**Synopsis:**

Common pathophysiology of the cardiac and endocrine systems; blood and neurologic disorders relevant to nuclear medicine. Systematic introduction to sectional imaging anatomy and its relevance to nuclear medicine practice. Introduction to the concept of hybrid imaging systems and patient archival systems.

**Objectives:**

On successful completion of this unit students will be able to:

1. Describe common functional and structural changes related to disease processes and injury pertinent to nuclear medicine.
2. Continue to apply fundamental principles of pathophysiology to other disorders encountered in clinical practice.
3. Communicate a broad and critical conceptual understanding of hybrid imaging systems and their role in clinical care;
4. Communicate a broad and critical conceptual understanding of patient archival systems used in the health care setting;
5. Accurately locate and recognise anatomical structures of the musculoskeletal system, central nervous system, genitourinary system, respiratory and cardio-vascular systems and digestive tract demonstrated in sectional CT and MRI images;
6. Accurately locate and recognise key radiological features of common pathologies pertinent to nuclear medicine studies.

**Assessment:**

Written examination (one and a half hours): 40% + Image recognition exam (one hour): 40% + Assignment: 20%