

University of Pretoria Yearbook 2022

Physical sciences education 310 (JPC 310)

Qualification Undergraduate

Faculty [Faculty of Education](#)

Module credits 12.00

NQF Level 07

Programmes [BEd \(Senior Phase and Further Education and Training Teaching\)](#)

Contact time 2 lectures per week, 2 practicals per week

Department Science Mathematics and Technology Education

Period of presentation Semester 2

Module content

Application of vectors in one and two dimensions in motion and forces. Newton's laws, Momentum, Work and Energy, Waves, Sound and Light Electrostatics, Electric circuits, Magnetism, Electromagnetism, Electrodynamics, Atomic structure, Chemical bonding, Chemical reactions, Stoichiometry, Energy and Chemical change, Reaction rate, Chemical equilibrium, Electrochemistry, Ideal gasses, Properties of materials

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