

Universiteit van Pretoria Jaarboek 2017

Simulasiemodellering 780 (BUY 780)

Kwalifikasie Nagraads

Fakulteit [Fakulteit Ingenieurswese, Bou-omgewing en Inligtingtegnologie](#)

Modulekrediete 32.00

Voorvereistes BAN 313 of BAN 780

Kontaktyd 48 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.

In recent years the boundaries between different simulation paradigms such as discrete event simulation, system dynamics and agent-based models have become less distinct. Improvements in computational efficiency also allow much richer and complex models to be built. This course introduces agent-based models (ABM) as a class of computational models that deal with autonomous agents and their interactions with other agents, and their surrounding environments. Course content covers basic theoretical foundations of ABM and then focuses on a few specific application areas where ABM is used for decision-making: pedestrian and transport models; production and logistics; as well as biology.

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 vertrou 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.