

# Republic of Yemen

Ministry of Higher Education & Scientific Research

21 SEPTEMBER UNIVERSITY of MEDICALS & APPLIEED

SCIENCES



## Program **Anesthesia Technician**

**Course Specification of Health Assessment for Anesthesia**

**Course No. (08 02 822)**

2024

### Template for Course Specification

| I. Course Identification and General Information: |                                                        |                                          |              |       |            |
|---------------------------------------------------|--------------------------------------------------------|------------------------------------------|--------------|-------|------------|
| 1                                                 | Course Title:                                          | Health Assessment for Anesthesia         |              |       |            |
| 2                                                 | Course Code & Number:                                  | 08 02 822                                |              |       |            |
| 3                                                 | Credit Hours:                                          | Credit Hours                             | Theory Hours |       | Lab. Hours |
|                                                   |                                                        |                                          | Lecture      | Field |            |
|                                                   |                                                        | 2                                        | 2            | --    | --         |
| 4                                                 | Study Level/ Semester at which this Course is offered: | Level2\1term                             |              |       |            |
| 5                                                 | Pre –Requisite (if any):                               | None                                     |              |       |            |
| 6                                                 | Co –Requisite (if any):                                | None                                     |              |       |            |
| 7                                                 | Program (s) in which the Course is Offered:            | Bachelor of <b>Anesthesia Technician</b> |              |       |            |
| 8                                                 | Language of Teaching the Course:                       | English                                  |              |       |            |
| 9                                                 | Study System:                                          | Semester Based System                    |              |       |            |
| 10                                                | Mode of Delivery:                                      | Full Time                                |              |       |            |
| 11                                                | Location of Teaching the Course:                       | Faculty of Medical Applied Science       |              |       |            |
| 12                                                | Prepared by:                                           | Associate Prof. Gamel Mogale             |              |       |            |
|                                                   | Date of Approval:                                      | 2024-1446 <sup>Ah</sup>                  |              |       |            |

### II. Course Description:

|                  |                 |                         |                               |                       |
|------------------|-----------------|-------------------------|-------------------------------|-----------------------|
| Prepared by:     | Reviewed by:    | Head of the<br>artment: | Quality Unit:                 | Dean                  |
| Dr. Gamel Magaly | Dr. Fares Mahdi | Dr.Fares Mahdi          | <b>Dr.Fadl Shujaa Al-deen</b> | Dr. Abdulsalam Dallak |

this course on health assessment of anesthesia emphasizes the development of advanced nursing skills necessary for conducting thorough health assessments, including evaluating various human systems. It covers the use of diagnostic history and physical examination, allowing practitioners to form differential diagnoses. Additionally, it introduces essential technologies and procedures for managing patients during the pre-operative phase to ensure safety and efficacy.

### III. Course Intended Learning Outcomes (CILOs) : (مخرجات تعلم المقرر)

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

|    |                                                                                                                                                          |    |                                                                                                                                                                                                                                           |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| a1 | <ul style="list-style-type: none"> <li>Explain how comprehensive direct assessment helps patients at risk for complications and complications</li> </ul> | A1 | Demonstrate the concepts and principles of anesthesia and different basic and humanities courses and its applications in anesthesia practice                                                                                              |
| a2 | <ul style="list-style-type: none"> <li>classification of patients according to their health status and potential surgical risks.</li> </ul>              | A2 | Describe normal and abnormal human behaviors, structure and function of human body and identify the basics of intensive care, medical emergencies that the anesthetist and high dependency care units and how to manage patients at risk. |
| a3 | <ul style="list-style-type: none"> <li>Determined how helps in planning post-operative care and determining the need for intensive monitoring</li> </ul> | A3 | Recognize the full details about the basic physics and its applications in anesthesia, the equipment's and apparatus in anesthesia and critical care unit.                                                                                |

