

# 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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