



## Program Anesthesia Technician

### Faculty of Medical Applied Science

## Course Specification of Fundamental of Infection Control

**Course No. (0401821)**

**2024**

## I. Course Identification and General Information:

|    |                                                        |                               |              |          |            |
|----|--------------------------------------------------------|-------------------------------|--------------|----------|------------|
| 1  | Course Title:                                          | Fundamental of Infection      |              |          |            |
| 2  | Course Code & Number:                                  | (0401821)                     |              |          |            |
| 3  | Credit Hours:                                          | Credit Hours                  | Theory Hours |          | Lab. Hours |
|    |                                                        |                               | Lecture      | Exercise |            |
|    |                                                        | 2                             | 2            | --       | --         |
| 4  | Study Level/ Semester at which this Course is offered: | Level2 /1 Semester            |              |          |            |
| 5  | Pre –Requisite (if any):                               | No                            |              |          |            |
| 6  | Co –Requisite (if any):                                | No                            |              |          |            |
| 7  | Program (s) in which the Course is Offered:            | Program Anesthesia Technician |              |          |            |
| 8  | Language of Teaching the Course:                       | English                       |              |          |            |
| 9  | Study System:                                          | Regular (semester)            |              |          |            |
| 10 | Mode of Delivery:                                      |                               |              |          |            |
| 11 | Location of Teaching the Course:                       | University Campus             |              |          |            |
| 12 | Prepared by:                                           | Dr. morsal Anager             |              |          |            |
| 13 | Date of Approval:                                      | 2024                          |              |          |            |

### Course Description:

This course aims to address The fundamentals of infection control are essential for preventing the spread of infections, especially in healthcare settings. Here's a focused overview of the key principles and practices involved.

|                    |                |                         |                               |                       |
|--------------------|----------------|-------------------------|-------------------------------|-----------------------|
| Prepared by:       | Reviewed by:   | Head of the Department: | Quality Unit:                 | Dean                  |
| Dr Morsal al Nagar | Dr. Fahim Absi | Dr : Fares Mahdi        | <b>Dr.Fadi Shujaa Al-deen</b> | Dr Abdulsalam Dallak. |

| III. Course Intended Learning Outcomes (CILOs) : مخرجات تعلم (المقرر)                                     |                                                                                                                              | Referenced PILOs<br>(مخرجات تعلم البرنامج) |                                                                                                                                                                                                                                               |
|-----------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| A. Knowledge and Understanding: Upon successful completion of the course, students will be able to:       |                                                                                                                              |                                            |                                                                                                                                                                                                                                               |
| a1                                                                                                        | Describe the basic concepts of infection control and the significance of preventing healthcare-associated infections (HAIs). | A2                                         | Demonstrate the concepts and principles of anesthesia and different basic and humanities courses and its applications in anesthesia practice                                                                                                  |
| a2                                                                                                        | Explain the chain of infection and identify key components that contribute to infection transmission                         | A3                                         | 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      |
| B. Intellectual Skills: Upon successful completion of the course, students will be able to:               |                                                                                                                              |                                            |                                                                                                                                                                                                                                               |
| b1                                                                                                        | Explain Standard Hand Hygiene. Personal Protective Equipment (PPE): Respiratory Hygiene/Cough Etiquette:                     | B3                                         | 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. |
| b2                                                                                                        | Mentioned Contact Precautions.<br>Droplet Precautions.<br>Environmental Controls                                             | B4                                         | Demonstrate competence in the use of language, libraries, and databases and in basic concepts of research methodology and epidemiology and be able to critically analyze relevant published research literature.                              |
| C. Professional and Practical Skills: Upon successful completion of the course, students will be able to: |                                                                                                                              |                                            |                                                                                                                                                                                                                                               |

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|                                                                                                    |                                                                                                                                                                                                                    |    |                                                                                                                                                                                                                                                                                                                                                        |
|----------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| c1                                                                                                 | apply the Instrument Sterilization and Endoscope Reprocessing                                                                                                                                                      | C1 | Administer a range of assessment techniques, procedures and management appropriate to patient condition and maintain fluid therapy and blood transfusion.                                                                                                                                                                                              |
| C2                                                                                                 | <b>Determined way Infection Surveillance</b>                                                                                                                                                                       | 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                                                                                                 | • Wire Report about infection and assess the effectiveness of infection control practices.                                                                                                                         | 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)                                                                                                                                          |
| C4                                                                                                 | <b>Staff Training:</b> Continuous education for healthcare workers about infection control practices, recognizing infection signs, and understanding protocols                                                     | C4 | Apply knowledge of drugs, administration techniques and regional anesthesia in the care of acute postoperative pain and chronic pain and Demonstrate an approach to common recovery room problems (eg. pain, nausea, hypotension, and hypertension).                                                                                                   |
| <b>D. Transferable Skills:</b> Upon successful completion of the course, students will be able to: |                                                                                                                                                                                                                    |    |                                                                                                                                                                                                                                                                                                                                                        |
| d1                                                                                                 | <b>Patient Education:</b> Providing information to patients and their families about infection prevention, including hand hygiene and wound care                                                                   | D1 | Show leadership skills that enable them to organize work and lead the juniors and paramedical staff and work effectively with a team.                                                                                                                                                                                                                  |
| D2                                                                                                 | <b>Responsible Use:</b> Promote responsible prescribing and use of antibiotics to prevent the development of antibiotic-resistant infections. This includes ensuring that antibiotics are only used when necessary | D2 | Communicate with patients, family, and/or significant others to take history, clinical                                                                                                                                                                                                                                                                 |
| D3                                                                                                 | .communicate with an anesthetic staff in an effectively                                                                                                                                                            | D3 | examination and obtain consent for anesthesia.                                                                                                                                                                                                                                                                                                         |

