University of Pretoria Yearbook 2018

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 Human Physiology
	BSc Physics
Service modules	Faculty of Education
Prerequisites	CMY 117 and CMY 127
Contact time	1 tutorial per week, 2 practicals per week, 4 lectures per week
Language of tuition	Module is presented in English
Department	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.