

University of Pretoria Yearbook 2017

Radiographic imaging 182 (RAW 182)

Qualification	Undergraduate
Faculty	Faculty of Health Sciences
Module credits	20.00
Prerequisites	No prerequisites.
Contact time	1 lecture per week, 1 seminar per week, 1 discussion class per week
Language of tuition	Separate classes for Afrikaans and English
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.

The information published here is subject to change and may be amended after the publication of this information. The [General Regulations \(G Regulations\)](#) apply to all faculties of the University of Pretoria. It is expected of students to familiarise themselves well with these regulations as well as with the information contained in the [General Rules](#) section. Ignorance concerning these regulations and rules will not be accepted as an excuse for any transgression.