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**(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                                | Describe the basic concepts of infection control and the significance of preventing healthcare-associated infections (HAIs). | Lectures (Traditional)<br>Case-Based Learning<br>Simulation-Based Learning<br>Skill Labs | Exams (Formative and Summative)<br>Objective Structured Clinical Examination (OSCE)<br>Simulation-Based Assessment<br>Clinical<br>▪ |
| a2                                | Explain the chain of infection and identify key components that contribute to infection transmission                         | Lectures (Traditional)<br>Case-Based Learning<br>Simulation-Based Learning<br>Skill Labs | Exams (Formative and Summative)<br>Objective Structured Clinical Examination (OSCE)<br>Simulation-Based Assessment<br>Clinical<br>▪ |

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

| Course Intended Learning Outcomes |                                                                                                                 | Teaching Strategies                                                               | Assessment Strategies                                                                                                  |
|-----------------------------------|-----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| b1                                | <b>Explain Standard Hand Hygiene. Personal Protective Equipment (PPE): Respiratory Hygiene/Cough Etiquette:</b> | Problem-Based Learning (PBL)<br>Flipped Classroom<br>Peer Teaching and Group Work | Rotations/Practicum<br>Reflective<br>Journals/Portfolios<br>Peer and Self-Assessment<br>Oral Presentations<br>Examples |

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|                                                                                                                                              |                                                                                                                                                                   |                                                                                   |                                                                                                                                |
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|                                                                                                                                              |                                                                                                                                                                   |                                                                                   |                                                                                                                                |
| b2                                                                                                                                           | <b>Mentioned Contact Precautions. Droplet Precautions. Environmental Controls</b>                                                                                 | Problem-Based Learning (PBL)<br>Flipped Classroom<br>Peer Teaching and Group Work | Rotations/Practicum<br>Reflective<br>Journals/Portfolios<br>Peer and Self-Assessment<br>Oral Presentations<br>Examples         |
| <b>(C) Alignment of Course Intended Learning Outcomes (Professional and Practical Skills) to Teaching Strategies and Assessment Methods:</b> |                                                                                                                                                                   |                                                                                   |                                                                                                                                |
|                                                                                                                                              | <b>Course Intended Learning Outcomes</b>                                                                                                                          | <b>Teaching Strategies</b>                                                        | <b>Assessment Strategies</b>                                                                                                   |
| c1                                                                                                                                           | apply the Instrument Sterilization and Endoscope Reprocessing                                                                                                     | Problem-Based Learning (PBL)<br>Flipped Classroom<br>Peer Teaching and Group Work | Exams (Formative and Summative)<br>Objective Structured Clinical Examination (OSCE)<br>Simulation-Based Assessment<br>Clinical |
| c2                                                                                                                                           | <b>Determined way Infection Surveillance</b>                                                                                                                      | Problem-Based Learning (PBL)<br>Flipped Classroom<br>Peer Teaching and Group Work | Exams (Formative and Summative)<br>Objective Structured Clinical Examination (OSCE)<br>Simulation-Based Assessment<br>Clinical |
| c3                                                                                                                                           | • Wire Report about infection and assess the effectiveness of infection control practices.                                                                        | Problem-Based Learning (PBL)<br>Flipped Classroom<br>Peer Teaching and Group Work | Rotations/Practicum<br>Reflective<br>Journals/Portfolios<br>Peer and Self-Assessment<br>Oral Presentations<br>Examples         |
| c4                                                                                                                                           | <b>Staff Training:</b><br>Continuous education for healthcare workers about infection control practices, recognizing infection signs, and understanding protocols | Problem-Based Learning (PBL)<br>Flipped Classroom<br>Peer Teaching and Group Work | Exams (Formative and Summative)<br>Objective Structured Clinical Examination (OSCE)<br>Simulation-Based Assessment             |