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

|    |                                                                                                                                                                                                                                                                     |    |                                                              |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|--------------------------------------------------------------|
| b1 | <ul style="list-style-type: none"> <li>Explanation how to comprehensive assessment provides the necessary information for discussing the risks, benefits, and alternatives of anesthesia with the patient, which is vital for obtaining informed consent</li> </ul> | B2 | integrate assessment data to formulate anesthesia diagnosis. |
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|                                                                                                                  |                                                                                                                                                                                                                                                                                                          |    |                                                                                                                                                                                                                                                                                                                                                        |
|------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| b2                                                                                                               | <ul style="list-style-type: none"> <li>Identifying and addressing any existing health issues before the procedure can reduce the likelihood of complications, such as managing blood pressure or controlling diabetes in preparation for surgery</li> </ul>                                              | B3 | <b>Synthesize knowledge derived from, medical, anesthesia, basic sciences and humanities courses into the practice of anesthesia</b>                                                                                                                                                                                                                   |
| B3                                                                                                               | <ul style="list-style-type: none"> <li>provide critical information to the anesthesiology team to facilitate rapid and appropriate care.</li> </ul>                                                                                                                                                      |    | <b>Interpret the basic normal anatomical structures on radiographs, C.T. scans and magnetic resonance images and readings of the standard monitors attached to the patient as well as additional monitors as central venous pressure monitoring</b>                                                                                                    |
| <b>C. Professional and Practical Skills:</b> Upon successful completion of the course, students will be able to: |                                                                                                                                                                                                                                                                                                          |    |                                                                                                                                                                                                                                                                                                                                                        |
| c1                                                                                                               | <ul style="list-style-type: none"> <li>It collects information data to obtain a comprehensive assessment to know the risks.</li> </ul>                                                                                                                                                                   | C1 | Administer a range of assessment techniques, procedures and management appropriate to patient condition and maintain fluid therapy and blood transfusion.                                                                                                                                                                                              |
| c2                                                                                                               | <ul style="list-style-type: none"> <li>Make the necessary decisions and what are the alternatives in performing anesthesia with the patient, which is vital to obtain informed consent.</li> </ul>                                                                                                       | C2 | Perform an approach to the assessment of risk and need for consultation for an anesthetics, identify appropriate laboratory investigations, pre-medications and fasting guidelines and Set up anesthesia machine and its connections and demonstrate appropriate application and interpretation of commonly used monitors in anesthesia preoperatively |
| C3                                                                                                               | <ul style="list-style-type: none"> <li><b>Patient Education and Engagement:</b> Engaging patients in their health assessment encourages them to be proactive about their health, fostering a partnership that can lead to better adherence to pre-operative instructions and overall outcomes</li> </ul> | C3 | Apply the skills necessary for maintaining a patent airway, manual ventilation, intubation and mechanical ventilation. and Perform the proper technique of anesthesia (general, regional or local anesthesia)                                                                                                                                          |
| <b>D. Transferable Skills:</b> Upon successful completion of the course, students will be able to:               |                                                                                                                                                                                                                                                                                                          |    |                                                                                                                                                                                                                                                                                                                                                        |

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|    |                                                                                                                                 |    |                                                                                                                                                           |
|----|---------------------------------------------------------------------------------------------------------------------------------|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| d1 | Communicate with the patient and his family effectively in professional manner using the principles of communication techniques | D1 | Communicate effectively with individuals and groups and members of the health team in order to promote effective interpersonal relationships and teamwork |
| d2 | Discuss the legal and ethical issues that arise in the emergency care setting.                                                  | D2 | Demonstrate professional, ethical, moral, legal, and spiritual concepts into one's practice within a global environment                                   |

| (A) Alignment of Course Intended Learning Outcomes (Knowledge and Understanding) to Teaching Strategies and Assessment Methods: |                                                                                                                                                          |                                                                                                                                                                                                         |                                                                                                                                                  |
|---------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| Course Intended Learning Outcomes                                                                                               |                                                                                                                                                          | Teaching Strategies                                                                                                                                                                                     | Assessment Strategies                                                                                                                            |
| a1                                                                                                                              | <ul style="list-style-type: none"> <li>Explain how comprehensive direct assessment helps patients at risk for complications and complications</li> </ul> | <ul style="list-style-type: none"> <li>Interactive lecture</li> <li>Seminars and student presentations</li> <li>Brain storming, role-play and simulation</li> <li>Small group for discussing</li> </ul> | <ul style="list-style-type: none"> <li>Assignments</li> <li>Quizzes</li> <li>Mid-term Exam</li> <li>Final exam</li> <li>Presentations</li> </ul> |
| a2                                                                                                                              | <ul style="list-style-type: none"> <li>classification of patients according to their health status and potential surgical risks.</li> </ul>              | <ul style="list-style-type: none"> <li>Interactive lecture</li> <li>Seminars and student presentations</li> <li>Brain storming, role-play and simulation</li> <li>Small group for discussing</li> </ul> | <ul style="list-style-type: none"> <li>Assignments</li> <li>Quizzes</li> <li>Mid-term Exam</li> <li>Final exam</li> <li>Presentations</li> </ul> |
| a3                                                                                                                              | <ul style="list-style-type: none"> <li>Determined how helps in planning post-operative care and determining the need for intensive monitoring</li> </ul> | <ul style="list-style-type: none"> <li>Interactive lecture</li> <li>Seminars and student presentations</li> <li>Brain storming, role-play and simulation</li> <li>Small group for discussing</li> </ul> | <ul style="list-style-type: none"> <li>Assignments</li> <li>Quizzes</li> <li>Mid-term Exam</li> <li>Final exam</li> <li>Presentations</li> </ul> |

