**Syllabus*: Methods in Patient Care 110508315 First Semester**

**2022- 2023**

| COURSE INFORMATION | |
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| **Course Name:** Methods in patient care<br>**Semester:** First<br>**Department:** Department of Medical Imaging<br>**Faculty:** | **Course Code:**<br>110508315<br>**Section:**<br>**Core Curriculum**: |
| **Day(s) and Time(s):** Thursday: 11:00-1:00<br>**Classroom:** 204 ع ط | **Credit Hours:** 2<br>**Prerequisites**: None |

## COURSE DESCRIPTION

This course develops knowledge and skills in basic concepts of patient care. Includes emergency care procedures, vital sign assessment, body mechanics, sterile techniques, intravenous equipment and administration, infection control, patient safety and transfers, communication, and patient education.

## DELIVERY METHODS

The course will be delivered through a combination of active learning strategies. These will include:

- PowerPoint lectures and active online classroom based discussion
- Relevant films and documentaries
- Video lectures
- E-learning resources: e-reading assignments and practice quizzes through Model and Microsoft Team

| FACULTY INFORMATION | |
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| **Name** | Kholoud Alzyoud |
| **Academic Title:** | **Assistance professor** |
| **Office Location:** | Medical imaging department office number 3166 |
| **Telephone Number:** | |
| **Email Address:** | kholouds@hu.edu.jo |
| **Office Hours:** | **Monday** 11:00-1:00<br>**Wednesday** 11:00-1:00<br>**Thursday 8-9**<br>*Please send an e-mail (kholouds@hu.edu.jo) to meet at any other time.* |

## REFERENCES AND LEARNING RESOURCES

**Required Textbook:** List book or state: There is no required textbook for purchase.All Compulsory weekly readings are available electronically on Model.

Basic Medical Techniques and Patient Care for Radiologic Technologists. Author Torres LS.

Year 1989

Patient Care in Radiography: With an Introduction to Medical Imaging Author Ehrlich RA,

McCloskey ED, Daly JA. Year 2004

## STUDENT LEARNING OUTCOMES MATRIX*

| Core Curriculum Learning Outcomes | Program Learning Outcomes | Course Objectives | Course Student Learning Outcomes | Assessment Method |
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| Think critically and creatively in a variety of methods in order to make decisions and solve problems.<br><br>Communicate competently with others using oral and written English skills | **KP1**: Develop an understanding of human anatomy and physiology as it relates to health and disease and acquire competency in medical terminology, documentation<br><br>**KP2**: Understand the principles and physics of medical imaging technologies such as general X-ray, CT, MRI, ultrasound, fluoroscopy, nuclear medicine, dental radiography, and mammography and relate medical research<br><br>**KP3**: Develop and implement protocols for medical imaging procedures, including patient positioning, patient care, proper exposure factor selection, appropriate radiation protection | Having the knowledge and skills utilized in communicating with patients | Demonstrate the knowledge and skills utilized in communicating with patients, patient's family, colleagues, physicians, and other health care team members. | • Exams |
| | | Safety in Work Setting | principle used during firefighting, Spontaneous combustion, Open flame, Smoking, Electrical failure Fire extinguishers<br>Other Common Hazards such as Electrical shock, Falls and Collisions, Spills, Eye splashes and eyewash protocol | • Exams |
| | | Understanding the precautions procedure. | Demonstrate an understanding of infection control and the utilization of Universal Precautions and aseptic procedures | • Exams |
| | | Demonstrate the knowledge and skills related to the principles of body mechanics, safe patient transfer, and patient restraint. | Ergonomics and body mechanics<br>Concepts of body mechanics<br>Rules of body mechanics<br>Positioning for Safety and Comfort<br>Patient transfer | • Exams |
| | | Patient care and assessment | Assessing personal concerns of patient<br>Assessing physiological needs<br>Assessing physical status<br>Level of consciousness | • Exams |

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| | measures, demonstrating technical competence, and the use of contrast agents<br><br>**SP1:** Demonstrate depth of knowledge and integrate it of the basic scientific principles of all medical imaging technologies for the implementation of various protocols and techniques and to conduct scientific research in this field<br><br>**SP2:** Use creativity, critical thinking, analysis, and research skills to modify standard procedures to adapt to new circumstances, difficult cases, or unusual situations while maintaining appropriate medical imaging quality**.**<br><br>**SP3**: Evaluate and criticize all types of medical images<br><br>**CP1:** Access, evaluate, and provide medical imaging requirements<br><br>**CP2:** Recognizing the need to learn from professional learning, managing | Demonstrate an understanding of the considerations necessary when performing radiographic procedures on patients with acute and special conditions | Demonstrate the ability to evaluate and manage the physical and emotional needs of the patient. | • Exams |
| | | Medical Asepsis | Steps for hand washing<br>Removing gloves<br>Wearing Gown<br>Wearing face mask<br>Sterile fields<br>Surgical scrub | • Exams |
| | | Understanding of basic medical emergencies | Demonstrate an understanding of basic medical emergencies including recognizing signs and symptoms and appropriate response | • Exams |
| | | Assist safely with local and systemic administration of drugs | Assist safely with local and systemic administration of drugs | • Exams |
| | | Dealing with acute situations | Emergency, emergency call system, emergency carts<br>Oxygen and suction<br>Cardiac emergencies<br>Trauma<br>Spinal injury<br>Chest injury<br>Reaction to contrast media | • Exams |

