

University of Pretoria Yearbook 2017

Chemical engineering 123 (CIR 123)

Qualification Undergraduate

Faculty Faculty of Engineering, Built Environment and Information Technology

Module credits 8.00

Programmes BEng Chemical Engineering

BEng Chemical Engineering ENGAGE

Prerequisites CIR 113, CHM 171 GS

Contact time 2 lectures per week, 2 tutorials per week

Language of tuition Module is presented in English

Academic organisation Chemical Engineering

Period of presentation Semester 2

Module content

Chemical reaction and stoichiometry, excess reactant, conversion, yield, selectivity. Material balances with recycle streams, bypass streams and purge streams. Gases, vapours and liquids: ideal gas law, SG and density of gases, Nm³. Material balances where gases are involved. Fuels and combustion: coal analysis, combustion calculations.

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