**BMR 3215 THERAPY EQUIPMENT & TECHNIQUE II**

Course description:

The course builds on prior knowledge in therapy technique and focuses also on the importance of palliative care, nutritional card during radiotherapy. Dissymmetric practice; parallel opposing portals; special gamma ray techniques; interstitial techniques and the use of radiopharmaceuticals are explained.

Purpose:

To enable the student acquire skills in performing radiotherapy techniques as well appreciate the importance of palliative care in radiotherapy.

Course objectives: By the end of the course, the student should be able to:

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

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

3. Discuss dissymmetric practice

4. Define and describe palliative radiotherapy

5. Describe radiopharmaceutical systemic techniques and quality assurance.

Expected outcomes/Competencies:

1. Ability to perform radiotherapy techniques

2. Ability to carry out palliative radiotherapy

3. Knowledge of QC & QA in radiotherapy

Course content:

• Radiotherapy equipment and techniques for the head and neck; brain and cranio spinal irradiation;

the lungs and pleura; the breast; techniques for specific diseases.

• Ten treatments and ten planning procedures must be entered in the logbook.

• Palliative radiotherapy

Dissymmetric practice; parallel opposing portals; special gamma ray techniques; interstitial techniques.

• Systemic techniques with radiopharmaceutical; quality assurance.

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