

University of Pretoria Yearbook 2020

Fluid mechanics in geological media 725 (GTX 725)

Qualification Postgraduate

Faculty [Faculty of Natural and Agricultural Sciences](#)

Module credits 20.00

Programmes [BScHons Engineering and Environmental Geology Engineering Geology](#)
[BScHons Engineering and Environmental Geology Hydrogeology](#)

Prerequisites No prerequisites.

Contact time 2 practicals per week (4 weeks), 4 lectures per week

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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