

## Course Description

### **General Objective:**

The teaching of the course aims to provide the student with the basics of training as an intensive care unit staff, for patients whose conditions are serious and life-threatening and intensive medical monitoring.

### **Special Objective:**

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

- 1- Develop an idea of all serious cases in intensive care units and how to deal with life-threatening critical cases.
- 2- Operating devices in intensive care units and how to use them.
- 3- Know life-saving medicines and doses of use .
- 4- Knowledge of life-saving procedures in critical situations.

|                             |                                   |
|-----------------------------|-----------------------------------|
| Al Ain University           | 1. Educational institution        |
| Anesthesia techniques       | 2. Scientific Department / Center |
| Intensive Care Techniques 2 | 3. Course Name/Code               |
| 100%                        | Available Attendance .4<br>Forms  |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                      |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|
| annual                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 5. Semester / Year                                   |
| 180                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Number of Credit Hours .6<br>(Total)                 |
| 2023                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | The history of preparation .7<br>of this description |
| 8. Course Objectives                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                      |
| <b>1. The student should understand his role and responsibilities in providing anesthesia care</b><br><b>2. Educate the student about the different devices found in operating rooms and intensive care units</b><br><b>3. Knowledge of how to deal with critical cases within the intensive care unit</b><br><b>4. Knowledge of the performance of devices and medicines to deal with critical cases and monitor patients in intensive care units</b>                                                                                                                                                        |                                                      |
| 10.Course Outcomes and Methods of Teaching, Learning and Assessment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                      |
| A- Cognitive objectives<br>Knowledge and understanding<br><b>1. The course aims to provide students with knowledge about the basics and to have an idea of all serious cases in intensive care units and how to deal with critical life-threatening cases.</b>                                                                                                                                                                                                                                                                                                                                                |                                                      |
| B - Skills objectives of the course.<br>1. The student should understand his role and responsibilities in providing anesthesia care<br>2. Educate the student about the different devices found in operating rooms and intensive care units<br>3. Knowledge of how to deal with critical cases within the intensive care unit<br>4. Knowledge of the performance of devices and medicines to deal with critical cases and monitor patients in intensive care units<br>5. Skills on devices used to maintain the patient's airway<br>6. Intensive care is an essential science for medical technology students |                                                      |
| Teaching and learning methods                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                      |

|                                                                                                                                                                                                                                                                                                                                                                                                               |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Interactive<br>Electronic<br>Video                                                                                                                                                                                                                                                                                                                                                                            |
| Evaluation methods                                                                                                                                                                                                                                                                                                                                                                                            |
| Conducting exams, periodic questions, oral exam, observation, homework, laboratory reports.                                                                                                                                                                                                                                                                                                                   |
| C. Emotional and value goals <ul style="list-style-type: none"> <li>1- Convinced of the importance of the specialization he is studying.</li> <li>2- The effort of teachers and technicians is appreciated in giving the scientific material.</li> <li>3- Groups of students participate in group work.</li> <li>4- Respects sincerity at work and hates cheating.</li> </ul>                                 |
| Teaching and learning methods                                                                                                                                                                                                                                                                                                                                                                                 |
| The method of lecture, discussion, student research in an interactive, electronic and video way.                                                                                                                                                                                                                                                                                                              |
| Evaluation methods                                                                                                                                                                                                                                                                                                                                                                                            |
| Discussion, observation, group tasks.                                                                                                                                                                                                                                                                                                                                                                         |
| d. General and rehabilitative skills transferred (other skills related to them).<br>employment and personal development). <ul style="list-style-type: none"> <li>1. To be able to understand and operate anesthesia machines</li> <li>2. - Adhere to all recommendations and ethics related to Professional Conduct</li> <li>3. To love his profession</li> <li>4- Creativity in his field of work</li> </ul> |

| <b>Fourth</b>                 | <b>Academic<br/>year</b>                                     | <b>Intensive Care<br/>Technology (2)</b> | <b>Material<br/>Name</b> | <b>sedation</b> | <b>Department<br/>or Branch</b> |
|-------------------------------|--------------------------------------------------------------|------------------------------------------|--------------------------|-----------------|---------------------------------|
| <b>Theoretical vocabulary</b> |                                                              |                                          |                          |                 |                                 |
| <b><u>Week</u></b>            | <b><u>Vocabulary details</u></b>                             |                                          |                          |                 |                                 |
| <b>First</b>                  | <b>Recognition and management of critically ill patient.</b> |                                          |                          |                 |                                 |
| <b>Second</b>                 | <b>Defibrillators</b>                                        |                                          |                          |                 |                                 |
| <b>Third</b>                  | <b>Defibrillators</b>                                        |                                          |                          |                 |                                 |
| <b>Fourth</b>                 | <b>Defibrillators</b>                                        |                                          |                          |                 |                                 |
| <b>V</b>                      | <b>Defibrillators</b>                                        |                                          |                          |                 |                                 |
| <b>Sixth</b>                  | <b>Q2 regulator</b>                                          |                                          |                          |                 |                                 |
| <b>Seventh</b>                | <b>Aims and classification of patient monitoring</b>         |                                          |                          |                 |                                 |
| <b>Eighth</b>                 | <b>E.C.G monitors attached to patient</b>                    |                                          |                          |                 |                                 |
| <b>Ninth</b>                  | <b>E.C.G monitors attached to patient</b>                    |                                          |                          |                 |                                 |
| <b>X</b>                      | <b>E.C.G monitors attached to patient</b>                    |                                          |                          |                 |                                 |
| <b>Eleventh</b>               | <b>E.C.G monitors attached to patient</b>                    |                                          |                          |                 |                                 |
| <b>Twelfth</b>                | <b>E.C.G monitors attached to patient</b>                    |                                          |                          |                 |                                 |
| <b>Thirteenth</b>             | <b>Monitors in central monitoring station</b>                |                                          |                          |                 |                                 |
| <b>Fourteenth</b>             | <b>Monitors in central monitoring station</b>                |                                          |                          |                 |                                 |
| <b>Fifteenth</b>              | <b>Monitors in central monitoring station</b>                |                                          |                          |                 |                                 |
| <b>Sixteenth</b>              | <b>Monitors in central monitoring station</b>                |                                          |                          |                 |                                 |
| <b>Seventeenth</b>            | <b>Monitors in central monitoring station</b>                |                                          |                          |                 |                                 |
| <b>Eighteenth</b>             | <b>Monitors in central monitoring station</b>                |                                          |                          |                 |                                 |
| <b>Nineteenth</b>             | <b>Alarm system &amp; devices</b>                            |                                          |                          |                 |                                 |
| <b>th20</b>                   | <b>Alarm system &amp; devices</b>                            |                                          |                          |                 |                                 |
| <b>first–Twenty</b>           | <b>Memory devices</b>                                        |                                          |                          |                 |                                 |
| <b>–Twenty<br/>second</b>     | <b>Memory devices</b>                                        |                                          |                          |                 |                                 |
| <b>third–Twenty</b>           | <b>Memory devices</b>                                        |                                          |                          |                 |                                 |
| <b>fourth–Twenty</b>          | <b>Monitoring and records of critically ill patient.</b>     |                                          |                          |                 |                                 |
| <b>fifth–Twenty</b>           | <b>Recording devices</b>                                     |                                          |                          |                 |                                 |
| <b>sixth–Twenty</b>           | <b>Recording devices</b>                                     |                                          |                          |                 |                                 |
| <b>–Twenty<br/>seventh</b>    | <b>Recording devices</b>                                     |                                          |                          |                 |                                 |
| <b>eighth–Twenty</b>          | <b>Recording devices</b>                                     |                                          |                          |                 |                                 |
| <b>ninth–Twenty</b>           | <b>Recording devices</b>                                     |                                          |                          |                 |                                 |
| <b>Xxx</b>                    | <b>Recording devices</b>                                     |                                          |                          |                 |                                 |



