ch as blood flow | oters covered in the ne medical phenor s practical life, suc t or brain pulse |
| learning strategies | Teaching and I | | Address Street | | |
| nde Stunten | hospital Method ns, threedemonstr | laboratory, n method-tio | y, practical pen discussion | video ,Theor al models, and o | res, visual and dimension |
| Course structure | | | | | |
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| Theoretical | 1-1-10-04-1-10-0-4 | | outcomes | | I COCCUL- |
|--|--|--|------------------------------|--------------------------------------|-----------|
| tests in person practical - tests in laboratories | Lecture Practical application in the laboratory | Physics of skeleton, pressure | Understanding the lecture | Theoretical -4 Practical | 1-2 |
| Theoretical tests in person practical - tests in laboratories | Lecture and practical application e in th laboratory | Energy, work and power of the body | Understanding the lecture | Theoretical -4 Practical | 3-5 |
| Theoretical tests in person practical - tests in laboratories | Lecture Practical application in the laboratory | Heat and cold in medicine | Understanding the lecture | -2 Theoretical -4 Practical | 6-7 |
| Theoretical tests in person practical - tests in laboratories | Lecture cal Practi application in the laboratory | Specific heat, heat capacity, latent heat, thermometer and it's kinds, heat transfer by conduction, convection and radiation. Regulation of heat through the human body. | Understanding the lecture | Theoretical -4 Practical | 8-9 |
| al Theoretic lests in person practical - tests in laboratories | Lecture Practical application in the laboratory | Boyle's law, diffusion and mixing of gases. | Understanding the lecture | Theoretical -4 Practical | 10 |
| Theoretical tests in person practical - tests in laboratories | Lecture Practical application in the laboratory | Physics of lung and breathing | Understanding the lecture | Theoretical -4 Practical | 11-13 |
| Theoretical tests in person practical - in tests laboratories | Lecture Practical application in the laboratory | Evaporation of liquids, vapor pressure and boiling point, humidity, laminar and trubulant flow in liquid. | Understanding the lecture | Theoretical -4 Practical | 14-15 |

Course Evaluation

the audience Participation Peer evaluation Weekly reports

Learning and teaching resources

| Medical Physics. 12th ed., Sylvia et al., 2012. Essential of Medical Physics. 3rd ed., Albert Bary et al., 2010. | (Main references (sources | |
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| scientific journals | Recommended supporting books and references (scientific journals, reports) | |
| Medical website | Electronic references, websites | |

| | Course name |
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| | Course code Course code |
| | ATU_CHM AT11 |
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| | objectives Course |

eral objective: At the end of the current academic form various -year, the student will be able to: quantitative analyses of techniques of descriptive a sponents in blood and other body fluids in humans in health and disease

Course objectives

Teaching and learning strategies •
ures, visual and video ,Theory, practical laboratory, hospital Methods
models, and open discussion method dimensional-demonstrations, three

| Evaluation | Learning | Name of the said | 1 | Course struct | The same of the sa |
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| method | method | Name of the unit or topic | Required learning outcomes | watches | week |
| Theoretical tests in person practical - tests in laboratories | Lecture Practical application in the laboratory | Scope of biochemistry in health and disease, cell and cell components. | Understanding the lecture | Theoretical My -2 work | • |
| Theoretical tests in person practical - tests in laboratories | Lecture and practical application in the laboratory | Some aspects of physical chemistry, Gas laws, Boyle's law, Graham's Law of diffusion, Dalton's Law of partial pressure, General gas equation, the international system of units. | Understanding the lecture | Theoretical My -2 work | • |
| Theoretical tests in person practical - tests in laboratories | Lecture Practical application in the laboratory | Radio activity and radioactive isotopes. | tanding Unders the lecture | Theoretical My -2 work | • |
| Theoretical tests in person practical - tests in laboratories | Lecture Practical application in the laboratory | Solutions and methods of expressing colloidal solution concentrations. | Understanding the lecture | Theoretical My -2 work | • |
| Theoretical tests in person practical - tests in laboratories | Lecture Practical application in the laboratory | The PH concept, acid- base balance, chemical balance, common ion effect. | Understanding the lecture | -2 Theoretical My -2 work | • |
| Theoretical tests in person practical - tests in laboratories | Lecture Practical application in the laboratory | Buffer and buffer systems of physiological importance in living systems. | Understanding the lecture | -2 Theoretical My -2 work | • |
| Theoretical | Lecture | Blood, blood | Understanding | -2 | |

| | Theoretical My -2 work | the lecture | components, body fluids, regulation of blood Ph and body fluids. | ctical Pra application in the laboratory | tests in person practical - tests in laboratories |
|---|------------------------------|-------------------------------|--|--|---|
| | Theoretical My -2 work | Understanding the lecture | Water and electrolyte balance – osmotic pressure of body fluids, control of total electrolytes and body fluids. | Lecture Practical application in the laboratory | Theoretical tests in person practical - tests in laboratories |
| , | Theoretical My -2 work | Understanding the lecture | Carbohydrate classification reactions, main carbohydrates in the human body. | ureLect Practical application in the laboratory | Theoretical tests in person practical - tests in laboratories |
| | Theoretical My -2 work | Understanding the lecture | Metabolism of carbohydrates, blood glucose factors controlling glucose level in blood. | Lecture Practical application in the laboratory | Theoretical tests in person practical - tests in laboratories |
| | Theoretical My -2 work | Understanding the lecture | Glucose abnormalities, diabetes mellitus, ketosis, glycosuria, glucose tolerance curve. | Lecture ctical Pra application in the laboratory | Theoretical tests in person practical - tests in laboratories |
| • | Theoretical My -2 work | Understanding the lecture | Lipids, classification, derived lipids, compound, lipids. | Lecture Practical application in the orylaborat | Theoretical tests in person practical - tests in laboratories |
| | Theoretical My -2 work | Understanding the lecture | Lipid metabolism, lipid abnormalities. | Lecture Practical application in the laboratory | Theoretical tests in person practical - tests in laboratories |
| | Theoretical My -2 work | Understanding the lecture | Lipid metabolism, lipid abnormalities. | Lecture Practical application in the laboratory | Theoretical tests in person practical - tests in laboratories |
| | Theoretical My -2 work | ding Understan the lecture | Nucleic acids and their Expression, DNA Replication, Nutation, RNA Topology. | Lecture Practical application in the laboratory | Theoretical tests in person practical - tests in laboratories |

| | Learning and teaching resources • |
|--|---|
| Williams. (2012).Textbook of humanendocrinology(12th ed). Philadelphia:Elsevier/Saunders., pp.1371- 1435 Gyton AC(1996).Introduction toEndocrinology in Text Book of MedicalPhysiology.(9 th ed),WB Saunders Co.Philadelphia.,P.925 | (Main references (sources |
| - Nature -Science - E. book and websites | Recommended supporting books and references (scientific journals, reports) |
| Medical website | Electronic references, websites |

Description Form Course

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| hod ,Theory Meth | and open discussion met Name of the unit or | h new languages, visual aids, | lecture. | |
| Required learning | ge vocabulary and open discussion met | h new languag | .lectu | |
| Required learning outcomes | and open discussion met Name of the unit or topic | h new languages, visual aids, Learning method | lecture. | |
| Required learning outcomes Understanding | and open discussion met Name of the unit or | h new languages, visual aids, | .lecture Evaluation method | |
| Required learning outcomes | and open discussion met Name of the unit or topic | h new languages, visual aids, Learning method | Evaluation method Theoretical -and actual in person tests | |
| Required learning outcomes Understanding | and open discussion met Name of the unit or topic | h new languages, visual aids, Learning method | Evaluation method Theoretical -and actual in | |
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| Theoretical -and actual in person tests | Lecture | What do you want ? do to | Understanding the lecture | Theoretical | |
| Theoretical -and actual in person tests | Lecture | Tell me what's it like? | Understanding the lecture | -2 eoreticalTh | |
| Theoretical -and actual in person tests | Lecture | Famous couples | Understanding the lecture | -2 Theoretical | |
| Theoretical -and actual in person tests | Lecture | Do's and don'ts | Understanding the lecture | -2 Theoretical | |
| Theoretical -and actual in person tests | Lecture | Going places | Understanding the lecture | -2 Theoretical | |
| Theoretical -ual inand act person tests | Lecture | Search to death | Understanding the lecture | -2 Theoretical | |
| Theoretical and actual in person tests | Lecture | Things that change the world | Understanding the lecture | -2 Theoretical | |
| Theoretical and actual in person tests | Lecture | Dreams and reality | Understanding the lecture | -2 Theoretical | |
| Theoretical and actual in person tests | Lecture | Earnings a living | Understanding the lecture | -2 oreticalThe | U |
| Theoretical and actual in person tests | Lecture | Love you and leave you | Understanding the lecture | -2 Theoretical | Į, |
| Theoretical and actual in person tests | Lecture | Review | Understanding ethe lectur | -2 Theoretical | 89 |

| | Learning and teaching resources • |
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| New Headway Beginners Headway series | (Main references (sources |
| Research gate | books and references Recommended supporting (scientific journals, reports) |
| Google scholar Google books | Electronic references, websites |

| | Course name |
|---|---------------------------------------|
| | Human rights and democracy |
| | Course code |
| | Atu chm AT118 |
| | semester/year |
| | 2024-3 202 / tFirs |
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| | 2024/29/2 |
| | Available attendance forms |
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| | credits 2 -hours 30 |
| (Name of the course administrator (if r | nore than one name is mentioned |
| Occupation .A Al / | Asst, Prof. Dr. Waseem Abdullah :meNa |
| Loom shout the North Land | objectives Course • |
| Learn about the historical stages through which human rights have passed through and legal .religious legislation Understanding the concept of personal and freedoms according to religious laws, public . constitutions and laws Understanding equality based on gender, Understanding the concepts . belief, and race .of democracy | Course objectives |
| | Teaching and learning strategies • |
| , visual and video demonstrations, threelectu ,Theory, practica | dels, and discussion method |

| Evaluation method | Learning method | Name of the unit or topic | Required learning outcomes | watches | weel |
|---|--------------------|---|----------------------------------|-------------------|------|
| Theoretical -and actual in son testsper | Lecture | Human rights, their definition, and the importance of human rights in ancient civilizations, especially the civilization of the . Mesopotamian Valley Human rights in divine laws, with a focus on .human rights in Islam | Understanding the lecture | -2 Theoretical | 1 |
| Theoretical -and actual in person tests | Lecture | Human Rights in Contemporary and Modern History: International Recognition of Human Rights since World War I: The United Nations, Regional Recognition of Human Rights: European Convention 1950 ,son Human Right American Convention; 1969 ,on Human Rights ; African Charter on Human Rights, 1981; Arab Charter on , 1994. Human Rights governmental-Non organizations and human rights International) Committee of the Red Cross, Amnesty International, Human s Watch, national Right human rights .(organizations | Understanding the lecture | -2 Theoretical | |
| Theoretical and actual in person tests | Lecture | Human rights in ethnic constitutions between theory and reality. The relationship between human rights and : -1 in domspublic free the Universal Human Declaration of in regional -2 Rights charters and national | Understanding the lecture | -2 Theoretical | 3 |

| Theoretical | Lecture | constitutions Formula social and | T1 1 1 11 | | |
|---|---------|---|------------------------------|-------------------|---|
| -and actual in person tests | | Economic, social and cultural human rights, hts andcivil human rights: the realities of development, the right to a clean environment, the right to solidarity, the right to religion | Understanding the lecture | -2 Theoretical | • |
| Theoretical -and actual in person tests | Lecture | Guarantees of respect and protection of for human rights at the national level, guarantees in the constitution and laws, guarantees in the principle of the rule of law, guarantees in constitutional oversight, guarantees in freedom of the press and public opinion, the role of non overnmental g organizations in respecting and protecting human rights. Guarantees of respect for and protection of human rights at the :- international level The role of the United Nations and its specialized agencies in - providing guarantees egional The role of r organizations (the Arab League, the European Union, the Organization of American States , the ASEAN Organization.) The role of international, regional, governmental -non organizations and the public opinion in respecting and cting human prote | the lecture | Theoretical | |

| | | | rights | | |
|----|-------------------|-------------------------------|--|---------|---|
| | -2 Theoretical | Understanding the lecture | General Theory of Liberties: Origin of rights and liberties, the project's position on declared rights and liberties, use of the term The ". bertiespublic li" legal basis for the rule . of law | Lecture | Theoretical -and actual in person tests |
| 3 | -2 Theoretical | Understanding the lecture | Regulation of public freedoms by public Equality: authorities The historical development of the ity. The concept of equal modern development of the idea of equality Gender equality Equality between individuals according to their beliefs and race | Lecture | Theoretical -and actual in person tests |
| 8 | -2 Theoretical | Understanding the lecture | Definition -Democracy Concepts of -Types - Democracy | Lecture | Theoretical and actual in person tests |
| 9 | -2 Theoretical | Understanding the lecture | Democracy in the Third World, Democratic Systems in the World | Lecture | Theoretical and actual in person tests |
| 10 | Theoretical | tanding Unders the lecture | The concept of freedoms, classification of public freedoms, fundamental freedoms, intellectual freedoms, economic and social freedoms | Lecture | Theoretical and actual in person tests |
| 11 | -2 Theoretical | Understanding the lecture | security Freedom of and feeling safe, freedom of coming and going, freedom of education, freedom of the press, freedom of assembly | Lecture | Theoretical and actual in person tests |
| 12 | -2 Theoretical | Understanding the lecture | Freedom of association, ght freedom of work, ri to own property | Lecture | Theoretical and actual in person tests |
| 13 | -2 Theoretical | Understanding the lecture | | Lecture | Theoretical and actual in |

| Hu | man Rights V | Vatch | | oks and Rec (references (se | ommended s | upportin |
|---|-------------------|--|-------|--------------------------------|-------------------|-----------------------|
| | Atak | Company, Cairo, 2013-Al | | (| Main references | (source |
| dh Aziz Hadi, Hu | man Richts: Its I | Development and Content, | | | eaching resourc | |
| | | | | | Weekl | y report |
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| | | | | | | audienc |
| | | | | | Course Evaluati | on |
| Theoretical nd actual in tests person | Lecture | The future of pub freedoms | die U | nderstanding the lecture | -2 Theoretical | 1 |
| nd actual in person tests | Lecture | tical parties and I public freedoms scientific and technological prog- and public freedo | ress | Inderstanding the lecture | -2 Theoretical | 1 |
| person tests Theoretical | Torres | women | | | | |

| Course name | |
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| -4 Practical | | power of the body | application in the laboratory | practical - tests in laboratories |
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| Theoretical -4 Practical | Understanding the lecture | Heat and cold in medicine | Lecture actical Pr application in the laboratory | Theoretical tests in person practical - tests in laboratories |
| Theoretical -4 Practical | Understanding the lecture | Specific heat, heat capacity, latent heat, thermometer and it's kinds, heat transfer by conduction, convection and radiation. Regulation of heat through the human body. | Lecture Practical application in the laboratory | Theoretical tests in person practical - tests in laboratories |
| -2 Theoretical -4 Practical | Understanding the lecture | Boyle's law, diffusion and mixing of gases. | Lecture Practical application in the laboratory | Theoretical tests in person practical - tests in laboratories |
| -2 Theoretical -4 Practical | Understanding the lecture | Physics of lung and breathing | Lecture Practical tion applica in the laboratory | Theoretical tests in person practical - tests in laboratories |
| -2 Theoretical -4 Practical | Understanding the lecture | Evaporation of liquids, vapor pressure and boiling point, humidity, laminar and trubulant flow in liquid. | ctureLe Practical application in the laboratory | Theoretical tests in person practical - tests in laboratories |
| | Practical -2 Theoretical -4 Practical -4 Practical -4 Practical | Understanding the lecture the | Heat and cold in medicine Specific heat, heat capacity, latent heat, thermometer and it's kinds, heat transfer by conduction, convection and radiation. Regulation of heat through the human body. Boyle's law, diffusion and mixing of gases. Physics of lung and breathing Evaporation of liquids, vapor pressure and boiling point, humidity, laminar and trubulant flow in | In the laboratory Lecture actical Pr application in the laboratory Lecture Practical application of heat through the human body. Lecture Practical application in the laboratory Lecture Practical breathing Lecture Practical application in the laboratory Lecture Practical tion applica in the laboratory ctureLe Practical application in the laboratory ctureLe Practical application in the laboratory ctureLe Practical application in the laboratory ctureLe Practical tion application in the laboratory ctureLe true Le Practical boiling point, humidity, laminar and trubulant flow in |

| | Learning and teaching resources • |
|--|--|
| Medical Physics. 12th ed., Sylvia et al., 2012. Essential of Medical Physics . 3rd ed., Albert Bary et al., 2010. | (Main references (sources |
| scientific journals | Recommended supporting books and references (scientific journals, reports) |
| Medical website | Electronic references, websites |

| ame . | | | | | |
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| | Course i | | | | |
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| gies • | d learning strate | A STATE OF THE PARTY OF THE PAR | ory, practical laborator | d video ,The | ares, visual and dimensio |
| gies • Strategy | d learning strate nods hree | y, hospital Metl demonstrations, tl | open discussion method- | mar mouces, and | 7770 |
| Strategy | nods | y, hospital Meth demonstrations, th | open discussion method- | | |
| Strategy | nods hree | y, hospital Meth demonstrations, the Required learning outcomes | Name of the unit or topic | Learning method | Evaluation method |
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| Theoretical tests in person practical - tests in laboratories | Lecture Practical application in the laboratory | Oxidation-reduction litration, standardization of permanganate solution against oxalic acid | Understanding the lecture | Theoretical My -2 kwor | • |
| Theoretical tests in person practical - tests in laboratories | Lecture Practical application in the laboratory | Determination of serum calcium | Understanding the lecture | Theoretical My -2 kwor | • |
| Theoretical tests in person practical - tests in laboratorics | Lecture Practical application in the laboratory | Flame photometry. Determination of sodium and potassium in serum | Understanding the lecture | Theoretical My -2 work |). |
| Theoretical tests in person practical - tests in laboratories | Lecture Practical application in the laboratory | Carbohydrates: general reactions for carbohydrates reductions of monosaccharides, Molisch's fehling test, Benedict test, Barfoed's test, Ny- lander's test selivanoff's test, Moor's test Action | Understanding the lecture | -2 Theoretical My -2 work | • |
| Theoretical tests in person practical - tests in laboratories | Lecture Practical application in the laboratory | Paper chromatography of carbohydrates | Understanding the lecture | -2 calTheoreti My -2 work | • |
| Theoretical tests in person practical - tests in laboratories | Lecture Practical application in the laboratory | Disaccharides. Reactions of reducing disaccharides, Molisch. | Understanding the lecture | Theoretical My -2 work | • |
| Theoretical tests in person practical - tests in laboratories | Lecture Practical application in the laboratory | Test, fehling test, benedict test, barfood test trummer's test, | Understanding the lecture | Theoretical My -2 work | • |
| Theoretical tests in person practical - tests in laboratories | Lecture Practical application in the ylaborator | phenyl hydrazine test | Understanding the lecture | Theoretical My -2 work | • |
| Theoretical tests in person practical - | Lecture Practical application | Reaction of non- reducing disaccharides test for sucrose, acid | Understanding the lecture | Theoretical My -2 | • |

| in the aboratoryl | hydrolysis, hydrochloric acid test . | | work | |
|---|---|---|---|--|
| Lecture Practical application in the laboratory | Polysaccharides, reactions of polysacchorides microscopic appearance of starch grains, solubility in water, iodine test, precipitation by alcohol, precipitation by ammonium, sulphate hydrolysis by acid | Understanding the lecture | Theoretical My -2 work | |
| Lecture Practical application in the laboratory | Lipid metabolism, lipid abnormalities. | Understanding the lecture | Theoretical My -2 work | • |
| Lecture Practical application n the i laboratory | Lipid metabolism, lipid abnormalities. | Understanding the lecture | Theoretical My -2 work | • |
| Lecture Practical application in the rylaborato | Nucleic acids and their Expression, DNA Replication, Nutation, RNA Topology. | Understanding the lecture | -2 Theoretical My -2 work | • |
| | Lecture Practical application in the laboratory Lecture Practical application in the laboratory Lecture Practical application n the i laboratory Lecture Practical application n the i laboratory Lecture Practical application in the i laboratory | Lecture Practical application in the laboratory Lecture Practical application n the i laboratory Nucleic acids and their Expression, DNA Replication, Nutation, RNA Topology. | AboratoryI hydrochloric acid test . Lecture Practical application in the laboratory I hydrochloric acid test . Polysaccharides, reactions of polysacchorides microscopic appearance of starch grains, solubility in water, iodine test, precipitation by alcohol, precipitation by ammonium, sulphate hydrolysis by acid Lecture Practical application in the laboratory Lecture Practical application n the i laboratory Lecture Practical application in the company abnormalities. Lecture Practical application n the i laboratory Lecture Practical application in the Replication, Nutation, in the RNA Topology. Nucleic acids and their Expression, DNA Replication, Nutation, in the RNA Topology. | Aboratoryl hydrochloric acid test . Lecture Practical application in the laboratory Lecture Practical application in the laboratory Lecture Practical application by alcohol, precipitation by ammonium, sulphate hydrolysis by acid Lecture Practical application in the laboratory Lecture Practical application in the laboratory Lecture Practical application the laboratory Lecture Practical application n the i laboratory Lecture Practical application in the Road application in the laboratory Lecture Practical application n the i laboratory Lecture Practical application in the lecture laboratory Lecture Practical application n the i laboratory Lecture Practical application Replication, Nutation, nutati |

| ** cekiy reports |
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| Learning and teaching resources • |
| (Main references (sources |
| Recommended supporting books and references (scientific journals, reports) |
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Medical website

