

# University of Pretoria Yearbook 2016

## Physics 133 (PHY 133)

<b>Qualification</b>	Undergraduate
<b>Faculty</b>	<a href="#">Faculty of Natural and Agricultural Sciences</a>
<b>Module credits</b>	8.00
<b>Programmes</b>	<a href="#">BEd Senior Phase and Further Education and Training Teaching</a> <a href="#">BSc Extended programme - Biological and Agricultural Sciences</a> <a href="#">BSc Extended programme - Mathematical Sciences</a> <a href="#">BSc Extended programme - Physical Sciences</a>
<b>Service modules</b>	Faculty of Engineering, Built Environment and Information Technology Faculty of Education
<b>Prerequisites</b>	As for BSc Four-year programme
<b>Contact time</b>	MAMELODI, 2 practicals per week, 2 lectures per week, Foundation Course, 2 discussion classes per week
<b>Language of tuition</b>	English
<b>Academic organisation</b>	Physics
<b>Period of presentation</b>	Semester 1

### Module content

Heat: temperature and scales, the kinetic molecular model, work, energy and heat, calorimetry, specific heat, expansion, heat transfer. Measurements: SI-units, measuring error and uncertainty, (graphs), significant figures, mathematical modelling. Geometrical optics: reflection, refraction, dispersion, mirrors, thin lenses, instruments.

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