

University of Pretoria Yearbook 2016

Physics 210 (JFK 210)

Qualification	Undergraduate
Faculty	Faculty of Education
Module credits	10.00
Prerequisites	No prerequisites.
Language of tuition	Both Afr and Eng
Academic organisation	Science, Maths + Techno Ed
Period of presentation	Semester 1

Module content

Periodical motion, waves, sound and optics

Energy of SHM, equations of SHM, the simple pendulum, the physical pendulum. Types of mechanical waves, mathematical description of a wave, superposition and standing waves, resonance, sound waves, intensity, beats, the Doppler effect. Light as an EM-wave and colour, reflection at plane mirrors, reflection at spherical mirrors, refraction at a spherical interface, image forming at thin lenses, the eye as optical instrument, interference and diffraction.

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