

University of Pretoria Yearbook 2020

Reliability engineering 781 (MIR 781)

Qualification Postgraduate **Faculty** Faculty of Engineering, Built Environment and Information Technology Module credits 16.00 **Programmes BEngHons Mechanical Engineering BScHons Applied Science Mechanics** BScHons Applied Science Mechanics: Physical Asset Management **Prerequisites** No prerequisites. **Contact time** 21 contact hours per semester Language of tuition Module is presented in English

Period of presentation Semester 1

Module content

Department

Introduction to probabilistic distributions, computation of system reliability, building reliability models and optimisation of system reliability; Fault Tree Analysis; Failure Modes, Effects and Criticality Analysis (FMECA), Monte Carlo Simulation; probability-based design.

Mechanical and Aeronautical Engineering

The information published here is subject to change and may be amended after the publication of this information. The **General Regulations** (**G Regulations**) apply to all faculties of the University of Pretoria. It is expected of students to familiarise themselves well with these regulations as well as with the information contained in the **General Rules** section. Ignorance concerning these regulations and rules will not be accepted as an excuse for any transgression.