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**(B) Alignment of Course Intended Learning Outcomes (Intellectual Skills) to Teaching Strategies and Assessment Methods:**

| Course Intended Learning Outcomes |                                                                                                                                                                                                                                                                     | Teaching Strategies                                                                                                                                                                                                | Assessment Strategies                                                                                                        |
|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| b1                                | <ul style="list-style-type: none"><li>• Explanation how to comprehensive assessment provides the necessary information for discussing the risks, benefits, and alternatives of anesthesia with the patient, which is vital for obtaining informed consent</li></ul> | <ul style="list-style-type: none"><li>▪ Interactive lecture</li><li>▪ Brain storming</li><li>▪ Role-play &amp; simulation</li><li>▪ Small group discussions</li><li>▪ Seminars and student presentations</li></ul> | <ul style="list-style-type: none"><li>▪ Assignments</li><li>▪ Quizzes</li><li>▪ Mid-term Exam</li><li>▪ Final exam</li></ul> |
| b2                                | <ul style="list-style-type: none"><li>• : Identifying and addressing any existing health issues before the procedure can reduce the likelihood of complications, such as managing blood pressure or controlling diabetes in preparation for surgery</li></ul>       | <ul style="list-style-type: none"><li>▪ Interactive lecture</li><li>▪ Brain storming</li><li>▪ Role-play &amp; simulation</li><li>▪ Small group discussions</li><li>▪ Seminars and student presentations</li></ul> | <ul style="list-style-type: none"><li>▪ Assignments</li><li>▪ Quizzes</li><li>▪ Mid-term Exam</li><li>▪ Final exam</li></ul> |

**(C) Alignment of Course Intended Learning Outcomes (Professional and Practical Skills) to Teaching Strategies and Assessment Methods:**

| Course Intended Learning Outcomes |                                                                                                                                                                                                    | Teaching Strategies                                                                                                                        | Assessment Strategies                                                                                                        |
|-----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| c1                                | <ul style="list-style-type: none"><li>• It collects information data to obtain a comprehensive assessment to know the risks.</li></ul>                                                             | <ul style="list-style-type: none"><li>▪ Active learning,</li><li>▪ Small group learning.</li><li>▪ Learning tasks and activities</li></ul> | <ul style="list-style-type: none"><li>▪ Assignments</li><li>▪ Quizzes</li><li>▪ Mid-term Exam</li><li>▪ Final exam</li></ul> |
| c2                                | <ul style="list-style-type: none"><li>• Make the necessary decisions and what are the alternatives in performing anesthesia with the patient, which is vital to obtain informed consent.</li></ul> | <ul style="list-style-type: none"><li>▪ Active learning,</li><li>▪ Small group learning.</li><li>▪ Learning tasks and activities</li></ul> | <ul style="list-style-type: none"><li>▪ Assignments</li><li>▪ Quizzes</li><li>▪ Mid-term Exam</li><li>▪ Final exam</li></ul> |

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|                                                                                                                                |                                                                                                                                                                                                                                                                                                          |                                                                                                                                          |                                                                                                                           |
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| C3                                                                                                                             | <ul style="list-style-type: none"> <li><b>Patient Education and Engagement:</b> Engaging patients in their health assessment encourages them to be proactive about their health, fostering a partnership that can lead to better adherence to pre-operative instructions and overall outcomes</li> </ul> | <ul style="list-style-type: none"> <li>Active learning,</li> <li>Small group learning.</li> <li>Learning tasks and activities</li> </ul> | <ul style="list-style-type: none"> <li>Assignments</li> <li>Quizzes</li> <li>Mid-term Exam</li> <li>Final exam</li> </ul> |
| <b>(D) Alignment of Course Intended Learning Outcomes (Transferable Skills) to Teaching Strategies and Assessment Methods:</b> |                                                                                                                                                                                                                                                                                                          |                                                                                                                                          |                                                                                                                           |
|                                                                                                                                | <b>Course Intended Learning Outcomes</b>                                                                                                                                                                                                                                                                 | <b>Teaching Strategies</b>                                                                                                               | <b>Assessment Strategies</b>                                                                                              |
| d1                                                                                                                             | Communicate with the patient and his family effectively in professional manner using the principles of communication techniques                                                                                                                                                                          | <ul style="list-style-type: none"> <li>Classroom discussions,</li> <li>Problems solving</li> <li>Case study analysis</li> </ul>          | <ul style="list-style-type: none"> <li>Presentations</li> <li>Case Studies</li> <li>Learning activities</li> </ul>        |
| d2                                                                                                                             | Discuss the legal and ethical issues that arise in the emergency care setting.                                                                                                                                                                                                                           | <ul style="list-style-type: none"> <li>Classroom discussions,</li> <li>Problems solving</li> <li>Case study analysis</li> </ul>          | <ul style="list-style-type: none"> <li>Presentations</li> <li>Case Studies</li> <li>Learning activities</li> </ul>        |