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|                                                                                                                                |                                                                                                                                                                                                                       |                                                                                                                                                                              |                                                                                                                                     |
|--------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                |                                                                                                                                                                                                                       |                                                                                                                                                                              | Clinical                                                                                                                            |
| <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                                                                                                                             | <b>Patient Education:</b><br>Providing information to patients and their families about infection prevention, including hand hygiene and wound care                                                                   | Lectures (Traditional<br>Case-Based Learning<br>Simulation-Based Learning<br>Skill Labs<br>Problem-Based Learning (PBL)<br>Flipped Classroom<br>Peer Teaching and Group Work | Exams (Formative and Summative)<br>Objective Structured Clinical Examination (OSCE)<br>Simulation-Based Assessment<br>Clinical<br>▪ |
| d2                                                                                                                             | <b>Responsible Use:</b><br>Promote responsible prescribing and use of antibiotics to prevent the development of antibiotic-resistant infections. This includes ensuring that antibiotics are only used when necessary | Lectures (Traditional<br>Case-Based Learning<br>Simulation-Based Learning<br>Skill Labs<br>Problem-Based Learning (PBL)<br>Flipped Classroom<br>Peer Teaching and Group Work | Rotations/Practicum<br>Reflective<br>Journals/Portfolios<br>Peer and Self-Assessment<br>Oral Presentations<br>Examples              |
| d3                                                                                                                             | .communicate with an anesthetic staff in an effectively                                                                                                                                                               | Lectures (Traditional<br>Case-Based Learning<br>Simulation-Based Learning<br>Skill Labs<br>Problem-Based Learning (PBL)<br>Flipped Classroom<br>Peer Teaching and Group Work | Exams (Formative and Summative)<br>Objective Structured Clinical Examination (OSCE)<br>Simulation-Based Assessment<br>Clinical      |

#### IV. Course Contents:

##### A. Theoretical Aspect:

| No. | Units/Topics List | Sub Topics List | Number of Weeks | Contact Hours | Learning Outcomes (CLOs) |
|-----|-------------------|-----------------|-----------------|---------------|--------------------------|
|-----|-------------------|-----------------|-----------------|---------------|--------------------------|

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|   |                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |   |   |    |
|---|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|----|
| 1 | <b>Understanding Infection</b>        | <ul style="list-style-type: none"> <li>• <b>Infection Cycle:</b> Understand the chain of infection, which includes the causative agent, reservoir, portal of exit, mode of transmission, portal of entry, and susceptible host. Breaking this chain is essential for effective infection control.</li> <li>• <b>Types of Infections:</b> Recognize various infections, including bacterial, viral, fungal, and parasitic, as well as healthcare-associated infections (HAIs) that occur during medical care.</li> </ul>                                                                                                                                                                   | 2 | 4 | A1 |
| 2 | <b>Standard Precautions</b>           | <ul style="list-style-type: none"> <li>• <b>Explain Standard Hand Hygiene:</b> The most important practice for preventing infections. Regular handwashing with soap and water or using alcohol-based hand sanitizers is essential before and after patient contact.</li> <li>• <b>Personal Protective Equipment (PPE):</b> Use appropriate PPE (gloves, masks, gowns, and eye protection) based on the risk of exposure, particularly when dealing with bodily fluids.</li> <li>• <b>Respiratory Hygiene/Cough Etiquette:</b> Encourage patients and staff to cover their mouths and noses with tissues or elbows when coughing or sneezing and to use masks when appropriate.</li> </ul> | 1 | 2 | a2 |
| 3 | <b>Transmission-Based Precautions</b> | <ul style="list-style-type: none"> <li>• <b>Mentioned Contact Precautions:</b> Implemented for infections spread by direct or indirect contact (e.g., MRSA, VRE). This includes the use of gloves and gowns when entering the room of affected patients.</li> <li>• <b>Droplet Precautions:</b> Used for infections that spread through droplets produced by coughing,</li> </ul>                                                                                                                                                                                                                                                                                                         | 1 | 2 | b1 |

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|   |                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |   |   |       |
|---|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|-------|
|   |                               | <p>sneezing, or talking (e.g., influenza, COVID-19). A surgical mask is typically required when entering the patient's room.</p> <ul style="list-style-type: none"> <li><b>Airborne Precautions:</b> Necessary for diseases transmitted via airborne route (e.g., tuberculosis, measles) requiring special air filtration and the use of N95 respirators or other high-filtration masks.</li> </ul>                                                                                                 |   |   |       |
| 4 | <b>Environmental Controls</b> | <ul style="list-style-type: none"> <li><b>Cleaning and Disinfection:</b> Regular and thorough cleaning of surfaces, equipment, and instruments is critical. Use EPA-approved disinfectants and follow proper protocols for cleaning reusable equipment.</li> <li><b>Waste Management:</b> Proper disposal of medical waste, sharps, and biohazard materials to minimize the risk of infections. Segregate waste based on type (infectious, non-infectious) and follow local regulations.</li> </ul> | 2 | 4 | b2    |
| 5 | <b>Sterilization</b>          | <ul style="list-style-type: none"> <li><b>Instrument Sterilization:</b> High-level disinfection and sterilization of surgical instruments and equipment, using methods such as autoclaving or chemical sterilants, to eliminate all microbial life.</li> <li><b>Endoscope Reprocessing:</b> Specialized protocols for cleaning and disinfecting endoscopes or other semi-critical devices.</li> </ul>                                                                                               | 2 | 4 | C1    |
| 6 | <b>6. Surveillance and</b>    | <ul style="list-style-type: none"> <li><b>Determined way Infection Surveillance:</b> Regular monitoring of infection rates in healthcare settings helps identify outbreaks and assess</li> </ul>                                                                                                                                                                                                                                                                                                    | 1 | 2 | C2.d2 |

