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| Spring Semester AY 2023 – 2024 | American University of Beirut | |
| | Faculty of Health Sciences – Division of Health Professions | |
| | Medical Imaging Sciences Program | |
| | Course number | DGRG 270 |
| | Course name | <i>Clinical Practicum VI</i> |

Course Administration

Instructor: Ms. Saly Abbas
Office: AUBMC, SB-23 (ext. 5045)
Office hours: by appointment
Email : sa196@aub.edu.lb

Class Time and Venue

Day and Time: Monday: 12:00 – 16:00
 Tuesday & Thursday: 11:00 – 15:00
 Friday: 08:00 – 12:00
 Location: Diagnostic Radiology Department – American University of Beirut-Medical Center

Course Description

This is a clinical placement course; students are required to apply theoretical basis of diagnostic imaging to clinical practice and to develop professional competencies and skills in medical imaging. Students are expected in DGRG 270 to demonstrate specific competencies/skills in the following imaging modalities within the Diagnostic Radiology Department:

- General Radiography
- Computed Tomography
- Fluoroscopy/Interventional
- Magnetic Resonance Imaging
- Ultrasound
- Positron Emission Tomography/Nuclear Medicine

Course Learning Outcomes

- By the end of the course, students will be able to:
- LO1. Apply knowledge to provide patient care and comfort in a professional manner regardless of patient’s personal attributes, nature of disease or illness, and without discrimination.
 - LO2. Practice the profession in a manner compatible with the ethical values enhanced by the profession of radiologic technology.
 - LO3. Communicate effectively with other members of the healthcare team and patients.
 - LO4. Apply knowledge to provide a safe environment for patients, families and other healthcare colleagues guided by the “As Low As Reasonably Achievable (ALARA)” principle.
 - LO5. Apply knowledge of anatomy, physiology, positioning, and radiographic technique to accurately demonstrate and evaluate proper demonstration of anatomical structures.
 - LO6. Determine an appropriate comprehension of proper radiation safety principles.
 - LO7. Perform proper operation of equipment and technique selection, and clinical imaging procedures management to complete a radiographic exam/procedure.
 - LO8. Assure an appropriate comprehension of proper contrast medium preparation and administration, and infection control principles.
 - LO9. Employ radiographic images evaluation for optimal positioning demonstration of anatomic regions.

Credits Allocated: 4



Pre-requisites: DGRG 260

Clinical Placement Outline

Please note this is a tentative schedule. Any changes may be made at the instructor's discretion.

| Number of hours | Clinical Placement | CLOs |
|-----------------|---|------|
| 64 | General Radiography | 1-9 |
| 50 | Computed Tomography | 1-8 |
| 32 | Fluoroscopy/Interventional | 1-8 |
| 32 | Magnetic Resonance Imaging | 1-8 |
| 16 | Ultrasound | 1-7 |
| 16 | Positron Emission Tomography/Nuclear Medicine | 1-8 |

** All Holidays were taken into consideration.*

Student Assessment

| Assessment | CLOs | Percent |
|---|------------|------------|
| 1. Ongoing progress clinical practice evaluation and feedback on all learned competencies in General Radiography (30%) and Computed Tomography (30%) by course instructor | 1-9 | 60% |
| 2. Written exam on all learned competencies (May 07, 2024, at 9:00 a.m.) | 1-9 | 40% |

Course Resources

All materials and books for the Clinical Practicum course – DGRG 270 are posted on Moodle.