#### IV. Course Contents:

##### A. Theoretical Aspect:

| No. | Units/Topics List | Sub Topics List                                                     | Number of Weeks | Contact Hours | Learning Outcomes (CLOs) |
|-----|-------------------|---------------------------------------------------------------------|-----------------|---------------|--------------------------|
| 1   | <b>Module 1</b>   | Health assessment in anesthesia is a critical process that involves | 2               | 4             | a1, d2                   |

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|   |                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |   |   |        |
|---|--------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|--------|
|   | <b>Introduction to Health Assessment in Anesthesia</b>             | systematically gathering, evaluating, and analyzing patient data to ensure safe and effective anesthesia care. This assessment serves as the foundation for making informed decisions regarding anesthetic techniques, medication choice, and monitoring strategies throughout the perioperative period. The emphasis on a thorough health assessment arises from the complexities and risks associated with anesthesia, where individual patient characteristics can significantly influence outcomes.       |   |   |        |
| 2 | <b>Module 2 Key Objectives of Health Assessment in Anesthesia:</b> | <ol style="list-style-type: none"> <li><b>Patient Safety:</b> The foremost objective is to identify any medical conditions or risk factors that could complicate the administration of anesthesia. Understanding a patient's health history helps to anticipate potential complications and plan accordingly.</li> <li><b>Tailored Anesthetic Plans:</b> Each patient presents unique clinical scenarios. A comprehensive health assessment enables anesthesiologists to customize anesthesia care</li> </ol> | 4 | 8 | a1, b1 |

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|   |                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |   |   |                |
|---|------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|----------------|
|   |                                                                  | <p>based on individual needs, preferences, and medical history, leading to enhanced efficacy and safety.</p> <p>3. <b>Risk Stratification:</b> Health assessments allow anesthesia providers to categorize patients based on their overall health status and surgical requirements. This classification guides decisions regarding the level of monitoring and post-operative care required.</p> <p>4. <b>Informed Consent:</b> Conducting a thorough assessment ensures that patients are adequately informed about the risks associated with anesthesia, enabling them to make educated decisions about their care.</p> |   |   |                |
| 3 | <b>Module: 3<br/>Components<br/>of the Health<br/>Assessment</b> | <p>The health assessment typically includes several key components:</p> <ul style="list-style-type: none"> <li>• <b>Medical History:</b> A detailed inquiry into the patient's past medical and surgical history, medication use, and allergies, specifically focusing on factors that influence anesthetic management.</li> <li>• <b>Physical Examination:</b> A</li> </ul>                                                                                                                                                                                                                                              | 4 | 8 | a1, b1, c1, d1 |

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|   |                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |   |   |                |
|---|----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|----------------|
|   |                                                          | <p>systematic evaluation of the patient's physical status, focusing on cardiovascular, respiratory, and neurological systems, as well as airway assessment.</p> <ul style="list-style-type: none"> <li>• <b>Laboratory and Diagnostic Testing:</b> Ordering and interpreting relevant tests to evaluate the patient's organ function and identify any abnormalities that may affect anesthesia.</li> <li>• <b>Functional Assessment:</b> Understanding the patient's capacity for everyday activities, which can help predict their responses to anesthesia and recovery.</li> <li>• <b>Psychosocial Evaluation:</b> Assessing mental health status and support systems that may impact recovery and coping during the perioperative phase</li> </ul> |   |   |                |
|   |                                                          | • Mad exam                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1 | 2 |                |
| 6 | <b>Module 4<br/>Importance of the Assessment Process</b> | <p>A comprehensive health assessment is vital in anesthesia for several reasons:</p> <ul style="list-style-type: none"> <li>• <b>Maximizes Patient Outcomes:</b> By ensuring that all aspects of a patient's health are assessed and understood, healthcare providers can optimize</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 4 | 8 | a2, b2, c2, d2 |

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|------------------------------------------------|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-----------|-------------------|
|                                                |                        | <p>perioperative management and reduce complications.</p> <ul style="list-style-type: none"> <li>• <b>Enhances Communication:</b> The assessment process fosters a dialogue between the patient and the anesthesia team, promoting trust and shared decision-making.</li> <li>• <b>Facilitates Emergency Preparedness:</b> In the event of an unforeseen complication during anesthesia, having a thorough understanding of the patient's health history equips the team to respond swiftly and effectively.</li> </ul> <p>In conclusion, the health assessment in anesthesia is not just a regulatory requirement; it is an integral part of patient care that directly enhances safety, efficacy, and recovery outcomes during surgical procedures. By prioritizing a comprehensive evaluation, anesthesia providers can implement informed, personalized plans that cater to the unique needs of each patient.!</p> |           |           |                   |
|                                                | <b>Final term exam</b> | <b>Final term exam</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1         | 2         | a2, b2, c2, c3.d2 |
| <b>Number of Weeks /and Units Per Semester</b> |                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>16</b> | <b>32</b> |                   |