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|---|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|----------|
|   | <b>Reporting</b>                | <p>the effectiveness of infection control practices.</p> <ul style="list-style-type: none"> <li><b>Reporting:</b> Prompt reporting of infections to local health authorities and internal healthcare teams to manage and control outbreaks effectively.</li> </ul>                                                                                                                                                                                                                                                                                                                                                         |   |   |          |
| 7 | <b>. Education and Training</b> | <ul style="list-style-type: none"> <li><b>Staff Training:</b> Continuous education for healthcare workers about infection control practices, recognizing infection signs, and understanding protocols.</li> </ul> <p><b>Patient Education:</b> Providing information to patients and their families about infection prevention, including hand hygiene and wound care</p>                                                                                                                                                                                                                                                  | 1 | 2 | C3.d1    |
|   |                                 | – <b>exam</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1 | 2 |          |
| 8 | <b>Antibiotic Stewardship</b>   | – <b>Responsible Use:</b> Promote responsible prescribing and use of antibiotics to prevent the development of antibiotic-resistant infections. This includes ensuring that antibiotics are only used when necessary                                                                                                                                                                                                                                                                                                                                                                                                       | 1 | 2 |          |
| 8 | <b>. The Infection Cycle</b>    | <ul style="list-style-type: none"> <li><b>Infectious Agent:</b> Pathogens like bacteria, viruses, fungi, and parasites.</li> <li><b>Reservoir:</b> Where pathogens live and multiply (humans, animals, environment).</li> <li><b>Portal of Exit:</b> How pathogens exit the reservoir (respiratory tract, skin, bodily fluids).</li> <li><b>Mode of Transmission:</b> How pathogens are spread (contact, droplets, airborne).</li> <li><b>Portal of Entry:</b> How pathogens enter a new host (mucous membranes, skin).</li> <li><b>Susceptible Host:</b> Individuals at risk for infection (immunocompromised,</li> </ul> | 2 | 4 | C3.d3.b1 |

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|------------------------------------------------|---------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-----------|----------------|
|                                                |                                                                           | elderly).                                                                                                                                                                                                                                                                                                                                                          |           |           |                |
| 9                                              | <b>Implementati<br/>on of<br/>Transmission-<br/>Based<br/>Precautions</b> | <ul style="list-style-type: none"> <li>Distinguish between the different types of transmission-based precautions (contact, droplet, airborne) and articulate when each type of precaution should be applied.</li> <li>Develop skills to assess patient situations and determine appropriate infection control measures based on transmission risks.</li> </ul>     | 1         | 2         | a2.b2c4.<br>b3 |
| 10.                                            | <b>Conclusion</b>                                                         | Effective infection control requires a comprehensive approach involving proper hygiene practices, use of PPE, environmental controls, surveillance, and ongoing education for both healthcare workers and patients. By adhering to these fundamental principles, healthcare facilities can significantly reduce the risk of infections and enhance patient safety. | 1         | 2         | d3.c3.d2       |
| 11                                             |                                                                           | Final Theoretical Exam                                                                                                                                                                                                                                                                                                                                             | 1         | 2         | d3.d2.b2.      |
| <b>Number of Weeks /and Units Per Semester</b> |                                                                           |                                                                                                                                                                                                                                                                                                                                                                    | <b>16</b> | <b>32</b> |                |

| <b>B. Case Studies and Practical Aspect:</b> |                           |                        |                      |                                  |
|----------------------------------------------|---------------------------|------------------------|----------------------|----------------------------------|
| <b>No.</b>                                   | <b>Tasks/ Experiments</b> | <b>Number of Weeks</b> | <b>Contact Hours</b> | <b>Learning Outcomes (CILOs)</b> |
| 1                                            | No                        |                        |                      |                                  |

|                    |                |                         |                               |                       |
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## V. Teaching Strategies of the Course:

Lectures (Traditional)  
Case-Based Learning  
Simulation-Based Learning  
Skill Labs  
Problem-Based Learning (PBL)  
Flipped Classroom  
Peer Teaching and Group Work

## VI. Assessment Methods of the Course:

Exams (Formative and Summative)  
Objective Structured Clinical Examination (OSCE)  
Simulation-Based Assessment  
Clinical Rotations/Practicum  
Reflective Journals/Portfolios  
Peer and Self-Assessment  
Oral Presentations  
Examples

