

University of Pretoria Yearbook 2020

Physics 153 (PHY 153)

Qualification Undergraduate

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

Module credits 8.00

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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