| <b><u>Fourth</u></b>        | <b>Academic<br/>year</b>                                     | <b>Intensive Care<br/>Technology (2)</b> | <b>Material<br/>Name</b> | <b>sedation</b> | <b>Department<br/>or Branch</b> |
|-----------------------------|--------------------------------------------------------------|------------------------------------------|--------------------------|-----------------|---------------------------------|
| <b>Practical vocabulary</b> |                                                              |                                          |                          |                 |                                 |
| <b><u>Week</u></b>          | <b><u>Vocabulary details</u></b>                             |                                          |                          |                 |                                 |
| <b>First</b>                | <b>Recognition and management of critically ill patient.</b> |                                          |                          |                 |                                 |
| <b>Second</b>               | <b>Defibrillators</b>                                        |                                          |                          |                 |                                 |
| <b>Third</b>                | <b>Defibrillators</b>                                        |                                          |                          |                 |                                 |
| <b>Fourth</b>               | <b>Defibrillators</b>                                        |                                          |                          |                 |                                 |
| <b>V</b>                    | <b>Defibrillators</b>                                        |                                          |                          |                 |                                 |
| <b>Sixth</b>                | <b>Q2 regulator</b>                                          |                                          |                          |                 |                                 |
| <b>Seventh</b>              | <b>Aims and classification of patient monitoring</b>         |                                          |                          |                 |                                 |
| <b>Eighth</b>               | <b>E.C.G monitors attached to patient</b>                    |                                          |                          |                 |                                 |
| <b>Ninth</b>                | <b>E.C.G monitors attached to patient</b>                    |                                          |                          |                 |                                 |
| <b>X</b>                    | <b>E.C.G monitors attached to patient</b>                    |                                          |                          |                 |                                 |
| <b>Eleventh</b>             | <b>E.C.G monitors attached to patient</b>                    |                                          |                          |                 |                                 |
| <b>Twelfth</b>              | <b>E.C.G monitors attached to patient</b>                    |                                          |                          |                 |                                 |
| <b>Thirteenth</b>           | <b>Monitors in central monitoring station</b>                |                                          |                          |                 |                                 |
| <b>Fourteenth</b>           | <b>Monitors in central monitoring station</b>                |                                          |                          |                 |                                 |
| <b>Fifteenth</b>            | <b>Monitors in central monitoring station</b>                |                                          |                          |                 |                                 |
| <b>Sixteenth</b>            | <b>Monitors in central monitoring station</b>                |                                          |                          |                 |                                 |

|                            |                                                          |
|----------------------------|----------------------------------------------------------|
| <b>Seventeenth</b>         | <b>Monitors in central monitoring station</b>            |
| <b>Eighteenth</b>          | <b>Monitors in central monitoring station</b>            |
| <b>Nineteenth</b>          | <b>Alarm system &amp; devices</b>                        |
| <b>th20</b>                | <b>Alarm system &amp; devices</b>                        |
| <b>first–Twenty</b>        | <b>Memory devices</b>                                    |
| <b>–Twenty<br/>second</b>  | <b>Memory devices</b>                                    |
| <b>–Twenty<br/>third</b>   | <b>Memory devices</b>                                    |
| <b>–Twenty<br/>fourth</b>  | <b>Monitoring and records of critically ill patient.</b> |
| <b>fifth–Twenty</b>        | <b>Recording devices</b>                                 |
| <b>–Twenty<br/>sixth</b>   | <b>Recording devices</b>                                 |
| <b>–Twenty<br/>seventh</b> | <b>Recording devices</b>                                 |
| <b>–Twenty<br/>eighth</b>  | <b>Recording devices</b>                                 |
| <b>–Twenty<br/>ninth</b>   | <b>Recording devices</b>                                 |
| <b>Xxx</b>                 | <b>Recording devices</b>                                 |

| 11.Infrastructure                                                                             |  |                                                       |
|-----------------------------------------------------------------------------------------------|--|-------------------------------------------------------|
| Required reading:<br>·CORE TEXTS<br>·COURSE MATERIALS<br>·OTHER                               |  | Required textbooks 1                                  |
| Special requirements (include for example workshops, periodicals, IT software, websites)      |  | ICU book, handbook of ICU,<br><br>Scientific journals |
| Community-based facilities (include for example, guest Lectures , internship , field studies) |  | E-library                                             |
|                                                                                               |  | 2 Main references (sources)                           |

| 12. Course Development Plan                                                                                                                                                                                                                                                                                                                                                                                                                  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>The curriculum development plan is based on the following:</p> <ul style="list-style-type: none"> <li>• Give the prescribed scientific material and observe and analyze the results of the students.</li> <li>• Study feedback from students' notes about vocabulary.</li> <li>• Study the practical laboratory notes of the course.</li> <li>• Comparing current vocabulary with those of corresponding colleges in the field</li> </ul> |



# Course discription: Nursing

## Course discription

**General Objective:** To identify the basic needs of the patient, nursing proces, and assess the patient's health status.