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### B. Case Studies and Practical Aspect:

| No.                                     | Tasks/ Experiments | Number of Weeks | Contact Hours | Learning Outcomes (CILOs) |
|-----------------------------------------|--------------------|-----------------|---------------|---------------------------|
| 1                                       | None               |                 |               |                           |
| Number of Weeks /and Units Per Semester |                    |                 |               |                           |

### C. Tutorial Aspect:

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

### V. Teaching Strategies of the Course:

- Interactive lecture
- Seminars and student presentations
- Brain storming
- Role-play and simulation
- Small group discussion
- Learning tasks and activities
- Problems solving
- Case study analysis

### VI. Assessment Methods of the Course:

- Assignments
- Quizzes

|                  |                 |                         |                               |                       |
|------------------|-----------------|-------------------------|-------------------------------|-----------------------|
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- Mid-term exam
- Final term exam

## VII. Assignments:

| No.   | Assignments                        | Week Due | Mark | Aligned CILOs (symbols) |
|-------|------------------------------------|----------|------|-------------------------|
| 1     | Assignment 1: common abbreviations | W5       | 5    | a1, b1                  |
| 2     | Assignment 2: drug classification  | W11      | 5    | a2, b2,                 |
| Total |                                    |          | 10   |                         |

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

| No.   | Assessment Method         | Week Due | Mark | Proportion of Final Assessment | Aligned Course Learning Outcomes |
|-------|---------------------------|----------|------|--------------------------------|----------------------------------|
| 1     | Assignments               | W5,11    | 10   | 10%                            | a1, b1, a2, b2                   |
| 2     | Quizzes 1 & 2             | W3, 9    | 10   | 10%                            | a1, a2                           |
| 3     | Mid-Term Theoretical Exam | W7       | 20   | 20%                            | a1, b1, c1, d1                   |
| 4     | Final Theoretical Exam    | W16      | 60   | 60%                            | a2, b2, c2, d2                   |
| Total |                           |          | 100  | 100%                           |                                  |

## IX. Learning Resources:

- *Written in the following order:* Author, Year of publication, **Title**, Edition, Place of publication, Publisher.

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

|                  |                 |                         |                               |                       |
|------------------|-----------------|-------------------------|-------------------------------|-----------------------|
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| consideration of all inputs, the COA approved the final draft at its January 2014 meeting. The trial standards were implemented after adoption in January 2014 and became required standards in January 2015.                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <ul style="list-style-type: none"> <li>○ by A Zambouri · 2007 · Cited by 238 — The ultimate goals of preoperative <b>medical assessment</b> are to reduce the patient's surgical and <b>anesthetic</b> perioperative morbidity or mortality</li> <li>○</li> <li>○ 2- by FJ García-Miguel · 2024 — The present article aims to provide an evidenced-based review of preoperative <b>assessment</b> and preparation and to propose a protocol that can be adapted to James Tayloe Gwathmey, 1862-1944. اقتباسات من كتب Gwathmey, James Tayloe, 1862-1944 لمؤلف كتاب التخدير والمؤلف لـ 1 كتب أخرى. مراجعات James Tayloe Gwathmey كتب ...<br/>Rating: 2.5 · 2 votes</li> </ul> |
| <b>3- Electronic Materials and Web Sites etc.:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Websites:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 1.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

| <b>X. Course Policies: (Based on the Uniform Students' By law (2007) تترك كما هي)</b> |                                                                                                                                                                                                                                         |
|---------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>1</b>                                                                              | <b>Class Attendance:</b><br>Class Attendance is mandatory. A student is considered absent and shall be banned from taking the final exam if his/her absence exceeds 25% of total classes.                                               |
| <b>2</b>                                                                              | <b>Tardiness:</b><br>A student will be considered late if he/she is not in class after 10 minutes of the start time of class.                                                                                                           |
| <b>3</b>                                                                              | <b>Exam Attendance/Punctuality:</b><br>No student shall be allowed to the exam hall after 30 minutes of the start time, and shall not leave the hall before half of the exam time has passed.                                           |
| <b>4</b>                                                                              | <b>Assignments &amp; Projects:</b><br>Assignments and projects must be submitted on time. Students who delay their assignments or projects shall lose the mark allocated for the same.                                                  |
| <b>5</b>                                                                              | <b>Cheating:</b><br>Cheating is an act of fraud that results in the cancelation of the student's exam or assignment. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' Bylaw (2007) shall apply. |
| <b>6</b>                                                                              | <b>Forgery and Impersonation:</b>                                                                                                                                                                                                       |

|                  |                 |                         |                               |                       |
|------------------|-----------------|-------------------------|-------------------------------|-----------------------|
| Prepared by:     | Reviewed by:    | Head of the<br>artment: | Quality Unit:                 | Dean                  |
| Dr. Gamel Magaly | Dr. Fares Mahdi | Dr.Fares Mahdi          | <b>Dr.Fadl Shujaa Al-deen</b> | Dr. Abdulsalam Dallak |

|   |                                                                                                                                                                                                                                            |
|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|   | Forgery/Impersonation is an act of fraud that results in the cancelation of the student's exam, assignment or project. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' Bylaw (2007) shall apply.  |
| 7 | <b>Other policies:</b><br>The University official regulations in force will be strictly observed and students shall comply with all rules and regulations of the examination set by the Department, Faculty and University Administration. |