Electronic references, websites

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| -Actual in person theoretical tests | Lecture | Rules for writing the extended and solar -shortened alif r lettersand luna | Understanding the lecture | Theoretical | |
|--|---------|---|------------------------------|-------------------|----|
| -Actual in person theoretical tests | Lecture | Dad and Tha | Understanding the lecture | -2 Theoretical | 88 |
| -Actual in person theoretical tests | Lecture | Writing the hamza | Understanding the lecture | -2 Theoretical | |
| -Actual in person theoretical tests | Lecture | punctuation marks | Understanding the lecture | -2 Theoretical | ş |
| -Actual in person theoretical tests | Lecture | Noun, verb, and the difference between them | Understanding the lecture | -2 Theoretical | |
| -Actual in person theoretical tests | Lecture | Effects | Understanding the lecture | -2 oreticalThe | |
| -Actual in person theoretical tests | Lecture | number | Understanding the lecture | -2 Theoretical | |
| -Actual in person theoretical tests | Lecture | Common language ationserrors applic | Understanding the lecture | -2 Theoretical | |
| -Actual in person theoretical tests | Lecture | -Noon and Tanween Meanings of Prepositions | Understanding the lecture | -2 Theoretical | |
| -Actual in person theoretical tests | Lecture | Formal aspects of ative administr discourse | Understanding the lecture | -2 Theoretical | |
| -Actual in person theoretical tests | Lecture | The language of administrative discourse | Understanding the lecture | -2 Theoretical | |
| -Actual in person theoretical | Lecture | Samples of ve administrati correspondence | Understanding the lecture | -2 Theoretical | , |

| | | | | | tests |
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| • | -2 Theoretical | Understanding the lecture | Samples of administrative correspondence | Lecture | -Actual in person theoretical tests |
| uation • | Course Evalu | | PELEVIE DE | | |
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| objectives Course | | | | |
| Course objective | | the student should re,: - be able to explaindescribe ba n against pathogens | and its structur arasites, and | dentify the cell cteria and p |
| earning strategies | Teaching and | | | |
| - 1 Maria de la Companya de la Compa | cal laboratory w | ions, three ,Theory, practi Open .oddimensional | ideo demonstrat | ures, visual and v |
| ork Methods Strategy cussion meth | | | And the second | Evaluation |
| cussion meth Course structure | The state of the s | Name of the unit or | Learning | |

| method | method | topic | learning outcomes | | |
|---|---|---|------------------------------|---------------------------------|-------|
| ical Theoret tests in person practical tests - in laboratories | Lecture Practical application in the laboratory | The microorganism | Understanding the lecture | Theoretical My work -2 | 1 |
| Theoretical tests in person ests practical t - in laboratories | Lecture and practical application in the laboratory | Bacteria: classification, structure and functions. | Understanding the lecture | Theoretical My work -2 | 3-2 |
| Theoretical tests in person practical tests - in laboratories | Lecture Practical application in the laboratory | Media and culture | Understanding the lecture | -2 Theoretical My work -2 | 4-5 |
| Theoretical tests in person practical tests - in laboratories | Lecture Practical application in the laboratory | Antibiotics and Antibiotic resistance | Understanding turethe lec | -2 Theoretical My work -2 | 6 |
| Theoretical tests in person practical tests - in laboratories | Lecture Practical application in the laboratory | Fungi: characteristics, reproductive and classification, | Understanding the lecture | Theoretical My work -2 | 7-8 |
| Theoretical tests in person practical tests - in laboratories | Lecture Practical n applicatio in the laboratory | Virus: structure, classification and reproduction. | Understanding the lecture | Theoretical My work -2 | 9 |
| eoretical Th tests in person practical tests - in laboratories | Lecture Practical application in the laboratory | Parasite: introduction, parasite & host relationship, diagnosis | Understanding the lecture | Theoretical My work -2 | 10-11 |
| Theoretical tests in person practical tests - in laboratories | Lecture Practical application in the laboratory | Classes of parasite (protozoa, helminthes and ectoparasites) | Understanding the lecture | Theoretical My work -2 | 12-13 |
| Theoretical tests in person practical tests - in laboratories | Lecture Practical application in the laboratory | Helminthes: structure and classification. | Understanding the lecture | Theoretical My work -2 | 14 |
| Theoretical tests in person practical tests - | Lecture Practical application | The immune system, mechanism of immune system (innate and | Understanding the lecture | -2 eticalTheor My work -2 | 15 |

| | nity). | adaptive immunit | in the laboratory | in laboratories |
|--|--------|------------------|-------------------------------------|------------------------|
| Course Evaluation • | | | | |
| audience the Participation Peer evaluation Weekly reports | | | | |
| Learning and teaching resources • | | | | |
| (Main references (sources | et | | Of Medical Micr logy. by Warrer | 2- Review (Immunol |
| nended supporting books and (references (scientific journals, reports | R | osites | - Nature -Science book and we | - E. |
| Electronic references, websites | - | | Iedical website | N |

| Course na | me • |
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| :Name .A Al Osama Qasim Abdul Z | |
| objectives Cou | rse • |
| | objectives |

37

systems of the body in general and to perform ous techniques for analyzing blood and other body fluids

Teaching and learning strategies

ures, visual and video ,Theory, practical laboratory, hospital Methods dimensional models, and open discussion method-demonstrations, three

Strategy

| Evaluation | Learning | Name of the unit or | Deserted | Course struct | |
|--|---|------------------------------|----------------------------------|------------------------------------|------|
| method | method | Name of the unit or topic | Required learning outcomes | watches | weel |
| Theoretical tests in person practical - tests in laboratories | Lecture Practical application in the laboratory | Operating System | Understanding the lecture | Theoretical My -2 work | |
| Theoretical tests in person cal practi - tests in laboratories | Lecture and practical application in the laboratory | Hardware and software | Understanding the lecture | Theoretical My -2 work | 8.0 |
| Theoretical tests in person practical - tests in laboratories | Lecture Practical application in the laboratory | Files and folders | Understanding the lecture | Theoretical My -2 work | • |
| Theoretical tests in person practical - tests in laboratories | Lecture Practical application in the laboratory | Folders and files managing | Understanding cturethe le | -2 Theoretical My -2 work | |
| Theoretical tests in person practical - tests in laboratories | Lecture Practical application in the ratorylabo | Computer Hardware | Understanding the lecture | Theoretical My -2 work | • |
| Theoretical tests in person practical - tests in laboratories | Lecture Practical application in the laboratory | Tab settings | Understanding the lecture | Theoretical My -2 work | • |
| Theoretical tests in person practical - tests in laboratories | Lecture Practical application in the laboratory | Page setup | Understanding the lecture | -2 reticalTheo My -2 work | • |
| Theoretical tests in person practical - | Lecture Practical application | Microsoft Excel | Understanding the lecture | -2 Theoretical My -2 | • |

| | work | | | in the laboratory | tests in laboratories |
|-----|------------------------------|-------------------------------|-------------------------------|--|--|
| | Theoretical My -2 work | Understanding the lecture | Manipulating the contents | Lecture Practical application in the laboratory | Theoretical tests in person ical pract - tests in laboratories |
| • | Theoretical My -2 work | Understanding the lecture | Simple and complex formula | Lecture Practical application in the laboratory | Theoretical tests in person practical - tests in laboratories |
| • | Theoretical My -2 work | nding Understa the lecture | Working with charts | Lecture Practical application in the laboratory | Theoretical tests in person practical - tests in laboratories |
| • | Theoretical My -2 work | Understanding the lecture | Understanding power point | Lecture Practical on applicati in the laboratory | Theoretical tests in person practical - tests in laboratories |
| • | Theoretical My -2 work | Understanding the lecture | Managing slide object | Lecture Practical application in the laboratory | Theoretical tests in person practical - tests in laboratories |
| • | Theoretical My -2 work | Understanding the lecture | Internet Introduction | Lecture Practical application in the laboratory | Theoretical tests in person practical - tests in laboratories |
| • | Theoretical My -2 work | Understanding the lecture | Working with Email | Lecture Practical application in the laboratory | Theoretical tests in person practical - tests in laboratories |
| 1 5 | Course Evaluation | | | | |

Learning and teaching resources Jr., DHLF, 2012. Introduction to Microsoft (sources) Main references Office 2010. 2nd ed. sl:World scientific publishing. Mayne, R., 2915. Introduction to Windows. 2nd ed. sl:World scientific publishing

| Thomas Anderson, MD, 2014. Operating Systems: Principles and Practice. sl:University of Texas | |
|---|---|
| - E. book and websites | Recommended supporting books and references (scientific journals, reports) |
| website | Electronic references, websites |

| Course name | | | | | |
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| ment Basics 1 Anesthesia | Equip | | | | |
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| dul Zahra Sa'sa'a :Nam objectives Course | T. Pronamina Ao | | | | |
| Course objective | | he history of a and its types ndling the pati | the esia a Iandl reotic | verview of .anesthe anesthesiaH types of nare | Knowledge of all |
| | | ical equipment | | sur | ving now to t |
| learning strategies | Teaching and | | | sur | ving now to t |
| | hospital Metho | eory, practical laboratory, | rgical heor | l video ,T | res, visual and |
| ds Strategy | hospital Metho | ical equipment | rgical heor | l video ,T | res, visual and |

| | | | outcomes | | COLUMN TO A |
|---|---|---|------------------------------|---------------------------------------|-------------|
| Theoretical tests in person practical - tests in laboratories | laboratories | Operating room design and functioning | Understanding the lecture | - 1 Theoretical -4 Practical | 1 |
| Theoretical tests in person practical - tests in laboratories | Theoretical -material practical laboratories inside the anesthesia lab and operating room | Operating room design and functioning | Understanding the lecture | -1 Theoretical -4 Practical | 2 |
| Theoretical tests in person practical - tests in laboratories | Theoretical -material practical laboratories inside the anesthesia lab and operating room | Canula and giving set and device for intravenous infusion | Understanding the lecture | -1 Theoretical -4 Practical | 3 |
| Theoretical tests in person practical - tests in laboratories | Theoretical -material practical laboratories inside the anesthesia lab and operating room | Canula and giving set and device for intravenous infusion | Understanding the lecture | - 1 Theoretical -4 Practical | 4 |
| Theoretical tests in person practical - tests in laboratories | Theoretical -material practical laboratories inside the anesthesia lab and operating room | Physical principles: behavior of molecules of solid and liquid, heat and temperature | Understanding the lecture | - 1 Theoretical -4 Practical | 5 |
| Theoretical tests in person practical - n tests i | Theoretical -material practical laboratories | Physical principles: behavior of molecules of solid and liquid, heat and temperature | Understanding the lecture | - 1 Theoretical -4 cticalPra | 6 |

| laboratories | inside the anesthesia lab and operating room | | | | |
|---|--|--|-------------------------------|---------------------------------------|----|
| Theoretical tests in person practical - tests in laboratories | Theoretical -material practical laboratories he inside t anesthesia lab and operating room | Physical principles: properties of gases, temperature change in anaesthetic machine, and flow of fluid through tubes and orifice | Understanding the lecture | - 1 Theoretical -4 Practical | 7 |
| Theoretical tests in person practical - tests in laboratories | Theoretical -material practical laboratories inside the anesthesia lab and operating room | Physical principles: properties of gases, temperature change in anaesthetic machine, and flow of fluid through tubes and orifice | Understanding the lecture | - 1 Theoretical -4 Practical | 8 |
| Theoretical tests in person practical - tests in laboratories | Theoretical -material practical laboratories inside the anesthesia lab and operating room | Infusion equipment: patient control analgesia, filtration, autotransfusion | Understanding the lecture | - 1 Theoretical -4 Practical | , |
| Theoretical tests in person practical - tests in laboratories | Theoretical -material practical laboratories inside the anesthesia lab and operating room | Intra Infusion equipment: patient control analgesia, filtration, autotransfusion | ing Understand the lecture | - 1 Theoretical -4 Practical | 10 |
| Theoretical tests in person practical - tests in laboratories | Theoretical -material practical laboratories inside the anesthesia lab and operating room | The supply of anaesthetic gases, cylinders, oxygen concentrator | Understanding the lecture | -1 Theoretical -4 Practical | 11 |

| Theoretical tests in person practical - tests in laboratories | Theoretical -material practical laboratories inside the anesthesia lab and operating | The supply anaesthetic g cylinders, ox concentral | gases, ygen | Understanding the lecture | -1 Theoretical -4 Practical | 12 |
|---|--|--|---------------------|------------------------------|---------------------------------------|---|
| Theoretical tests in person practical - tests in laboratories | Theoretical -material practical laboratories inside the a anesthesi lab and operating room | Medical gas se bulk storage, and of gases, piped a vacuum, elect supply | d supply nedical | Understanding the lecture | - 1 Theoretical -4 Practical | 13 |
| Theoretical tests in person practical - tests in laboratories | Theoretical -aterial m practical laboratories inside the anesthesia lab and operating room | Medical gas se bulk storage, and of gases, piped of vacuum, elect supply | d supply medical | Understanding the lecture | - 1 Theoretical -4 Practical | 14 |
| Theoretical tests in person practical - tests in laboratories | Theoretical -erial mat practical laboratories inside the anesthesia lab and operating room | Distribution pipework, terr outlet | 7 (37) | Understanding the lecture | - 1 Theoretical -4 Practical | 15 |
| | | | | | Course Evalua | ation • |
| | | | | | P Peer | he audience articipation r evaluation ekly reports |
| | | - Indiana | | | teaching resou | irces • |
| asic miller of and Essential anesthe anest | | Baha alshake | | | methodology if | |
| Other book | k of clinical an | esthesiology | | | (Main referen | ces (sources |
| Anesthesia | and analgesia | journal | Recomi | mended supportin | ng books and | |

(...scientific journals, reports)

Electronic references, websites

British Journal of Anesthesia

Pubmed

Google scholar
Web of sciences
Embase
Other

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| | | is not inclined A Th | e Abdul Sahil | Tamim .Na | me: D |
| n about the | | | objec | tives Course | |
| armacological e | itomical and sur ffects of applied | gical foundations and their relation | ushin to the | Course ob | |
| armacological e thetic drugs, list | ffects of applied the types of anes | physiology of the human body, u thetic drugs on the body, and how complications that may occur duri | nship to the nderstand th to deal with ng anesthesia | Course ob | jective |
| armacological e thetic drugs, list .aı | ffects of applied the types of anes and avoid surgical | physiology of the human body, u thetic drugs on the body, and how complications that may occur duri Teac | nship to the nderstand th to deal with ng anesthesia hine and learni | Course ob | jective |
| armacological e thetic drugs, list .ai g video clips in igh diagnosis | ffects of applied the types of anes and avoid surgical the laboratory to and surgical tr | physiology of the human body, u thetic drugs on the body, and how complications that may occur duri Teac treat a patient Conducting mock s eatment, evaluating students' n | nship to the nderstand th to deal with ng anesthesia hing and learni scenes and sh | Course ob | jective |
| armacological e thetic drugs, list .a. g video clips in igh diagnosis nonitoring their | ffects of applied the types of anes and avoid surgical the laboratory to and surgical tr response and pos | physiology of the human body, use thetic drugs on the body, and how complications that may occur during treat a patient Conducting mock seatment, evaluating students' pusible malfunctions in the patient and | onship to the inderstand the to deal with ing anesthesia hing and learning and sheerformance, and equipment | Course ob | jective |
| armacological e thetic drugs, list .ai g video clips in igh diagnosis | ffects of applied the types of anes and avoid surgical the laboratory to and surgical tr | physiology of the human body, u thetic drugs on the body, and how complications that may occur duri Teac treat a patient Conducting mock s eatment, evaluating students' n | onship to the inderstand the to deal with ing anesthesia hing and learning and sheerformance, and equipment Court Required arning le | Course ob ng strategies S | jective |
| g video clips in diagnosis nonitoring their | ffects of applied the types of anes and avoid surgical the laboratory to and surgical tr response and pos | physiology of the human body, use thetic drugs on the body, and how complications that may occur during treat a patient Conducting mock seatment, evaluating students' pusible malfunctions in the patient and | onship to the inderstand the to deal with ing anesthesia hing and learning and sheerformance, and equipment in the court i | Course ob | jective s strateg |

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Warfare injuries

room

Theoretical

+Quiz

| Attendance | -material practical laboratories inside the anesthesia lab and operating room | | ding the lecture | Theoreti cal My -3 work | |
|---------------------|---|---|----------------------------------|---|---|
| +Quiz Attendance | Theoretical -material practical laboratories inside the anesthesia lab and operating room | Day – case surgery | Understan ding the lecture | - 1 Theoreti cal My -3 work | 3 |
| +Quiz Attendance | Theoretical -material practical laboratories ide the ins anesthesia lab and operating room | Reaction of body to injury | Understan ding the lecture | Theoreti cal My -3 work | 4 |
| +Quiz Attendance | Theoretical -material practical laboratories inside the anesthesia lab and operating room | Infection of the pint and bone | Understan ding the lecture | - 1 Theoreti cal My -3 work | 5 |
| +Quiz Attendance | Theoretical -material practical laboratories inside the anesthesia lab and operating room | Ulcer, Sinuses, Fistula | Understan ding the lecture | - 1 Theoreti cal My -3 work | 6 |
| +Quiz Attendance | Theoretical -material practical laboratories inside the anesthesia lab and operating room | Type of surgical disease (hereditary, congenital, acquired) | Understan ding the lecture | - 1 Theoreti cal My -3 work | 7 |
| +Quiz Attendance | Theoretical - material practical | Sterile precaution & AIDS | Understan ding the lecture | - 1 Theoreti | 8 |

| | laboratories inside the anesthesia lab and operating room | | | My -3 work | |
|---------------------|--|--|----------------------------------|---|----|
| +Quiz Attendance | Theoretical -material practical laboratories inside the anesthesia lab erating and op | Calcium metabolism, calcification | Understan ding the lecture | - 1 Theoreti cal My -3 work | 9 |
| +Quiz Attendance | Theoretical -material practical laboratories inside the anesthesia lab and operating room | Goagulopathy & blood dyscrasia in surgery | Understan ding the lecture | - 1 Theoreti cal My -3 work | 10 |
| +Quiz Attendance | Theoretical -material practical laboratories inside the anesthesia lab and operating room | Specific infection | Understan ding the lecture | - 1 Theoreti cal My -3 work | 11 |
| +Quiz Attendance | Theoretical -material practical laboratories inside the anesthesia lab and operating room | Type of surgical bacteria (microbiology) | Understan ding the lecture | Theoreti cal My -3 work | 12 |
| +Quiz Attendance | Theoretical -material al practic laboratories inside the anesthesia lab and operating room | Venous disease – thrombophlebitis & Venus thrombosis | Understan ding the lecture | - 1 Theoreti cal My -3 work | 13 |
| +Quiz Attendance | Theoretical -material practical laboratories inside the | Oncology. | Understan ding the lecture | - 1 Theoreti cal My -3 work | 14 |

| | anesthesia lab and operating room | | | | | |
|--|---|-----------------|---------------------------------|--|---|---|
| +Quiz Attendance | Theoretical -material practical laboratories inside the anesthesia lab and operating room | Abortion, CS, 1 | Hysterectomy | Understan ding the lecture | - 1 Theoreti cal My -3 work | 15 |
| | The second second | - made | | Course | Evaluation | |
| | 11 215 511 | weekly re | ports, peer evalu | ation, particip | pation, Atten- | dance |
| Princi | ples of surgery, sl | hort notes | Learni | ng and teachir | ig resources | |
| | WEALTHINGS TO STATE | | | ed textbooks (| methodology | if any |
| | tz clinical surgery | | | (Main | references (so | urces |
| | scientific journa | ls | ing book | s and Recon | nmended su | pport |
| Electron | ic reference for i | | (refere | ences (scientifi | c journals, re | ports |
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| | ine reference for it | Course Descri | | Electronic r | eferences, we | bsites |
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| | | Course Descri | Date this of tudy hours (total) | Contraction of the credit by t | ourse name a Fundamenta ourse code Atu_chm A ar/semester Second / as prepared 2024 ance forms My pres units (total nours 4 -hour me is ment | eals of |
| | | (Number of s | Date this of tudy hours (total) | Electronic r Cal Anesthesia Question was allable attend All Number of credit by the | ourse name a Fundamenta ourse code Atu_chm A ar/semester Second / as prepared 2024 ance forms My pres units (total nours 4 -hour me is ment | ************************************** |

surgical equipment

Teaching and learning strategies

ures, visual and video ,Theory, practical laboratory, hospital Methods n discussion methoddimensional models, and ope-demonstrations, three