## VII. Assignments:

| No.   | Assignments               | Week Due          | Mark | Proportion of Final Assessment | Aligned CILOs (symbols) |
|-------|---------------------------|-------------------|------|--------------------------------|-------------------------|
| 1     | Attendance and Activities | 15th week         | 5    | 5%                             | a1, b2.d2               |
| 2     | Student assignment        | 5th and 12th week | 5    | 5%                             | a1,c2.d2.c4             |
| 3     | Mid-term exam             | 7th or 8th week   | 20   | 20%                            | a1, b2.d1.c3            |
| 4     | Final exam                | 16th-17th week    | 70   | 70 %                           | C2, .d3.a2.b1.b2.d2     |
| Total |                           |                   | 100  | 100%                           |                         |

## IX. Learning Resources:

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

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

##### 1- Centers for Disease Control and Prevention (CDC)

- Guidelines for Infection Control in Dental Health-Care Settings - 2003*  
CDC Guidelines
- Infection Control in Healthcare Personnel: Infrastructure and Routine Practices for Occupational Infection Prevention and Control Services*  
CDC Infection Control Guidelines

##### 2- World Health Organization (WHO)

- Infection Prevention and Control in Health Care Settings*  
WHO Infection Prevention
- Guidelines on Hand Hygiene in Health Care (PDF)*

##### 3- Association for Professionals in Infection Control and Epidemiology (APIC)

- APIC Text of Infection Control and Epidemiology (Latest Edition)*  
This comprehensive text covers various aspects of infection prevention and control.
- Infection Prevention in the Post-Acute and Long-Term Care Setting*  
APIC Resources

##### 4- The Joint Commission

- Infection Prevention and Control Standards*  
Joint Commission Standards

##### 5- Public Health Agency of Canada

- Infection Prevention and Control: A Practical Guide for Health Care Workers*  
PHAC Infection Control

##### 6- National Institute for Health and Care Excellence (NICE)

- Infection Prevention and Control*  
NICE Guidelines

##### 7- Books and Textbooks

- Infection Prevention and Control: A Global Perspective* by Richard B. Jones and A. William K. Wong
- Basic Infection Control for Healthcare Workers* by A. Christine L. Williams

##### 8- Peer-reviewed Journals

|                    |                |                         |                        |                       |
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- a. *American Journal of Infection Control*  
A leading journal that publishes research related to infection prevention and control practices.
- b. *Infection Control & Hospital Epidemiology*  
A journal focusing on all aspects of infection control and disease prevention in healthcare settings.

## Online Courses and Resources

- 9- **Coursera / edX / FutureLearn**  
Online platforms that often offer courses related to infection control, public health, and healthcare-associated infections
- 10-

### 2- Essential References:

○

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

Web Resources

## 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.                                           |
| 4 | <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.                                                  |
| 5 | <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. |
| 6 | <b>Forgery and Impersonation:</b>                                                                                                                                                                                                       |

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|--------------------|----------------|-------------------------|-------------------------------|-----------------------|
| Prepared by:       | Reviewed by:   | Head of the Department: | Quality Unit:                 | Dean                  |
| Dr Morsal al Nagar | Dr. Fahim Absi | Dr : Fares Mahdi        | <b>Dr.Fadi 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 | <p><b>Other policies:</b></p> <p>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.</p> |

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## Second Part of Course Specification

### Program Anesthesia Technician

Faculty of Medical Applied Science

## Course Specification of Fundamental of Infection

Course No. ((0801821))

2024

|                    |                |                         |                        |                       |
|--------------------|----------------|-------------------------|------------------------|-----------------------|
| Prepared by:       | Reviewed by:   | Head of the Department: | Quality Unit:          | Dean                  |
| Dr Morsal al Nagar | Dr. Fahim Absi | Dr : Fares Mahdi        | Dr.Fadi Shujaa Al-deen | Dr Abdulsalam Dallak. |

## Course Plan (Syllabus) of

### I. Course Identification and General Information:

|                    |                |                         |                        |                       |
|--------------------|----------------|-------------------------|------------------------|-----------------------|
| Prepared by:       | Reviewed by:   | Head of the Department: | Quality Unit:          | Dean                  |
| Dr Morsal al Nagar | Dr. Fahim Absi | Dr : Fares Mahdi        | Dr.Fadi Shujaa Al-deen | Dr Abdulsalam Dallak. |

|    |                                                        |                               |              |          |            |
|----|--------------------------------------------------------|-------------------------------|--------------|----------|------------|
| 1  | Course Title:                                          | Fundamental of Infection      |              |          |            |
| 2  | Course Code & Number:                                  | (0401821)                     |              |          |            |
| 3  | Credit Hours:                                          | Credit Hours                  | Theory Hours |          | Lab. Hours |
|    |                                                        |                               | Lecture      | Exercise |            |
|    |                                                        | 2                             | 2            | --       | --         |
| 4  | Study Level/ Semester at which this Course is offered: | Level4 /2 Semester            |              |          |            |
| 5  | Pre –Requisite (if any):                               | No                            |              |          |            |
| 6  | Co –Requisite (if any):                                | No                            |              |          |            |
| 7  | Program (s) in which the Course is Offered:            | Program Anesthesia Technician |              |          |            |
| 8  | Language of Teaching the Course:                       | English                       |              |          |            |
| 9  | Study System:                                          | Regular (semester)            |              |          |            |
| 10 | Mode of Delivery:                                      |                               |              |          |            |
| 11 | Location of Teaching the Course:                       | University Campus             |              |          |            |
| 12 | Prepared by:                                           | Dr. Morsal al Nagar           |              |          |            |
| 13 | Date of Approval:                                      | 2024                          |              |          |            |

