

University of Pretoria Yearbook 2021

Physical meteorology 261 (WKD 261)

Qualification	Undergraduate
Faculty	Faculty of Natural and Agricultural Sciences
Module credits	12.00
NQF Level	06
Programmes	BSc Geography and Environmental Science BSc Meteorology BSc Physics
Prerequisites	WTW 114 or WTW 158 or WTW 134 or WTW 165.
Contact time	1 tutorial per week, 4 lectures per week
Language of tuition	Module is presented in English
Department	Geography Geoinformatics and Meteorology
Period of presentation	Quarter 2

Module content

Conservative forces and conservation laws. Basic thermodynamic laws for dry and humid air. The equation of state. Adiabatic processes and temperature lapse rates. The Clausius-Clapeyron equation. Calculation of the wet adiabat. Radiative transfer. The physical basis of climate change.

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