

University of Pretoria Yearbook 2019

Operational research 410 (BON 410)

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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 | (BES 220), (BOZ 312) |
| Contact time | 3 lectures per week, 1 tutorial 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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