Strategy

| Evaluation | Learning | Name of the unit or topic | Required | Course struct | The Park Name of Street, or other Pa |
|---|--|---|------------------------------|--------------------------------------|--|
| method | method | syame or the unit or topic | learning outcomes | watches | week |
| Theoretical tests in person practical - tests in laboratories | Theoretical -material practical laboratories inside the anesthesia lab and operating room | History of anesthesia and introduction + scope of anesthesiology. | Understanding the lecture | -2 Theoretical -4 Practical | 1 |
| Theoretical tests in person practical - tests in laboratories | ical Theoret -material practical laboratories inside the anesthesia lab and operating room | Choice of anesthetic technique | Understanding the lecture | Theoretical -4 Practical | 2 |
| Theoretical tests in person practical - tests in laboratories | Theoretical -rial mate practical laboratories inside the anesthesia lab and operating room | Preanaesthetic visit and assessment | Understanding the lecture | Theoretical -4 Practical | 3 |
| Theoretical tests in person practical - tests in laboratories | Theoretical -rial mate practical laboratories inside the anesthesia lab and operating room | Premedication aims and therapeutic management | Understanding the lecture | Theoretical -4 Practical | 4 |
| Theoretical tests in person practical - tests in laboratories | Theoretical -material practical ries laborato inside the anesthesia | General pharmacology | Understanding the lecture | Theoretical -4 Practical | 5 |

| | lab and operating room | | | | |
|---|--|--|------------------------------|--------------------------------------|----|
| Theoretical tests in person practical - tests in laboratories | Theoretical -material practical laboratories inside the a anesthesi lab and operating | General pharmacology | Understanding the lecture | -2 Theoretical -4 Practical | 6 |
| Theoretical tests in person practical - tests in laboratories | Theoretical -material practical laboratories inside the anesthesia lab and operating room | Inhalational anaesthetic agents (in details) | Understanding the lecture | -2 Theoretical -4 Practical | 7 |
| Theoretical tests in person practical - tests in laboratories | Theoretical -material practical laboratories inside the anesthesia lab and operating room | Inhalational anaesthetic agents (in details) | Understanding the lecture | -2 Theoretical -4 Practical | 8 |
| Theoretical tests in person practical - tests in laboratories | Theoretical -material practical laboratories inside the anesthesia lab and operating room | Inhalational anaesthetic agents cont | Understanding the lecture | -2 Theoretical -4 Practical | 9 |
| Theoretical tests in person practical - tests in laboratories | Theoretical -material practical laboratories inside the anesthesia lab and ting opera room | Inhalational anaesthetic agents cont | Understanding the lecture | -2 Theoretical -4 Practical | 10 |
| Theoretical tests in person | Theoretical -material | Intravenous anaesthetic | Understanding the lecture | -2 Theoretical | 11 |

| | -4 Practical | | agents (in details) | practical laboratories inside the anesthesia lab and ing operat room | practical - tests in laboratories |
|--|--------------------------------------|------------------------------|--|--|--|
| 12 | Theoretical -4 Practical | Understanding the lecture | Intravenous anaesthetic agents (in details) | Theoretical -material practical laboratories inside the anesthesia lab and ng operati room | Theoretical tests in person practical - tests in laboratories |
| 13 | Theoretical -4 Practical | Understanding the lecture | Intravenous anaesthetic agents cont. | Theoretical -material practical laboratories inside the anesthesia lab and operating room | Theoretical tests in person practical - tests in laboratories |
| 14 | -2 Theoretical -4 Practical | Understanding the lecture | | Theoretical -material practical laboratories inside the anesthesia lab and operating room | Theoretical tests in person practical - s in test laboratories |
| 15 | -2 Theoretical -4 Practical | Understanding the lecture | Muscle relaxants (in details) & reversal | Theoretical -material practical laboratories inside the anesthesia lab and operating room | Theoretical tests in person practical - tests in laboratories |
| | Course Evaluation | | | | |
| udience cipation aluation reports | Part Peer ev | | | | |
| THE RESIDENCE OF THE PARTY OF T | teaching resource | Learning and | Baha alshake | | |

| nesthesia equipment Basic miller of anesthesia Morgan and Mikhails | |
|---|---|
| Other book of clinical anesthesiology | (Main references (sources |
| Anesthesia and analgesia journal British Journal of Anesthesia | Recommended supporting books and references (scientific journals, reports) |
| Pubmed Google scholar Web of sciences | ebsitesElectronic references, w |
| Embase Other | |

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| prepared | Date this description was |
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| nits 3 –hours 60 | study ur |
| | (Name of the course administrator (if more than one name is n |
| Salim Rahim A | :Name .A Name: Dr. Saad S |
| es Course | objective |
| ourse objective | rmacology and its various divisionsLearn about pha Constitute of treatment in its various types and forms and the state of the therapeutic effect in treating diseases of various body systems. Learn about side effects and treatment interactions |
| strategies • | Teaching and learning |
| egyStra | giving lectures in the form of files and video lectures, as well as ling video clips from the Internet and also applying them in hospitals |

| and the same of th | Course structur | | Name of the unit or | Learning | ation Evalu |
|--|--------------------------------------|----------------------------------|--|---|--|
| wee | watches | Required learning outcomes | topic | method | method |
| | -2 Theoretical -2 Practical | Understanding the lecture | Principles of Drug Therapy. Pharmacokinetics; Absorption, distribution, metabolism and excretion of the drugs. Pharmacodynamics; Drug-receptors interaction. Efficacy, potency, agonists, antagonists. | theoretical material and laboratory process | Theoretical tests in -person practical tests in laboratories |
| | Theoretical -2 Practical | Understanding the lecture | Cholinergic agonists and antagonists | theoretical material and laboratory sproces | Theoretical tests in -person practical tests in laboratories |
| | Theoretical -2 Practical | Understanding the lecture | Adrenergic agonists and adrenergic antagonists | theoretical material and laboratory process | Theoretical tests in -person practical s in test laboratories |
| • | Theoretical -2 Practical | Understanding the lecture | Drugs affecting cardiovascular system: -Antihypertensive drugs. - Heart Failure | theoretical material and laboratory process | Theoretical tests in -person practical tests in rieslaborato |
| | -2 Theoretical -2 Practical | Understanding the lecture | Drugs affecting :cardiovascular system .Anti-arrhythmic Antianginal drugs | theoretical material and laboratory process | Theoretical tests in -person practical tests in laboratories |
| (| -2 ticalTheore -2 Practical | Understanding the lecture | Diuretics | theoretical material and laboratory | tests in -person practical |

| | | | | process | laboratories |
|----|--------------------------------------|------------------------------|--|---|--|
| - | -2 Theoretical -2 Practical | Understanding the lecture | Antihistamines | theoretical material and laboratory process | Theoretical tests in -person practical tests in laboratories |
| 1 | Theoretical -2 Practical | Understanding the lecture | Drugs for Disorders of the Respiratory System | laboratory process | Theoretical tests in -son per practical tests in laboratories |
| 9 | Theoretical -2 Practical | Understanding the lecture | Drugs for Disorders of the Respiratory System | theoretical material and laboratory process | Theoretical tests in -person practical tests in laboratories |
| 10 | -2 eoreticalTh -2 Practical | Understanding the lecture | Drugs for anemia | theoretical material and laboratory process | Theoretical tests in -person practical tests in laboratories |
| 11 | Theoretical -2 Practical | Understanding the lecture | Anticoagulants and Antiplatelet Agents | theoretical material and laboratory process | Theoretical tests in -person practical tests in laboratories |
| 12 | -2 Theoretical -2 Practical | Understanding the lecture | Skeletal muscle relaxants. | theoretical material and laboratory process | laboratories |
| 13 | Theoretical -2 Practical | Understanding the lecture | Local anesthetics. | theoretical material and laboratory process | tests in -person practical |
| 14 | -2 lTheoretica -2 Practical | Understanding the lecture | General anaesthetics | theoretical material and laboratory process | tests in -person practical |

| 15 | Theoretical -2 Practical | Understanding the lecture | General anaesthetics | al theoretic material and laboratory process | Theoretical tests in -person practical tests in laboratories |
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| | ourse Evaluation | Co | | | |
| Exams search tations | g reports and re | ng and presenting | Writi Wee | | |
| | | Learning and tea | | | D1 |
| red tex | gy if anyRequi | books (methodolo | cotte (t | Pharmacology- Lippincotte | |
| ources | nin references (s | (Ma | PhD San | Clinical Pharmacology made incredibly easy 3rd ed Bertram G. Katzung MD, PhD San Francisco December, 2011 | |
| and urnals | | nended suppor | | ntific journal | scie |
| | ic references, w | | | websites | |

| Course name | |
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| 1 Internal Medic | cine |
| Course code | • |
| Atu_chm AT | 215 |

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| ne end of th | e academic ehensive exa | year, the student should be able to d mination and attempt to diagnose dise beginning the process of performi | eases in detail being general anesth | fore iesia | e obj |
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| Evaluation | Learning | Name of the unit or topic | The second secon | rse structure | |
| method | method | rvame of the unit or topic | Required learning outcomes | watches | wee |
| Theoretical tests in -person practical tests in laboratories | and practical laboratory material | Diseases due to infection/concepts of major infection manifestations /methods of diagnosis bacteremia/ septicemia / principles of management. | Understanding the lecture | -2 Theoretical -4 Practical | |
| Theoretical tests in -person practical ts in tes aboratories | and practical laboratory material | Diseases due to infection/concepts of major infection manifestations /methods of diagnosis bacteremia/ septicemia / principles of management. | Understanding the lecture | -2 Theoretical -4 racticalP | |
| Theoretical tests in -person practical tests in aboratories | and practical laboratory material | Diseases of the respiratory system- Introduction. | Understanding the lecture | -2 Theoretical -4 Practical | |
| Theoretical tests in | and practical laboratory | Diseases of the respiratory system- Introduction. | rstanding Unde the lecture | -2 Theoretical | |

manifestations/investigations/resp.

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Understanding

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Practical

tests in laboratories Theoretical

tests in

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practical

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practical

laboratory

material

| tests in laboratories | | | | | |
|--|--|--|------------------------------|--------------------------------------|-----|
| Theoretical tests in -person practical tests in laboratories | and practical laboratory material | Diseases of the CVS / introduction/ major manifestation investigations | Understanding the lecture | -2 Theoretical -4 Practical | 30 |
| eoretical Th tests in -person practical tests in laboratories | and practical laboratory material | Diseases of the CVS / introduction/ major manifestation investigations | Understanding the lecture | -2 Theoretical -4 Practical | 135 |
| Theoretical sts in te -person practical tests in laboratories | and practical laboratory material | Principles of electrocardiography/normal ECG/S. Tachycardia/S. Bradycardia/S. arrhythmia. | Understanding the lecture | -2 Theoretical -4 Practical | ŧ |
| Theoretical tests in -person practical tests in laboratories | and practical laboratory material | AIDS | Understanding the lecture | -2 Theoretical -4 Practical | - 5 |
| Theoretical tests in -person practical tests in laboratories | and practical laboratory material | Diseases of the GIT/Introduction/ major manifestation/ investigations | Understanding lecture the | Theoretical -4 Practical | 10 |
| Theoretical tests in -person practical tests in laboratories | and practical laboratory material | Diseases of the GIT/Introduction/ major manifestation/ investigations | Understanding the lecture | -2 Theoretical -4 Practical | 11 |
| Theoretical tests in -person practical tests in aboratories | and practical laboratory material | Diseases of the liver/ introduction/ Bilirubin metabolism/major manifestations/ .investigations | Understanding the lecture | -2 Theoretical -4 Practical | 12 |
| Theoretical tests in -person practical tests in aboratories | and practical laboratory material | Diseases of the liver/ introduction/ Bilirubin metabolism/major manifestations/ .investigations | Understanding the lecture | -2 Theoretical -4 Practical | 13 |

| 1 | -2 Theoretical -4 Practical | the lecture Theoretical | | Diseases of the kidney/i major manifestations / investigations. | and practical laboratory material | Theoretical tests in -person practical tests in laboratories |
|---|---|---|---|--|---|---|
| 1: | -2 Theoretical -4 Practical | the lecture The | | Diseases of the kidney/ii major manifestations / investigations. | and practical boratoryla material | Theoretical tests in -person practical tests in laboratories |
| 110 | Course Evaluation | | | | | |
| ission: tivitie | Scientific discu e and daily act ing resources | | L | Practice of Medicin -23 | rinciples and | Davidson's Pi Edition |
| ources | (Main references (source | | | 0.0000 | | |
| | Recommended supporting books and reference | | | nergency Medicine. scientific journals | | Sinergency 142 |
| ports | ic journais, re | (scientific journals, | | | OF STATE OF | |
| websi | nic references, | tesElectron | | onic library | tes and electr | Websi |
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v to act during emergency situations and how to - functions of the body's systems itions associated with anesthesiadeal with pathological cond

| | 21020 | is associated with anesthesiadeal v | Teaching and le | CANADA CONTRACTOR OF THE PARTY | es • |
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| TO THE S | ALESTINE BY | | | Course structu | The second secon |
| Evaluation method | Learning method | Name of the unit or topic | Required learning outcomes | watches | week |
| Theoretical tests in -person practical tests in laboratories | and practical laboratory material | electrical components and activity of the heart | Understanding the lecture | -2 Theoretical -4 Practical | 1 |
| Theoretical tests in -person practical tests in laboratories | and practical laboratory material | the cardiac action potential in ventricular muscle and pacemaker tissues | Understanding the lecture | -2 Theoretical -4 Practical | 2 |
| Theoretical tests in -person practical tests in laboratories | and practical laboratory material | Contractile cardiomyocytes and excitation-contraction coupling | Understanding the lecture | -2 Theoretical -4 Practical | 3 |
| Theoretical n tests i -person practical tests in laboratories | and practical laboratory material | ECG and arrhythmia | Understanding the lecture | -2 Theoretical -4 Practical | 4 |
| Theoretical tests in -person practical tests in laboratories | and practical laboratory material | cardiac cycle | Understanding the lecture | -2 Theoretical -4 Practical | 5 |
| Theoretical tests in -person practical tests in laboratories | and practical laboratory material | Heart sound and waveforms generated during cardiac cycle | Understanding the lecture | -2 Theoretical -4 Practical | 6 |
| Theoretical tests in -person practical tests in | and practical laboratory material | the left ventricle pressure- volume loop | Understanding the lecture | -2 Theoretical -4 Practical | 7 |

| laboratories | | | | | |
|--|--|---|-------------------------------|--------------------------------------|----|
| Theoretical sts in te -person practical tests in laboratories | and practical laboratory material | Cardiac innervation and control of heart rate | Understanding the lecture | -2 Theoretical -4 Practical | 8 |
| Theoretical tests in -person practical tests in laboratories | and practical laboratory material | cardiac reflexes | Understanding the lecture | -2 Theoretical -4 Practical | 9 |
| Theoretical tests in -person practical tests in laboratories | and practical laboratory material | systemic circulation | standing Under the lecture | -2 Theoretical -4 Practical | 10 |
| Theoretical tests in -person practical tests in laboratories | and practical laboratory lmateria | blood pressure regulation | Understanding the lecture | Theoretical -4 Practical | 11 |
| Theoretical tests in -person practical ests in t laboratories | and practical laboratory material | physiology of microcirculation(starling law of capillary) | Understanding the lecture | -2 Theoretical -4 Practical | 12 |
| Theoretical tests in -person practical tests in laboratories | and practical laboratory material | venous circulation and venous | Understanding the lecture | -2 Theoretical -4 Practical | 13 |
| Theoretical tests in -person practical tests in laboratories | and practical laboratory material | coronary circulation | Understanding ecturethe l | -2 Theoretical -4 Practical | 14 |
| Theoretical tests in -person practical tests in laboratories | and practical laboratory material | spirometery and lung volumes | Understanding the lecture | -2 Theoretical -4 Practical | 15 |

| L | activitie earning and teaching resources |
|---|---|
| 1-Principles of Physiology for the Anaesthetist 2-Ganong's Review of Medical Physiology 24th edition 3-Arora, DR Textbook of Microbiology for dental students. 3rd ed. 2012. | uired textbooks (methodology it |
| 1-Applied Physiology in Respiratory Mechanics 2- Essential of Cell Biology. 3rd ed., Albert Bary et al., 2010. | (Main references (source |
| scientific journals | Recommended supporting books and references (scientific journals, (report |
| and electronic library Websites | Electronic references, website |

| | | | Course Description | | |
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| se objective | tives Cou Course | obj distinguish between medical termsroots, Teaching and lear ures, library, interne | is not inclined A The Asst. P ar, the student should be able to ses, prefixes, and word endings of | academic ye | |
| es Strategy | tives Cou Course ng strates | obj distinguish between medical termsroots, Teaching and lear ures, library, interne | is not inclined A The Asst. P ar, the student should be able to ses, prefixes, and word endings of | academic ye | he end of the Evaluation method |
| se objective es Strategy | tives Cou Course ng strateg rse struct | rof. Dr. Ahmed Adna obj distinguish between medical termsroots, Teaching and lear ures, library, interne Co Required learning outcomes Understanding | is not inclined A The Asst. P ar, the student should be able to ses, prefixes, and word endings of Lect | academic ye .uffix Learning | Evaluation |

| person theoretica test | i | state or condition | the lecture | Theoretical | |
|--|-------------------------|---|------------------------------|-------------------|----|
| -Actual in person theoretical test | material | | Understanding the lecture | | |
| -Actual in person theoretical tests | material | Prefixes-prefixes of direction & position | Understanding the lecture | Theoretical | |
| -Actual in person theoretical tests | material | Prefixes- prefixes of size, time & place | Understanding the lecture | -2 Theoretical | |
| -Actual in person theoretical tests | material | Prefixes- prefixes of size, time & place | Understanding the lecture | -2 calTheoreti | |
| -Actual in person theoretical tstes | material | Prefixes-prefixes of negation | Understanding the lecture | -2 Theoretical | |
| -Actual in person theoretical tests | material | Prefixes- prefixes of type | Understanding the lecture | -2 Theoretical | |
| -Actual in person theoretical tests | theoretical material | Roots | Understanding the lecture | -2 Theoretical | |
| -Actual in person theoretical tests | theoretical material | Roots | Understanding the lecture | -2 Theoretical | 10 |
| -Actual in person theoretical tests | theoretical material | Conditions | Understanding the lecture | -2 Theoretical | 11 |
| -Actual in person theoretical tests | theoretical material | The body as a whole | Understanding the lecture | -2 Theoretical | 12 |
| -Actual in person heoretical tests | theoretical material | Skin & its appendages | Understanding the lecture | -2 Theoretical | 13 |
| -Actual in person heoretical | theoretical material | Gastrointestinal Tract | Understanding the lecture | -2 Theoretical | 14 |