**Specific Objective:** By the end of the course, the student should be able to:

1. Perform nursing procedures such as assessment, planning, and execution.
2. Care for the patient before, during, and after anesthesia.

|    |                                                                                                                                                                            |                       |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| 1. | <b>Educational Institution</b>                                                                                                                                             | AlAeyn University     |
| 2. | <b>Scientific Department / Center</b>                                                                                                                                      | Anesthesia Techniques |
| 3. | <b>Course Name / Code:</b>                                                                                                                                                 | Nursing               |
| 4. | <b>Available Attendance Forms</b>                                                                                                                                          | 100%                  |
| 5. | <b>Semester / Year:</b>                                                                                                                                                    | Annual                |
| 6. | <b>Total Study Hours</b>                                                                                                                                                   | 150 hrs               |
| 7. | <b>Date of Preparation of this Description:</b>                                                                                                                            | 2023                  |
| 8. | <b>Course Objectives</b><br>To understand the underlying principle behind all nursing intervention procedures related to providing care for adult clients in nursing care. |                       |
|    |                                                                                                                                                                            |                       |

|                                                                                                                                                                                                                                                                                                                                                                                     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 10. Course Outcomes, Teaching and Learning Methods, and Assessment Methods.                                                                                                                                                                                                                                                                                                         |
| <p>A. Cognitive Objectives</p> <p>A. Knowledge and Understanding</p> <p>A1. Identify nursing intervention procedures.</p> <p>A2. Describe the methodological approach to analyzing patient problems.</p> <p>A3. Describe basic nursing skills related to various patient conditions.</p> <p>A4. Recognize the principles of medical/surgical asepsis and universal precautions.</p> |
| <p>B. Skill-based Objectives for the Course.</p> <p>B1. Methodological approach to analyzing patient problems.</p> <p>B2. Nursing intervention procedures.</p> <p>B3. Basic nursing skills related to various patient conditions.</p>                                                                                                                                               |
| Teaching and Learning Methods                                                                                                                                                                                                                                                                                                                                                       |
| <p>Interactive</p> <p>Online</p> <p>Video-based</p>                                                                                                                                                                                                                                                                                                                                 |
| Assessment Methods                                                                                                                                                                                                                                                                                                                                                                  |
| Exams, quizzes, oral exams, observation, homework assignments, lab reports.                                                                                                                                                                                                                                                                                                         |
| <p>C. Affective and Values-based Objectives</p> <ul style="list-style-type: none"> <li>•Experimental thinking</li> <li>•Exploratory thinking</li> <li>•Critical thinking</li> <li>•Inductive thinking</li> </ul>                                                                                                                                                                    |
| Teaching and Learning Methods                                                                                                                                                                                                                                                                                                                                                       |
| Lecture, discussion, student research in an interactive, electronic, and video-based manner.                                                                                                                                                                                                                                                                                        |
| Assessment Methods                                                                                                                                                                                                                                                                                                                                                                  |
| Discussion, observation, group tasks.                                                                                                                                                                                                                                                                                                                                               |
| <p>D. General and Transferable Skills and Qualifications (Other Related Skills).</p> <p>D1. The student should behave appropriately in front of employers.</p> <p>D2. The student should pass professional exams.</p> <p>D3. The student should develop themselves for post-graduation.</p> <p>D4. The student should use available resources to increase their efficiency.</p>     |

| Department         | Anesthesia Techniques                                                               | Course Name | Nursing | Year | Forth |
|--------------------|-------------------------------------------------------------------------------------|-------------|---------|------|-------|
| Vocabulary Details |                                                                                     |             |         |      |       |
| <u>Weak</u>        | <u>Details of the vocabulary</u>                                                    |             |         |      |       |
| 1th                | Introduction about nursing .                                                        |             |         |      |       |
| 2th                | Concept of nursing process & stages.                                                |             |         |      |       |
| 3-4                | Preoperative nursing management & general physical assessment.                      |             |         |      |       |
| 5-6                | Pre-anaesthetic , intra anaesthetic and post anaesthetic management of the patient. |             |         |      |       |
| 7-8-9              | Intraoperative nursing management.                                                  |             |         |      |       |
| 10-11-12           | Nursing care in the recovery room.                                                  |             |         |      |       |
| 13-14              | Post operative nursing care                                                         |             |         |      |       |
| 15-16-17           | Management of the patient in the cardiac care unit                                  |             |         |      |       |
| 18-19              | Management of the cardiovascular surgery patient                                    |             |         |      |       |
| 20-21              | Nursing management of intravenous therapy.                                          |             |         |      |       |
| 22-23              | Management of patient with neurology disfunction (unconscious patient)              |             |         |      |       |
| 24-25              | Management of patient with musculo-skeletal dis- function & trauma , fracture.      |             |         |      |       |
| 26-27              | Critical care of some cases.                                                        |             |         |      |       |
| 28-29-30           | First Aid.                                                                          |             |         |      |       |

