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# University of Pretoria Yearbook 2020

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## 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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