

University of Pretoria Yearbook 2017

Inorganic chemistry 285 (CMY 285)

Qualification	Undergraduate
Faculty	Faculty of Natural and Agricultural Sciences
Module credits	12.00
Programmes	BEd Senior Phase and Further Education and Training Teaching BSc Computer Science BSc Biochemistry BSc Chemistry BSc Engineering and Environmental Geology BSc Genetics BSc Geography BSc Geology BSc Physics
Service modules	Faculty of Education
Prerequisites	CMY 117 and CMY 127
Contact time	2 practicals per week, 1 tutorial per week, 4 lectures per week
Language of tuition	Module is presented in English
Academic organisation	Chemistry
Period of presentation	Quarter 4

Module content

Theory: Atomic structure, structure of solids (ionic model). Coordination chemistry of transition metals: Oxidation states of transition metals, ligands, stereochemistry, crystal field theory, consequences of d-orbital splitting, chemistry of the main group elements, electrochemical properties of transition metals in aqueous solution, industrial applications of transition metals. Fundamentals of spectroscopy and introduction to IR spectroscopy.

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