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| Course Description:                                                                                                                                                                                                                 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| This course aims to address The fundamentals of infection control are essential for preventing the spread of infections, especially in healthcare settings. Here's a focused overview of the key principles and practices involved. |

| III. Course Intended Learning Outcomes (CILOs) : (مخرجات تعلم المقرر)                                            |                                                                                                                                                                                                                    |
|------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>A. Knowledge and Understanding:</b> Upon successful completion of the course, students will be able to:       |                                                                                                                                                                                                                    |
| a1                                                                                                               | Describe the basic concepts of infection control and the significance of preventing healthcare-associated infections (HAIs).                                                                                       |
| a2                                                                                                               | Explain the chain of infection and identify key components that contribute to infection transmission                                                                                                               |
| <b>B. Intellectual Skills:</b> Upon successful completion of the course, students will be able to:               |                                                                                                                                                                                                                    |
| b1                                                                                                               | <b>Explain Standard Hand Hygiene. Personal Protective Equipment (PPE): Respiratory Hygiene/Cough Etiquette.</b>                                                                                                    |
| b2                                                                                                               | <b>Mentioned Contact Precautions. Droplet Precautions. Environmental Controls</b>                                                                                                                                  |
| <b>C. Professional and Practical Skills:</b> Upon successful completion of the course, students will be able to: |                                                                                                                                                                                                                    |
| c1                                                                                                               | apply the Instrument Sterilization and Endoscope Reprocessing                                                                                                                                                      |
| c2                                                                                                               | <b>Determined way Infection Surveillance</b>                                                                                                                                                                       |
| c3                                                                                                               | • Wire Report about infection and assess the effectiveness of infection control practices.                                                                                                                         |
| c4                                                                                                               | <b>Staff Training:</b> Continuous education for healthcare workers about infection control practices, recognizing infection signs, and understanding protocols                                                     |
| <b>D. Transferable Skills:</b> Upon successful completion of the course, students will be able to:               |                                                                                                                                                                                                                    |
| d1                                                                                                               | <b>Patient Education:</b> Providing information to patients and their families about infection prevention, including hand hygiene and wound care                                                                   |
| d2                                                                                                               | <b>Responsible Use:</b> Promote responsible prescribing and use of antibiotics to prevent the development of antibiotic-resistant infections. This includes ensuring that antibiotics are only used when necessary |
| d3                                                                                                               | .communicate with an anesthetic staff in an effectively                                                                                                                                                            |

|                    |                |                         |                               |                       |
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#### IV. Course Contents:

##### A. Theoretical Aspect:

| No. | Units/Topics List       | Sub Topics List                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Number of Weeks | Contact Hours | Learning Outcomes (CLOs) |
|-----|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|---------------|--------------------------|
| 1   | Understanding Infection | <ul style="list-style-type: none"> <li><b>Infection Cycle:</b> Understand the chain of infection, which includes the causative agent, reservoir, portal of exit, mode of transmission, portal of entry, and susceptible host. Breaking this chain is essential for effective infection control.</li> <li><b>Types of Infections:</b> Recognize various infections, including bacterial, viral, fungal, and parasitic, as well as healthcare-associated infections (HAIs) that occur during medical care.</li> </ul>                                                                                                                                                                 | 2               | 4             | A1                       |
| 2   | Standard Precautions    | <ul style="list-style-type: none"> <li><b>Explain Standard Hand Hygiene:</b> The most important practice for preventing infections. Regular handwashing with soap and water or using alcohol-based hand sanitizers is essential before and after patient contact.</li> <li><b>Personal Protective Equipment (PPE):</b> Use appropriate PPE (gloves, masks, gowns, and eye protection) based on the risk of exposure, particularly when dealing with bodily fluids.</li> <li><b>Respiratory Hygiene/Cough Etiquette:</b> Encourage patients and staff to cover their mouths and noses with tissues or elbows when coughing or sneezing and to use masks when appropriate.</li> </ul> | 1               | 2             | a2                       |