## Republic of Yemen

Ministry of Higher Education & Scientific Research

21 SEPTEMBER UNIVERSITY of MEDICALS & APPLIED

SCIENCES



# Program Anesthesia Technician

## Course Specification of Health Assessment for Anesthesia

15

|                  |                 |                            |                         |                       |
|------------------|-----------------|----------------------------|-------------------------|-----------------------|
| Prepared by:     | Reviewed by:    | Head of the<br>Department: | Quality Unit:           | Dean                  |
| Dr. Gamel Magaly | Dr. Fares Mahdi | Dr. Fares Mahdi            | Dr. Fadl Shujaa Al-deen | Dr. Abdulsalam Dallak |

## Course No. (08 02 822)

2024

### Template for Course Syllabus

| i. معلومات عن أستاذ المقرر<br>Information about Faculty Member Responsible for the Course |                                                        |                                             |                |                  |                                  |                                                |
|-------------------------------------------------------------------------------------------|--------------------------------------------------------|---------------------------------------------|----------------|------------------|----------------------------------|------------------------------------------------|
| (3 أسابيع)                                                                                |                                                        | الساعات المكتبية (أسبوعياً)<br>Office Hours |                | Dr. Gamel Magaly |                                  | الاسم<br>Name                                  |
| الخميس<br>THU                                                                             | الأربعاء<br>WED                                        | الثلاثاء<br>TUE                             | الاثنين<br>MON | الأحد<br>SUN     | السبت<br>SAT                     | المكان ورقم الهاتف<br>Location & Telephone No. |
|                                                                                           |                                                        |                                             |                |                  |                                  | البريد الإلكتروني<br>E-mail                    |
| I. Course Identification and General Information:                                         |                                                        |                                             |                |                  |                                  |                                                |
| 1                                                                                         | Course Title:                                          |                                             |                |                  | Health Assessment for Anesthesia |                                                |
| 2                                                                                         | Course Code & Number:                                  |                                             |                |                  | 08 02 822                        |                                                |
| 3                                                                                         | Credit Hours:                                          |                                             |                |                  | Credit Hours                     | Theory Hours<br>Lecture      Field             |
|                                                                                           |                                                        |                                             |                |                  | 2                                | 2      --      --                              |
| 4                                                                                         | Study Level/ Semester at which this Course is offered: |                                             |                |                  | Level2\term1                     |                                                |
| 5                                                                                         | Pre –Requisite (if any):                               |                                             |                |                  | None                             |                                                |

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|    |                                             |                                          |
|----|---------------------------------------------|------------------------------------------|
| 6  | Co –Requisite (if any):                     | None                                     |
| 7  | Program (s) in which the Course is Offered: | Bachelor of <b>Anesthesia Technician</b> |
| 8  | Language of Teaching the Course:            | English                                  |
| 9  | Study System:                               | Semester Based System                    |
| 10 | Mode of Delivery:                           | Full Time                                |
| 11 | location of teaching the course:            | faculty of medical applied science       |
| 12 | prepared by:                                | dr. Gamel Magaly                         |
| 13 | date of approval:                           | 2024-1446 <sup>ah</sup>                  |

## ii. course description:

this course on health assessment of anesthesia emphasizes the development of advanced nursing skills necessary for conducting thorough health assessments, including evaluating various human systems. It covers the use of diagnostic history and physical examination, allowing practitioners to form differential diagnoses. Additionally, it introduces essential technologies and procedures for managing patients during the pre-operative phase to ensure safety and efficacy

## course intended learning outcomes (cilos)

|    |                                                                                                                                                          |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| a1 | <ul style="list-style-type: none"> <li>Explain how comprehensive direct assessment helps patients at risk for complications and complications</li> </ul> |
| a2 | <ul style="list-style-type: none"> <li>classification of patients according to their health status and potential surgical risks.</li> </ul>              |
| a3 | <ul style="list-style-type: none"> <li>Determined how helps in planning post-operative care and determining the need for intensive monitoring</li> </ul> |