| tests | | | | | |
|--|-------------------------------------|---|------------------------------|-------------------|------------------------|
| -Actual in person theoretical tests | theoretical material | Respiratory system | Understanding the lecture | -2 Theoretical | 15 |
| | NHQ_ | | (| Course Evaluat | ion • |
| attendance an | d daily, aca | demic discussions, writing and | presenting repor | ts and research | h, Exams activities |
| | 4.10.2 | | Learning and t | eaching resour | ces • |
| Dzuganova, B. English, Bratisl | (2002): A brief Ready; 103 (6) | outline of the development of medical 223-227. | | books (method | |
| Andrews, E. (19 | l Biology. 3rd e 147): A History | th ed., Michael H. Ross, et al., 2011. 2 ed., Albert Bary et al., 2010. of Scientific English. The Story of its | | s (sourcesMain | reference |
| Evolution Based Smith. New Yor | on a Study of | Biomedical Terminology, Richard R. | | | |
| | scient | ific journals | Recommendand referen | ices (scientific | |
| | | ic library Websites | | | Lance Charles Co. |

| | ourse name |
|---|--------------------|
| C | rimes Baath Party |
| | Course code |
| | Atu chm AT218 |
| ser | mester/year |
| 1133 | Second / 2024 |
| Date this description wa | |
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| Available attend | |
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| (inistrator (if more than one name is mentioned Name of the | rourse adm |
| | Vaseem .Dr :Name |
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| objecti | ives Course • |
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agricultural and animal environment and radioactive pollution destruction of the student should become familiar with culture, media and the militarization

of society

For the student to know

student should be able to explain the former regime's draining of the .7 nd forced migration, as well as the Baath regime's violations of public rights marsh and freedoms

person

theoretical

tests

-Actual in theoretical

material

| | ioms | and freed | | | |
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| es • | arning strategi | Teaching and le | | | |
| Strategy | rnet | ures, library, inte | Lect | | |
| re • | Course structu | | | | |
| week | watches | Required learning outcomes | Name of the unit or topic | earning L method | Evaluation method |
| 1 | -2 Theoretical | Understanding the lecture | and freedoms Violations of rights Political systems Description of 2003-1921) Iraq in) | theoretical material | -Actual in person theoretical tests |
| 2 | -2 Theoretical | Understanding the lecture | For Baath regime violations Public rights and freedoms First, rights violations intellectual and public freedoms | theoretical material | -Actual in person theoretical tests |
| 3 | -2 Theoretical | Understanding the lecture | gviolations affectin , Secondly social rights political and cultural | theoretical material | -Actual in person theoretical tests |
| 4 | -2 Theoretical | Understanding the lecture | and cultural rights violations violations of the law freedoms International | theoretical material | -Actual in person theoretical tests |
| 5 | -2 Theoretical | Understanding the lecture | The impact of system Baathism in behaviors society And his control over the state and First, arbitrary arrests and prisoners torture executions | theoretical material | -Actual in person I theoretica tests |
| 6 | -2 Theoretical | Understanding the lecture | Secondly, confinement The three are in the authorities hands of the Baath regime Thirdly, tyranny in corruption Ethics and the fight against science | theoretical material | -Actual in person theoretical stest |
| 7 | -2 Theoretical | Understanding the lecture | The face of the first of | theoretical material | -Actual in person theoretical |

Understanding

the lecture

Theoretical

8

First, the concept of justice

Transitional mechanisms

Psychological mechanisms

The old regime and social

Psychological field used it

Achieve it

| | | | field Social | | tests |
|---------------|----------------------------------|-------------------------------|---|-------------------------|--|
| | -2 Theoretical | Understanding the lecture | Religion and State | material | -Actual in person theoretical tests |
| 1 | -2 Theoretical | Understanding the lecture | And Culture and Media ilitarization of the m society | theoretical material | -Actual in person theoretical tests |
| 1 | -2 Theoretical | Understanding the lecture | The effect of oppression and On the environment and wars population First, the use of weapons -Inter internationally prohibited ollutionp | theoretical material | -Actual in person theoretical tests |
| 1 | -2 Theoretical | Understanding the lecture | burnt Second, land policy | theoretical material | -Actual in person theoretical tests |
| 1. | -2 Theoretical | Understanding the lecture | he marshesThird, draining t and forced migration | theoretical material | -Actual in person theoretical tests |
| 14 | -2 Theoretical | Understanding the lecture | Bombing of places of mass graves worship | theoretical material | -Actual in person theoretical tests |
| 15 | -2 Theoretical | standing Under the lecture | | theoretical material | -Actual in person theoretical tests |
| 5 | urse Evaluation | Cor | about the second second | | |
| Exams | and research, | esenting reports | demic discussions, writing and pr | d daily, aca | ttendance an |
| | ching resources | Learning and tead | Indiana administration | forest Dead, D | rimes of the de |
| textb (any | gy if Required | s (methodolog | rty - The approved ministerial curriculum | tunct Baath Par | rines of the de |
| | in references (| (Ma | | | |
| rnals, | d supporting s (scientific jo | Recommended and reference | | | |
| eports | (| | | | |

| | | ription FormCourse Desc | | | |
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| | | | Co | urse name | |
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| | | | C | ourse code | |
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| | | Av | ailable attenda | ance forms | |
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| | | | | amim .Nan | ne: Dr |
| | | ical foundations and their relation | objectiv | es Course | |
| thetic drugs, list | understand the p the types of anest | pharmacological effects of applied thetic drugs on the body, and how to complications that may occur durin | physiology o deal with | Course obje | |
| | | Teachin | and learning | strategies | |
| ugn diagnosis a | and surgical tre | video clips in the laboratory to tres eatment, evaluating students' pe lible malfunctions in the patient and | at a patient | | Strat |
| | 20000000000 | | ructure | Course st | |
| Evaluation method | Learning method | Name of the unit or topic | Required learning outcomes | watches | wee k |
| +Quiz Attendance | Theoretical -material practical laboratories inside the | Shock (types, pathophysiology) | Understan ding the lecture | -2 Theoreti cal -4 Practica | 1 |

| Evaluation | 100000000000000000000000000000000000000 | | | Course st | Victor Co. |
|---------------------|--|---|----------------------------------|---|------------|
| method | Learning method | Name of the unit or topic | Required learning outcomes | watches | wee |
| +Quiz Attendance | Theoretical -material practical laboratories inside the esthesia lab an and operating room | Shock (types, pathophysiology) | Understan ding the lecture | -2 Theoreti cal -4 Practica | 1 |
| +Quiz nceAttenda | Theoretical -material practical laboratories inside the anesthesia lab and operating room | Emergency surgery, reaction of body to injury | Understan ding the lecture | -2 Theoreti cal -4 Practica | 2 |
| +Quiz Attendance | Theoretical -material practical laboratories | Nutritional support in surgery | Understan ding the lecture | -2 Theoreti cal -4 | 3 |

| | inside the anesthesia lab and operating room | | | Practica 1 | |
|---------------------|--|---|----------------------------------|---|-----|
| +Quiz Attendance | Theoretical -material practical laboratories inside the anesthesia lab and operating room | Types of Surgical Diseases Hereditary, Congenital, Acquired | Understan ding the lecture | Theoreti | |
| +Quiz Attendance | Theoretical -material practical laboratories inside the anesthesia lab and operating room | Angiology: Acute & Chronic Ischemia, Venous Disease, Lymphadenopathy, surgical lymphoedema | Understan ding the lecture | -2 Theoreti cal -4 Practica | 300 |
| +Quiz Attendance | Theoretical -material practical laboratories inside the anesthesia lab and operating | Angiology: Venous Dis. – Thrombophlebitis & Phlebothrombosis | Understan ding the lecture | -2 Theoreti cal -4 Practica | 10 |
| +Quiz Attendance | Theoretical - material practical laboratories inside the anesthesia lab and operating room | Lymphadenopathy, surgical lymphoedema. | Understan ding the lecture | -2 Theoreti cal -4 Practica | 1 |
| +Quiz Attendance | Theoretical -material practical laboratories inside the sthesia lab ane and operating room | Cellular Growth - its reactions to Stress & Injury | Understan ding the lecture | Theoreti cal -4 Practica | 8 |
| +Quiz Attendance | Theoretical -material practical laboratories inside the anesthesia lab | Oncology, Chemotherapy, radiation & biological effects of them | Understan ding the lecture | -2 Theoreti cal -4 Practica | 9 |

| | and operating | | | | |
|---------------------|--|--|----------------------------------|---|----|
| +Quiz Attendance | Theoretical -material practical laboratories inside the anesthesia lab and operating room | Oncology. | Understan ding the lecture | -2 Theoreti cal -4 Practica | 1 |
| +Quiz Attendance | Theoretical -material practical laboratories inside the anesthesia lab and operating room | Chemotherapy, radiation & biological effects of them | Understan ding the lecture | -2 Theoreti cal -4 Practica | 1 |
| +Quiz Attendance | l Theoretica -material practical laboratories inside the anesthesia lab and operating room | Common skin lessons tumors | Understan ding the lecture | Theoreti cal -4 Practica | 1 |
| +Quiz Attendance | Theoretical -material practical laboratories inside the anesthesia lab and operating room | Pre - operative preparation | Understan ding the lecture | Theoreti cal -4 Practica | 1. |
| +Quiz Attendance | Theoretical -material practical laboratories inside the anesthesia lab and operating room | Post-operative complications & care | Understan ding the lecture | Theoreti cal -4 Practica | 14 |
| +Quiz Attendance | Theoretical -material practical laboratories inside the anesthesia lab and operating room | Sutures & Anastomosis | Understan ding the lecture | -2 Theoreti cal -4 Practica | 15 |

| | Course Evaluation • |
|--|--|
| weekly reports | , peer evaluation, participation, Attendance |
| | rning and teaching resourcesLea • |
| Principles of surgery, short notes | Required textbooks (methodology if any |
| Baily and love, short practice in surgery ^{26th} ED Swuartz clinical surgery 11th ED | (Main references (sources |
| scientific journals | Recommended supporting books and references (scientific journals, (reports |
| Electronic reference for information | Electronic references, websites |

| | | | | | Co | urse name | 113 | | |
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| | | | Ava | ilable : | attenda | ince forms | | | |
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| Total Call Call | (me is n | nentionedName of the course | administrat | or (if i | nore th | an one na | | | |
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| | | | | | The second second second | es Course | | | |
| ability to analyz | able to unde e data and kn | rstand the basics of statistics ow the impact ratios of the st | , as well as udy in ques | the | | Course obje | ctives | | |
| | | | Teaching | and le | arning | strategies | | | |
| erent explanation | is of phenome as the us | na and experiments to analy se of statistical programs to d | ze data as v | vell | | | ategy | | |
| | | | | | Course | structure | | | |
| Evaluation method | Learning method | icName of the unit or top | Requ lear | ired ning | | watches we | | | |
| +Quiz Attendance | Understan ding the lecture | Introduction. Measurement of variables. Statisticaltab | 55000000000 | Unders n | tandi g the ecture | -2 Theoreti cal -4 Practica | 1 | | |

| | Theoreti | Understandi ng the relectu | Graphical presentation. | Understan ding the lecture | +Quiz Attendance |
|---|---|----------------------------------|---|----------------------------------|---------------------|
| 3 | Theoreti | Understandi ng the lecture | Arithmetical presentation. | Understan ding the lecture | +Quiz Attendance |
| 4 | -2 Theoreti cal -4 Practica | Understandi ng the lecture | a-Central tendency measurements. (Mean- Artithmetic mean). | Understan ding the lecture | +Quiz Attendance |
| 5 | Theoreti cal -4 Practica | Understandi ng the lecture | b- Dispersion Measurements. Quartiles. Deciles Percentiler. Mean Deviation. Standard Deviation . Variance, | Understan ding the lecture | +Quiz Attendance |
| 6 | -2 Theoreti cal -4 Practica | Understandi ng the lecture | Range. Root mean square. Interquartile range. Quartile Deviation. Coefficient of veriation. Coefficient of Quartile. Standardized veriable (Standard scores). | Understan ding the lecture | +Quiz Attendance |
| 7 | -2 Theoreti cal -4 Practica | Understandi ng the lecture | c-Coefficient of skewness Coefficient of Momental skewness. Preson's first coefficient of skewness Quartile coefficient of skewness | Understan the ding lecture | +Quiz Attendance |
| 8 | Theoreti cal -4 Practica | Understandi ng the lecture | d- Coefficient of kurtsis. Coefficient of momental kurtosis | Understan ding the lecture | +Quiz Attendance |
| 9 | -2 Theoreti cal -4 Practica | Understandi ng the lecture | Probability. Introduction. Definitions-Definition of Probability. Probability theorems | Understan ding the lecture | +Quiz Attendance |

| +Quiz Attendance | Understar ding the lecture | exclusive. Independence. Ranges theorem | Understandi ng the lecture | -2 Theoreti cal -4 Practica | 1 |
|------------------------------|----------------------------------|---|----------------------------------|---|----|
| +Quiz Attendance | Understan ding the lecture | Jumping Distribution. | Understandi ng the lecture | Theoreti cal -4 Practica | 1 |
| +Quiz Attendance | Understan ding the lecture | confidence interval. | Understandi ng the lecture | -2 Theoreti cal -4 Practica | 12 |
| +Quiz Attendance | Understan ding the lecture | Summary of significant tests. | Understandi ng the lecture | -2 Theoreti cal -4 Practica | 13 |
| +Quiz Attendance +Quiz | Understan ding the lecture | Testing for the value of a specified parameter(s). | Understandi ng the lecture | -2 Theoreti cal -4 Practica | 14 |
| Attendance | Understan ding the lecture | Analysis of variance One way classification Two-way classification withone observation per cell. Two – way classification with(r). observation per cell. Multiple comparisons (A- ANOVA). | Understandi ng the lecture | -2 Theoreti cal -4 Practica | 15 |

weekly reports, peer evaluation, participation, Attendance
Learning and teaching resources

vi, Introduction to Statistics, -Dr. Khasha Mahmoud Al
Mosul University Press, 1989
shhadani, Amir Hanna Hormuz, -Dr. Mahmoud Hassan Al
ub for Printing and -Statistics, Directorate of Dar Al
Publishing, Baghdad Printing 1989

| Course Description Fo | orm |
|--|--|
| 101 mattometer ome reference for in | Electronic references, websites |
| scientific journals formationElectronic reference for in | Recommended supporting books and references (scientific journals, (reports |
| vi, Introduction to Statistics, -Dr. Khasha Mahmoud Al Mosul University Press, 1989 | (sources) Main references |

Anesthesia 2 Course code Atu chm AT223 semester/year Second / 2024 Date this description was prepared 2024/29/2 Available attendance forms My presence (s (totalNumber of study hours (total) / Number of unit study units 4 -hours 130 (Name of the course administrator (if more than one name is mentioned : Amil Name: Dr. Sajjad Muhammad Al objectives Course earn about medical devices used in anesthesia r physical Knowledge of gas laws and Course objectives applications in anesthesia devices wing the laws of pressure and their applications Teaching and learning strategies ures, visual and video ,Theory, practical laboratory, hospital Methods models, and open discussion method dimensional-demonstrations, three Strategy Course structure Evaluation . Learning Name of the unit or topic Required watches week method method learning outcomes Theoretical Theoretical Understanding -2 tests in person 1 Drugs used in -ial mater the lecture Theoretical practical practical premedication tests in laboratories Practical laboratories inside the anesthesia lab and

operating

| | room | | | | |
|--|---|------------------------------|------------------------------|--|---|
| Theoretical tests in person practical - tests in laboratories | practical aboratories I | Drugs used in premedication | Understanding the lecture | Company of the Compan | |
| Theoretical tests in person practical - tests in laboratories | laboratories | Drugs used in premedication | Understanding the lecture | -2 Theoretical -4 Practical | 3 |
| Theoretical tests in person practical - tests in laboratories | Theoretical -material practical laboratories inside the anesthesia and lab operating room | Positioning & problems | Understanding the lecture | -2 Theoretical -4 Practical | 4 |
| oretical The tests in person practical - tests in laboratories | Theoretical -material practical laboratories inside the anesthesia lab and operating room | Positioning & problems. | Understanding the lecture | -2 Theoretical -4 Practical | 5 |
| Theoretical rson tests in pe practical - tests in laboratories | Theoretical -material practical laboratories inside the anesthesia lab and operating room | CPR & respiratory failure | Understanding the lecture | Theoretical -4 Practical | 6 |
| Theoretical ests in person practical - sts in te | Theoretical -material practical aboratories | CPR & respiratory failure | Understanding the lecture | -2 Theoretical -4 Practical | 7 |

| laboratorie | anesthesia lab and operating room | | | | |
|---|--|-------------------|-------------------------------|--------------------------------------|----|
| Theoretical tests in person practical tests in laboratories | -material practical laboratories inside the anesthesia lab and operating room | IVF types & uses. | Understanding the lecture | | |
| Theoretical tests in person practical - tests in laboratories | -material practical laboratories inside the anesthesia lab and operating room | IVF types & uses. | Understanding the lecture | -2 Theoretical -4 Practical | |
| Theoretical tests in person practical - tests in laboratories | Theoretical -material practical laboratories inside the anesthesia lab and operating room | IVF types & uses | nderstanding U the lecture | -2 Theoretical -4 Practical | 10 |
| laboratories | Theoretical -material practical laboratories inside the anesthesia lab and operating room | IVF types & uses. | Understanding the lecture | -2 Theoretical -4 Practical | 11 |
| ests in person practical - | cal Theoreti -material practical laboratories inside the anesthesia lab and operating room | IVF types & uses. | Understanding the lecture | -2 Theoretical -4 Practical | 12 |

| 1 | -2 Theoretical -4 Practical | Understanding the lecture | | Safety mea: theatre, sn | Theoretical -ial mater practical laboratorics inside the anesthesia lab and operating room | Theoretical tests in person practical - tests in laboratories | |
|---|--|------------------------------|---|--|--|--|---|
| 14 | -2 Theoretical -4 Practical | Understanding the lecture | Safety measures in theatre, Drugs allergic reaction | | -material theatre, Dru | -material practical laboratories inside the anesthesia lab and operating | Theoretical tests in person practical - tests in laboratories |
| 15 | -2 Theoretical -4 Practical | Understanding the lecture | allergic | Safety meas theatre, Drugs reactio | oretical The -material practical laboratories inside the anesthesia lab and operating room | Theoretical ests in person practical - tests in laboratories | |
| | Course Evaluati | | | | ENERGE | | |
| e audience rticipation evaluation dy reports | Par Peer e Weekl | | | | | | |
| . uo | ind teaching rese | rcesLearning a | property of | Baha alshake | nesia Essential | quipment anesth | |
| ogy if any | (Required textbooks (methodolog | | of anesthesia | nt Basic miller n and Mikhail | stnesia equipme | | |
| es (sources | Main references | (| | thesiology | of clinical anes | Other book | |
| books a | nd references Recommended supporting boo | | urnal | nd analgesia jo irnal of Anesth | British Jou | | |
| , reports) , websites | (scientific journals, reports) Electronic references, websites | | | British Journal of Anesthesia Pubmed Google scholar Web of sciences Embase Other | | | |

| | | Course Descrip | otion Form | | |
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| | | | | Course r | name • |
| | | | | Pharma | ceuticals 2 |
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| | I agen al | oout pharmacology ar | | objectives Co | urse • |
| giving lectur | .Learn a | body Identify the the bout side effects and tr rm of files and video video clips from the | treatment interactive Teaching and I lectures, as we let Internet and | stems tions earning strate Il as also | gies • Strategy |
| | | | .nosj | Course struct | |
| Evaluation | Learning | Name of the unit or | Required | watches | |
| method | method | topic | | Watches | week |
| Theoretical tests in -person practical tests in | theoretical material | Drugs action of nervous system | Understanding the lecture | -2 Theoretical -4 Practical | 1 |
| laboratories | | | | | |

| laboratories | | | | | |
|--|-------------------------|---------------------------------------|------------------------------|--------------------------------------|----|
| Theoretical tests in -person practical tests in laboratories | material | Local anaesthetics | Understanding the lecture | -2 Theoretical -4 alPractic | 3 |
| Theoretical tests in -n perso practical tests in laboratories | material | General anaesthetics | Understanding the lecture | -2 Theoretical -4 Practical | 4 |
| Theoretical tests in -person practical tests in laboratories | theoretical material | General anaesthetics | Understanding the lecture | -2 Theoretical -4 Practical | 5 |
| Theoretical tests in -person practical tests in laboratories | theoretical material | Hypotonic and sedative drugs | Understanding the lecture | -2 Theoretical -4 Practical | 6 |
| Theoretical tests in -person tests practical in laboratories | theoretical material | Hypotonic and sedative drugs | Understanding the lecture | Theoretical -4 Practical | 7 |
| Theoretical tests in -person practical tests in laboratories | theoretical material | Antipsychotic and anti anxiety drugs. | Understanding the lecture | -2 Theoretical -4 Practical | 8 |
| Theoretical tests in -person practical tests in laboratories | theoretical material | Antiparkinson drugs | Understanding ethe lectur | -2 Theoretical -4 Practical | 9 |
| Theoretical tests in -person oractical tests in oratorieslab | theoretical material | Antiepileptic drug | Understanding the lecture | -2 Theoretical -4 Practical | 10 |

| Theoretical tests in -person practical tests in laboratories | material | Narcotic, (| | Understanding the lecture | -2 Theoretical -4 Practical | 11 |
|--|---|------------------------|---------|------------------------------|--------------------------------------|------------------|
| Theoretical tests in -person practical tests in laboratories | material | IVF types & | & uses. | Understanding the lecture | -2 Theoretical -4 Practical | 12 |
| Theoretical tests in -person practical tests in laboratories | theoretical material | CNS stimu | ulants | Understanding the lecture | Theoretical -4 Practical | 13 |
| Theoretical tests in -person practical tests in laboratories | theoretical material | Drug inter | action | Understanding the lecture | -2 calTheoreti -4 Practical | 14 |
| ical Theoret tests in -person practical tests in laboratories | theoretical material | Antisept disinfecta | | Understanding the lecture | -2 Theoretical -4 Practical | 15 |
| | | | Writi | ing and presenting | ourse Evaluation | Evame |
| | | | Wee | ekly reports, resea | rch and present | tations |
| Pharmaco | logy- Lippine | otte | | Learning and tea | ching resources | |
| Clinical Phari incredibly eas | macology mad y 3rd ed [.] atzung MD, P | e | () | Required textbook (Ma | s (methodology in references (s | if any ources |

