

University of Pretoria Yearbook 2018

Dynamic meteorology 706 (WKD 706)

FacultyFaculty of Natural and Agricultural SciencesModule credits16.00ProgrammesBScHons MeteorologyPrerequisitesNo prerequisites.Contact time1 lecture per week, 1 practical per week

Postgraduate

Language of tuition Module is presented in English

Department Geography Geoinformatics and Meteorology

Period of presentation Semester 1 or Semester 2

Module content

Oualification

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.

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