| Department                  | Anesthesia Techniques                                                               | Course Name | Nursing | Year | Forth |
|-----------------------------|-------------------------------------------------------------------------------------|-------------|---------|------|-------|
| <b>Practical Vocabulary</b> |                                                                                     |             |         |      |       |
| <u>Weak</u>                 | <u>Vocabulary Details</u>                                                           |             |         |      |       |
| <b>1th</b>                  | Introduction about nursing .                                                        |             |         |      |       |
| <b>2th</b>                  | Concept of nursing process & stages.                                                |             |         |      |       |
| <b>3-4</b>                  | Preoperative nursing management & general physical assessment.                      |             |         |      |       |
| <b>5-6</b>                  | Pre-anaesthetic , intra anaesthetic and post anaesthetic management of the patient. |             |         |      |       |
| <b>7-8-9</b>                | Intraoperative nursing management.                                                  |             |         |      |       |
| <b>10-11-12</b>             | Nursing care in the recovery room.                                                  |             |         |      |       |
| <b>13-14</b>                | Post operative nursing care                                                         |             |         |      |       |
| <b>15-16-17</b>             | Management of the patient in the cardiac care unit                                  |             |         |      |       |
| <b>18-19</b>                | Management of the cardiovascular surgery patient                                    |             |         |      |       |
| <b>20-21</b>                | Nursing management of intravenous therapy.                                          |             |         |      |       |
| <b>22-23</b>                | Management of patient with neurology disfunction (unconscious patient)              |             |         |      |       |
| <b>24-25</b>                | Management of patient with musculo-skeletal dis- function & trauma , fracture.      |             |         |      |       |
| <b>26-27</b>                | Critical care of some cases.                                                        |             |         |      |       |
| <b>28-29-30</b>             | First Aid.                                                                          |             |         |      |       |

| Infrastructure                                                                                                                                                                                                                                                                                       |  |                                                                                                                            |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------------------|
| Jr., D. H. L. F., 2012. Introduction to Microsoft Office 2010. 2nd ed. s.l.:World scientific publishing.<br>Mayne, R., 2015. Introduction To Windows. 2nd ed. s.l.:World scientific publishing<br>Thomas Anderson, M. D., 2014. Operating Systems: Principles and Practice. s.l.:University of Texas |  |                                                                                                                            |
| Books and references recommended:                                                                                                                                                                                                                                                                    |  | <ul style="list-style-type: none"> <li>• Scientific Journals</li> <li>• Reports</li> <li>• Scientific Magazines</li> </ul> |

| Course Development Plan                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>The curriculum development plan is based on the following:</b></p> <ul style="list-style-type: none"> <li>• Providing the prescribed scientific material and observing and analyzing student outcomes.</li> <li>• Studying the feedback from students about the vocabulary.</li> <li>• Studying the practical lab observations for the course.</li> <li>• Comparing the current vocabulary with that of competitive colleges in the field.</li> </ul> |

## Internal Medicine and Surgical Course Description

### Course Description

#### General Objective:

- 1- This course specification provides a brief summary of the main features of the course and the learning outcomes that a typical student may reasonably expect to achieve and demonstrate whether he/ she is fully benefiting from the learning and opportunities that are provided.
- 2- The student must be familiar with all the information that qualifies him to be part of the medical staff in the operating room

#### Special Objective:

- 1 The student should be familiar with the basic principles related to the foundations of surgery, which are related to anesthesia and intensive care.
- 2- This includes reviews of all medical diseases for all systems with intensive clinical training courses focused on medical emergencies and how to deal with real patients practically
- 3- The student should be able to understand the importance of cooperation between the anesthetic and the surgeon in completing the operation successfully

|                                |                                             |
|--------------------------------|---------------------------------------------|
| Educational institution        | Al Ain University                           |
| Scientific Department / Center | Department of Anesthesia and Intensive Care |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                         |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|
| Course Name/Code                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Internal Medicine and Surgical Medicine |
| Available Attendance Forms                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 100%                                    |
| Semester/Year                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Year                                    |
| Number of credit hours (total)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 150                                     |
| Date of preparation of this description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 2023                                    |
| Course Objectives                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                         |
| <ol style="list-style-type: none"> <li>1. The student should understand his role and responsibilities in providing anesthesia care</li> <li>2. Educate the student about the different devices in the operating rooms and intensive care units</li> <li>3. Knowledge of the main features of this equipment</li> <li>4. Knowledge of the performance of these devices during or after anesthesia</li> <li>5. Provide observation care in intensive care units</li> <li>6. Raising the scientific competence and expanding the circle of cognitive awareness of medicine with the importance of the close link between anesthesia and surgery and working in the spirit of one medical team and filling the gaps of lack of knowledge for the purpose of reducing medical errors in all stages of patient treatment</li> </ol> |                                         |

|                                                                    |
|--------------------------------------------------------------------|
| . Course Outcomes and Methods of Teaching, Learning and Assessment |
|--------------------------------------------------------------------|

## A- Cognitive objectives

1. Thinking skills: The student understands the types of diseases that need surgical intervention and how to choose safe methods in anesthesia and surgery by adopting the least risky treatment methods for the patient in proportion to the stages of the disease, as well as the lowest economic cost by working with the possibilities available within the health institution

2 . The student gets acquainted with the limits of his surgical and anesthesia capabilities and the possibility of the health institution in which he works and follow the correct and safe methods in the event that patients are transferred to specialized centers as needed to ensure patient safety

B- Fundamentals of surgery is a basic science for students of the Medical Technical College, as it provides imaging and clarification of diseases in terms of diagnosis, treatment of the disease and care for the patient before, during and after surgery

- Study of the stages of disease development in the patient

- The relationship of patients in need of surgery with anesthesia, types of operations and intensive care

## B - Skills objectives of the course.

- The student will be introduced to the theoretical foundations of surgical diseases

- Clinical examinations necessary to diagnose diseases



- The student acquires the skill of identifying diseases and methods of treating them
- Acquire the skills of preparing the patient for surgeries and how to
- Post-operative patient monitoring
- The course should be able to achieve the above cognitive goals
- Other skills related to employment and (general and transferable skills - self-development)

#### Teaching and learning methods

Interactive

Electronic

Video

#### Evaluation methods

Conducting exams, periodic questions, oral exams, discussion and homework

#### C. Emotional and value goals

C1- The student is convinced of the importance of the specialization he is studying.

C2- The effort of the teachers in giving the scientific material is appreciated.

C3- Groups of students participate in group work, for example, (forming groups of students participating in writing seminars and graduation research)..

A4- Respects sincerity at work and hates cheating.

. C5- Clarity in putting forward ideas and not hiding information from colleagues and patients, including medical errors, learning from medical errors and developing appropriate plans to prevent their recurrence.

Teaching and learning methods

The method of lecture, discussion, student research in an interactive, electronic and video way.