|                  |                 |                         |                               |                       |
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|    |                                                                                                                                                                                                                                                                                                          |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| b1 | <ul style="list-style-type: none"> <li>Explanation how to comprehensive assessment provides the necessary information for discussing the risks, benefits, and alternatives of anesthesia with the patient, which is vital for obtaining informed consent</li> </ul>                                      |
| b2 | <ul style="list-style-type: none"> <li>: Identifying and addressing any existing health issues before the procedure can reduce the likelihood of complications, such as managing blood pressure or controlling diabetes in preparation for surgery</li> </ul>                                            |
| c1 | <ul style="list-style-type: none"> <li>It collects information data to obtain a comprehensive assessment to know the risks.</li> </ul>                                                                                                                                                                   |
| c2 | <ul style="list-style-type: none"> <li>Make the necessary decisions and what are the alternatives in performing anesthesia with the patient, which is vital to obtain informed consent.</li> </ul>                                                                                                       |
| C3 | <ul style="list-style-type: none"> <li><b>Patient Education and Engagement:</b> Engaging patients in their health assessment encourages them to be proactive about their health, fostering a partnership that can lead to better adherence to pre-operative instructions and overall outcomes</li> </ul> |
| d1 | Communicate with the patient and his family effectively in professional manner using the principles of communication techniques                                                                                                                                                                          |
| d2 | Discuss the legal and ethical issues that arise in the emergency care setting.                                                                                                                                                                                                                           |

#### IV. Course Contents:

##### A. Theoretical Aspect:

| No. | Units/Topics List                                                   | Sub Topics List                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Number of Weeks | Contact Hours | Learning Outcomes (CILOs) |
|-----|---------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|---------------|---------------------------|
| 1   | <b>Module 1<br/>Introduction to Health Assessment in Anesthesia</b> | Health assessment in anesthesia is a critical process that involves systematically gathering, evaluating, and analyzing patient data to ensure safe and effective anesthesia care. This assessment serves as the foundation for making informed decisions regarding anesthetic techniques, medication choice, and monitoring strategies throughout the perioperative period. The emphasis on a thorough health assessment arises from the complexities and risks associated | 2               | 4             | a1, d2                    |

|                  |                 |                         |                               |                       |
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|   |                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |   |   |        |
|---|------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|--------|
|   |                                                                        | with anesthesia, where individual patient characteristics can significantly influence outcomes.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |   |   |        |
| 2 | <b>Module 2<br/>Key Objectives of Health Assessment in Anesthesia:</b> | <p>5. <b>Patient Safety:</b> The foremost objective is to identify any medical conditions or risk factors that could complicate the administration of anesthesia. Understanding a patient's health history helps to anticipate potential complications and plan accordingly.</p> <p>6. <b>Tailored Anesthetic Plans:</b> Each patient presents unique clinical scenarios. A comprehensive health assessment enables anesthesiologists to customize anesthesia care based on individual needs, preferences, and medical history, leading to enhanced efficacy and safety.</p> <p>7. <b>Risk Stratification:</b> Health assessments allow anesthesia providers to categorize patients based on their overall health status and surgical requirements. This classification guides decisions regarding the level</p> | 4 | 8 | al, bl |

|                  |                 |                            |                                |                       |
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|   |                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |   |   |                |
|---|------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|----------------|
|   |                                                                        | <p>of monitoring and post-operative care required.</p> <p>8. <b>Informed Consent:</b><br/>Conducting a thorough assessment ensures that patients are adequately informed about the risks associated with anesthesia, enabling them to make educated decisions about their care.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                  |   |   |                |
| 3 | <p><b>Module: 3</b><br/><b>Components of the Health Assessment</b></p> | <p>The health assessment typically includes several key components:</p> <ul style="list-style-type: none"> <li>• <b>Medical History:</b> A detailed inquiry into the patient's past medical and surgical history, medication use, and allergies, specifically focusing on factors that influence anesthetic management.</li> <li>• <b>Physical Examination:</b> A systematic evaluation of the patient's physical status, focusing on cardiovascular, respiratory, and neurological systems, as well as airway assessment.</li> <li>• <b>Laboratory and Diagnostic Testing:</b> Ordering and interpreting relevant tests to evaluate the patient's organ function and identify any abnormalities that may</li> </ul> | 4 | 8 | a1, b1, c1, d1 |

|                  |                 |                            |                                |                       |
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|   |                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |   |   |                |
|---|------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|----------------|
|   |                                                                        | <p>affect anesthesia.</p> <ul style="list-style-type: none"> <li>• <b>Functional Assessment:</b><br/>Understanding the patient's capacity for everyday activities, which can help predict their responses to anesthesia and recovery.</li> <li>• <b>Psychosocial Evaluation:</b><br/>Assessing mental health status and support systems that may impact recovery and coping during the perioperative phase</li> </ul>                                                                                                                                                                            |   |   |                |
|   |                                                                        | <ul style="list-style-type: none"> <li>• Mad exam</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1 | 2 |                |
| 6 | <p><b>Module 4</b><br/><b>Importance of the Assessment Process</b></p> | <p>A comprehensive health assessment is vital in anesthesia for several reasons:</p> <ul style="list-style-type: none"> <li>• <b>Maximizes Patient Outcomes:</b> By ensuring that all aspects of a patient's health are assessed and understood, healthcare providers can optimize perioperative management and reduce complications.</li> <li>• <b>Enhances Communication:</b> The assessment process fosters a dialogue between the patient and the anesthesia team, promoting trust and shared decision-making.</li> <li>• <b>Facilitates Emergency Preparedness:</b> In the event</li> </ul> | 4 | 8 | a2, b2, c2, d2 |

