

University of Pretoria Yearbook 2016

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 tutorials per week, 2 lectures per week
Language of tuition	Both Afr and Eng
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, Nm^3 . Material balances where gases are involved. Fuels and combustion: coal analysis, combustion calculations.

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