



University of Pretoria Yearbook 2017

Electrodynamics 705 (PHY 705)

Qualification Postgraduate

Faculty [Faculty of Natural and Agricultural Sciences](#)

Module credits 15.00

Prerequisites No prerequisites.

Contact time 6 lectures per week

Language of tuition Module is presented in English

Academic organisation Physics

Period of presentation Semester 2

Module content

Conservation laws in electrodynamics; electromagnetic waves in vacuum, dielectrics, conductors and wave guides; potentials and fields, gauge transformations, Liénard-Wiechert potentials; electric and magnetic dipole radiation, radiation by a point charge; relativistic electrodynamics.

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