

# University of Pretoria Yearbook 2018

## Physics 133 (PHY 133)

**Qualification** Undergraduate

**Faculty** [Faculty of Natural and Agricultural Sciences](#)

**Module credits** 8.00

**Programmes** [BEd Senior Phase and Further Education and Training Teaching](#)  
[BSc Extended programme - Biological and Agricultural Sciences](#)  
[BSc Extended programme - Mathematical Sciences](#)  
[BSc Extended programme - Physical Sciences](#)

**Service modules** Faculty of Engineering, Built Environment and Information Technology  
Faculty of Education

**Prerequisites** As for BSc Four-year programme

**Contact time** 2 discussion classes per week, 2 lectures per week, 2 practicals per week,  
Foundation Course

**Language of tuition** Module is presented in English

**Department** Physics

**Period of presentation** Semester 1

### Module content

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

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