

# University of Pretoria Yearbook 2021

## Modern analytical methods and sampling theory 715 (GLY 715)

<b>Qualification</b>	Postgraduate
<b>Faculty</b>	<a href="#">Faculty of Natural and Agricultural Sciences</a>
<b>Module credits</b>	20.00
<b>NQF Level</b>	08
<b>Programmes</b>	<a href="#">BScHons Geology</a>
<b>Prerequisites</b>	No prerequisites.
<b>Contact time</b>	2 lectures per week, 2 practicals per week
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	Geology
<b>Period of presentation</b>	Year

### Module content

Modern analytical methods, including X-ray Diffraction (XRD), X-ray Fluorescence (XRF), inductively coupled mass spectrometry (ICP-MS), methods of isotopic analysis, and electron beam methods (EPMA, SEM, CT). An introductory statistical course in sampling methods, treatment of data, statistical validity, and basic geostatistics.

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