



University of Pretoria Yearbook 2018

Fluid mechanics in geological media 725 (GTX 725)

Qualification Postgraduate

Faculty Faculty of Natural and Agricultural Sciences

Module credits 15.00

Programmes BScHons Engineering and Environmental Geology Engineering Geology
BScHons Engineering and Environmental Geology Hydrogeology

Prerequisites GLY 363 and GLY 265

Contact time 2 lectures per week for 3 weeks, 2 practicals per week (3 weeks)

Language of tuition Module is presented in English

Department Geology

Period of presentation Year

Module content

Statics and dynamics of fluids, including water, aqueous phase liquids (saline water), non-aqueous phase liquids (petroleum hydrocarbons), gases (atmospheric air) and man-made fluids (gout) through natural and man-made porous media (eg soil, rock, concrete). Single phase flow and multiphase flow; saturated and unsaturated flow. Quantification of hydrological parameters. South African hydrostratigraphy. Drainage and dewatering.

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