

# 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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