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# University of Pretoria Yearbook 2016

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## Radiation physics 211 (RFI 211)

<b>Qualification</b>	Undergraduate
<b>Faculty</b>	<a href="#">Faculty of Natural and Agricultural Sciences</a>
<b>Module content</b>	Radio-active decay: half-life, alfa decay, beta decay, gamma decay. Production of isotopes cyclotron, nuclear reactor, Van de Graaff accelerator. Absorption: nucleons, alfa particles, beta particles. Dosimetry: exposure, absorbed dose, equivalent dose, effective dose, dose limits. Radiation detectors: Geiger counter, scintillation counter, thermoluminescent detector, semi-conductor detectors. Radiopharmaceuticals. Biological effects: genetic and somatic effects.
<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, RAW 180, RAN 100, FSG 161, FSG 162, RAW 182 and MTL 180
<b>Contact time</b>	4 lectures per week
<b>Language of tuition</b>	Afrikaans
<b>Academic organisation</b>	Physics
<b>Period of presentation</b>	Semester 2

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