- Clinical Practicum Handbook-DGRG 270.
- Carlton R. and Adler A. (2019). Introduction to Radiologic and Imaging Sciences and Patient Care. Seventh Edition. Elsevier.
- Federle M.P. and Raman S. P. (2015). Diagnostic Imaging Gastrointestinal. Third Edition. Elsevier.
- Karellas A., Thomadsen B.R., and Dahlbom M. (2017). Physics of PET and SPECT Imaging. Taylor and Francis.
- Hoskins P.R., Kevin M., and Abigail T. (2019). Diagnostic Ultrasound: Physics and Equipment. Third Edition. Taylor and Francis.
- Lampignano, J.OP. and Kendrick L. E. (2018). Radiographic Positioning and Related Anatomy. Ninth Edition. St. Louis, Missouri, Elsevier.
- Long B. W., Rollins J. H., and Smith B. J. (2016). Merrill's Atlas of: Radiographic Positioning and Procedures (Volumes 1, 2, and 3). Thirteenth Edition. St. Louis, Missouri, Elsevier Mosby.
- Martensen, K. M. (2015). Radiographic Image Analysis. Fourth Edition. St. Louis, Missouri, Elsevier Saunders.
- Martin A., Harbison S., Beach K., and Cole P. (2019). An Introduction to Radiation Protection. Seventh Edition. Taylor and Francis.
- Samei E. and Pelc N.J. (2020). Computed Tomography: Approaches, Applications, and Operations. Springer.
- Watson N. and Jones H. (2018). Guide to Radiological Procedures. Seventh Edition. St. Louis, Missouri, Elsevier.
- Westbrook C. and Talbot J. (2019). MRI in Practice. Fifth Edition. Wiley Blackwell.

Course Policies and General Notes

1. Attendance:

- Attendance is mandatory and it will be documented for all clinical placement modalities. A predetermined number of clinical hours need to be completed in this clinical course re: 210 hours.



- b. Should the student be late for their clinical training, your instructor(s) must directly be informed by email.
- c. Any excusable arrival delayed by more than 30 minutes should be compensated.
- d. Students who, during a term, miss more than one-fifth of the set clinical training hours will be dropped from the course:

DGRG 270: 42 hours.

N.B.: for details about clinical attendance rules and regulations please refer to the university catalogue.

2. Academic integrity:

Education is demanding, and time management is essential. Do not hesitate to use the resources around you but do not cut corners. Cheating and plagiarism will not be tolerated. Please review the Student Code of Conduct in your handbook available on the following web page:

<https://www.aub.edu.lb/sao/Documents/Student%20Handbook%202016-2017.pdf> and familiarize yourself with definitions and penalties (p. 33).

If you're in doubt about what constitutes plagiarism, ask your course instructor(s) because it is your responsibility to know. The American University of Beirut has a strict anti-cheating and anti-plagiarism policy. Penalties include failing marks on the assignment in question, suspension or expulsion from university and a permanent mention of the disciplinary action in the student's records.

- 3. By signing up for this course, you confirm that you have read and accepted the terms and provisions of "AUB's Privacy Statement".

4. Assessments/ Final Written Exam Regulations:

All assessments and the written exam must be completed within the time period specified. The only delays for the exam that will be considered by the course instructor(s) are for documented illness, death in the family, and personal/family emergency.

If a student fails a clinical placement assessment, he/she will normally be offered one resit attempt. However, if he/she did not participate in the first assessment and have no extenuating circumstances, he/she may not be offered a resit. If he/she are successful in the resit, the mark will be calculated from the original mark that he/she passed at first attempt and the minimum pass mark for which he/she took a resit.

5. Students with Disabilities:

AUB strives to make learning experiences accessible for all. If you anticipate or experience academic barriers due to a disability (such as ADHD, learning difficulties, mental health conditions, chronic or temporary medical conditions), please do not hesitate to inform the Accessible Education Office. In order to ensure that you receive the support you need and to facilitate a smooth accommodations process, you must register with the Accessible Education Office (AEO) as soon as possible: accessibility@aub.edu.lb; +961-1-350000, x3246; West Hall, 314.

6. Non-Discrimination – Title IX – AUB:

AUB is committed to facilitating a campus free of all forms of discrimination including sex/gender-based harassment prohibited by Title IX. The University's non-discrimination policy applies to, and protects, all students, faculty, and staff. If you think you have experienced discrimination or harassment, including sexual misconduct, we encourage you to tell someone promptly. If you speak to a faculty or staff member about an issue such as harassment, sexual violence, or discrimination, the information will be kept as private as possible, however, faculty and designated staff are required to bring it to the attention of the University's Title IX Coordinator. Faculty can refer you to fully confidential resources, and you can find information and contacts at www.aub.edu.lb/titleix. **To report an incident**, contact the University's Title IX Coordinator Mitra Taub at 01-350000 ext. 2514, or titleix@aub.edu.lb. An anonymous report may be submitted online via Ethics Point at www.aub.ethicspoint.com.