

University of Pretoria Yearbook 2017

Maintenance operations 783 (MIP 783)

Qualification Postgraduate

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

Module credits 16.00

Prerequisites No prerequisites.

Contact time 2 lectures per week

Language of tuition Module is presented in English

Academic organisation Mechanical and Aeronautical En

Period of presentation Semester 2

Module content

Understanding the Maintenance Function: Maintenance Models, Maintenance Profit Impact, Maintenance Reliability Centredness, Strategic Fundamentals, Building a Business Case for Maintenance, Maintenance Management Systems: Philosophies, System Structure, Database Structure, Maintenance Administration, Work/Cost/Materials Control, Maintenance Cost Management: Maintenance Cost Strategies, Maintenance Budgeting, Maintenance Cost Analysis, Total Productive Maintenance: History, Benefits, Structure, Implementation, Strategic Thinking in Maintenance: Principles, The role of a Maintenance Policy, Measurement, Quality in Maintenance: Quality Principles, Total Quality Management, Maintenance Application, Maintenance Risk: Risk Calculation, Macro Risk Management, Micro Risk Management, World Class Maintenance: Definitions, Methods to achieve WCM.

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