Recommended

supporting

(...references (scientific journals, reports

ic references, websitesElectron

books

Francisco December, 2011

scientific journals

websites

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| student should ough a compre | be able to de | eal with the patient ,By the end nination and attempt to diagn eginning the process of perform | :Name . A - A I of the academic ose diseases in de ing general anesth | objectail | ili-Ali Al . ctives Cou Course | Name: D rse objective |
| | be able to de hensive exan .before b | eal with the patient ,By the end nination and attempt to diagn eginning the process of perform ories, hospitals, library, into | :Name . A - A I of the academic ose diseases in de ing general anesth | objectyear etail nesia learni | ili-Ali Al ctives Cou Course ng strateg | Name: D rse objective ies Strategy |
| Evaluation method | be able to de | eal with the patient ,By the end nination and attempt to diagn eginning the process of perform | :Name . A - A I of the academic ose diseases in do ing general anesth Teaching and I ernetLectures, lab Required learning | objec year etail nesia learni orat | ili-Ali Al . ctives Cou Course | Name: D rse objective ies Strategy |
| Evaluation | be able to de hensive exan .before be | eal with the patient ,By the end nination and attempt to diagn eginning the process of perform ories, hospitals, library, into | :Name . A - A I of the academic ose diseases in do ing general anesth Teaching and lernetLectures, lab Required | objec year etail nesia learni orat | ili-Ali Al . ctives Cou Course ng strateg | Name: D rse objective lies Strategy |

| in laboratories | | | | | |
|--|-------------------------|--|------------------------------|--------------------------------------|---|
| Theoretical tests in -person practical tests in laboratories | lmateria | Hematology/ introduction /major manifestations/ .investigations | Understanding the lecture | | 2 |
| Theoretical tests in -person practical tests in aboratoriesl | theoretical material | Hematology/ introduction /major manifestations/ .investigations | Understanding the lecture | -2 Theoretical -4 Practical | 3 |
| Theoretical tests in -person practical tests in laboratories | theoretical material | Anemia/Introduction/ major monifestation classification .investigations | Understanding the lecture | -2 Theoretical -4 Practical | 4 |
| Theoretical tests in -person practical tests in laboratories | theoretical material | A nemia/ Introduction/ major monifestation classification.investigation | Understanding the lecture | Theoretical -4 Practical | 5 |
| Theoretical tests in -person practical tests in laboratories | theoretical material | Diseases of the endocrine .gland/introduction | Understanding the lecture | -2 Theoretical -4 Practical | 6 |
| Theoretical n tests i -person practical tests in laboratories | theoretical material | Diseases of the endocrine .gland/ introduction | Understanding the lecture | -2 Theoretical -4 Practical | 7 |
| Theoretical tests in -person oractical tests in boratoriesla | theoretical material | Diseases of connective tissues and Rheumatology/ introduction/major manifestations/ | Understanding the lecture | -2 Theoretical -4 Practical | 8 |
| Theoretical tests in -person oractical tests in laboratories | theoretical material | investigations | Understanding the lecture | -2 Theoretical -4 Practical | 9 |

| theoretical material | Diseases of connective tissues and Rheumatology/ introduction/major manifestations/ | 9 | | 1 |
|-------------------------|--|--|---|---|
| theoretical | investigations | Understanding the lecture | -2 Theoretical -4 Practical | 1 |
| theoretical material | Major manifestations/ .investigations | Understanding the lecture | Theoretical -4 Practical | 12 |
| theoretical material | Principles of critical care medicine major manifestations of critical .illness/ shock/ sepsis | nding Understa the lecture | -2 Theoretical -4 Practical | 13 |
| theoretical material | Principles of critical care medicine major manifestations of critical .illness/ shock/ sepsis | Understanding the lecture | -2 Theoretical -4 Practical | 14 |
| | failure/ ARDS/DIC/ARF/ | Understanding the lecture | -2 Theoretical -4 Practical | 15 |
| | theoretical material theoretical material theoretical material theoretical material | theoretical material Major manifestations/ theoretical material Major manifestations/ investigations theoretical material Principles of critical care medicine major manifestations of critical illness/ shock/ sepsis theoretical material Principles of critical care medicine major manifestations of critical illness/ shock/ sepsis | theoretical material become a material material material become a | material and Rheumatology/ introduction/major manifestations/ theoretical material |

Exams
Writing and presenting reports and research
Scientific discussions

ly activitiesAttendance and dai

| Davidson's Principles and Practice of Medicin -23 Edition | Learning and teaching resources • (Required textbooks (methodology if any |
|---|--|
| Emergency Medicine. | (Main references (sources |
| | Recommended supporting books and references (ls, reportsscientific journa) |
| Websites and electronic library | Electronic references, websites |

| | | Course Description | | | |
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| | | | | Course na | ıme • |
| | | | | | Physiology |
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| terstanding th | ne effect of a w to How to | d introduction to the importance anesthesia on the - functions o act during emergency - functions with pathological conditions asso | of the body's sys of the body's sys | tems tems | objectives |
| HERESU | | | Teaching and | the state of the s | ries . |
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| Evaluation | Learning | or topic Name of the unit | Required | watches | week |
| method | | | learning outcomes | | |
| Theoretical tests in -person practical tests in laboratories | theoretical material | Autonomic control on CVS | Understanding the lecture | -2 Theoretical -4 Practical | 1 |
| Theoretical | theoretical material | Starlings law of the heart | Understanding e lectureth | -2 Theoretical | 2 |
| tests in -person practical tests in laboratories | material | | e ketarem | -4 Practical | |
| -person practical tests in | theoretical material | Starlings law of the heart | Understanding the lecture | -4 | 3 |

| tests in -person practical tests in laboratories | | Ventricle& aorta during the cardiac cycle. | the lecture | Theoretical -4 Practical | |
|--|--------------------------|---|------------------------------|--------------------------------------|----|
| Theoretical tests in -person practical tests in laboratories | theoretical material | Pressure change in Rt. Ventricle& pulmonary artery during the cardiac cycle. | Understanding the lecture | -2 Theoretical -4 Practical | ŧ |
| Theoretical tests in -person practical tests in laboratories | theoretical material | Starlings law of the capillaries | Understanding the lecture | -2 Theoretical -4 Practical | , |
| Theoretical tests in - person practical tests in laboratories | theoretical material | Excitation - contraction coupling | Understanding the lecture | -2 Theoretical -4 Practical | 7 |
| Theoretical tests in -person practical in tests laboratories | theoretical material | Effect of tachycardia, tachycardia + hypotension, tachycardia + hypotension blood loss on the CVS | Understanding the lecture | -2 Theoretical -4 Practical | 8 |
| Theoretical tests in -person practical tests in laboratories | theoretical material | Critical closing pressure The situation | Understanding the lecture | Theoretical -4 Practical | 9 |
| Theoretical tests in -person practical tests in aboratories | theoretical material | Blood distribution in to vital organ | Understanding the lecture | -2 Theoretical -4 Practical | 10 |
| Theoretical tests in -person practical tests in aboratories | cal theoreti material | General knowledge- struction, typeof IV fluid- clinical application. | Understanding the lecture | -2 Theoretical -4 Practical | 11 |
| Theoretical tests in -person | theoretical material | Hb. Dissociation - | Understanding the lecture | Theoretical -4 | 12 |

| | Practical | | sociationcurves | | practical tests in laboratories |
|------------------|--------------------------------------|-----------------------------|---|-------------------------|---|
| 1 | -2 Theoretical -4 Practical | nderstanding the lecture | n _{sx} +pre-oxygenation in esthesia, why increase | theoretical material | Theoretical tests in -person practical tests in laboratories |
| 14 | -2 Theoretical -4 Practical | rethe lectu | unosis, pallor sign. | theoretical material | Theoretical tests in -person practical tests in laboratories |
| 15 | Theoretical -4 Practical | derstanding the lecture | uning of cyanosis, pallor he anaesthetist. | theoretical material | Theoretical s in test -person practical tests in laboratories |
| Exams | ourse Evaluations and research | Co senting reports | c discussions, writing and pre | daily, acad | attendance and |
| | aching resource | earning and te | L | f Dhamists | 1-Principles o |
| ology if (any | ooks (methodo | uired textbo | the Anaesthetist Physiology 24th edition biology for dental students. | view of Med | 2-Ganong's Re |
| | | | | 2000-000 | Anallad Di |
| (sources | lain references | (M | ory Mechanics ed., Albert Bary et al., 2010. | ell Biology. | 2- Essential of (|
| books | ed supporting es (scientific jo | Recommende | d., Albert Bary et al., 2010. | scientif | - Essential of C |

| | Course name • |
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| THE SECTION OF THE SE | esthesia 2A |
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(Number of study hours (total) / Number of units (total •

hours 240

(if more than one name is mentioned) Name of the course administrator • :Name .A Al Dr. Basem Mohammed :Name

objectives Course .

: At the end of the academic year, the student will be able to Useall different anesthesia devices. Maintain and maintain all icesanesthesia dev. Identify all parts of medical devices used in anesthesia and their techniques.

Course objectives

Practical methods, theoretical methods, hospitals, as well as educational videos discussion methods, with tests at the and demonstration methods, as well as open .end of the lecture, and also a method for presenting the bags

Course structure Evaluation Learning Name of the unit or Required watches method week method topic learning outcomes Theoretical Lecture Assessment of patients before Understanding tests in person 1 angesthesia Practical the lecture practical tests application in laboratories in the laboratory 1 Theoretica Lecture and Permedication Understanding tests in person 2 practical the lecture practical tests application in laboratories in the laboratory Theoretical Lecture Anaesthesia agents (Intra Understanding 7 3 tests in person Practical venous) the lecture practical tests application in laboratories in the laboratory Theoretical Lecture Anaesthesia agents Understanding 7 tests in person 4 (Inhalational) Practical rethe lectu practical tests application in laboratories in the laboratory Theoretical Anaesthesia for obstetric & Lecture Understanding tests in person 5 gynecology Practical the lecture practical tests application in laboratories in the laboratory

| Theoretical tests in person practical tests atoriesin labor | Practical application | Anaesthesia for paediatric surgery & ABGAR score | Understanding the lecture | 7 | 6 |
|--|--|---|-------------------------------|---|----|
| Theoretical tests in person practical tests - in laboratories | Lecture Practical application | Anaesthesia fro geriatric surgery | Understanding the lecture | 7 | 7 |
| Theoretical tests in person practical tests - in laboratories | | Anaesthesia for obese patients | Understanding the lecture | 7 | 8 |
| Theoretical tests in person practical tests - oratoriesin lab | Lecture Practical application in the laboratory | Regional anaesthesia | Understanding the lecture | 7 | 9 |
| Theoretical tests in person practical tests - in laboratories | Lecture Practical application in the laboratory | Anaesthesia for ENT | Understanding the lecture | 7 | 10 |
| Theoretical tests in person practical tests - in laboratories | Lecture Practical application n the i laboratory | Anaesthesia for ENT | Understanding the lecture | 7 | 11 |
| Theoretical tests in person practical tests - in laboratories | Lecture Practical application in the laboratory | Anaesthesia for ENT | Understanding the lecture | 7 | 12 |
| Theoretical tests in person practical tests - in laboratories | Lecture Practical application in the laboratory | Anaesthesia for ophthalmic surgery& Endoscopic surgery | nding Understa the lecture | 7 | 13 |
| Theoretical tests in person tractical tests - in laboratories | eLectur Practical application in the laboratory | Anaesthesia for orthopedic surgery | Understanding the lecture | 7 | 14 |
| Theoretical tests in person al tests practi- in laboratories | Lecture Practical application in the laboratory | Anaesthesia for orthopedic surgery | Understanding the lecture | 7 | 15 |

| Theoretical tests in person practical tests - in laboratories | Lecture Practical application in the laboratory | Anaesthesia for orthopedic surgery | Understanding the lecture | 7 | 16 |
|--|---|--|------------------------------|---|----|
| Theoretical tests in person practical tests - in laboratories | Lecture Practical application in the laboratory | Anaesthesia for urinary surgery | Understanding the lecture | 7 | 17 |
| Theoretical person tests in practical tests - in laboratories | Lecture Practical application in the laboratory | Anaesthesia for thoracic surgery | Understanding the lecture | 7 | 18 |
| Theoretical tests in person practical tests - in laboratories | Lecture Practical application in the laboratory | Anaesthesia for thoracic surgery | Understanding the lecture | 7 | 19 |
| Theoretical tests in person practical tests - in laboratories | Lecture Practical application in the laboratory | Anaesthesia for thoracic surgery | Understanding the lecture | 7 | 20 |
| Theoretical tests in person practical tests - in laboratories | Lecture Practical application in the laboratory | Day surgery | Understanding the lecture | 7 | 21 |
| Theoretical tests in person practical tests - in laboratories | Lecture Practical application in the laboratory | Day surgery | Understanding the lecture | 7 | 22 |
| Theoretical tests in person practical tests - in laboratories | Lecture Practical ication appl in the laboratory | Day surgery | Understanding the lecture | 7 | 23 |
| Theoretical tests in person practical tests - in laboratories | Lecture Practical application in the laboratory | Recovery & complication | Understanding the lecture | 7 | 24 |
| Theoretical tests in person tractical tests - in laboratories | Lecture Practical application in the laboratory | Recovery & complication & infant resuscitation | Understanding the lecture | 7 | 25 |

| Pubmed Google scholar Web of sciences Embase | | | Elect | ronic references, v | vebsites |
|--|--|---------------------|--|--|--|
| Anesthesia and analgesia journal British journal of anesthesia others | | | Recommended supporting books and (references (scientific journals, reports | | |
| Other book of o | clinical anest | hesiology | Learning at | nd teaching resour (Main references | ces • (source |
| | | | Lagenia | Parti Peer ev eports V | udienc cipation aluation Veekly |
| Theoretical tests in person practical tests - in laboratories | Lecture Practical application in the laboratory | Emergency condition | Understanding the lecture | 7 | 30 |
| Theoretical tests in person tests practical- in laboratories | Lecture Practical application in the laboratory | CPR | Understanding the lecture | 7 | 29 |
| Theoretical tests in person practical tests - in laboratories | Lecture Practical application in the laboratory | CPR | ding Understan the lecture | | 28 |
| Theoretical tests in person practical tests - in laboratories | Lecture Practical application in the laboratory | CPR | Understanding the lecture | | 27 |
| Theoretical tests in person practical tests - in laboratories | Lecture I Practica application in the laboratory | Induced hypotension | Understanding the lecture | | 26 |

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| identify the most i | mportant concepts | s of the art and science of ns, and how to deal with | | Cours | e objecti |
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| end demonstrate.end of the lect Evaluation method | ion methods, a | as well as open discussion | on methods, with | tests at the | cture |
| Evaluation method Theoretical tests in person practical tests - toriesin labora | Learning method Lecture Practical application in the laboratory | ns well as open discussion method for presenting Name of the unit or | on methods, with the bags Required learning | tests at the | cture |
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| in laboratories | in the laboratory | | | | |
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| Theoretical tests in person practical tests - in laboratories | Lecture Practical application in the laboratory | Stomach & duodenum | Understanding the lecture | | 5 |
| Theoretical tests in person practical tests - in laboratories | Lecture Practical application in the laboratory | Liver | Understanding the lecture | | 6 |
| Theoretical tests in person practical tests - in laboratories | Lecture Practical n applicatio in the laboratory | Gall bladder & bile ducts | Understanding the lecture | theoretical 1 practical 3 | 7 |
| Theoretical tests in person practical tests - oratoriesin lab | Lecture Practical application in the laboratory | Spieen & pancreas | Understanding the lecture | theoretical 1 practical 3 | 8 |
| Theoretical tests in person practical tests - in laboratories | Lecture Practical application in the laboratory | Small & large intestine | Understanding the lecture | theoretical 1 practical 3 | 9 |
| Theoretical tests in person practical tests - in laboratories | Lecture Practical application in the laboratory | Intestinal obstruction & fistula | Understanding the lecture | theoretical 1 practical 3 | 10 |
| Theoretical tests in person practical tests - in laboratories | Lecture Practical ication appl in the laboratory | Vermiform appendix, peritoneum | Understanding the lecture | theoretical 1 practical 3 | 11 |
| Theoretical tests in person practical tests - laboratories in | Lecture Practical application in the laboratory | Rectum & anus | Understanding the lecture | theoretical 1 practical 3 | 12 |
| Theoretical tests in person practical tests - in laboratories | Lecture Practical application in the laboratory | Abdominal wall & Hernia | Understanding the lecture | theoretical 1 practical 3 | 13 |
| Theoretical tests in person practical tests - | Lecture Practical application | Breast | Understanding turethe lec | theoretical 1 practical 3 | 14 |