|                  |                 |                         |                               |                       |
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|                                         |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                 |               |                           |
|-----------------------------------------|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|---------------|---------------------------|
|                                         |                 | <p>of an unforeseen complication during anesthesia, having a thorough understanding of the patient’s health history equips the team to respond swiftly and effectively.</p> <p>In conclusion, the health assessment in anesthesia is not just a regulatory requirement; it is an integral part of patient care that directly enhances safety, efficacy, and recovery outcomes during surgical procedures. By prioritizing a comprehensive evaluation, anesthesia providers can implement informed, personalized plans that cater to the unique needs of each patient.!</p> |                 |               |                           |
|                                         | Final term exam | Final term exam                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1               | 2             | a2, b2, c2, c3.d2         |
| Number of Weeks /and Units Per Semester |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 16              | 32            |                           |
| C. Tutorial Aspect:                     |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                 |               |                           |
| No.                                     | Tutorial        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Number of Weeks | Contact Hours | Learning Outcomes (CILOs) |
| 1                                       | None            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                 |               |                           |
| Number of Weeks /and Units Per Semester |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                 |               |                           |

## V. Teaching Strategies of the Course:

- Interactive lecture

|                  |                 |                         |                               |                       |
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- Seminars and student presentations
- Brain storming
- Role-play and simulation
- Small group discussion
- Learning tasks and activities
- Problems solving
- Case study analysis

## VI. Assessment Methods of the Course:

- Assignments
- Quizzes
- Mid-term exam
- Final term exam

## VII. Assignments:

| No.   | Assignments                        | Week Due | Mark | Aligned CILOs (symbols) |
|-------|------------------------------------|----------|------|-------------------------|
| 1     | Assignment 1: common abbreviations | W5       | 5    | a1, b1                  |
| 2     | Assignment 2: drug classification  | W11      | 5    | a2, b2,                 |
| Total |                                    |          | 10   |                         |

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

| No. | Assessment Method | Week Due | Mark | Proportion of Final Assessment | Aligned Course Learning Outcomes |
|-----|-------------------|----------|------|--------------------------------|----------------------------------|
|-----|-------------------|----------|------|--------------------------------|----------------------------------|

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|       |                           |       |     |      |                |
|-------|---------------------------|-------|-----|------|----------------|
| 1     | Assignments               | W5,11 | 10  | 10%  | a1, b1, a2, b2 |
| 2     | Quizzes 1 & 2             | W3, 9 | 10  | 10%  | a1, a2         |
| 3     | Mid-Term Theoretical Exam | W7    | 20  | 20%  | a1, b1, c1, d1 |
| 4     | Final Theoretical Exam    | W16   | 60  | 60%  | a2, b2, c2, d2 |
| Total |                           |       | 100 | 100% |                |

## IX. Learning Resources:

- Written in the following order: Author, Year of publication, **Title**, Edition, Place of publication, Publisher.

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

consideration of all inputs, the COA approved the final draft at its January 2014 meeting. The trial standards were implemented after adoption in January 2014 and became required standards in January 2015.

- by A Zambouri · 2007 · Cited by 238 — The ultimate goals of preoperative **medical assessment** are to reduce the patient's surgical and **anesthetic** perioperative morbidity or mortality

- 2- by FJ García-Miguel · 2024 — The present article aims to provide an evidenced-based review of preoperative **assessment** and preparation and to propose a protocol that can be adapted to

James Tayloe Gwathmey, 1862-1944. اقتباسات من كتاب لمؤلف كتاب التخدير والمؤلف لـ 1 كتب أخرى. مراجعات James Tayloe Gwathmey ...  
Rating: 2.5 · 2 votes

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### 3- Electronic Materials and Web Sites etc.:

#### Websites:

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

|   |                                                                                                                                                                                                                                                                                |
|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | <b>Class Attendance:</b><br>Class Attendance is mandatory. A student is considered absent and shall be banned from taking the final exam if his/her absence exceeds 25% of total classes.                                                                                      |
| 2 | <b>Tardiness:</b><br>A student will be considered late if he/she is not in class after 10 minutes of the start time of class.                                                                                                                                                  |
| 3 | <b>Exam Attendance/Punctuality:</b><br>No student shall be allowed to the exam hall after 30 minutes of the start time, and shall not leave the hall before half of the exam time has passed.                                                                                  |
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