
University of Pretoria Yearbook 2017

Analytical physics 714 (PHY 714)

Qualification Postgraduate

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

Module credits 15.00

Prerequisites No prerequisites.

Contact time 4 lectures per week

Language of tuition Module is presented in English

Academic organisation Physics

Period of presentation Semester 1

Module content

Review of surface analytical techniques, surface structure determinations, surface topography techniques, theory of contrast in electron microscopy; electron microscopic surface and interface techniques; scanning tunnelling microscopy; electrical and electro-optical characterisation of semiconductors; determination of defects and impurities in semiconductors; propagation of laser rays; photoluminescence.

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