



---

# University of Pretoria Yearbook 2016

---

## Radiation physics 210 (RFI 210)

<b>Qualification</b>	Undergraduate
<b>Faculty</b>	<a href="#">Faculty of Natural and Agricultural Sciences</a>
<b>Module content</b>	X-ray generator: transformer, energy losses, rectifiers, capacitor-discharge systems, kVp and mA control, high voltage cables. Image intensifiers: design, brightness gain, coupling systems. TV camera and monitor: design, video signal, scanning. Image quality. Optics: reflection, refraction, total internal reflection, mirrors, lenses, thin lens formula, lens aberrations, fibre optics, lasers, laser camera. Computers: basic hardware, digital principles and terminology, data storage.
<b>Module credits</b>	10.00
<b>Programmes</b>	<a href="#">BRad Diagnostics</a>
<b>Service modules</b>	Faculty of Health Sciences
<b>Prerequisites</b>	RFI 110, MTL 180, RAN 100, FSG 161, FSG 162, RAW 182 and RAW 180
<b>Contact time</b>	3 lectures per week
<b>Language of tuition</b>	Afrikaans
<b>Academic organisation</b>	Physics
<b>Period of presentation</b>	Semester 1

---

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 each student to familiarise himself or herself 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.