Evaluation methods

Discussion, observation, group tasks: such as evaluating the seminar and completing the homework in the form of questions

d. General and Transferable Skills

-Other skills related to employability and personal development

- Forming student groups to examine patients before entering the operating hall and providing them with important facilitation books from the department to the hospital and was within the completion of student research

- The possibility of research and analysis

- The ability to collect and analyze information and summarize the main ideas from it .

|                                                                               |          |                  |                    |                  |               |
|-------------------------------------------------------------------------------|----------|------------------|--------------------|------------------|---------------|
| Department<br>or Branch                                                       | sedation | Material<br>Name | Medicine & surgery | Academic<br>year | <u>Fourth</u> |
| Theoretical vocabulary                                                        |          |                  |                    |                  |               |
| <u>Vocabulary details</u>                                                     |          |                  |                    | <u>Week</u>      |               |
| <b>Shock (types, patho physiology, management)</b>                            |          |                  |                    | First            |               |
| <b>Burn, plastic surgery</b>                                                  |          |                  |                    | Second           |               |
| <b>Traumatology</b>                                                           |          |                  |                    | Third            |               |
| <b>Traumatology</b>                                                           |          |                  |                    | Fourth           |               |
| <b>Warfare injuries</b>                                                       |          |                  |                    | V                |               |
| <b>Head injuries, SOL, mangement of unconscious patient</b>                   |          |                  |                    | Sixth            |               |
| <b>Spinal injuries, peripheral nerve injuries</b>                             |          |                  |                    | Seventh          |               |
| <b>Tracheostomy, otolaryngiology</b>                                          |          |                  |                    | Eighth           |               |
| <b>Ophthalmology</b>                                                          |          |                  |                    | Ninth            |               |
| <b>Orthopaedic Surgery: Fractures &amp; Dislocations</b>                      |          |                  |                    | X                |               |
| <b>Osteomyelitis: Acute &amp; Chronic , Tumours of musculoskeletal system</b> |          |                  |                    | Eleventh         |               |
| <b>Wrist, hand, foot</b>                                                      |          |                  |                    | Twelfth          |               |
| <b>Amputations</b>                                                            |          |                  |                    | Thirteenth       |               |
| <b>Endocrinology: Pituitary gland</b>                                         |          |                  |                    | Fourteenth       |               |
| <b>Thyroid gland</b>                                                          |          |                  |                    | Fifteenth        |               |
| <b>Parathyroid gland &amp; calcium balance.</b>                               |          |                  |                    | Sixteenth        |               |
| <b>Adrenal gland</b>                                                          |          |                  |                    | Seventeenth      |               |
| <b>D.M : complications, management, preparation for operation .</b>           |          |                  |                    | Eighteenth       |               |
| <b>Preparation of patient with obstructive jaundice</b>                       |          |                  |                    | Nineteenth       |               |
| <b>Preparation of patient with portal hypertension due to cirrhosis</b>       |          |                  |                    | 20th             |               |
| <b>Management of haematemesis, melaena</b>                                    |          |                  |                    | Twenty-first     |               |
| <b>Management of haemopneumothorax, flail chest</b>                           |          |                  |                    | Twenty-second    |               |
| <b>Management of respiratory failure, ARDS</b>                                |          |                  |                    | Twenty-third     |               |
| <b>Management of coagulopathy, DIC</b>                                        |          |                  |                    | Twenty-fourth    |               |

|                                                                          |                |
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| <b>Management of septicaemia, MOFS</b>                                   | Twenty-fifth   |
| <b>Surgical Precautions in theater &amp; ICU</b>                         | Twenty-sixth   |
| <b>Transplantation</b>                                                   | Twenty-seventh |
| <b>New Techniques in Surgery</b>                                         | Twenty-eighth  |
| <b>Emergencies in Female's genital tract: Injuries, Ectopic Prenancy</b> | Twenty-ninth   |
| <b>Abortion, Caesarean section , hysterectomy</b>                        | Xxx            |

|                             |                                                              |
|-----------------------------|--------------------------------------------------------------|
| .Infrastructure             |                                                              |
| 1 Required textbooks        | Bailey and Loves short practices of surgery                  |
| 2 Main references (sources) | Oxford handbook of clinical surgery and medicine 4th edition |

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| . Course Development Plan |
|---------------------------|

|                                                            |
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| The curriculum development plan is based on the following: |
|------------------------------------------------------------|

|                                                                                              |
|----------------------------------------------------------------------------------------------|
| Give the prescribed scientific material and observe and analyze the results of the students. |
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| Study feedback from students' notes about vocabulary. |
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|                                                                                          |
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| Compare current vocabulary with vocabulary of corresponding faculties in the same field. |
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## Course Description Anesthesia Equipment Techniques 3

### Course description

General goal: To identify all medical devices used and advanced in anesthesia

Own goal:

At the end of the academic year, the student will be able to:

- 1- Use all advanced equipment used in anesthesia.
- 2- Maintenance and maintenance of all anesthesia equipment.
- 3- Identify all anesthesia devices and techniques used

|                                                                                                                                                                                              |                                   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|
| 1. Educational Institution,                                                                                                                                                                  | Al Ain University                 |
| 2. Scientific department/center                                                                                                                                                              | Anesthesia techniques             |
| 3. Course name/code                                                                                                                                                                          | Anesthesia Equipment Techniques 3 |
| 4. Available Attendance Forms                                                                                                                                                                | 100%                              |
| 5. Semester / Year                                                                                                                                                                           | Annual                            |
| 6. Number of Credit Hours (Total)                                                                                                                                                            | 180                               |
| 7. The history of preparation of this description                                                                                                                                            | 2023                              |
| 8. Course objectives                                                                                                                                                                         |                                   |
| <b>General and transferable skills (other employability-relevant skills and Self development)</b><br><b>1. Driving skills</b><br><b>2. Skills of listening</b><br><b>3. Learn new skills</b> |                                   |