| in laboratories | in the laboratory | | | | |
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| Theoretical tests in person practical tests - in laboratories | eLectur Practical application in the laboratory | Urinary tract: surgical anatomy, congenital anomalies, investigations | Understanding the lecture | theoretical 1 practical 3 | 15 |
| Theoretical rson tests in pe practical tests - in laboratories | Lecture Practical application in the laboratory | Trauma to the: Kidneys, | Understanding the lecture | theoretical 1 practical 3 | 16 |
| Theoretical tests in person practical tests - in laboratories | Lecture Practical application in the laboratory | Hydronephrosis, urinary stones | Understanding the lecture | theoretical 1 practical 3 | 17 |
| Theoretical tests in person practical tests - in laboratories | Lecture Practical application in the laboratory | Urinary Tract Infections (UTI) | Understanding the lecture | theoretical 1 practical 3 | 18 |
| Theoretical tests in person practical tests - in laboratories | Lecture Practical application in the laboratory | Urination Disorders | Understanding the lecture | theoretical 1 practical 3 | 19 |
| Theoretical on tests in pers practical tests - in laboratories | Lecture Practical application in the laboratory | Urinary tumors. | Understanding the lecture | theoretical 1 practical 3 | 20 |
| Theoretical tests in person practical tests - in laboratories | Lecture Practical application in the laboratory | Urogenital Tract in Males: Prostate, Testis, Penis | Understanding the lecture | theoretical 1 practical 3 | 21 |
| Theoretical tests in person practical tests - in laboratories | Lecture Practical application in the laboratory | Thorax surgery: Respiratory Pathophysiology & General review | Understanding the lecture | theoretical 1 practical 3 | 22 |
| Theoretical tests in person practical tests - in laboratories | Lecture Practical application in the laboratory | Trauma to thorax: Rib | Understanding the lecture | theoretical 1 practical 3 | 23 |
| Theoretical tests in person oractical tests - | Lecture ical Pract application | Pneumothorax, | Understanding the lecture | theoretical 1 practical 3 | 24 |

| in the laboratory | Haemothorax | | | | |
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| Lecture Practical application in the | Pleural Effusion, | | Understanding the lecture | theoretical 1 practical 3 | 25 |
| Lecture Practical application in the laboratory | Chest tube: Application Management | ons & | Understanding the lecture | theoretical 1 practical 3 | 26 |
| Lecture Practical application in the laboratory | Long tumours, Media masses | stina | Understanding the lecture | theoretical 1 icalpract 3 | 27 |
| Lecture Practical application in the laboratory | Types of Thoracic ope | crations | Understanding the lecture | theoretical 1 practical 3 | 28 |
| Lecture Practical application he in t | Congenital heart disease Acquired heart disease | ses, es | Understanding the lecture | theoretical 1 practical 3 | 29 |
| Lecture Practical application in the laboratory | Cardiopulmonary resu | scitation | Understanding the lecture | theoretical 1 practical 3 | 30 |
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| laboratories | the laboratory | | | | |
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| Theoretical tests –in person practical tests in laboratories | Lecture Practical application in the laboratory | Peptic ulcer disease: Gastric ulcer | Understanding the lecture | Theoretical2 Practical3 | 4 |
| Theoretical tests -in person practical tests in laboratories | Lecture Practical application in the laboratory | Renal failure: acute renal failure, chronic renal failure: clinical features, investigations and treatmen | Understanding the lecture | Theoretical2 Practical3 | 5 |
| Theoretical tests -in person practical tests in laboratories | Lecture Practical application in the laboratory | Renal failure: acute renal failure, chronic renal failure: clinical features, investigations and treatment | Understanding the lecture | Theoretical2 Practical3 | 6 |
| Theoretical tests -in person practical tests in laboratories | Lecture Practical application in the laboratory | Ischemic heart diseases: clinical features, diagnosis, treatment | Understanding the lecture | Theoretical2 Practical3 | 7 |
| Theoretical tests -in person practical tests in laboratories | ureLect Practical application in the laboratory | Arrhythmias: cardiac arrest. | Understanding the lecture | Theoretical2 Practical3 | 8 |
| Theoretical tests -in person practical tests in laboratories | Lecture Practical application in the laboratory | Arrhythmias: cardiac .arrest | Understanding the lecture | Theoretical2 Practical3 | 9 |
| ical tests Theoret -in person practical tests in laboratories | Lecture Practical application in the laboratory | Heart failure: definition, classification, causes, precipitating factors, investigations, treatment. | Understanding the lecture | Theoretical2 Practical3 | 10 |
| Theoretical tests -in person practical tests in laboratories | Lecture Practical application in rythe laborato | Heart failure: definition, classification, causes, precipitating factors, investigation, treatment. | Understanding the lecture | Theoretical2 Practical3 | 11 |
| Theoretical tests -in person practical tests in laboratories | Lecture Practical ion in applicat the laboratory | Hypertension, definition, types: primary and secondary hypertension. Complications, investigation, treatment | Understanding the lecture | Theoretical2 Practical3 | 12 |
| Theoretical tests -in person practical tests in laboratories | Lecture Practical application in the laboratory | Hypertension, definition, types: primary and secondary hypertension. Complications, investigation, treatment | Understanding the lecture | Theoretical2 Practical3 | 13 |
| Theoretical tests -in person practical tests in | Lecture Practical application in | Infections of the respiratory tract, upper respiratory tract infections. Lower respiratory tract infections: pneumonia | Understanding the lecture | Theoretical2 Practical3 | 14 |

| laboratories | the laboratory | | | | |
|--|--|---|------------------------------|----------------------------|----|
| Theoretical tests -in person practical tests in laboratories | Lecture Practical application in the laboratory | Infections of the respiratory tract, upper respiratory tract infections. Lower respiratory tract infections: pneumonia | Understanding the lecture | Theoretical2 Practical3 | 15 |
| Theoretical tests -in person practical tests in laboratories | Lecture Practical ation in applic the laboratory | Pulmonary: TB | Understanding the lecture | Theoretical2 Practical3 | 16 |
| Theoretical tests -in person practical tests in boratoriesla | Lecture Practical application in the laboratory | Pulmonary: TB | Understanding the lecture | Theoretical2 Practical3 | 17 |
| Theoretical tests -in person practical tests in laboratories | Lecture Practical application in the laboratory | Chronic obstructive pulmonary disease: chronic bronchitis, emphysema, asthma | Understanding the lecture | Theoretical2 Practical3 | 18 |
| Theoretical tests -in person practical tests in laboratories | Lecture Practical application in the laboratory | Chronic obstructive pulmonary disease: chronic bronchitis, emphysema, asthma. | Understanding the lecture | Theoretical2 Practical3 | 19 |
| Theoretical tests -in person practical tests in laboratories | Lecture Practical application in the laboratory | Tumors of the lung. | Understanding the lecture | ticalTheore2 Practical3 | 20 |
| Theoretical tests -in person practical tests in laboratories | ureLect Practical application in the laboratory | Tumors of the lung, | Understanding the lecture | Theoretical2 Practical3 | 21 |
| Theoretical tests -erson in p practical tests in laboratories | Lecture Practical application in the laboratory | Vascular lung disease. | Understanding the lecture | Theoretical2 Practical3 | 22 |
| Theoretical tests -in person practical tests in laboratories | Lecture Practical application in the laboratory | Vascular lung disease. | Understanding the lecture | Theoretical2 Practical3 | 23 |
| Theoretical tests -in person practical tests in laboratories | Lecture Practical application in the laboratory | Respiratory failure: definitions, types and management | Understanding the lecture | Theoretical2 calPracti3 | 24 |
| Theoretical tests in person practical tests in | Lecture Practical application in | Respiratory failure: definitions, types andmanagement. | Understanding the lecture | Theoretical2 Practical3 | 25 |

| laboratories | the laboratory | | | | | |
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| Theoretical tests -in person practical tests in laboratories | Lecture Practical application in the laboratory | Diseases of the pleura effusion: types, cause investigation, treatment | K. | Understanding the lecture | Theoretical2 Practical3 | 26 |
| Theoretical tests -in person practical tests in laboratories | Lecture Practical application in the laboratory | Diabetes mellitus: definition/elinical features/complications | /treatment | Understanding the lecture | Theoretical2 Practical3 | 27 |
| Theoretical tests -in person practical tests in laboratories | Lecture Practical application in the laboratory | Diabetes mellitus: definition/clinical features/complications | /treatment | Understanding the lecture | Theoretical2 Practical3 | 28 |
| Theoretical tests -in person practical tests in laboratories | eLectur Practical application in the laboratory | Cushing syndrome: dia clinical features, invest and treatment | agnosis, ligations | Understanding the lecture | Theoretical2 Practical3 | 29 |
| cal tests Theoreti -in person practical tests in laboratories | Lecture Practical application in the laboratory | Disturbances of water a electrolytes. | and | Understanding the lecture | Theoretical2 Practical3 | 30 |
| | ASSET N | | - 2.00 | | Course Evalua | tion • |
| | 105000000000000000000000000000000000000 | | | | Par Peer e Week | audience ticipation evaluation dy reports |
| I. Davidson's Prin | ciples and Pract | ice of Medicine-23 | | Learning a | nd teaching resou | |
| Edition. 2. Emergency med | | or medicine-23 | | | (Main reference | s (sources |
| | | | Recomm | | books and re | eferences |
| Electronic Libra | ary | | | | ctronic references | |

Electronic references, websites

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| Practical and the | on the computera | pplications and de | nal videos and ethods, with tests Required learning | at the end | Strateg |
| Practical and the lemonstration of the lecture | neoretical meth methods, as we | nods, as well as education ell as open discussion me | Required learning outcomes | tureCourse s | Strateg struc week |
| Practical and the lemonstration of the lecture Evaluation method Short exam, up exam-pop | neoretical methods, as we be the Learning method | pplications and de lods, as well as education ell as open discussion me | nal videos and ethods, with tests Required learning | at the end | Strateg |
| Practical and the lemonstration of the lecture Evaluation method Short exam, up exam-pop and daily activity Short exam, up exam, -pop | Learning method Lecture Practical application in | nods, as well as education ell as open discussion me | Required learning outcomes Understanding | tureCourse s watches | Strateg struc wee |
| Practical and the lemonstration of the lecture Evaluation method Short exam, up exam-pop and daily activity Short exam, | Learning method Lecture Practical application in the laboratory Lecture and practical application in the practical application in the laboratory | Name of the unit or topic Introduction to SPSS Variable view and Data | Required learning outcomes Understanding the lecture | tureCourse s watches Theoretical2 Practical1 | Strateg struc week |

| | the laboratory | | | | |
|---|--|--|-------------------------------|----------------------------|----|
| Short exam, up exam, -pop and daily activity | Lecture Practical application in the laboratory | Mean and median | Understanding the lecture | Theoretical2 Practical1 | 5 |
| Short exam, up exam, -pop and daily activity | Lecture Practical application in the laboratory | summary | Understanding lecture the | Theoretical2 Practical1 | 6 |
| am, Short ex up exam, -pop and daily activity | Lecture Practical application in the laboratory | compare means correlated regression | Understanding the lecture | Theoretical2 Practical1 | 7 |
| Short exam, up exam, –pop and daily activity | Lecture Practical application in the laboratory | Variance and standard deviation | Understanding the lecture | Theoretical2 Practical1 | 8 |
| Short exam, up exam, -pop and daily activity | Lecture Practical application in the laboratory | Non-parametric test | ng Understandi the lecture | Theoretical2 Practical1 | 9 |
| Short exam, up exam, -pop and daily activity | Lecture Practical plication in ap the laboratory | Summarize (cross tabs) Custom tables (basic table) | Understanding the lecture | Theoretical2 Practical1 | 10 |
| Short exam, up exam, -pop and daily activity | Lecture Practical application in the laboratory | Summarize (cross tabs), custom tables (Basic tables), Anova Models (one - way), non parametic methods (one sample, two sample, independent, two samples related, several samples independent, several sample related). | Understanding the lecture | Theoretical2 Practical1 | 11 |
| Short exam, up exam, -opp and daily activity | Lecture Practical application in the laboratory | Summarize (cross tabs), custom tables (Basic tables), Anova Models (one - way), non parametic methods (one sample, two sample, independent, two samples related, several samples independent, several | Understanding the lecture | Theoretical2 Practical1 | 12 |

| | | sample related). | | | |
|--|---|--|------------------------------|----------------------------|----|
| Short exam, up exam, –pop and daily activity | Lecture Practical application in the laboratory | Summarize (cross tabs), custom tables (Basic tables), Anova Models (one - way), non parametic methods (one sample, two sample, independent, two samples related, several samples independent, several sample related). | Understanding the lecture | Theoretical2 Practical1 | 13 |
| Short exam, up exam, -pop and daily activity | Lecture Practical application in the laboratory | Summarize (cross tabs), custom tables (Basic tables), Anova Models (one - way), non parametic methods (one sample, two sample, independent, two samples related, several samples independent, several sample related). | Understanding the lecture | Theoretical2 Practical1 | 14 |
| Short exam, up exam, -pop and daily activity | Lecture Practical application in the laboratory | Summarize (cross tabs), custom tables (Basic tables), Anova Models (one - way), non parametic methods (one sample, two sample, independent, two samples related, several samples independent, several sample related). | Understanding the lecture | oreticalThe2 Practical1 | 15 |
| Short exam, up exam-pop and daily activity | Lecture Practical application in the laboratory | Encyclopedia of Human Body | Understanding the lecture | Theoretical2 Practical1 | 16 |
| Short exam, up exam, -pop | Lecture Practical | Encyclopedia of Human | Understanding the lecture | Theoretical2 Practical1 | 17 |

| and daily activity | application in the laboratory | Body | | | |
|---|---|--|------------------------------|----------------------------|----|
| Short exam, up exam, -pop and daily activity | Lecture Practical application in the laboratory | Encyclopedia of Human Body | Understanding the lecture | Theoretical2 Practical1 | 18 |
| m, Short exa up exam, -pop and daily activity | Lecture Practical application in the laboratory | Encyclopedia of Human Body | Understanding the lecture | Theoretical2 Practical1 | 19 |
| Short exam, up exam, -pop and daily activity | Lecture Practical application in the laboratory | Show | Understanding the lecture | Theoretical2 Practical1 | 20 |
| Short exam. up exampop and daily activity | Lecture Practical application in the laboratory | Body works Health & Fitness 's Living Lessons | Understanding the lecture | Theoretical2 Practical1 | 21 |
| Short exam, up exam, -pop and daily activity | Lecture Practical tion in applica the laboratory | Body works Health & Fitness 's Living Lessons | Understanding the lecture | Theoretical2 Practical1 | 22 |
| Short exam, up exam, -pop ivityand daily act | Lecture Practical application in the laboratory | Body works Health & Fitness 's Living Lessons | Understanding the lecture | Theoretical2 Practical1 | 23 |
| Short exam, up exam, -pop and daily activity | Lecture Practical application in the laboratory | Body works Health & Fitness 's Living Lessons | Understanding the lecture | Theoretical2 Practical1 | 24 |
| Short exam, up exam, -pop and daily activity | Lecture Practical application in the laboratory | Body works Health & Fitness 's Living Lessons | Understanding the lecture | Theoretical2 Practical1 | 25 |
| Short exam, up exam, -pop and daily activity | Lecture cal Practi application in the laboratory | Body works Health & Fitness 's Living Lessons | Understanding the lecture | Theoretical2 Practical1 | 26 |
| Short exam, up exam, -pop d daily activityan | Lecture Practical application in the laboratory | Body works Health & Fitness 's Living Lessons | Understanding the lecture | Theoretical2 Practical1 | 27 |
| Short exam, up exam, -pop | Lecture Practical | Body works Health & | Understanding the lecture | Theoretical2 Practical1 | 28 |

| and daily activity | application in the laboratory | Fitness 's Living L | essons | | | |
|---|---|---|--------|------------------------------|--|-------------------------------------|
| Short exam, up exam, -pop and daily activity | Lecture Practical application in the laboratory | Body works Healt Fitness 's Living Lo | | Understanding the lecture | Theoretical2 Practical1 | 29 |
| Short exam, up exam, -pop and daily activity | ctureLe Practical application in the laboratory | Body works Healtl Fitness 's Living Le | | Understanding the lecture | Theoretical2 Practical1 | 30 |
| | | | | | Course Evalua | tion • |
| | | | | | Peer | ticipatio evaluation dy repor |
| statistical proce Prentice Hall Proce Morgan, GA, B Gloeckner, G. V Introductory sta Routledge | ress . arrett, KC, Le V. (2019). IBN | ech, NL, & | | | | |
| cientific journals | 5 | | Recom | | g books and re | |
| Electronic Libra | ary | | | | ntific journals, rejectronic references, | |
| | | | | | | |

| | | | | Course n | iame • |
|---|--|--|--------------------------------------|--------------------|-------------------|
| | | | An | esthesia Device | Fechnique |
| AT315 | | | A second | Course | code • |
| | | | | semester/ | year • |
| | | | | 2024 | -3 202 / Fi |
| | | | was prepared | Date this descrip | tion • |
| | | | | | 2024/25 |
| | | | Availa | ble attendance fo | rms • |
| | | | | My prese | |
| | | (Number of | study hours (total) / N | umber of units (t | total • |
| | | No. of the last of | | hours | 210 |
| | | (Name of the course administ | | | |
| | | | A'mil Al ' Dr. Muha | mmad Sa'asa :Na | ame |
| | | medical devices used in | | jectivesob Cou | irse • |
| The student will | l be able to : obje | ectives | | | |
| equipment Maint | ia devices dical | esia ep of all anesthesia Me parts Get to know all | | | |
| equipment Maint sed in anesthes and their technic | enance and upke ia devices dical ques | ep of all anesthesia | Teaching and | d learning strates | ries • |
| equipment Maint sed in anesthes and their techni- ractical and the emonstration | enance and upke | ep of all anesthesia | al videos and | d learning strates | gies • Strateg |
| sed in anesthes and their techni- ractical and the emonstration lecture of the | enance and upker ia devices dicall ques neoretical meth methods, as we | neep of all anesthesia The parts Get to know all all all as open discussion me | al videos and | | Strateg |
| equipment Maint sed in anesthes and their techni- ractical and the emonstration | enance and upke | ep of all anesthesia Me parts Get to know all lods, as well as education | al videos and thods, with tests a | at the end | Strateg |
| sed in anesthes and their techni- ractical and the emonstration lecture of the | ia devices dicalliques neoretical methods, as we | neep of all anesthesia The parts Get to know all all all as open discussion me | al videos and thods, with tests a | at the end | Strateg |
| equipment Maint sed in anesthes and their technic ractical and the emonstration lecture of the Evaluation | ia devices dicalliques neoretical methods, as we | neep of all anesthesia The parts Get to know all all all as open discussion me | al videos and thods, with tests a | at the end | Strateg |

| | operating room | | | | |
|---|---|--|-------------------------------|---|---|
| Theoretical tests -in person practical tests in laboratories | -material | Breathing system and their component, definition, classification, working principle | Understanding the lecture | 7 | 2 |
| Theoretical tests -in person practical tests in laboratories | Theoretical -material laboratories for practical material inside the anesthesia laboratory and operating room | Modification of breathing system, procedure for checking breathing system | Understanding the lecture | 7 | 3 |
| Theoretical tests -in person practical tests in laboratories | Theoretical -material laboratories for practical material inside the anesthesia laboratory and operating room | Modification of breathing system, procedure for checking breathing system | Understanding the lecture | 7 | 4 |
| Theoretical tests -in person practical tests in ieslaborator | Theoretical -material laboratories for practical material inside the anesthesia laboratory and operating room | Airway management device: artificial airway, face mask, laryngeal mask | ng Understandi the lecture | 7 | 5 |
| Theoretical tests -in person tests in practica laboratories | Theoretical -material laboratories for practical material inside the anesthesia laboratory and | Airway management device: antificial airway, face mask, laryngeal mask | Understanding the lecture | 7 | 6 |

| | operating | | | | |
|--|---|---|------------------------------|---|----|
| | room | | 1 1 | | |
| Theoretical tests -rson in pe practical tests in laboratories | -material | | Understanding the lecture | 7 | 7 |
| cal tests Theoret -in person practical tests in laboratories | -material laboratories for practical material inside the anesthesia laboratory and operating room | Endotracheal tubes, definition and types, ETT for special purpose | Understanding the lecture | 7 | -8 |
| cal tests Theoreti -in person practical tests in laboratories | Theoretical -material laboratories for practical material inside the anesthesia laboratory and operating room | Laryngoscope, aids to intubation, emergency airway | Understanding the lecture | 7 | 9 |
| ical tests Theoret -in person practical tests in laboratories | Theoretical -material laboratories for practical material inside the anesthesia laboratory and operating room | Laryngoscope, aids to intubation, emergency airway | Understanding the lecture | 7 | 10 |
| heoretical tests -in person ractical tests in laboratories | Theoretical -material laboratories for practical material inside the anesthesia laboratory and | Manual resuscitator, components and other use for manual resuscitator | Understanding the lecture | 7 | 11 |

