



Universiteit van Pretoria Jaarboek 2017

Voorraadsisteme 780 (BEE 780)

Kwalifikasie Nagraads

Fakulteit Fakulteit Ingenieurswese, Bou-omgewing en Inligtingtegnologie

Modulekrediete 16.00

Voorvereistes Geen voorvereistes.

Kontaktyd 24 kontakure

Onderrigtaal Module word in Engels aangebied

Akademiese organisasie Bedryfs- en Sisteemingenieursw

Aanbiedingstydperk Semester 1 of Semester 2

Module-inhoud

* Hierdie inligting is slegs in Engels beskikbaar.

- Theory of Inventory Systems:

Inventory models and modelling including time and certainty complexities, linear and non-linear systems and feedback systems

- Review of inventory models:

Types and representations (classic, shortage, capacity constraint, time value of money, deterioration, time varying, stochastic inputs, imperfect quality, integrated scheduling and lot sizing models, service systems and retrieval queues)

- Review of important inventory papers, their approaches and their foci:

- Modelling and Solution techniques:

Characterisation and assumptions

Mathematical Modelling, Mathematical Programming, Heuristics, Simulation Models, Control Theory and other approaches

- State of the art of modelling:

Current challenges and research trends

- Technological solutions of inventory modelling and management:

Algorithms and software, integration to MRP, ERP and scheduling modules, integration to WMS modules, and demonstrations

Die inligting wat hier verskyn, is onderhewig aan verandering en kan na die publikasie van hierdie inligting gewysig word.. Die [Algemene Regulasies \(G Regulasies\)](#) is op alle fakulteite van die Universiteit van Pretoria van toepassing. Dit word vereis dat elke student volkome vertroud met hierdie regulasies sowel as met die inligting vervat in die [Algemene Reëls](#) sal wees. Onkunde betreffende hierdie regulasies en reëls sal nie as 'n verskoning by oortreding daarvan aangebied kan word nie.