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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Course Outcomes and Methods of Teaching, Learning and Assessment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <p>A- Cognitive objectives</p> <p>Knowledge and understanding</p> <p>A1. The anesthesia technician primarily performs a patient care role<br/>With the management and monitoring of anesthesia and has a wide scope<br/>Knowledge of anesthesia techniques, instruments, supplies, and technology.</p> <p>A2. Identify the defense mechanisms that the body has to defend itself<br/>In cases of exposure to disease.</p> <p>A3. Know how to relate changes that occur in organ functions to the condition<br/>The disease refers to the clinical symptoms that appear on the patient.</p> <p>A4. Identify common diseases for each organ of the body.</p> |
| <p>B - The skills objectives of the course.</p> <p>Subject-specific skills</p> <p>B 1. Explanation<br/>B2. analysis<br/>B3 rating<br/>B4. clarification</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Teaching and learning methods                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <p>Interactive<br/>Electronic<br/>Video<br/>Lecture<br/>Practical laboratory application<br/>Seminar<br/>Research Project<br/>Educational</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

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| Evaluation methods                                                                                                                                                                                                                                                                                                        |
| Conducting periodic exams and questions, oral exams, observations, homework, and laboratory reports                                                                                                                                                                                                                       |
| C- Emotional and value goals<br>C1- He is convinced of the importance of the specialty he is studying.<br>C2- The effort of teaching staff and technicians in providing scientific material is appreciated.<br>C3- Groups of students participate in group work.<br>C4- He respects sincerity in work and hates cheating. |
| Teaching and learning methods                                                                                                                                                                                                                                                                                             |
| The method of lecture, discussion, and student research in an interactive, electronic and video manner                                                                                                                                                                                                                    |
| Evaluation methods                                                                                                                                                                                                                                                                                                        |
| Discussion, observation, group tasks.                                                                                                                                                                                                                                                                                     |
| D - Transferable general and qualifying skills (other skills related to employability and personal development).                                                                                                                                                                                                          |

### **Curriculum for theoretical and practical anesthesia device techniques, fourth stage**

|                                                                                                       |                                  |
|-------------------------------------------------------------------------------------------------------|----------------------------------|
| <b>Physiological monitoring: gases, inspired O2 concentration, CO2 and volatile anaesthetic agent</b> | <b>The first and second week</b> |
| <b>Measurement of respiratory volume, measurement of gases in blood</b>                               | <b>The third and fourth week</b> |
| <b>Automatic record keeping, advantage and equipments for automatic record</b>                        | <b>The fifth and sixth weeks</b> |



|                                                                                                                                     |                                                   |
|-------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|
| <b>Atmospheric pollution, measurement and control of pollution, scavenging system</b>                                               | <b>The seventh and eighth weeks</b>               |
| <b>Medical suction apparatus, component, choice, standard and testing</b>                                                           | <b>The ninth and tenth weeks</b>                  |
| <b>Cleaning and sterilization: decontamination, disinfection and sterilization</b>                                                  | <b>The eleventh and twelfth weeks</b>             |
| <b>Check list and treatment of anaesthetic machine</b>                                                                              | <b>The thirteenth and fourteenth weeks</b>        |
| <b>Electrical hazard and their prevention, and accident associated with main electrical supply</b>                                  | <b>The fifteenth and sixteenth weeks</b>          |
| <b>Surgical diathermy, accident due to use of diathermy,</b>                                                                        | <b>The seventeenth and eighteenth weeks</b>       |
| <b>Defibrillator and pacemaker</b>                                                                                                  | <b>Week nineteen and twenty</b>                   |
| <b>Laser: principle and clinical application of laser, and safety spectrum</b>                                                      | <b>The twenty-first and twenty-second week</b>    |
| <b>Equipment for MRI anesthesia, and miscellaneous equipment in anesthesia( urine output equipment, peripheral nerve stimulator</b> | <b>The twenty-third and twenty-fourth weeks</b>   |
| <b>Electronics in anaesthetic machine, ergonomics and critical incident, electronic control of breathing system</b>                 | <b>The twenty-fifth and twenty-sixth week</b>     |
| <b>Risk management :principles of risk management, risk reduction related to equipment</b>                                          | <b>The twenty-seventh and twenty-eighth weeks</b> |
| <b>Maintenance of equipments</b>                                                                                                    | <b>The twenty-ninth and thirty-ninth week</b>     |

|                                                                                                         |  |                              |
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| 10 Infrastructure                                                                                       |  |                              |
| .                                                                                                       |  |                              |
| Required reading:<br>·CORE TEXTS<br>·COURSE MATERIALS<br>·OTHER                                         |  | 1. Required prescribed books |
| Special requirements (include for example workshops, periodicals, IT software, websites)                |  |                              |
| Community-based facilities (include for example, guest Lectures , internship , field studies)           |  |                              |
| 1. <b>Community-based facilities (include for example, guest Lectures , internship , field studies)</b> |  | 2.Course development plan    |
|                                                                                                         |  |                              |

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| 11. Course development plan                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <p>The curriculum development plan is based on the following:</p> <ul style="list-style-type: none"> <li>• Giving the prescribed scientific material and observing and analyzing the students' results.</li> <li>• Study feedback from students' comments about vocabulary.</li> <li>• Study the practical laboratory notes for the course.</li> <li>• Comparing current vocabulary with the vocabulary of corresponding colleges in the field</li> </ul> |

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# Course Description Anesthesia 3

## Course Description

**General Objective:** Teaching the student how to give anesthetic to the patient.

**Special Objective:** At the end of the year, the student will be able to:

- 1- Know all methods of anesthesia.
- 2- How to give anesthetics.
- 3- How to deal with the patient according to the type of operation and the patient's medical history.
- 4- Determine wisely the patient's management when an emergency occurs.

|                                                                                                    |                       |
|----------------------------------------------------------------------------------------------------|-----------------------|
| 1- Educational institution                                                                         | Al Ain University     |
| 2- Scientific Department                                                                           | Anesthesia techniques |
| 3- Course Name/Code                                                                                | <b>Anesthesia3</b>    |
| 4- Available Attendance Forms                                                                      | 100%                  |
| 5- Semester / Year                                                                                 | annual                |
| 6- Number of Credit Hours (Total)                                                                  | 180                   |
| 7- Date of preparation of this description                                                         | 2023                  |
| 8- Course Objectives                                                                               |                       |
| <b>1. The student should understand his role and responsibilities in providing anesthesia care</b> |                       |
| <b>2. Educate the student about the different methods of anesthesia</b>                            |                       |
| <b>3. Knowledge of the main features of these methods</b>                                          |                       |

**4. Knowledge of the types of surgeries and how to deal with them in terms of anesthesia**

**5- Know how to monitor and follow up patients according to the patient's medical history**

## 9. Course Outcomes and Methods of Teaching, Learning and Assessment

### **A- Cognitive objectives**

1. General and detailed knowledge of medical conditions associated with surgical operations
2. Knowing how to deal with patients and their medical history
3. Detailed knowledge of the available methods of anesthesia
4. Knowing how to choose anesthesia method and anesthetic drugs according to surgical procedures and medical history of the patient.
- 5.. Knowing how to monitor the patient during anesthesia and how to deal with complications and problems that occur during anesthesia.