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| | learning in the field of medical imaging in an integrated manner, and acquiring continuous learning skills<br><br>**CP3:** Demonstrate professional identity and responsibility with patients, colleagues, employers, and society, with ethical and professional behaviors and attitudes in the practice of health care.<br><br>**CP4**: Produces high quality, diagnosable medical images by applying positioning skills, selecting technical parameters, and using radiation protection. | | | |

## ACADEMIC SUPPORT

It is The Hashemite University policy to provide educational opportunities that ensure fair, appropriate and reasonable accommodation to students who have disabilities that may affect their ability to participate in course activities or meet course requirements. Students with disabilities are encouraged to contact their Instructor to ensure that their individual needs are met. The University through its Special Need section will exert all efforts to accommodate for individual's needs.

**Special Needs Section:**
**Tel:**
**Location:**
**Email**:

## COURSE REGULATIONS

***Participation***

Class participation and attendance are important elements of every student's learning experience at The Hashemite University, and the student is expected to attend all classes. A student should not miss more than 15% of the classes during a semester. *Those exceeding this limit of 15% will receive a failing grade regardless of their performance*. It is a student's responsibility to monitor the frequency of their own absences. **Attendance record begins on the first day of class irrespective of the period allotted to drop/add and late registration. It isa student's responsibility to sign-in; failure to do so will result in a non-attendance being recorded.**

In exceptional cases, the student, with the instructor's prior permission, could be exempted from attending a class provided that the number of such occasions does not exceed the limit allowed by the University. The instructor will determine the acceptability of an absence for being absent. A student who misses more than 25% of classes and has a valid excuse for being absent will be allowed to withdraw from the course.

***Late or Missed Assignments***

In all cases of assessment, students who fails to attend an exam, class project or deliver a presentation on the scheduled date without prior permission, and/or are unable to provide amedical note, will automatically receive a fail grade for this part of the assessment.

- Submitting a term paper on time is a key part of the assessment process. Students who fail tosubmit their work by the deadline specified will automatically receive a 10% penalty. Assignments handed in more than 24 hours late will receive a further 10% penalty. Each subsequent 24 hours will result in a further 10% penalty.
- In cases where a student misses an assessment on account of a medical reason or with prior permission; in line with University regulations an incomplete grade for the specific assessmentwill be awarded and an alternative assessment or extension can be arranged.

***Student Complaints Policy***

Students at The Hashemite University have the right to pursue complaints related to faculty, staff, and other students. The nature of the complaints may be either academic or non- academic. For more information about the policy and processes related to this policy, you mayrefer to the students' handbook.

## COURSE ASSESSMENT

***Course Calendar and Assessment***

Students will be graded through the following means of assessment and their final grade will becalculated from the forms of assessment as listed below with their grade weighting taken into account. The criteria for grading are listed at the end of the syllabus

| Assessment | Grade Weighting | Deadline Assessment |
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| First Exam | 25% | 10/11/2022 |
| Second Exam | 25% | 12/12/2022 |
| Others | 10% | During class |
| Final Exam | 40% | Universal schedule |

**Description of Exams**
Test questions will predominately come from material presented in the lectures. Semester exams will be conducted during the regularly scheduled lecture period. Exam will consist of a combination of multiple choice, short answer, match, true and false and/or descriptive questions.
**Homework:** Will be given for each chapter, while the chapter in progress you are supposed to work on them continuously and submit in next lecture when I finish the chapter.
You are also expected to work on in-chapter examples, self-tests and representative number of end of chapter problems. The answers of self-tests and end of chapter exercises are given atthe end of the book.

**Quizzes:** Unannounced quizzes will be given during or/and at the end of each chapter based upon the previous lectures. It will enforce that you come prepared to the class.

No make-up exams, homework or quizzes will be given. Only documented absences will be considered as per HU guidelines.

Grades are not negotiable and are awarded according to the following criteria*:

| Letter Grade | Description | Grade Points |
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| A+ | Excellent | 4.00 |
| A | | 3.75 |
| A- | | 3.50 |
| B+ | Very Good | 3.25 |
| B | | 3.00 |
| B- | | 2.75 |
| C+ | Good | 2.50 |
| C | | 2.25 |
| C- | | 2.00 |
| D+ | Pass | 1.75 |
| D | Pass | 1.50 |
| F | Fail | 0.00 |
| I | Incomplete | - |

## WEEKLY LECTURE SCHEDULE AND CONTENT DISTRIBUTION

***"Lecture hours and weeks are approximate and may change as needed"***

Note: For patient care sections with 2 lecture periods per week (S/T), one lecture period covers 1 lecture hour (60 minutes). The course content specifies the sections in chapters 1-10 of the textbook that will be included in quizzes, homework and exams.

