**BMR 2111 PATHOLOGY FOR RADIOGRAPHERS**

Course description:

The course focuses on the abnormal functioning of diseased organs. The course will include descriptions of causes, signs and symptoms, diagnostic tests, and treatments dealing with patient care. The unit also covers signs of pathology on diagnostic images.

Purpose:

To enable the student learn and understand the knowledge associated with abnormal functioning of disease processes and their appreciate diagnostic tests.

Course Objectives:

By the end of the 5 weeks, the student should be able:

1. Define the disease categories covered in the course content

2. List the causes of diseases

3. Describe the clinical manifestations of the common conditions within this diseases classification.

4. Identify the common diagnostic tests used to identify the common diseases

5. Describe the radiographic appearances of the common diseases.

6. Demonstrate the ability to describe a chest x-ray in a patient with pneumonia.

7. Appreciate the role of imaging in the management of common diseases.

8. Show ability to interpret pathological changes at different imaging modalities

Expected outcomes/competencies

A student who:

• Understands the nature and production of ionizing radiation

• Is aware of biological effects of radiation

• Safely applies radiation to patient imaging and therapy

• Practices radiation safety culture at the place of work

Course Content:

• Causes of diseases

• Basic principles of pathology

• Appropriate diagnostic imaging modality for each of the disease category.

• Introduction to radiographic changes on the different imaging modalities

• Clinical manifestations of common disease within each category

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. X-ray (Laboratory) rooms, And IT Labs