

University of Pretoria Yearbook 2021

Operational research 410 (BON 410)

Qualification Undergraduate

Faculty Faculty of Engineering, Built Environment and Information Technology

Module credits 16.00

NQF Level 08

Programmes BEng Industrial Engineering

BEng Industrial Engineering ENGAGE

Prerequisites (BES 220), (BOZ 312)

Contact time 1 tutorial per week, 3 lectures per week

Language of tuition Module is presented in English

Department Industrial and Systems Engineering

Period of presentation Semester 1

Module content

Review of basic probability, Markov chain models, Markov decision models. Queuing systems: M/M/1 queues (both finite and infinite capacity), etc.; deterministic and stochastic inventory models. Competitive games: pure and mixed strategies, optimum strategy, two-person zero-sum games, graphical methods and applications, LP methods for games.

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