## University of Pretoria Yearbook 2020

## Chemical engineering 211 (CIR 211)

## Qualification

## Faculty

## Programmes

## Prerequisites

Contact time
Language of tuition
Department

Undergraduate
Faculty of Engineering, Built Environment and Information Technology
12.00

BEng Chemical Engineering
BEng Chemical Engineering ENGAGE

## CIR 123

3 lectures per week, 3 tutorials per week
Module is presented in English
Chemical Engineering

## Period of presentation Semester 1

## Module content

Vapour pressure, phase changes, equilibrium. Vapour/gas equilibrium; Henry's law. Enthalpy and enthalpy balances. Heat of reaction. Data and data sources, steam tables. Enthalpy and combustion; flame temperature. Heats of solution and mixing. Miscible and immiscible liquid mixtures; dew point, bubble point. Simultaneous mass and enthalpy balances. PVT properties of real gases, PVT-diagrams of pure compounds. Vapour liquid equilibrium for ideal mixtures (Raoult's law).

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