### **B. Subject-specific skills**

1. The skill of operating various equipment and placing it in a state of readiness to provide care to the patient
2. Skills on the methods used to maintain the patient's airway
3. Skills on the methods used in general and regional anesthesia

### **Skills objectives of the course**

1. Think about his role within the team and perform within the limits of that role
2. Think about how to manage the complications and problems that may occur during caregiving
3. Quick to think about pharmaceutical equipment for a specific patient
4. Suggest alternatives in case some equipment is not available in a way that ensures the provision of correct and safe care

### **Teaching and learning methods**

Interactive  
Electronic

|                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Video                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Evaluation methods                                                                                                                                                                                                                                                                                                                                                                                                              |
| Conducting exams, periodic questions, oral exam, observation, homework, laboratory reports.                                                                                                                                                                                                                                                                                                                                     |
| <ul style="list-style-type: none"> <li>- Emotional and value goals <ul style="list-style-type: none"> <li>1- Convinced of the importance of the specialization he is studying.</li> <li>2- The effort of teachers and technicians is appreciated in giving the scientific material.</li> <li>3- Groups of students participate in group work.</li> <li>4- Respects sincerity at work and hates cheating.</li> </ul> </li> </ul> |
| Teaching and learning methods                                                                                                                                                                                                                                                                                                                                                                                                   |
| The method of lecture, discussion, student research in an interactive, electronic and video way.                                                                                                                                                                                                                                                                                                                                |
| Evaluation methods                                                                                                                                                                                                                                                                                                                                                                                                              |
| Discussion, observation, group tasks.                                                                                                                                                                                                                                                                                                                                                                                           |
| d. General and rehabilitative skills transferred (other skills related to employability and personal development).                                                                                                                                                                                                                                                                                                              |

| Department<br>or Branch       | Anesthesia                                                                                                           | Material Name | Anesthesia(3) | Academic<br>year | <u>Fourth</u> |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------|---------------|---------------|------------------|---------------|
| <b>Theoretical vocabulary</b> |                                                                                                                      |               |               |                  |               |
| <u>Week</u>                   | <u>Vocabulary details</u>                                                                                            |               |               |                  |               |
| First                         | <b>Maternal Anatomical &amp; Physiological changes</b>                                                               |               |               |                  |               |
| Second                        | <b>Paediatric Anatomical &amp; Physiological difference.</b>                                                         |               |               |                  |               |
| Third                         | <b>Geriatric Anatomical &amp; Physiological changes</b>                                                              |               |               |                  |               |
| Fourth                        | <b>Anaesthesia-Effects on Respiratory function.</b>                                                                  |               |               |                  |               |
| <b>fifth</b>                  | <b>Endotracheal intubation- difficult intubation</b>                                                                 |               |               |                  |               |
| Sixth                         | <b>Positioning in anaesthesia , legal point about surgery, regent surgery, emergency surgery.</b>                    |               |               |                  |               |
| Seventh                       | <b>Hypoxia during surgery and post operative legal point about pre-medical visit &amp; physicians consultations.</b> |               |               |                  |               |
| Eighth                        | <b>Co2 changes “ Hypercapnoea” “ Hypocapnoea” Applications</b>                                                       |               |               |                  |               |
| Ninth                         | <b>Desirable ventilator characteristics</b>                                                                          |               |               |                  |               |
| <b>tenth</b>                  | <b>Obesity &amp; Anaesthesia</b>                                                                                     |               |               |                  |               |
| Eleventh                      | <b>Alcohol &amp; Anaesthesia</b>                                                                                     |               |               |                  |               |
| Twelfth                       | <b>Renal Disease &amp; Anaesthesia</b>                                                                               |               |               |                  |               |
| Thirteenth                    | <b>Liver Disease &amp; Anaesthesia</b>                                                                               |               |               |                  |               |
| Fourteenth                    | <b>Anaemia &amp; Anaesthesia Sickle Cell Anaemia.</b>                                                                |               |               |                  |               |

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| Fifteenth              | <b>Gastric Acid Aspiraiton syndrome, pre-eclampsia</b>                                                                        |
| Sixteenth              | <b>Coronoray artery diseases in non- cardiac surgery.</b>                                                                     |
| Seventeenth            | <b>Hypertension, Atherosclerosis, Heart failure, old.</b>                                                                     |
| Eighteenth             | <b>Valvular lesions &amp; Anaesthesia, General note about open heart surgery.</b>                                             |
| Nineteenth             | <b>One lung anaesthesia, Bronchoscopy.</b>                                                                                    |
| 20th                   | <b>Diabetes Mellitis &amp; Anaesthesia.</b>                                                                                   |
| Twenty-first           | <b>Sympheton Surgery &amp; Anaesthesia, Pheochromoeytoma</b>                                                                  |
| Twenty-second          | <b>T.U.R., Pyloric stenosis, Burns.</b>                                                                                       |
| Twenty-third           | <b>Upper air way obstruction causes &amp; anaesthesia.</b>                                                                    |
| Twenty-fourth          | <b>Massive blood transfusion.</b>                                                                                             |
| Twenty-fifth           | <b>Control of I.c.p, Head injury, Air embolism and emergency.</b>                                                             |
| Twenty-sixth           | <b>Criteria for brain death, General notes about neuroanaesthesia.</b>                                                        |
| Twenty-seventh         | <b>Day clinic , Dental Anaesthesia.</b>                                                                                       |
| Twenty-eighth          | <b>Techniques of local analgesia Indication, contra indication, upper limb problems, lower limb problems, toxic reaction.</b> |
| Twenty-ninth           | <b>Shock syndrome &amp; Anaesthesia in general .</b>                                                                          |
| <b>30<sup>th</sup></b> | <b>Hypersensitivity reactions &amp; Anaesthesia “in general</b>                                                               |