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| 3 | <b>Transmission-Based Precautions</b> | <ul style="list-style-type: none"> <li>• <b>Mentioned Contact Precautions:</b> Implemented for infections spread by direct or indirect contact (e.g., MRSA, VRE). This includes the use of gloves and gowns when entering the room of affected patients.</li> <li>• <b>Droplet Precautions:</b> Used for infections that spread through droplets produced by coughing, sneezing, or talking (e.g., influenza, COVID-19). A surgical mask is typically required when entering the patient's room.</li> <li>• <b>Airborne Precautions:</b> Necessary for diseases transmitted via airborne route (e.g., tuberculosis, measles) requiring special air filtration and the use of N95 respirators or other high-filtration masks.</li> </ul> | 1 | 2 | b1 |
|---|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|----|
| 4 | <b>Environmental Controls</b>         | <ul style="list-style-type: none"> <li>• <b>Cleaning and Disinfection:</b> Regular and thorough cleaning of surfaces, equipment, and instruments is critical. Use EPA-approved disinfectants and follow proper protocols for cleaning reusable equipment.</li> <li>• <b>Waste Management:</b> Proper disposal of medical waste, sharps, and biohazard materials to minimize the risk of infections. Segregate waste based on type (infectious, non-infectious) and follow local regulations.</li> </ul>                                                                                                                                                                                                                                 | 2 | 4 | b2 |
| 5 | <b>Sterilization</b>                  | <ul style="list-style-type: none"> <li>• <b>Instrument Sterilization:</b> High-level disinfection and sterilization of surgical instruments and equipment, using methods such as autoclaving or chemical sterilants, to eliminate all microbial life.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 2 | 4 | C1 |

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|   |                                      |                                                                                                                                                                                                                                                                                                                                                                                                                         |   |   |          |
|---|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|----------|
|   |                                      | <ul style="list-style-type: none"> <li>• <b>Endoscope Reprocessing:</b> Specialized protocols for cleaning and disinfecting endoscopes or other semi-critical devices.</li> </ul>                                                                                                                                                                                                                                       |   |   |          |
| 6 | <b>6. Surveillance and Reporting</b> | <ul style="list-style-type: none"> <li>• <b>Determined way Infection Surveillance:</b> Regular monitoring of infection rates in healthcare settings helps identify outbreaks and assess the effectiveness of infection control practices.</li> <li>• <b>Reporting:</b> Prompt reporting of infections to local health authorities and internal healthcare teams to manage and control outbreaks effectively.</li> </ul> | 1 | 2 | C2.d2    |
| 7 | <b>7. Education and Training</b>     | <ul style="list-style-type: none"> <li>• <b>Staff Training:</b> Continuous education for healthcare workers about infection control practices, recognizing infection signs, and understanding protocols.</li> </ul> <p><b>Patient Education:</b> Providing information to patients and their families about infection prevention, including hand hygiene and wound care</p>                                             | 1 | 2 | C3.d1    |
|   |                                      | – <b>exam</b>                                                                                                                                                                                                                                                                                                                                                                                                           | 1 | 2 |          |
| 8 | <b>Antibiotic Stewardship</b>        | – <b>Responsible Use:</b> Promote responsible prescribing and use of antibiotics to prevent the development of antibiotic-resistant infections. This includes ensuring that antibiotics are only used when necessary                                                                                                                                                                                                    | 1 | 2 |          |
| 8 | <b>8. The Infection Cycle</b>        | <ul style="list-style-type: none"> <li>• <b>Infectious Agent:</b> Pathogens like bacteria, viruses, fungi, and parasites.</li> <li>• <b>Reservoir:</b> Where pathogens live and multiply (humans, animals, environment).</li> </ul>                                                                                                                                                                                     | 2 | 4 | C3.d3.b1 |

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|                                                |                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           |           |                |
|------------------------------------------------|---------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-----------|----------------|
|                                                |                                                                           | <ul style="list-style-type: none"> <li>• <b>Portal of Exit:</b> How pathogens exit the reservoir (respiratory tract, skin, bodily fluids).</li> <li>• <b>Mode of Transmission:</b> How pathogens are spread (contact, droplets, airborne).</li> <li>• <b>Portal of Entry:</b> How pathogens enter a new host (mucous membranes, skin).</li> <li>• <b>Susceptible Host:</b> Individuals at risk for infection (immunocompromised, elderly).</li> </ul> |           |           |                |
| 9                                              | <b>Implementati<br/>on of<br/>Transmission-<br/>Based<br/>Precautions</b> | <ul style="list-style-type: none"> <li>○ Distinguish between the different types of transmission-based precautions (contact, droplet, airborne) and articulate when each type of precaution should be applied.</li> <li>○ Develop skills to assess patient situations and determine appropriate infection control measures based on transmission risks.</li> </ul>                                                                                    | 1         | 2         | a2.b2c4.<br>b3 |
| 10.                                            | <b>Conclusion</b>                                                         | Effective infection control requires a comprehensive approach involving proper hygiene practices, use of PPE, environmental controls, surveillance, and ongoing education for both healthcare workers and patients. By adhering to these fundamental principles, healthcare facilities can significantly reduce the risk of infections and enhance patient safety.                                                                                    | 1         | 2         | d3.c3.d2       |
| 11                                             |                                                                           | Final Theoretical Exam                                                                                                                                                                                                                                                                                                                                                                                                                                | 1         | 2         | d3.d2.b2.      |
| <b>Number of Weeks /and Units Per Semester</b> |                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <b>16</b> | <b>32</b> |                |

