

University of Pretoria Yearbook 2016

Radiographic imaging 182 (RAW 182)

Qualification	Undergraduate
Faculty	Faculty of Health Sciences
Module credits	20.00
Programmes	BRad Diagnostics
Prerequisites	No prerequisites.
Contact time	1 lecture per week, 1 seminar per week, 1 discussion class per week
Language of tuition	Both Afr and Eng
Academic organisation	Radiography
Period of presentation	Year

Module content

Introduction: Discovery of X-rays, processing principles, handling of X-ray equipment. X-beam: production of X-rays, attenuation. Properties of the radiographic image: visibility and geometric properties. Image formation: interaction between X-rays and the human body and subject contrast. Primary exposure factors: mAs, kVp and SID. AEC. Principles of technique charts. Image recording: darkrooms, cassettes, intensifying screens, efficiency of rare earth intensifying screens and X-ray film construction. Control of scatter radiation: production of scatter, effect of scattered radiation on the image, beam restriction devices, grids and grid efficiency. Geometry: focal spot size, SID, OID, X-ray beam/body part/film alignment, influence of distances and other variables on the geometric properties of the image. Introduction to digital radiography.

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