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| ***Chapter 1*** ***Demonstrate the knowledge and skills utilized in communicating with patients, patient's family, colleagues, physicians, and other health care team members*** **Week 1** **3 lecture hours** |
| **1.1 Define communication.** |
| **1.2 Identify methods of communication and discuss how each can be utilized.** |
| **1.3 Identify patient communication problems and determine possible solutions.** |
| **1.4 Discuss verbal versus nonverbal communication.** |
| **1.5 Discuss challenges in communication.** |
| **1.6 Discuss other factors that impede communication with patient, families, etc.** |
| **1.7 Determine appropriate communication guidelines** |
| **1.8 Determine when to utilize listening and therapeutic silence.** |
| **1.9 Demonstrate explanations of radiographic examinations utilizing clinical simulations.** |
| **1.10 Demonstrate explanations for patients with various communication problems utilizing clinical simulations.** |
| ***Chapter 2*** ***Demonstrate an understanding of infection control and the utilization of Universal Precautions and aseptic procedures*** **Week 2/3** **4 lecture hours** |
| **2. 1 Describe the utilization of Universal Precautions and Isolation Procedures.** |
| **2. 2 Describe sources and modes of transmission of infections and diseases.** |
| **2. 3 Describe the procedures for infection control through Universal Precautions.** |
| **2. 4 Discuss psychological considerations for the management of patients utilizing Universal Precautions.** |
| **2. 5 Differentiate between medical and surgical asepsis.** |
| ***Chapter 3*** ***Demonstrate the knowledge and skills related to the principles of body mechanics, safe patient transfer, and patient restraint*** **Week 3-4** **5 lecture hours** |
| **3. 1 Describe and demonstrate good principles of body mechanics applicable to patient care.** |
| **3. 2 Demonstrate techniques for various types of patient transfer.** |
| **3. 3 Describe and demonstrate the procedures for turning patients with various conditions.** |
| **3. 4 Describe and demonstrate restraint techniques for various types of procedures and patient conditions.** |
| **3. 5 Describe the aspects of patient comfort and discuss the importance of each to the care and safety of the patient.** |
| ***Chapter 4*** ***Demonstrate the ability to evaluate and manage the physical and emotional needs of the patient*** **Week 5-6** **6 lecture hours** |
| **4. 1 Describe methods for evaluation of patient status.** |
| **4. 2 Identify the information/data to be collected prior to patient examination.** |
| **4. 3 Demonstrate methods of obtaining a patient history.** |
| **4. 4 Describe vital signs used to assess patient condition.** |
| **4. 5 State the normal temperature values for the oral and rectal methods of measurement for temperature.** |
| **4. 7 Describe the method of monitoring respirations and state the normal values expected.** |
| ***Chapter 5*** ***Demonstrate an understanding of basic medical emergencies including recognizing signs and symptoms and appropriate response*** **Week 7** **3 lecture hours** |

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| **5.1** | **Discuss acute care procedures for each various emergencies.** |
| **5. 2** | **Discuss the use of medical emergency equipment and supplies.** |
| **5. 3** | **Demonstrate the use of oxygen and suction equipment.** |

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| ***Chapter 6*** | ***Medical Asepsis*** | **Week 8-9** | **4 lecture hours** |
| **6. 1** | **Steps for hand washing** | | |
| **6. 2** | **Removing gloves** | | |
| **6. 3** | **Wearing Gown** | | |
| **6. 4** | **Sterile fields** | | |
| **6.5** | **Wearing face mask** | | |
| **6.6** | **Surgical scrub** | | |
| ***Chapter 7*** | ***Demonstrate an understanding of the considerations necessary when performing radiographic procedures on patients with acute and special conditions*** | **Week 9-10** | **4 lecture hours** |
| **7. 1** | **Identify the precautions necessary when working with a patient with: 1. Fracture 2. Head injury 3. Spinal injury 4. Massive wounds 5. Burns** | | |
| **7. 2** | **Explain the care and management of patients with nasogastric tubes.** | | |
| **7. 3** | **Explain the care and management of patients with chest tubes.** | | |
| **7. 4** | **Identify the steps in the operation and maintenance of suction equipment.** | | |
| ***Chapter 8*** | ***assist safely with local and systemic administration of drugs*** | **Week 11-12** | **4 lecture hours** |
| **8. 1** | **List three precautions necessary when assisting with drug administration** | | |
| **8. 2** | **List five physical factors that influence drug action** | | |
| **8. 3** | **List five methods of drug administration** | | |
| **8. 4** | **Demonstrate in the laboratory and in writing the proper equipment needed to administer any drug requested by the physician.** | | |
| **8. 5** | **Define the basic prescription abbreviations commonly used in hospitals.** | | |
| **8.6** | **List the anatomic sites most commonly used in administering parental medications by intravenous (IV), subcutaneous, intramuscular (IM), and intradermal route** | | |
| ***Review*** | | ***Week 14*** | |
| **University Exams** | | ***Week 15*** | |
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