

## University of Pretoria Yearbook 2019

## Physics 144 (PHY 144)

Undergraduate
Faculty of Natural and Agricultural Sciences
8.00
BSc Extended programme - Biological and Agricultural Sciences
Faculty of Education
PHY 133
Foundation Course, 1 practical per week, 4 lectures per week
Module is presented in English
Physics
Semester 2

## Module content

The main topics covered in this module are Mechanics and Thermodynamics. Kinematics: Basic types of motion, one-dimensional motion, two- and three dimensional motion, linear momentum and its conservation, multi-object systems and the centre of mass.

Forces: Types of forces, Newton's Laws of Mechanics and applications, friction.

Energy: Work, heat, conservation of mechanical energy.

Thermodynamics: First law of thermodynamics, empirical gas laws, mechanical model of the ideal gas, energy of the ideal gas, basic thermodynamic processes.

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