

University of Pretoria Yearbook 2022

Physics 133 (PHY 133)

Qualification Undergraduate

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

Module credits 8.00

NQF Level 05

Programmes [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 Admission to the relevant 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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