| | erating op room | | | | |
|---|--|--|------------------------------|---|----|
| Theoretical tests -in person practical tests in laboratories | -material laboratories for practical material inside ia the anesthes laboratory and operating room | | Understanding the lecture | 7 | 12 |
| Theoretical tests -in person practical tests in laboratories | Theoretical -material laboratories for practical side material in the anesthesia laboratory and operating room | Anesthesia ventilator, principle of working and type of ventilator | Understanding the lecture | , | 13 |
| Theoretical tests -in person practical tests in laboratories | Theoretical -material laboratories for ical pract material inside the anesthesia laboratory and operating room | Anesthesia ventilator, principle of working and type of ventilator | Understanding the lecture | 7 | 14 |
| Theoretical tests -in person practical tests in laboratories | Theoretical -material laboratories for ractical p material inside the anesthesia laboratory and operating room | Advanced types in ventilator: principles and examples | Understanding the lecture | 7 | 15 |
| heoretical tests -in person ractical tests in laboratories | Theoretical -material or laboratories f practical material inside the anesthesia laboratory and | Advanced types in ventilator: principles and examples | Understanding the lecture | 7 | 16 |

| | operating | | | | |
|---|--|---|------------------------------|---|----|
| Theoretical tests -in person practical tests in laboratories | Theoretical - material | | Understanding the lecture | 7 | 17 |
| Theoretical tests -in person practical tests in laboratories | oretical The -material laboratories for practical material inside the anesthesia laboratory and operating room | Humidifier and nebulizer; definition, importance of humidification | Understanding the lecture | 7 | 18 |
| Theoretical tests -in person practical tests in laboratories | Theoretical -material laboratories for practical material inside the anesthesia laboratory and operating room | Classification and examples of humidifier and nebulizer | Understanding the lecture | 7 | 19 |
| Theoretical tests -in person practical tests in laboratories | Theoretical -material laboratories for practical material inside the anesthesia laboratory and operating room | Classification and examples of humidifier and nebulizer | Understanding the lecture | 7 | 20 |
| laboratories | -material | Equipment for pediatric anesthesia, special equipment, ventilator, suction equipments | Understanding the lecture | 7 | 21 |

| | operating room | | | | |
|--|--|---|------------------------------|---|----|
| Theoretical tests -in person practical tests in laboratories | -material | Equipment for pediatric anesthesia, special equipment, ventilator, suction equipments | Understanding the lecture | 7 | 22 |
| Theoretical tests -in person ts in practical tes laboratories | Theoretical -material laboratories for practical material inside the anesthesia laboratory and operating room | Equipment for local analgesia: spinal, epidural, and major nerve block | Understanding the lecture | 7 | 23 |
| Theoretical tests -erson in p practical tests in laboratories | Theoretical -material laboratories for practical material inside the anesthesia laboratory and operating room | Equipment for local analgesia: spinal, epidural, and major nerve block | Understanding the lecture | 7 | 24 |
| Theoretical tests -in person practical tests in laboratories | Theoretical -material laboratories for practical material inside ia the anesthes laboratory and operating room | Physiological monitoring: principles and non-invasive monitoring, classification of monitoring equipment | Understanding the lecture | 7 | 25 |
| heoretical tests -in person ractical tests in laboratories | - material laboratories for | Physiological monitoring: principles and non-invasive monitoring, classification of monitoring equipment | Understanding the lecture | 7 | 26 |

| | operating room | | | | |
|---|--|---|------------------------------|---|----|
| Theoretical tests -in person practical tests in laboratories | heoretical T -material laboratories for practical material inside the anesthesia laboratory and operating room | Monitoring of blood pressure, invasive and non-invasive, pulse oximeter | Understanding the lecture | 7 | 27 |
| Theoretical tests -in person practical tests in laboratories | Theoretical -material laboratories for practical material inside the anesthesia laboratory and operating room | Monitoring of blood pressure, invasive and non-invasive, pulse oximeter | Understanding the lecture | 7 | 28 |
| Theoretical tests -in person practical tests in laboratories | Theoretical -material laboratories for practical material inside the anesthesia laboratory and operating room | ECG and temperature monitoring equipment | Understanding the lecture | 7 | 29 |
| Theoretical tests -in person practical tests in laboratories | Theoretical —material laboratories for practical material inside the anesthesia laboratory and operating room | ECG and temperature monitoring equipment | Understanding the lecture | 7 | 30 |

the audience Participation Peer evaluation Weekly reports

earning and teaching resourcesL

Essential anesthesia equipment Baha

(Main references (sources

| alshake anesthesia equipment Basic miller of anesthesia Morgan and Mikhails | |
|---|---|
| Anesthesia and analgesia journal British journal of anesthesia Others | Recommended supporting books and references (scientific journals, reports) |
| Pubmed Google scholar Web of sciences EmbaseOther | Electronic references, websites |

| | Course name | |
|---|--|--------|
| | Intensive Care Techni | ques |
| | Course code | |
| AT316 | | |
| | semester/year | |
| | 2024-3 202 | / Firs |
| | Date this description was prepared | |
| | 7,921 | 4/29/ |
| | Available attendance forms | |
| | My presence | |
| (Number of study | y hours (total) / Number of units (total | |
| | hours 210 | |
| | (if more than one name is mentioned | |
| Оссир | ation A Al Ahmed Makki Dr :Name | |
| | objectives Course | • |
| o learn the basics of intensive care, :General objective dentify patients who need intensive care, and how to deal with critically ill patients | Course object | ctives |
| | Teaching and learning strategies | |
| ractical and theoretical methods, as well as educational version methods, as well as open discussion methods. | rideos and teg | yStra |

| 000 | W. T. | B | 441113 |
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| .OI | the | lect | ure |

| Evaluation | Learning | Name of the series | | Course stru | cture |
|--|---|--|-------------------------------|--|-------|
| Theoretical test | d metho | d and the state of | Require learnin outcome | g | Wee |
| -in person practical tests in oratoriesla | -material | Principles of ICU | Understanding the lectur | State of the state | 1: |
| Theoretical tests -in person practical tests in slaboratorie | Theoretical -material laboratories for practical material inside the anesthesia laboratory and operating room | Principles of ICU | Understanding the lecture | | 2 |
| Theoretical tests -in person practical tests in laboratories | Theoretical -material laboratories for practical material inside the anesthesia laboratory and operating room | Practical management. | Understanding the lecture | theoretical, 2 2 practical | 3 |
| Theoretical tests -in person practical tests in laboratories | Theoretical -material laboratories for practical material inside the anesthesia laboratory and operating room | Practical management. | Understanding the lecture | theoretical, 2 2 practical | 4 |
| laboratories | Theoretical -material aboratories for practical material inside | Artificial ventilation | Understanding the lecture | heoretical, 2 t 2 practical | 5 |

| | the anesthesia laboratory and operating room | VIII | | | |
|--|---|----------------------|------------------------------|--------------------------------|----|
| Theoretical test -in person practical tests is laboratories | -material laboratories for practical material inside the anesthesia laboratory and operating room | | Understanding the lectur | | 6 |
| Theoretical tests —in person practical tests in laboratories | Theoretical -material laboratories for practical material inside the anesthesia laboratory and operating room | Clinical monitoring. | Understanding the lecture | | 7 |
| Theoretical tests -in person practical tests in laboratories | Theoretical -material laboratories for practical material inside the anesthesia laboratory and operating room | Clinical monitoring, | Understanding the lecture | 1, 2 theoretica 2 practical | 8 |
| Theoretical tests in person practical tests in laboratories | Theoretical -material laboratories for practical material inside the anesthesia laboratory and operating room | Clinical monitoring | Understanding the lecture | theoretical, 2 2 practical | 9 |
| laboratories | Theoretical -material laboratories for practical material inside | Clinical monitoring. | Understanding the lecture | theoretical, 2 2 ticalprac | 10 |

| | the anesthesia laboratory and operating room | | | | |
|---|---|--|------------------------------|--------------------------------|----|
| Theoretical tests -in person practical tests in laboratories | -material laboratories for practical material inside the anesthesia laboratory and operating room | Cardio pulmonary resuscitation. | Understanding the lecture | theoretical, 2 2 lpractica | 11 |
| Theoretical tests -in person practical tests in laboratories | Theoretical -material laboratories for practical material inside the anesthesia laboratory and operating room | Cardio pulmonary resuscitation. | Understanding the lecture | theoretical, 2 2 racticalp | 12 |
| Theoretical tests -in person practical tests in laboratories | Theoretical -material laboratories for practical material inside the anesthesia laboratory and operating room | Hypoxia & Q , therapy. | Understanding the lecture | al, 2 theoretic 2 practical | 13 |
| Theoretical tests -in person practical tests in laboratories | Theoretical -material laboratories for practical material inside the anesthesia laboratory and operating room | Hypoxia & Q 2 therapy. | Understanding the lecture | 2 ,theoretical 2 practical | 14 |
| heoretical tests -in person practical tests i laboratories | Theoretical -material laboratories for practical material inside | Special complications DVT, Pneumothorax stress ulcer, ARDS | Understanding the lecture | 2 ,theoretical 2 practical | 15 |

| | the anesthesia laboratory and operating room | | | | |
|---|--|---|------------------------------|-------------------------------|----|
| tests Theoretical -in person practical tests in laboratories | Theoretical -material laboratories for practical material inside the anesthesia laboratory and operating room | Special complications DVT, Pneumothorax stress ulcer, ARDS. | Understanding the lecture | theoretical, 2 2 practical | 16 |
| Theoretical tests -in person practical tests in laboratories | Theoretical -material laboratories for practical material inside the anesthesia ory and laborat operating room | Special complications DVT, Pneumothorax stress ulcer, ARDS. | Understanding the lecture | theoretical, 2 2 practical | 17 |
| Theoretical tests -in person practical tests in laboratories | Theoretical -material laboratories for practical material inside esia the anesth laboratory and operating room | CNS: glasco coma scale, head injury. | Understanding the lecture | theoretical, 2 2 practical | 18 |
| Theoretical tests -in person practical tests in laboratories | Theoretical -material laboratories for practical e material insid the anesthesia laboratory and operating room | CNS: glasco coma scale, head injury. | Understanding the lecture | theoretical, 2 2 practical | 19 |
| Theoretical tests -in person practical tests in laboratories | Theoretical -material or laboratories f practical material inside | Indication of intubations. Ventilation & Extubation | Understanding the lecture | theoretical 2 2 practical | 20 |

| | the anesthesia laboratory and operating room | | | | |
|---|---|---|------------------------------|--|----|
| Theoretical tests -in person practical tests in laboratories | -material laboratories for practical material inside the anesthesia laboratory and operating room | | Understanding the lecture | The second control of the control of | 21 |
| Theoretical tests -in person practical tests in laboratories | Theoretical —material laboratories for practical material inside the anesthesia laboratory and operating room | Indication of intubations. Ventilation & Extubation | Understanding the lecture | theoretical, 2–2 practical | 22 |
| Theoretical tests -in person practical tests in laboratories | Theoretical -material laboratories for practical material inside the anesthesia laboratory and operating room | Emergency drugs. | Understanding the lecture | theoretical, 2 2 practical | 23 |
| Theoretical tests -in person practical tests in laboratories | Theoretical -material laboratories for practical material inside the anesthesia laboratory and operating room | Emergency drugs. | Understanding the lecture | theoretical, 2 2 practical | 24 |
| heoretical tests -in person ractical tests in laboratories | Theoretical -material laboratories for practical material inside | Emergency drugs. monitoring equipment | Understanding the lecture | theoretical, 2 2 practical | 25 |

| | the anesthesia laboratory and operating room | | | | |
|---|---|------------------------------------|------------------------------|---------------------------------|----|
| Theoretical test -in person practical tests in laboratories | -material laboratories for practical material inside the anesthesia laboratory and operating | | Understanding the lecture | The second second second second | 26 |
| Theoretical tests -in person practical tests in laboratories | -material | Blood & blood transfusion. | Understanding the lecture | theoretical, 2 2 practical | 27 |
| Theoretical tests -in person practical tests in laboratories | Theoretical -material laboratories for practical material inside the anesthesia laboratory and operating room | IVF & water & electrolyte balance. | Understanding the lecture | theoretical, 2 2 practical | 28 |
| Theoretical tests -in person practical tests in laboratories | Theoretical -material laboratories for practical material inside the anesthesia laboratory and operating room | Nutrition | Understanding ethe lectur | theoretical, 2 2 practical | 29 |
| heoretical tests -in person ractical tests in laboratories | Theoretical -material laboratories for practical material inside | Delayed recovery, | Understanding the lecture | theoretical, 2 2 practical | 30 |

| the anesthesia laboratory and operating room | |
|--|--|
| | Course Evaluation • |
| | the audience Participation Peer evaluation Weekly reports |
| 1-ABC of intensive care. 2 nd ed., Graham R. Nimmo | Learning and teaching resources • |
| 1 ne Anesthesia Technician & Technologist's Manual | (Main references (sources |
| 1.clinical anesthesiology. 5th ^{ed} ., John F, Butterworth IV, md | Recommended supporting books and references (scientific journals, reports) |
| Pubmed Google scholar Web of sciences EmbaseOther | Electronic references, websites |

| Course name | |
|---|------|
| Anesthesia devic | es 3 |
| Course code | |
| Atu_chm AT | 402 |
| semester/year | |
| 2024-3 | 202 |
| Date this description was prepared | |
| 2024/ | 29/2 |
| Available attendance forms | |
| My prese | nce |
| (Number of study hours (total) / Number of units (total | |
| etudu unita t | 180 |
| (Name of the course administrator (if more than one name is mentioned | |
| : Amil Al Sajjad Muhammad .Dr :Na | me |
| objectives Course | |

At the end of the academic year, the student will be able to: Use all different anesthesia devices. Maintain and maintain all anesthesia devices. Identify all parts of anesthesia and medical devices used in .their techniques

Course objectives

ures, visual and video demonstrations, ,Theory, practical laboratory work Methods Open .dimensional models, and discussion method-three

| Evaluation | Learning | Name of the unit or | 1 | Course struct | ure • |
|--|---|---------------------|-----------------------------------|--------------------------------|-------|
| method | method | topic | ed Requir learning outcomes | | week |
| Theoretical tests in -person practical tests in rieslaborato | Practical application in the laboratory | Suction units | Understanding the lecture | -2 | 1 |
| Theoretical tests in -person practical tests in laboratories | Lecture and practical application in the laboratory | Suction units | Understanding the lecture | -2 Theoretical My work4- | 2 |
| Theoretical tests in -person practical tests in laboratories | Lecture Practical application in the laboratory | Suction units | Understanding the lecture | -2 Theoretical My work4- | 3 |
| Theoretical tests in - person practical tests in laboratories | Lecture Practical application in the laboratory | Suction units | Understanding the lecture | Theoretical My work4- | 4 |
| Theoretical tests in -person practical tests in aboratories | Lecture Practical application in the laboratory | Suction units | Understanding the lecture | Theoretical My work4- | 5 |
| Theoretical tests in -person practical tests in | Lecture Practical application in the laboratory | Ventilators | Understanding the lecture | Theoretical My work4- | 6 |

| laboratories | | | | | |
|--|---|-------------------|------------------------------|--------------------------------|----|
| ical Theoret tests in -person practical tests in laboratories | Practical application in the laboratory | Ventilators | Understanding the lecture | -2 Theoretical My work4- | .7 |
| Theoretical tests in -person practical tests in laboratories | Lecture Practical application in the laboratory | Ventilators | Understanding the lecture | -2 Theoretical My work4- | 8 |
| Theoretical tests in -person practical tests in aboratories | Lecture Practical application in the laboratory | Ventilators | Understanding the lecture | Theoretical work My4- | 9 |
| Theoretical tests in -person practical tests in aboratories | Lecture Practical application e in th laboratory | Ventilators | Understanding the lecture | -2 Theoretical My work4- | 10 |
| Theoretical tests in -person practical tests in eslaboratori | Lecture Practical application in the laboratory | Monitoring system | Understanding the lecture | Theoretical My work4- | 11 |
| Theoretical tests in -person practical tests in aboratories | Lecture Practical application in the laboratory | Monitoring system | Understanding the lecture | -2 Theoretical My work4- | 12 |
| Theoretical tests in -person practical tests in aboratories | Lecture Practical application in the laboratory | Monitoring system | Understanding the lecture | -2 Theoretical My work4- | 13 |
| Theoretical n tests i -person practical tests in aboratories | Lecture Practical application in the laboratory | Monitoring system | Understanding the lecture | -2 Theoretical My work4- | 14 |
| Theoretical | Lecture | Monitoring system | Understanding | -2 | 15 |

| tests in -person practical tests in laboratories | application in the laboratory | | the lecture | Theoretical My work4- | |
|---|---|--------------------|------------------------------|--------------------------------|----|
| Theoretical tests in -person practical tests in laboratories | Practical application in the laboratory | Monitoring system | Understanding the lecture | Theoretical My work4- | 16 |
| Theoretical tests in -person practical tests in laboratories | Lecture Practical on applicati in the laboratory | Monitoring system | Understanding the lecture | -2 Theoretical My work4- | 17 |
| Theoretical tests in -person practical tests in boratoriesla | Lecture Practical application in the laboratory | Monitoring system | Understanding the lecture | -2 Theoretical My work4- | 18 |
| Theoretical tests in -person practical tests in aboratories | Lecture Practical application in the laboratory | Monitoring system | Understanding the lecture | -2 Theoretical My work4- | 19 |
| Theoretical tests in -person practical tests in aboratories | Lecture Practical application in the laboratory | Monitoring system | Understanding the lecture | -2 Theoretical My work4- | 20 |
| Theoretica tests in -person practical tests in aboratories | Lecture Practical application in the laboratory | Electrical hazards | Understanding the lecture | -2 Theoretical My work4- | 21 |
| Theoretical tests in -person practical tests in aboratories | Lecture Practical application in the laboratory | Electrical hazards | Understanding the lecture | Theoretical My work4- | 22 |
| Theoretical tests in -person | Lecture Practical application | Electrical hazards | Understanding the lecture | -2 Theoretical My work4- | 23 |

| | | | | Course Evaluati | W |
|---|---|--|-------------------------------|--------------------------------|----|
| Theoretical tests in -person practical tests in iboratories | Lecture Practical application in the laboratory | Electrocardiography | Understanding the lecture | Theoretical My work4- | 30 |
| Theoretical tests in -person practical tests in laboratories | Lecture Practical application in the laboratory | Electrocardiography | Understanding the lecture | Theoretical My work4- | 29 |
| Theoretical tests in -person practical tests in laboratories | Lecture Practical application in the laboratory | Electrocardiography | anding Underst the lecture | Theoretical My work4- | 28 |
| Theoretical tests in -person practical tests in laboratories | Lecture Practical application in the laboratory | Layout+ contents of anesthetics room and RCU | Understanding the lecture | -2 Theoretical My work4- | 27 |
| Theoretical tests in -person practical tests in torieslabora | Lecture Practical application in the laboratory | Layout+ contents of anesthetics room and RCU | Understanding the lecture | Theoretical My work4- | 20 |
| Theoretical tests in -person practical tests in laboratories | Lecture Practical application in the laboratory | Layout+ contents of anesthetics room and RCU | Understanding the lecture | -2 Theoretical My work4- | 2 |
| Theoretical tests in -person practical tests in laboratories | al Practic application in the laboratory | Electrical hazards | Understanding the lecture | Theoretical My work4- | 2 |
| practical tests in laboratories | laboratory | | | | |

