

University of Pretoria Yearbook 2020

Diagnostic radiography 300 (DIR 300)

Qualification Undergraduate

Faculty [Faculty of Health Sciences](#)

Module credits 20.00

Programmes [BRad in Diagnostics](#)

Prerequisites DIR 200, RSC 200, RPH 300

Contact time 1 discussion class per week, 1 lecture per week, 1 seminar per week

Language of tuition Module is presented in English

Department Radiography

Period of presentation Year

Module content

Venous needle placement.

Cardiovascular system: Selective angiography. Intervention techniques (vascular and non-vascular). Venography. Seldinger technique, contrast media, medication, catheters, guide wires and accessories. Quality assurance and quality control. Patient care. Medico-legal aspects. Pattern recognition.

Mammography: Introduction. Principles of soft tissue radiography. Communication and health promotion. Medico-legal aspects. Management of breast disease, patient care, radiation safety and technique factors. Processing requirements. Positioning principles and special procedures. Systematic evaluation of the images. Pattern recognition.

Hystero-salpingography: Booking procedures, patient-radiographer relationship, procedural considerations and evaluation criteria. Pattern recognition.

Bone densitometry: Principles, bone biology and remodelling, osteoporosis, core competencies for radiographers, physical principles of dual X-ray absorptiometry and other bone densitometry techniques.

Ultrasonography: General principles in obstetrics and gynaecology, abdomen and pelvis, musculo-skeletal system.

Computer Tomography: Protocols for different examinations. Patient care. Image interpretation.

Magnetic resonance imaging: Protocol for the different examinations. Patient care. Myelography.

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