



# University of Pretoria Yearbook 2021

## Physics 153 (PHY 153)

**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

**Prerequisites** PHY 143

**Contact time** 2 discussion classes per week, 2 practicals per week, 3 lectures per week, Foundation Course

**Language of tuition** Module is presented in English

**Department** Physics

**Period of presentation** Semester 1

### Module content

System of particles: centre of mass, Newton's laws. Rotation: torque, conservation of momentum, impulse and collision, conservation of angular momentum, equilibrium, centre of gravity. Oscillations. Waves: sound, intensity, superposition, interference, standing waves, resonance, beats, Doppler effect. Physical optics: Young-interference, coherence, thin layers, diffraction, gratings, polarisation.

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