

University of Pretoria Yearbook 2017

Igneous petrology and geochemistry 711 (GLY 711)

Qualification Postgraduate

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

Module credits 12.00

Programmes [BScHons Geology](#)

Prerequisites No prerequisites.

Contact time 2 practicals per week, 2 lectures per week

Language of tuition Module is presented in English

Academic organisation Geology

Period of presentation Year

Module content

Interpretation and application of advanced petrogenetic tools: the Rb/Sr and Sm/Ndisotopic systems, quantitative interpretation of binary and ternary phase diagrams, assimilation-fractional crystallisation – partial melting. Abundance of elements in the crust, crust-forming models. Hydrous geochemistry. Recognition of geochemical anomalies. Analytical methods and the treatment of geochemical data.

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