

University of Pretoria Yearbook 2022

Chemical engineering materials 210 (CIM 210)

Qualification Undergraduate

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

Module credits 8.00

NQF Level 06

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

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

Prerequisites CHM 181

Contact time 2 lectures per week, 2 tutorials per week

Language of tuition Module is presented in English

Department Chemical Engineering

Period of presentation Semester 1

Module content

Introduction to the synthesis, processing, structure, physical properties, and technical performance of important engineering materials: metals, ceramics, polymers and composites. Structural, mechanical, thermodynamic, and design related issues important to chemical engineering applications. Materials specification with emphasis on the corrosion of metals and life time estimation for polymer components.

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