



University of Pretoria Yearbook 2020

Inorganic chemistry 285 (CMY 285)

Qualification Undergraduate

Faculty [Faculty of Natural and Agricultural Sciences](#)

Module content 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. During practical training students learn to acquire and report data ethically. Practical training also deals with the misuse of chemicals and appropriate waste disposal to protect the environment and meet the UN sustainable development goals.

Module credits 12.00

Programmes [BEd Senior Phase and Further Education and Training Teaching](#)

[BSc Applied Mathematics](#)

[BSc Biochemistry](#)

[BSc Chemistry](#)

[BSc Engineering and Environmental Geology](#)

[BSc Genetics](#)

[BSc Geology](#)

[BSc Human Physiology](#)

[BSc Mathematics](#)

[BSc Physics](#)

[BSc Plant Science](#)

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

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