

# **SPECIALIST DIPLOMA IN RADIOLOGY NURSING**

## **MODULE SYNOPSES**

### **1. FUNDAMENTALS OF RADIOLOGY NURSING (30 hours)**

This module is designed to equip participants with fundamental skills and knowledge that are generic to radiology nursing. It will include planning and coordination of patients undergoing radiological investigations, including administration of medications and contrast media as well as responding to emergency situations that may occur in the radiology department. It also examines the principles of teaching and learning and their application in radiology nursing.

### **2. RESEARCH & PROJECT (50 hours)**

The aim of this module is to enable the participants to increase their knowledge and skills in nursing research. The principles of scientific inquiry, research design, sampling techniques, data collection, data analysis and research ethics are discussed with emphasis on nursing. The participants will also conduct a research project related to radiology nursing.

### **3. HEALTH ASSESSMENT (30 hours)**

This module aims to provide participants with an understanding and comprehensive foundation in the principles of health assessment in clinical nursing practice. It will equip participants with a systematic approach to history taking and physical examination and the identification of health problems of the patients.

### **4. RADIOBIOLOGY & RADIATION PROTECTION (30 hours)**

This module examines the radiobiology and radiological physics aspect, and will cover areas such as animal cell anatomy, radiation detection, and biological effects of ionising as well as non-ionising radiation, radiation protection and dosimetry.

### **5. ANAESTHETIC AND PERI-OPERATIVE NURSING IN RADIOLOGY (30 hours)**

The module provides participants with the knowledge and skills for the management of patients before, during and after radiological surgical interventions. The science and principles of infection control, sterilization techniques, use of equipment, nurse's role in assisting the administration of anaesthesia and radiological surgical interventions, as well as the recovery of patients from anaesthesia prior to safe discharge from the radiology department will be discussed. Relevant practical skills will be incorporated to enhance the integration of participants' acquired theoretical knowledge to practical applications.

## **6. SPECIALTY RADIOLOGY NURSING I (45 hours)**

This module comprises two sections: facets of diagnostic radiology & principles of radiation oncology. It provides participants with an understanding and comprehensive foundation of diagnostic radiology. It will include planning, co-ordination of care, patient education and management of procedural complications. It includes the roles and responsibilities of the nurse caring for patients receiving radiation therapy.

## **7. NURSING MANAGEMENT (30 hours)**

This module focuses on healthcare management and ethical-legal issues in radiology nursing. It provides participants with opportunity to explore concepts and principles of healthcare management, such as resource management, financing and budgeting, staff appraisal and conflict management. Major ethical-legal issues affecting healthcare practice will be addressed.

## **8. SPECIALTY RADIOLOGY NURSING II (57 hours)**

This module introduces participants to the knowledge and skills in interventional radiology. It includes planning, co-ordination of care, patient education and management of procedural complications. The special needs of the paediatric patient undergoing the various radiological procedures will be addressed in this module.

## **9. CLINICAL EDUCATION (80 hours)**

As an integral part of Clinical Education, participants will be encouraged to explore, analyse and integrate concepts learnt in the academic setting into the actual practice of nursing. Participants must be self-directed to ensure clinical objectives are achieved.