

University of Pretoria Yearbook 2018

Sustainable crop production and agroclimatology 251 (PPK 251)

Qualification	Undergraduate
Faculty	Faculty of Natural and Agricultural Sciences
Module credits	15.00
Programmes	BSc Biotechnology BSc Environmental Sciences BScAgric Agricultural Economics and Agribusiness Management BScAgric Animal Science BScAgric Applied Plant and Soil Sciences BScAgric Plant Pathology
Prerequisites	BOT 161
Contact time	3 lectures per week, fortnightly practicals
Language of tuition	Separate classes for Afrikaans and English
Department	Department of Plant and Soil Sciences
Period of presentation	Semester 2

Module content

Influence of climate on cropping systems in South Africa. The surface energy balance. Hydrological cycles and the soil water balance. Sustainable crop production. Simple radiation and water limited models. Potential yield, target yield and maximum economic yield. Crop nutrition and fertiliser management. Principles of soil cultivation and conservation. Climate change and crop production – mitigation and adaptation.

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