

University of Pretoria Yearbook 2018

Reactor design 410 (CRO 410)

Qualification Undergraduate

Faculty [Faculty of Engineering, Built Environment and Information Technology](#)

Module credits 16.00

Programmes [BEng Chemical Engineering](#)
[BEng Chemical Engineering ENGAGE](#)

[BScHons Applied Science Chemical Technology](#)

Prerequisites CKN 321 GS

Contact time 3 tutorials per week, 4 lectures per week

Language of tuition Module is presented in English

Department Chemical Engineering

Period of presentation Semester 1

Module content

Heterogeneous catalysis: diffusion in reaction for catalyst pores and different catalyst geometries. Inter and intraparticle heat and mass transfer processes. Reactor design: energy and continuity equation for different types of reactor: stirred tank, pipe, radial flow, slurry and fluidised. Modelling of non-ideal flow in reactors.

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