Course Evaluation

the audience Participation Peer evaluation Weekly reports

| | Learning and teaching resources • |
|--|---|
| Essential anesthesia equipment Baha alshake anesthesia equipment Basic miller of anesthesia Morgan and Michaels | (Main references (sources |
| Pubmed Google scholar Web of sciences Embase Other | Recommended supporting books and references (scientific journals, reports) |
| Medical website | Electronic references, websites |

| Course name | | | | |
|--|--|--|----------------|---------------------|
| Anesthesia | | | | |
| Course code | | | THE RESERVE | |
| Atu_chm AT40 | | | | |
| semester/year | | | | |
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| Committee of the State of the S | ate this descript | | | |
| 2024/29/ | | | | |
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| | | me is mentionedName of th | (an one na | |
| em Mohammed :Nam | :Name .A AI Ba | | | |
| ojectives Course | | | H. WILLIAM | |
| Course objective | | year, the student | he academic | At the end of t |
| | | ferent anesthesia | | |
| | | . How to .devices | ter anesthesia | How to adminis |
| | | suscitate a patien | a t. Knowre | how to care for |
| | | y in an emergency | patient wisel | |
| rning strategies | Teaching and le | | | |
| k Methods Strateg | al laboratory wo | ions, three ,Theory, practic Open .dimensional m | deo demonstra | tures, visual and v |
| reCourse struct | A STATE OF THE PARTY OF THE PAR | | | |
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| | The state of the s | | outcomes | THE REAL PROPERTY. | |
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| retical Theo tests in person practical tests - in laboratories | Lecture Practical application in the laboratory | Maternal Anatomical & Physiological changes | Understanding the lecture | Theoretical My work -5 | |
| Theoretical tests in person practical tests - n laboratoriesi | Lecture and practical application in the laboratory | Maternal Anatomical & Physiological changes | Understanding the lecture | -2 Theoretical My work -5 | 15 |
| Theoretical tests in person practical tests - in laboratories | Lecture Practical application in the laboratory | Geriatric Anatomical & Physiological changes | Understanding the lecture | -2 Theoretical My work -5 | 3 |
| Theoretical tests in person practical tests - in laboratories | Lecture Practical application in the laboratory | Anaesthesia-Effects on Respiratory function. | derstanding Un the lecture | Theoretical My work -5 | 4 |
| Theoretical tests in person practical tests - in laboratories | Lecture Practical application in the laboratory | Endotracheal intubation- difficult intubation | Understanding the lecture | Theoretical My work -5 | 5 |
| Theoretical tests in person practical tests - in laboratories | Lecture Practical application in the laboratory | Positioning in anaesthesia, legal point about surgery, regent surgery, emergency surgery. | Understanding the lecture | -2 Theoretical My work -5 | 6 |
| Theoretical tests in person practical tests - in laboratories | Lecture Practical application in the laboratory | Hypoxia during surgery and post operative legal point about pre-medical visit & doctors consultations. | Understanding the lecture | Theoretical My work -5 | 7 |
| Theoretical tests in person practical tests - in laboratories | Lecture I Practica application in the laboratory | Co 2 changes "Hypocapnoea" Applications | Understanding the lecture | Theoretical My work -5 | 8 |
| Theoretical tests in person actical tests p - in laboratories | Lecture Practical application in the laboratory | Desire fan characteristics | Understanding the lecture | -2 Theoretical My work -5 | 9 |
| Theoretical | Lecture | Obeisity & | Understanding | -2 | 10 |

| tests in person practical tests - in laboratories | Practical application in the laboratory | Anaesthesia | the lecture | Theoretical My work -5 | |
|--|--|--|-------------------------------|---------------------------------|----|
| Theoretical tests in person practical tests - in laboratories | Lecture Practical application in the laboratory | Alcohol & Anaesthesia | standing Under the lecture | -2 Theoretical My work -5 | 11 |
| Theoretical tests in person practical tests - in laboratories | Lecture Practical application in the laboratory | Renal Disease & Anaesthesia | Understanding the lecture | -2 Theoretical My work -5 | 12 |
| Theoretical tests in person practical tests - in laboratories | Lecture Practical application in the laboratory | Liver Disease & Anaesthesia | Understanding the lecture | Theoretical My work -5 | 13 |
| Theoretical tests in person practical tests - in laboratories | Lecture Practical application in the laboratory | Anaemia & Anaesthesia Sickle Cell Anaemia | Understanding the lecture | Theoretical My work -5 | 14 |
| Theoretical tests in person practical tests - in laboratories | Lecture Practical application in the laboratory | Gastric Acid Aspiraton syndrome, pre- eclampsia | Understanding the lecture | alTheoretic My work -5 | 15 |
| Theoretical tests in person practical tests - in laboratories | Lecture Practical application in the laboratory | Coronary artery diseases in non-cardiac surgery. | Understanding the lecture | -2 Theoretical My work -5 | 16 |
| Theoretical tests in person practical tests - in laboratories | Lecture Practical application in the laboratory | Hypertension Atherosclerosis, Heart Failure, Old | Understanding the lecture | Theoretical My work -5 | 17 |
| Theoretical tests in person practical tests - in laboratories | Lecture cal Practi application in the laboratory | Valvular lesions & Anaesthesia, General note about open heart surgery | Understanding the lecture | -2 Theoretical My work -5 | 18 |
| Theoretical person tests in practical tests - in laboratories | Lecture Practical application in the laboratory | One lung anaesthesia, Bronchoscopy | Understanding the lecture | -2 Theoretical My work -5 | 19 |

| Theoretical tests in person practical tests - in laboratories | Lecture Practical application in the laboratory | Diabetes Mellitis & Anaesthesia. | Understanding the lecture | -2 Theoretical My work -5 | 20 |
|---|---|--|------------------------------|---------------------------------|----|
| Theoretical tests in person practical tests - in laboratories | Lecture Practical application in the laboratory | Thyroid surgery & Anaesthesia, Pheochromoeytoma | Understanding the lecture | -2 calTheoreti My work -5 | 21 |
| Theoretical tests in person practical tests - in laboratories | Lecture Practical application in the laboratory | TUR, Pyloric stenosis, Burns. | Understanding the lecture | Theoretical My work -5 | 22 |
| Theoretical tests in person practical tests - in laboratories | Lecture actical Pr application in the laboratory | Upper air way obstruction causes & anaesthesia. | Understanding the lecture | Theoretical My work -5 | 23 |
| Theoretical son tests in per practical tests - in laboratories | Lecture Practical application in the laboratory | Massive blood transfusion. | Understanding the lecture | Theoretical My work -5 | 24 |
| Theoretical tests in person practical tests - iesin laborator | Lecture Practical application in the laboratory | Control of Icp, Head injury, Air embolism and emergency | Understanding the lecture | -2 Theoretical My work -5 | 25 |
| Theoretical tests in person practical tests - in laboratories | Lecture Practical application in the laboratory | Criteria for brain death, General notes about neuroanaesthesia | Understanding the lecture | Theoretical My work -5 | 26 |
| Theoretical tests in person practical tests - in laboratories | Lecture Practical application in the laboratory | Day clinic, Dental Anaesthesia. | Understanding the lecture | Theoretical y workM -5 | 27 |
| Theoretical tests in person practical tests - in laboratories | Lecture Practical application in the laboratory | Techniques of local analgesia Indication, contra indication, upper limb problems, lower limb problems, toxic reaction. | Understanding the lecture | -2 Theoretical My work -5 | 28 |
| Theoretical | Lecture | Shock syndrome & | Understanding | -2 | 29 |

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|---|--|--|----|------------------------------|----------------------------|---------------------|
| | | | | | | udience cipation |
| Theoretical tests in person ractical tests - in laboratories | Lecture Practical application in the laboratory | Hypersensitiv reactions & Anaesthesia general | | Understanding the lecture | Theoretical My work -5 | 30 |
| ractical tests - in laboratories | Practical application in the laboratory | Anaesthesia general. | in | turethe lec | Theoretical My work -5 | |

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| WECK | watches | Required | Name of the unit or | | odmeth |
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| 1-2 | -2 Theoretical My work -5 | | | Lecture Practical application in the laboratory | Theoretical tests in person practical tests - in laboratories |
| 3-4 | -2 Theoretical | learning outcomes Understanding | Introduction | Lecture Practical application in the | Theoretical tests in person practical tests - |

| tests in person practical tests - in laboratories | Lecture Practical application in the laboratory | pre-anesthetic intra anesthetic and post anesthetic management of the patient | Understanding the lecture | | 9-10 |
|---|---|---|-------------------------------|---|--|
| etical Theor tests in person practical tests - in laboratories | Lecture Practical application in the laboratory | Preoperative nursing management | Understanding the lecture | Theoretical My work -5 | 11-14 |
| Theoretical tests in person practical tests - iesin laborator | Lecture Practical application in the laboratory | Nursing care in the recovery room | Understanding the lecture | Theoretical My work -5 | 15-22 |
| Theoretical tests in person practical tests - in laboratories | Lecture Practical application in the laboratory | Post-operative nursing care | Understanding the lecture | Theoretical My work -5 | 23-24 |
| | | | | Part aluatio | audience icipation nPeer ev |
| | | | Learning and | | y reports |
| P.: Fundame Lippincott Co Fundamentals | ntals of nursi ., 2011. Mala s (Foundation | ner, L.; LeMone, P.; L ng, seventh ed., New Yo k, M. and Al-Maharme ; s) of Nursing, First Edi Al Bedaia, 2009 | ynn, ork, h, A. | teaching resource (Main references | y reports es • |
| P.: Fundame Lippincott Co Fundamentals A | ntals of nursi ., 2011. Mala (Foundation mman: Dar | ng, seventh ed., New Yo k, M. and Al-Maharme ; s) of Nursing, First Edi | ynn, ork, h, A. ition, Recomm | teaching resources (Main references) ended supporting ences (scientific j | y reports es • (sources g books ournals,reports |

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| i i | ning strategie | on emergency cas Teaching and lear | | and video demon | tures, visual |
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| laboratories | | | | | |
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| Theoretical tests in -person practical tests in laboratories | reLectu Practical application in the laboratory | Warfare injuries | Understanding the lecture | -2 Theoretical My -3 work | 4 |
| retical Theo tests in -person practical tests in laboratories | Lecture Practical application in the laboratory | Management of haemopneumothor ax, flailches | Understanding the lecture | -2 Theoretical My -3 work | 5 |
| Theoretical tests in -person practical tests in laboratories | Lecture al Practic application in the laboratory | Head injuries, SOL, management of unconscious patient, Spinal injuries, peripheral nerve injuries, Tracheostomy, otolaryngiology | Understanding the lecture | Theoretical My -3 work | 6 |
| Theoretical tests in -person practical tests in laboratories | Lecture Practical application in the laboratory | Head injuries, SOL, management of unconscious patient, Spinal injuries, peripheral nerve injuries, Tracheostomy, otolaryngiology | Understanding the lecture | Theoretical My -3 work | 7 |
| Theoretical tests in -person practical tests in laboratories | Lecture Practical application in the laboratory | Head injuries, SOL, management of unconscious patient, Spinal injuries, peripheral nerve injuries, Tracheostomy, otolaryngiology | Understanding the lecture | Theoretical My -3 work | 8 |
| Theoretical tests in -person practical tests in laboratories | Lecture Practical application in the laboratory | DM: complications, management, preparation for operation | Understanding the lecture | Theoretical My -3 work | 9 |
| tical Theore tests in -person practical tests in laboratories | Lecture Practical application in the laboratory | Amputations | Understanding the lecture | Theoretical My -3 work | 10 |

| Theoretical tests in -person practical tests in laboratories | Practical application in the laboratory | Thyroid gland, Parathyroid | Understanding the lecture | | 1 |
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| Theoretical tests in -person practical tests in laboratories | Practical application in the atorylabor | I hyroid gland, Parathyroid | Understanding the lecture | Theoretical My -3 work | 12 |
| Theoretical tests in -person practical tests in laboratories | Lecture Practical application in the laboratory | Endocrinology: Pituitary gland, Thyroid gland, Parathyroid gland & calcium balance, Adrenal gland | Understanding the lecture | Theoretical My -3 work | 13 |
| Theoretical tests in -person practical tests in laboratories | Lecture Practical application in the laboratory | Endocrinology: Pituitary gland, Thyroid gland, Parathyroid gland & calcium balance, Adrenal gland | Understanding the lecture | -2 Theoretical My -3 work | 14 |
| Theoretical tests in -son per practical tests in laboratories | Lecture Practical application in the laboratory | Preparation of patient with obstructive jaundice | Understanding the lecture | -2 Theoretical My -3 work | 15 |
| Theoretical tests in -person practical tests in laboratories | Lecture Practical application in the laboratory | Preparation of patient with obstructive jaundice | Understanding the lecture | -2 Theoretical My -3 work | 16 |
| Theoretical tests in -person practical tests in laboratories | Lecture Practical application in the laboratory | Surgical precautions in theater and ICU | Understanding the lecture | Theoretical My -3 work | 17 |
| Theoretical tests in -person practical tests in laboratories | Lecture Practical application in the laboratory | Management of respiratory failure, ARDS | Understanding the lecture | Theoretical My -3 work | 18 |
| Theoretical tests in | Lecture ical Pract | Management of hematemesis | Understanding the lecture | -2 Theoretical | 19 |

| -person practical tests in laboratories | application in the laboratory | and Melaena | | My -3 work | |
|--|--|---|------------------------------|------------------------------------|----|
| Theoretical tests in -person practical tests in laboratories | Lecture Practical application in the laboratory | Management of coagulopathy and DIC | Understanding the lecture | -2 Theoretical My -3 work | 20 |
| Theoretical tests in -person practical tests in laboratories | Lecture Practical application in the laboratory | Management of septicemia and MOFS | Understanding the lecture | -2 Theoretical My -3 work | 21 |
| Theoretical tests in -person practical tests in laboratories | Lecture Practical application in the laboratory | New techniques in surgery | Understanding the lecture | Theoretical My -3 work | 22 |
| Theoretical tests in -person practical tests in laboratories | Lecture actical Pr application in the laboratory | Transplantation | Understanding the lecture | Theoretical My -3 work | 23 |
| Theoretical tests in -person practical tests in laboratories | Lecture Practical application in the laboratory | Emergencies in female genital tract: injuries, ectopic pregnancy | Understanding the lecture | Theoretical My -3 work | 24 |
| Theoretical tests in -person tical prac tests in laboratories | Lecture Practical application in the laboratory | Abortion, Caesarean section and hysterectomy | Understanding the lecture | Theoretical My -3 work | 25 |
| Theoretical tests in -person practical tests in laboratories | Lecture Practical application in the laboratory | Orthopedic surgery: fractures and dislocation | Understanding the lecture | Theoretical My -3 work | 26 |
| Theoretical tests in -person practical | Lecture Practical application in the | Osteomyelitis: acute and chronic, tumors of skeletal system | Understanding the lecture | Theoretical My -3 work | 27 |

| tests in laboratories | laboratory | | | | | |
|---|---|---|--|---------------------------|--|-------|
| Theoretical tests in -person practical tests in laboratories | Lecture Practical application in the laboratory | Wrist, hand and foot | | standing cturethe I | Theoretical My -3 work | 28 |
| Theoretical tests in -person practical tests in laboratories | Lecture Practical application in the laboratory | Ophthalmology | The second secon | standing he lecture | Theoretical My -3 work | 29 |
| | | | | Cot | rse Evaluation | |
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| | | | Learnin | ng and tead | ching resources | |
| Princ | iples of medic | cine and surgery, short note | es | (Ma | in references (so | urces |
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| | ourse structure | | | | F 1 4 |
| week | watches | Required learning outcomes | Name of the unit or topic | Learning method | Evaluation method |
| | | | | Lecture | Theoretical |
| 30 | Theoretical My -3 work | Understanding the lecture | Recognition and Management of critically ill patient. | Practical application in the laboratory | tests in -person practical tests in laboratories |
| 1000 | Theoretical My -3 | | Management of critically ill | Practical application in the | -person practical tests in |
| 3 | Theoretical My -3 work -2 Theoretical My -3 | the lecture | Management of critically ill patient. | Practical application in the laboratory Lecture and practical application in the | -person practical tests in laboratories Theoretical tests in -son per practical tests in |

| tests in -person practical tests in laboratories | Practical application in the laboratory | | the lecture | Theoretical My -3 work | |
|--|---|---|------------------------------|------------------------------------|----|
| Theoretical tests in -person practical tests in laboratories | Lecture Practical application in the laboratory | Q2 regulator | Understanding the lecture | Theoretical My -3 work | 34 |
| Theoretical tests in - person practical tests in laboratories | Lecture Practical application in the laboratory | Q2 regulator | Understanding the lecture | -2 Theoretical My -3 work | 35 |
| Theoretical tests in -person practical tests in laboratories | Lecture Practical application in the laboratory | Q2 regulator | Understanding the lecture | -2 Theoretical My -3 work | 36 |
| Theoretical tests in -person practical tests in laboratories | Lecture Practical application in the laboratory | Aims and classification of patient monitoring | Understanding e lectureth | Theoretical My -3 work | 37 |
| Theoretical tests in -person practical tests in laboratories | Lecture Practical application in the laboratory | Aims and classification of patient monitoring | Understanding the lecture | Theoretical My -3 work | 38 |
| Theoretical tests in -person practical tests in laboratories | Lecture Practical application the in laboratory | Aims and classification of patient monitoring | Understanding the lecture | -2 Theoretical My -3 work | 39 |
| Theoretical tests in -person practical ts in tes laboratories | Lecture Practical application in the laboratory | ECG monitors attached to patient | Understanding the lecture | Theoretical My -3 work | 40 |
| Theoretical tests in -person | Lecture Practical application | ECG monitors attached to patient | Understanding the lecture | -2 Theoretical My -3 | 41 |

| | work | | | in the laboratory | practical tests in laboratories |
|----|------------------------------------|-------------------------------|--|--|--|
| • | Theoretical My -3 work | g Understandin the lecture | ECG monitors attached to patient | Lecture Practical application in the laboratory | Theoretical tests in -person practical tests in laboratories |
| 4 | Theoretical My -3 work | Understanding the lecture | ECG monitors attached to patient | Lecture tical Prac application in the laboratory | Theoretical tests in -person practical tests in laboratories |
| 4 | -2 Theoretical My -3 work | Understanding the lecture | Monitors in central monitoring station | Lecture Practical application in the laboratory | Theoretical ts in tes -person practical tests in laboratories |
| 4 | Theoretical My -3 work | Understanding the lecture | Monitors in central monitoring station | Lecture Practical application in the laboratory | Theoretical tests in -person practical tests in laboratories |
| 4 | Theoretical My -3 work | Understanding the lecture | Alarm system & devices | Lecture Practical application in the laboratory | Theoretical tests in -person practical tests in laboratories |
| 47 | Theoretical My -3 work | Understanding the lecture | Alarm system & devices | Lecture Practical application in the laboratory | practical tests in aboratories |
| 48 | -2 Theoretical My -3 work | Understanding the lecture | Memory devices | Lecture Practical application in the laboratory | Theoretical tests in -person practical tests in aboratories |
| 49 | -2 Theoretical My -3 work | tanding Unders the lecture | Monitoring and records of critically ill patient | Lecture Practical application in the laboratory | Theoretical tests in -person practical tests in |

| laboratories | | | 1 | | |
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| Theoretical tests in -person practical tests in laboratories | Lecture Practical application in the laboratory | Monitoring and records of critically ill patient | Understanding the lecture | -2 Theoretical My -3 work | 5 |
| Theoretical tests in -person practical tests in laboratories | Lecture Practical application in the rylaborato | Recording devices | Understanding the lecture | -2 Theoretical My -3 work | 51 |
| Theoretical tests in -person practical tests in laboratories | Lecture Practical application in the laboratory | Recording devices | Understanding the lecture | -2 Theoretical My -3 work | 52 |
| Theoretical tests in -person practical tests in laboratories | Lecture Practical application in the laboratory | nutrition | Understanding the lecture | -2 oreticalThe My -3 work | 53 |
| Theoretical tests in -person practical tests in laboratories | Lecture Practical ion applicat in the laboratory | nutrition | Understanding the lecture | -2 Theoretical My -3 work | 54 |
| Theoretical tests in -person practical tests in oratorieslab | Lecture Practical application in the laboratory | Blood transfusion | Understanding the lecture | -2 Theoretical My -3 work | 55 |
| Theoretical tests in -person practical tests in laboratories | Lecture Practical application in the laboratory | Blood transfusion | Understanding the lecture | -2 Theoretical My -3 work | 56 |
| Theoretical tests in -person practical tests in laboratories | Lecture Practical application in the laboratory | Blood transfusion | Understanding the lecture | -2 Theoretical My -3 work | 57 |
| Theoretical | Lecture | Blood transfusion | Understanding | -2 | 58 |

| | Theoretical My -3 work | the lecture | | Practical application in the laboratory | in tests -person practical tests in laboratories |
|--------------------|--|------------------------------|--|--|---|
| 59 | -2 Theoretical My -3 work | Understanding the lecture | Blood transfusion | Lecture Practical application in the laboratory | Theoretical tests in -person practical tests in laboratories |
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