Medical Imaging Sciences

The Medical Imaging Sciences (MIS) Program is an interdisciplinary program offered by the Division of Health Professions, which is run jointly by the Faculties of Health Sciences (FHS) and Medicine (FM). MIS is committed to the development of professional competence through quality instruction that effectively prepares its student radiographers for graduate study.

What is Medical Imaging?

Medical Imaging is a branch of science and healthcare that engages the use of imaging to both diagnose and treat disease processes visualized within the human body. Radiographers produce diagnostic images of internal structures of the body, performing investigations that vary in complexity, from simple skeletal and chest radiography to sophisticated high-technology tests, such as computed tomography, ultrasonography, angiography, nuclear medicine, and magnetic resonance imaging. The radiographer is thus responsible for the production of high-quality images and for some aspects of patient care.

What are the educational requirements?

The MIS Program requires three years of study post freshman, during which students participate in coursework, clinical training, and research activities. During the first year of study, students take basic science and elective courses. In the second and third year, students learn in-depth theory and application of the following imaging modalities:

- General Radiography
- Mobile & Operating Room Radiography
- Emergency Radiography
- General Fluoroscopy
- Digital Subtraction Angiography/Interventional Imaging
- Breast Imaging
- Computed Tomography
- Ultrasonography
- Magnetic Resonance Imaging
- Nuclear Medicine
- Positron Emission Tomography

Courses are designed and timed to work in parallel with clinical training at the American University of Beirut Medical Center (AUBMC). Clinical training is a vital component of study that allows students to apply knowledge and skills to clinical practice. Elective periods in related specialties such as radiation oncology may be possible. Clinical training is offered in coordination with the Department of Diagnostic Radiology in the Faculty of Medicine.

What are the job opportunities?

The MIS Program is designed to prepare students for a gratifying career in medical imaging and radiation-based treatment. Radiographers can work as part of a multidisciplinary team in a variety of settings: hospitals, private practice, pharmaceutical and medical equipment companies, academic and research institutions.

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