

University of Pretoria Yearbook 2021

Introductory physics 152 (CGS 152)

Qualification Undergraduate

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

Module credits 8.00

NQF Level 05

Prerequisites No prerequisites.

Contact time 2 discussion classes per week, 2 lectures per week, 2 practicals per week

Language of tuition Module is presented in English

Department Physics

Period of presentation Semester 1

Module content

Heat and temp: Thermal interaction; operational definition of temperature; expansion; temperature in the kinetic molecular model; work, energy and heat; phase transitions and mechanisms of heat transfer. Measurements: What is measuring; the scientific method; measuring error; significant figures. Geometric optics: Light travels straight; shadow formation; plane, convex and concave mirrors; refraction and lenses (thin); optical instruments. Practical related to the topics.

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