

University of Pretoria Yearbook 2020

Plant disease epidemiology 463 (PLG 463)

Qualification	Undergraduate
Faculty	Faculty of Natural and Agricultural Sciences
Module credits	18.00
Programmes	BScAgric Plant Pathology
Prerequisites	PLG 251 or PLG 262 and PLG 363
Contact time	1 practical per week, 2 lectures per week
Language of tuition	Module is presented in English
Department	Department of Plant and Soil Sciences
Period of presentation	Semester 2

Module content

Understanding of how plant disease epidemics occur in nature and how they can be monitored and analysed. In-depth knowledge how of plant diseases cause crop losses, how these losses are quantified, and how losses are predicted. Examples of how epidemiology is used to set the strategy of plant disease control. Use of some statistical procedures and modelling for quantifying and comparing epidemics. Classical case studies from South African disease epidemiological models will be discussed i.e. citrus black spot. Impact of climate change on plant disease development and how this relates to achieving the sustainable development goal #13 Take urgent action to combat climate change and its impact. In-depth discussions on plant-pathogen interactions and plant defence mechanisms.

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