

# University of Pretoria Yearbook 2016

## Physics 153 (PHY 153)

<b>Qualification</b>	Undergraduate
<b>Faculty</b>	<a href="#">Faculty of Natural and Agricultural Sciences</a>
<b>Module credits</b>	8.00
<b>Programmes</b>	<a href="#">BSc Extended programme - Mathematical Sciences</a> <a href="#">BSc Extended programme - Physical Sciences</a>
<b>Service modules</b>	Faculty of Engineering, Built Environment and Information Technology
<b>Prerequisites</b>	PHY 143
<b>Contact time</b>	2 practicals per week, Foundation Course, 2 discussion classes per week, 3 lectures per week
<b>Language of tuition</b>	English
<b>Academic organisation</b>	Physics
<b>Period of presentation</b>	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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