

University of Pretoria Yearbook 2021

Physics 143 (PHY 143)

Qualification Undergraduate

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

Module credits 8.00

NQF Level 05

Programmes [BSc extended programme - Mathematical Sciences](#)

[BSc extended programme - Physical Sciences](#)

Service modules Faculty of Engineering, Built Environment and Information Technology

Faculty of Education

Prerequisites PHY 133

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 2

Module content

Vectors. Kinematics of a point: relative motion, projectile, circular motion. Dynamics: Newton's laws, friction. Work: point masses, ideal gas law, springs, power. Energy: kinetic energy, potential energy, conservative forces, spring, conservation of mechanical energy. Hydrostatics and dynamics: density, pressure, Archimedes' law, continuity, Bernoulli.

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