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## V. Teaching Strategies of the Course:

Lectures (Traditional  
Case-Based Learning  
Simulation-Based Learning  
Skill Labs  
Problem-Based Learning (PBL)  
Flipped Classroom  
Peer Teaching and Group Work

## VI. Assessment Methods of the Course:

Exams (Formative and Summative)  
Objective Structured Clinical Examination (OSCE)  
Simulation-Based Assessment  
Clinical Rotations/Practicum  
Reflective Journals/Portfolios  
Peer and Self-Assessment  
Oral Presentations  
Examples

## VII. Assignments:

| No.   | Assignments               | Week Due          | Mark | Proportion of Final Assessment | Aligned CILOs (symbols) |
|-------|---------------------------|-------------------|------|--------------------------------|-------------------------|
| 1     | Attendance and Activities | 15th week         | 5    | 5%                             | a1, b2.d2               |
| 2     | Student assignment        | 5th and 12th week | 5    | 5%                             | a1,c2.d2.c4             |
| 3     | Mid-term exam             | 7th or 8th week   | 20   | 20%                            | a1, b2.d1.c3            |
| 4     | Final exam                | 16th-17th week    | 70   | 70 %                           | C2, .d3.a2.b1.b2.d2     |
| Total |                           |                   | 100  | 100%                           |                         |

## IX. Learning Resources:

|                    |                |                         |                        |                       |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>Written in the following order: Author, Year of publication, Title, Edition, Place of publication, Publisher.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>1- Required Textbook(s) ( maximum two ) : مثال example</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>11- Centers for Disease Control and Prevention (CDC)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b><u>Guidelines for Infection Control in Dental Health-Care Settings - 2003</u></b><br><b><u>CDC Guidelines</u></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <p><b>2. Centers for Disease Control and Prevention (CDC)</b></p> <ul style="list-style-type: none"> <li><i>Guidelines for Infection Control in Dental Health-Care Settings - 2003</i><br/><u>CDC Guidelines</u></li> <li><i>Infection Control in Healthcare Personnel: Infrastructure and Routine Practices for Occupational Infection Prevention and Control Services</i><br/><u>CDC Infection Control Guidelines</u></li> </ul> <p><b>3. World Health Organization (WHO)</b></p> <ul style="list-style-type: none"> <li><i>Infection Prevention and Control in Health Care Settings</i><br/><u>WHO Infection Prevention</u></li> <li><i>Guidelines on Hand Hygiene in Health Care (PDF)</i></li> </ul> <p><b>4. Association for Professionals in Infection Control and Epidemiology (APIC)</b></p> <ul style="list-style-type: none"> <li><i>APIC Text of Infection Control and Epidemiology (Latest Edition)</i><br/>This comprehensive text covers various aspects of infection prevention and control.</li> <li><i>Infection Prevention in the Post-Acute and Long-Term Care Setting</i><br/><u>APIC Resources</u></li> </ul> <p><b>5. The Joint Commission</b></p> <ul style="list-style-type: none"> <li><i>Infection Prevention and Control Standards</i><br/><u>Joint Commission Standards</u></li> </ul> <p><b>6. Public Health Agency of Canada</b></p> <ul style="list-style-type: none"> <li><i>Infection Prevention and Control: A Practical Guide for Health Care Workers</i><br/><u>PHAC Infection Control</u></li> </ul> <p><b>7. National Institute for Health and Care Excellence (NICE)</b></p> <ul style="list-style-type: none"> <li><i>Infection Prevention and Control</i><br/><u>NICE Guidelines</u></li> </ul> <p><b>8. Books and Textbooks</b></p> <ul style="list-style-type: none"> <li><i>Infection Prevention and Control: A Global Perspective</i> by Richard B. Jones and A. William K. Wong</li> </ul> |

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- *Basic Infection Control for Healthcare Workers* by A. Christine L. Williams

#### 9. Peer-reviewed Journals

- *American Journal of Infection Control*  
A leading journal that publishes research related to infection prevention and control practices.
- *Infection Control & Hospital Epidemiology*  
A journal focusing on all aspects of infection control and disease prevention in healthcare settings.

### Online Courses and Resources

#### 10. Coursera / edX / FutureLearn

Online platforms that often offer courses related to infection control, public health, and healthcare-associated infections

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

Web Resources

### 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.                              |
| 4 | <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.                                     |
| 5 | <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) |

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|   |                                                                                                                                                                                                                                                                                |
|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|   | shall apply.                                                                                                                                                                                                                                                                   |
| 6 | <b>Forgery and Impersonation:</b><br>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.                                     |

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