



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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