**BMR 3114 - THERAPY EQUIPMENT AND TECHNIQUE I**

Course description:

The course describes the radiotherapy equipment and techniques for head and neck, spine, lungs, pleura, breast, and specific disease.

Purpose: To enable the student acquire skills in performing radiotherapy techniques. Course Objectives: By the end of the course, the student should be able to:

1. Demonstrate ability to operate therapy equipment.

2. Discuss approach to cancer patient management

3. Describe the radiotherapy equipment and techniques for head and neck, spine, lungs, pleura, breast, and specific diseases.

4. Demonstrate ability to plan and carry out radiotherapy procedures for head and neck, spine, lungs, pleura, breast, and specific diseases.

5. Participate in radiotherapy and record 10 treatment and ten planning procedures in the logbook

Expected outcomes/Competencies:

• A student with skills to carry out radiotherapy techniques for various body systems as well as demonstration of good professional conduct with patients

• A student with knowledge of Quality assurance

• Ability to carry out palliative radiotherapy

Course content:

• Therapy equipment includes teletherapy equipment (Cobalt 60, Linear Accelerator and Simulator).

Bracutherapy, Athrovoltage equipment, Mould room equipment.

• Approach to the cancer patient; nutritional card during radiotherapy; infections and radiotherapy; Delivery methods:

Over-view lectures, Small group tutorials with a Tutor, Self-directed study, Wrap-up seminars, Question and answer sessions, Skills training, Assignments, practicals and Videos for watching.

Assessment strategies:

There shall be an assessment blue-print for assessment.

Formative and summative assessment shall be conducted through MCQs. Essays, short answer questions, Objective Structure Clinical Examination (OSCE), Objective Structure Practical Examination (OSPE) and logbook/ Portfolio

Course duration: 5 Weeks

Requirements: 75 CH, 5CU Resources & Infrastructure available:

Libraries, Book banks, Tutorial rooms, Computer services and internet, Content experts and audiovisual

materials/ resources. Radiotherapy (Laboratory) rooms

And IT Labs