

University of Pretoria Yearbook 2020

Operational research 312 (BOZ 312)

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| Qualification | Undergraduate |
| Faculty | Faculty of Engineering, Built Environment and Information Technology |
| Module credits | 16.00 |
| Programmes | BEng Industrial Engineering BEng Industrial Engineering ENGAGE |
| Prerequisites | No prerequisites. |
| Contact time | 2 discussion classes per week, 4 lectures per week |
| Language of tuition | Module is presented in English |
| Department | Industrial and Systems Engineering |
| Period of presentation | Semester 1 |

Module content

Introduction to Operations Research, and more specifically the branch of optimisation and its application to industrial problems. In the module the topics of linear and integer linear programming are introduced. The focus is on identifying and scoping appropriate problems, the subsequent formulation of problems, solution algorithms, and post-optimisation sensitivity analysis. Students are exposed to solving problems using optimisation software.

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