| <u>Fourth</u>               | Academic<br>year                                                                                                     | Anesthesia(3) | Material<br>Name | sedation | Department<br>or Branch |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------|---------------|------------------|----------|-------------------------|
| <b>Practical vocabulary</b> |                                                                                                                      |               |                  |          |                         |
| <u>Week</u>                 | <u>Vocabulary details</u>                                                                                            |               |                  |          |                         |
| <b>First</b>                | <b>Maternal Anatomical &amp; Physiological changes</b>                                                               |               |                  |          |                         |
| <b>Second</b>               | <b>Paediatric Anatomical &amp; Physiological difference.</b>                                                         |               |                  |          |                         |
| <b>Third</b>                | <b>Geriatric Anatomical &amp; Physiological changes</b>                                                              |               |                  |          |                         |
| <b>Fourth</b>               | <b>Anaesthesia-Effects on Respiratory function.</b>                                                                  |               |                  |          |                         |
| <b>V</b>                    | <b>Endotracheal intubation- difficult intubation</b>                                                                 |               |                  |          |                         |
| <b>Sixth</b>                | <b>Positioning in anaesthesia , legal point about surgery, regent surgery, emergency surgery.</b>                    |               |                  |          |                         |
| <b>Seventh</b>              | <b>Hypoxia during surgery and post operative legal point about pre-medical visit &amp; physicians consultations.</b> |               |                  |          |                         |
| <b>Eighth</b>               | <b>Co2 changes “ Hypercapnoea” “ Hypocapnoea” Applications</b>                                                       |               |                  |          |                         |
| <b>Ninth</b>                | <b>Desirable ventilator characteristics</b>                                                                          |               |                  |          |                         |
| <b>X</b>                    | <b>Obesity &amp; Anaesthesia</b>                                                                                     |               |                  |          |                         |
| <b>Eleventh</b>             | <b>Alcohol &amp; Anaesthesia</b>                                                                                     |               |                  |          |                         |
| <b>Twelfth</b>              | <b>Renal Disease &amp; Anaesthesia</b>                                                                               |               |                  |          |                         |
| <b>Thirteenth</b>           | <b>Liver Disease &amp; Anaesthesia</b>                                                                               |               |                  |          |                         |
| <b>Fourteenth</b>           | <b>Anaemia &amp; Anaesthesia Sickle Cell Anaemia.</b>                                                                |               |                  |          |                         |
| <b>Fifteenth</b>            | <b>Gastric Acid Aspiration syndrome, pre-eclampsia</b>                                                               |               |                  |          |                         |
| <b>Sixteenth</b>            | <b>Coronary artery diseases in non- cardiac surgery.</b>                                                             |               |                  |          |                         |
| <b>Seventeenth</b>          | <b>Hypertension, Atherosclerosis, Heart failure, old.</b>                                                            |               |                  |          |                         |
| <b>Eighteenth</b>           | <b>Valvular lesions &amp; Anaesthesia, General note about open heart surgery.</b>                                    |               |                  |          |                         |
| <b>Nineteenth</b>           | <b>One lung anaesthesia, Bronchoscopy.</b>                                                                           |               |                  |          |                         |
| <b>20th</b>                 | <b>Diabetes Mellitus &amp; Anaesthesia.</b>                                                                          |               |                  |          |                         |
| <b>Twenty-first</b>         | <b>Sympathomimetic Surgery &amp; Anaesthesia, Pheochromocytoma</b>                                                   |               |                  |          |                         |
| <b>Twenty-second</b>        | <b>T.U.R., Pyloric stenosis, Burns.</b>                                                                              |               |                  |          |                         |
| <b>Twenty-third</b>         | <b>Upper air way obstruction causes &amp; anaesthesia.</b>                                                           |               |                  |          |                         |
| <b>Twenty-fourth</b>        | <b>Massive blood transfusion.</b>                                                                                    |               |                  |          |                         |
| <b>Twenty-fifth</b>         | <b>Control of I.c.p, Head injury, Air embolism and emergency.</b>                                                    |               |                  |          |                         |

|                       |                                                                                                                               |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------|
| <b>Twenty–sixth</b>   | <b>Criteria for brain death, General notes about neuroanaesthesia.</b>                                                        |
| <b>Twenty–seventh</b> | <b>Day clinic , Dental Anaesthesia.</b>                                                                                       |
| <b>Twenty–eighth</b>  | <b>Techniques of local analgesia Indication, contra indication, upper limb problems, lower limb problems, toxic reaction.</b> |
| <b>Twenty–ninth</b>   | <b>Shock syndrome &amp; Anaesthesia in general .</b>                                                                          |
| <b>Xxx</b>            | <b>Hypersensitivity reactions &amp; Anaesthesia “in general</b>                                                               |

| 10. Infrastructure                                                                            |  |                             |
|-----------------------------------------------------------------------------------------------|--|-----------------------------|
| Required reading:<br>·CORE TEXTS<br>·COURSE MATERIALS<br>·OTHER                               |  | Required textbooks 1        |
| Special requirements (include for example workshops, periodicals, IT software, websites)      |  |                             |
| Community-based facilities (include for example, guest Lectures , internship , field studies) |  |                             |
| 1.Essentials of Equipment in Anaesthesia,<br>Critical Care<br>2.WARD’S ANAESTHETIC EQUIPMENT  |  | Main references (sources) 2 |
| The Arab Medical Library<br>E-Library                                                         |  |                             |

| 11. Course Development Plan                                                                                                                                                                                        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>The curriculum development plan is based on the following:</p> <ul style="list-style-type: none"> <li>• Give the prescribed scientific material and observe and analyze the results of the students.</li> </ul> |

- Study feedback from students' notes about vocabulary.
- Study the practical laboratory notes of the course.
- Comparing current vocabulary with those of corresponding colleges in the field