

University of Pretoria Yearbook 2021

Engineering asset management and maintenance 801 (IAM 801)

Qualification	Postgraduate
Faculty	Faculty of Engineering, Built Environment and Information Technology
Module credits	10.00
NQF Level	09
Programmes	MEng Engineering Management (Coursework) MSc Engineering Management (Coursework)
Prerequisites	No prerequisites.
Contact time	20 contact hours per semester
Language of tuition	Module is presented in English
Department	Engineering and Technology Management
Period of presentation	Semester 1 or Semester 2

Module content

Since the beginning of human history, man has continued to engineer artefacts that provide the means to enhance the way we live, often by directly replacing humans in numerous laborious and dangerous tasks. These engineered assets range from indispensable and personalisable gadgets (e.g., mobile phone) and tools (e.g., notebook computer) to small and large scale cyber-physical systems, equipment, facilities, infrastructure, machinery, and industrial plant that are deployed in all aspects of human endeavour. The module emphasises the value doctrine as the basis for managing engineered assets. Thus, the focus is on the synergy between multidisciplinary knowledge areas in science, engineering and technology, as well as the application of cross-disciplinary skills in operations, maintenance, finance, logistics, human resources, inter alia, to achieve effective management of engineered assets that constitute our built environment. Candidates studying the module will be required to analyse case studies and to carry out practical exercises.

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