

# University of Pretoria Yearbook 2017

## Non-destructive testing 780 (MCT 780)

**Qualification** Postgraduate

**Faculty** [Faculty of Engineering, Built Environment and Information Technology](#)

**Module credits** 16.00

**Programmes** [BEngHons Mechanical Engineering](#)  
[BScHons Applied Science Mechanics](#)

**Contact time** 21 contact hours per semester

**Language of tuition** Module is presented in English

**Academic organisation** Mechanical and Aeronautical En

**Period of presentation** Semester 1 or Semester 2

### Module content

Probability, design and management in non-destructive testing (NDT). Fundamental theory of commonly used NDT methods: Ultrasonic testing, Electromagnetic testing (MT and ACFM). Radiographic testing, Penetrant testing, Eddy current testing. Other NDT technologies, including phased array UT, time-of flight diffraction. Digital (RT and Acoustic emission. Monitoring.

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