University of Pretoria Yearbook 2018

Dynamic meteorology 706 (WKD 706)

Qualification	Postgraduate
Faculty	Faculty of Natural and Agricultural Sciences
Module credits	16.00
Programmes	BScHons Meteorology
Prerequisites	No prerequisites.
Contact time	1 lecture per week, 1 practical per week
Language of tuition	Module is presented in English
Department	Geography Geoinformatics and Meteorology
Period of presentation	Semester 1 or Semester 2

Module content

Atmospheric oscillations: Linear perturbation theory (shallow water gravity waves, inertia gravity waves, Rossby waves). Baroclinic instability. Two-layer model. Energetics of Baroclinic waves. Zonally averaged circulation. Angular momentum budget. Lorenz energy cycle. Programming in metereology.