

# University of Pretoria Yearbook 2017

## Interferometry 716 (EFR 716)

<b>Qualification</b>	Postgraduate
<b>Faculty</b>	<a href="#">Faculty of Engineering, Built Environment and Information Technology</a>
<b>Module credits</b>	16.00
<b>Prerequisites</b>	No prerequisites.
<b>Contact time</b>	16 contact hours per semester
<b>Language of tuition</b>	Module is presented in English
<b>Academic organisation</b>	Electrical, Electronic and Com
<b>Period of presentation</b>	Semester 1

### Module content

Credits: 16 (must be combined with Introduction to the science of measurement to form a 32 credit module)

Theory: Michelson interferometer, Mach-Zehnder interferometer, Shack-Hartmann interferometer, Fabry-Perot interferometer, introduction to polarisation interferometry, introduction to interference microscopy, introduction to optical thin films. Practical: alignment of optical flats, evaluation of optical surfaces, interpretation of interferograms obtained from a Fizeau interferometer, interpretation of Newton fringes, application of a wedge interferometer to determine the thickness of a thin film.

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