

*American University of Beirut*  
*Faculty of Health Sciences*  
*Medical Imaging Sciences*

**DGRG 260**  
*(Clinical Practicum V)*  
*Fall Semester*

**Name** Mrs. Marlen S.  
Keushgerian  
Mrs. Hala Hilal

**Office Hours:**

**Meeting Location:**  
Department of  
Diagnostic  
Radiology

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**Meeting Time:**

**COURSE DESCRIPTION:**

- **Clinical training in:**
  - General Radiography
  - Mobile Radiography
  - Emergency Radiography
  - Computed Tomography
  - Magnetic Resonance Imaging
  - Ultrasound
  - Nuclear Medicine

**Course Objectives:**

- **At the end of their clinical training student radiographers will develop the below listed skills and competencies:**
  - General, Emergency and Mobile Radiography:
    - Perform any procedure to completion without assistance
  - CT
    - Understand the imaging protocols used for the following procedures:
      - CT brain with contrast
      - CT chest with contrast
      - CT abdomen with contrast
      - CT pelvis with contrast

- Perform the below listed procedures to completion without assistance:
  - CT brain with contrast
  - CT chest with contrast
  - CT abdomen with contrast
  - CT pelvis with contrast
  
- U/S
  - Collect pertinent data about the client and the procedure
  - Provide information about the procedure to the client and significant others
  - Provide optimum care to all clients
  - Know preparation required for requested exam.
  - Understand basic acoustic physics and ultrasound instrumentation
  - Understand sonographic appearance of various anatomical structures
  
- MRI
  - Know the safety issues that apply to the MRI environment
  - Conduct pre- scanning screening of the patients presenting for MRI examinations.
  - Under supervision, administer the MRI safety questionnaire to patients
  - Provide clear pre-examination instructions to the patients presenting for MRI examinations.
  - Demonstrate an understanding of the use of contrast media in MRI.
  - Provide clear pre-preparation instructions to patients
  - Gain a further understanding of standard positioning and imaging protocols.
  - Know which coils are used for every procedure
  - Under supervision, position patients for the required procedure
  - Demonstrate the ability to recognize a range of anatomical structures on MRI images.

- NM
  - Collect pertinent data about the client and the procedure
  - Provide information about the procedure to the client and significant others
  - Provide optimum care to all clients
  - Understand the role of the dose calibrator
  - Know how and why Molybdenum breakthrough test and Constancy tests are performed
  - Know and understand radiation safety steps utilized during radiopharmaceutical preparation and imaging
  - Know and understand radiation safety steps utilized during radioactive spills
  - Know the radioactive waste management process followed
  - Learn and understand the generator elution process
  - Know the difference between the various collimators used
  - Know the various patient preparation steps required for all procedures
  - Understand the different utilizations of NM, SPECT and NM / CT
  - Gain an understanding of the standard positioning and range of planar and cross-sectional images taken
  - Demonstrate knowledge of normal anatomy, normal variants and pathologies demonstrated

**Credits Allocated: 4**

**Prerequisites: DGRG 250**

**Assignments: Case studies**

**Student Assessment / Basis of Grade determination**

**Grades for this course will be based on the following criteria:**

Clinical evaluation	75%
Case studies	15 %
Assignments	10%

*N.B.: The passing grade for the course is 70*

## COURSE SYLLABUS

### Author (s) of Syllabus and resume (s)

- Marlen S. Keushgerian (resume attached)

## COURSE POLICY

### 1. *Attendance:*

- Clinical rotations for every DGRG course are assigned by the clinical tutors
- Students are not allowed to change rotations
- During clinical training the students are not allowed to leave their rotation without informing the radiographer in charge of the rotation or the clinical tutor
- Clinical training hours are set with the scheduling of the DGRG course
- To pass a DGRG course, students are requested to complete the total hours of clinical training required by the course
- Upon reporting to clinical training, the student should document his / her attendance with the clinical tutor
- If a student could not attend the required clinical training, he / she will be asked to compensate for the missing clinical hour (s) on a week - end

### 2. *Withdrawal date:* Please observe withdrawal dates set by the Registrar's Office.

### 3. *Academic integrity:* Any act of cheating or plagiarism is a violation of academic integrity and will not be tolerated. Kindly refer to student handbook or refer to AUB Policies and Procedures on academic integrity. <http://pmp.au.edu.lb/university/handbook/158010044.html>.

### 4. *E-mail communication:* Students will be e – mailed on regular basis throughout the semester.

### 5. *Special needs:* 'AUB strives to make learning experiences as accessible as possible. If you anticipate or experience academic barriers due to a disability (including mental health, chronic or temporary medical conditions), please inform me immediately so that we can privately discuss options. In order to help establish reasonable accommodations and facilitate a smooth accommodations process, you are encouraged to contact the Accessible Education Office: [accessibility@aub.edu.lb](mailto:accessibility@aub.edu.lb); +961-1-350000, x3246; West Hall, 314'.