



University of Pretoria Yearbook 2021

Introductory soil science 250 (GKD 250)

Qualification Undergraduate

Faculty Faculty of Natural and Agricultural Sciences

Module credits 12.00

NQF Level 06

Programmes BSc Biotechnology

BSc Chemistry

BSc Ecology

BSc Engineering and Environmental Geology

BSc Geography and Environmental Science

BSc Geology

BSc Meteorology

BSc Plant Science

BSc Zoology

BScAgric Agricultural Economics and Agribusiness Management

BScAgric Animal Science

BScAgric Applied Plant and Soil Sciences

BScAgric Plant Pathology

Service modules Faculty of Engineering, Built Environment and Information Technology

Prerequisites CMY 117 GS

Contact time 1 practical per week, 3 lectures per week

Language of tuition Module is presented in English

Department Department of Plant and Soil Sciences

Period of presentation Semester 1

Module content

Origin and development of soil, weathering and soil formation processes. Profile differentiation and morphology. Physical characteristics: texture, structure, soil water, atmosphere and temperature. Chemical characteristics: clay minerals, ion exchange, pH, buffer action, soil acidification and salinisation of soil. Soil fertility and fertilisation. Soil classification. Practical work: Laboratory evaluation of simple soil characteristics. Field practicals on soil formation in the Pretoria area.



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